SEMI-ANNUAL GROUNDWATER MONITORING REPORT

HIGH PLAINS DISPOSAL – KERSEY
GREELEY, COLORADO

SEPTEMBER 2019

Prepared for:

HIGH PLAINS DISPOSAL
23360 Weld County Road 54
Greeley, Colorado 80631

Prepared by:

LT ENVIRONMENTAL, INC.
4600 West 60th Avenue
Arvada, Colorado 80003
(303) 433-9788

LT Environmental, Inc.
Advancing Opportunity

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

KERSEY HIGH PLAINS DISPOSAL
GREELEY, COLORADO

Project Number: 036219003

Prepared by: ______________________ September 3, 2019

Bryan Paraspolo
LTE Project Environmental Scientist

Date

Reviewed by: ______________________ September 3, 2019

Karen Trantow Lim
LTE Program Manager, Environmental Compliance

Date

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1.0 INTRODUCTION

This Semi-Annual Groundwater Monitoring Report was prepared by LT Environmental, Inc. (LTE) for High Plains Disposal (HPD) to document the groundwater sampling activities and analytical results at the Kersey injection well facility located at 23360 County Road 54, Greeley, Weld County, Colorado.

1.1 BACKGROUND

This report follows the format and procedures outlined in the HPD Kersey Groundwater Monitoring Plan (GMP) submitted to Weld County in 2009 and the Addenda for this facility and the HPD Platteville facility dated October 19, 2009 and approved by Weld County on November 2, 2009. The GMP and Addenda stipulated the quarterly groundwater monitoring and monthly leak detection monitoring procedures and reporting requirements for the HPD Kersey facility. On January 16, 2013, Weld County approved a revised sampling schedule. Semi-annually, the HPD Kersey facility is required to sample the seven existing facility monitoring wells. Quarterly, the facility is required to sample two of the monitoring wells nearest the vault and unloading areas. Reports are due to Weld County 60 days following the semi-annual sampling event.

1.2 SITE DESCRIPTION

The HPD Kersey facility address is 23360 County Road 54, Greeley, Weld County, Colorado. The facility is located on the south side of County Road 54, approximately 2.5 miles west-southwest of the town of Kersey. A site location map is presented as Figure 1. The facility consists of rangeland improved with a disposal (injection) well facility including an office, an unloading area, a covered concrete vault with a weir system, nine aboveground storage tanks (ASTs), and a pump house (Figure 2).

The facility provides services for the oil and gas exploration and production (E&P) industry. Activities included in the facility operations include, but are not limited to:

- Loading/unloading of trucks;
- Produced water processing;
- Skimming operations;
- Produced water storage;
- Crude oil storage; and
- Injection well operations.

The facility collects, stores, treats, and injects produced water into an injection well for disposal. The ASTs at the facility include six 750-barrel (bbl) ASTs for produced water storage, two 750-bbl ASTs for crude oil storage, and one 1,000-bbl gunbarrel separator tank.

The unloading area includes a series of grounded loading ports piped via a grated trench to the weir system. The covered concrete vault and weir system separates and settles the delivered fluids into the ASTs. Stored produced water is then pumped into the injection well for disposal.

1.3 SCOPE OF WORK

The scope of work for this project includes the following.

- Semi-annual groundwater sampling;
- Quarterly leak detection sampling;
- Laboratory analysis; and
- Data reporting.

A summary of field activities, analytical results from groundwater sampling, and conclusions are presented in the subsequent sections.

2.0 SUMMARY OF FIELD ACTIVITIES

2.1 GROUNDWATER SAMPLING

Semi-annual groundwater sampling activities were conducted by LTE personnel on July 29, 2019. Depth to groundwater measurements, which ranged from 4.39 feet below top of casing (btoc) in monitoring well MW-7 to 8.03 feet btoc in monitoring well MW-5, were used to calculate well-specific purge volumes. A groundwater elevation map illustrating relative groundwater elevations from the July sampling event is presented as Figure 3. Current and historical groundwater level measurements are summarized in Table 1. Field parameters were used to evaluate the stability of the monitoring wells during purging, including temperature, pH, and specific conductivity. Samples were not collected until field parameters were within a ten percent range difference. Field parameters are summarized in Table 2 and purge forms are presented in Appendix A.

Seven groundwater samples (MW-1 through MW-7) were collected and submitted under strict chain-of-custody protocol to Summit Scientific in Golden, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8260B, sulfate by EPA Method 300.0, chlorides by EPA Method 300.0, and total dissolved solids (TDS) by Standard Method SM2540C.

2.2 LEAK DETECTION SAMPLING

Quarterly leak detection sampling activities were conducted by LTE personnel on April 29, 2019. Prior to sampling, groundwater level measurements were collected from two monitoring wells (MW-5 and MW-6, Table 1). Depth to groundwater measurements, which ranged from 11.24 feet btoc in monitoring well MW-6 to 11.30 feet btoc in monitoring well MW-5, were used to calculate well-specific purge volumes. Field parameters were used to evaluate the stability of the monitoring wells during purging, including temperature, pH, and specific conductivity. Samples were not collected until field parameters were within a ten percent range difference. Field parameters are summarized in Table 2 and purge forms are presented in Appendix A.

In April 2019, two wells were required to be sampled for leak detection purposes: MW-5 and MW-6. Groundwater samples were collected and submitted under strict chain-of-custody protocol to Summit Scientific of Golden, Colorado, for analysis of BTEX, sulfate, chlorides, and TDS using the same analytical methods listed above in Section 2.1.

3.0 LABORATORY ANALTYICAL RESULTS

Groundwater samples were collected to evaluate the groundwater quality. Current and historical groundwater sample analytical results are summarized in Table 3. Copies of the laboratory analytical reports are included in Appendix B.

3.1 GROUNDWATER SAMPLING

During the semi-annual July 2019 groundwater sampling event, BTEX constituents were not detected above the laboratory reporting limits in any of the wells. TDS concentrations ranged from 1,400 milligrams per liter (mg/L) in MW-5 to 1,590 mg/L in MW-7. Chloride concentrations ranged from <6 mg/L in MW-5 to 299 mg/L in MW-2. Sulfate concentrations ranged from 319 mg/L in MW-5 to 692 mg/L in MW-2.

3.2 LEAK DETECTION SAMPLING

During the April 2019 leak detection sampling event, BTEX was not detected above the laboratory reporting limits in either well sampled. TDS was detected at 1,570 mg/L in MW-6 to 1,580 mg/L in MW-5. Chloride was detected at 227 mg/L in MW-5 to 233 mg/L in MW-6. Sulfate concentrations ranged from 488 mg/L in MW-5 to 570 mg/L in MW-6.

Quality control (QC) samples were collected during both sampling events to ensure data integrity. These data were evaluated during the statistical analysis. Table 4 summarizes the QC sample data.

4.0 STATISTICAL ANALYSIS

In accordance with the GMP, groundwater analytical results were assessed using statistical methods. Descriptive statistical analyses (number of data points, number of non-detectable data points, mean, maximum, minimum, standard deviation, and description of outliers) are presented in Appendix C. Trend analyses have been performed historically using the Mann-Kendall test and Sen's slope estimator.

4.1 DESCRIPTIVE ANALYSIS

A descriptive analysis was performed for each monitoring well sampled in July 2019. Descriptive analysis includes calculation of the number of data points, number of non-detectable data points, mean, maximum, minimum, and standard deviation. Results of the descriptive analysis are presented in Table 5. When a result was reported as less than the practical quantitation limit (PQL), a value that is one half of the practical quantitation limit was used in the descriptive analysis.

As part of the descriptive analysis, an outlier test was performed on the data from each monitoring well. Results for the outlier analysis are presented in Appendix C and a summary is presented in Table 6. A statistical outlier is a value that is significantly different from other values in the data set. Once a value is identified as an outlier, it becomes suspect and should be checked for possible laboratory, field collection, or data entry errors. However, statistical outliers may exist naturally and should not necessarily be removed from the data set unless the value can be observed to be erroneous.

Based on a review of the July 2019 outliers listed in Appendix C, the following detected outliers were identified.

- Benzene was reported as an outlier in the following:
    - MW-4 in July 2018 at 1.7 µg/L.
    - MW-5 in July 2018 at 1.2 µg/L and in January 2019 at 1.9 µg/L.
    - MW-6 in January 2011 at 2 µg/L, in February 2011 at 3.5 µg/L, January 2016 at 3.9 µg/L, in January 2017 at 1.8 µg/L, in October 2017 at 1.9 µg/L, and in July 2018 at 15 µg/L.
- Toluene was reported as an outlier in the following:
    - MW-1 in April 2012 at 0.56 µg/L.
    - MW-4 in July 2018 at 1.5 µg/L.
    - MW-5 in January 2019 at 2.1 µg/L.
    - MW-6 in April 2015 at 1.7 µg/L, in January 2016 at 2.2 µg/L, in January 2017 at 1.8 µg/L, and in July 2018 at 14 µg/L.
- Total xylene was reported as an outlier in the following:
    - MW-6 in March 2011 at 1.6 µg/L, in April 2011 at 7.9 µg/L, and in July 2018 at 2.8 µg/L.
- Chloride was reported as an outlier in the following:
    - MW-1 in July 2015 at 646 mg/L and in January 2019 at 1,280 mg/L.

    - MW-2 in July 2011 at 1 mg/L and January 2019 at 1,220 mg/L.
    - MW-3 in January 2015 at 719 mg/L, in January 2018 at 435 mg/L and in January 2019 at 1,230 mg/L.
    - MW-4 in January 2015 at 582 mg/L, in July 2015 at 421 mg/L, in January 2018 at 428 mg/L, in July 2018 at 439 mg/L and in January 2019 at 1,300 mg/L.
    - MW-5 in January 2015 at 589 mg/L, in July 2018 at 505 mg/L, in January 2019 at 1,130 mg/L and in July 2019 at 3 mg/L.
    - MW-6 in December 2010 at 5.3 mg/L, in January 2015 at 728 mg/L, in October 2016 at 60.1 mg/L, in October 2017 at 69 mg/L, in January 2018 at 526 mg/L, in July 2018 at 451 mg/L and in January 2019 at 989 mg/L.
    - MW-7 in January 2018 at 576 mg/L and in January 2019 at 835 mg/L.
- Sulfate was reported as an outlier in the following:
    - MW-1 in July 2015 at 1,810 mg/L and in January 2019 at 3,410 mg/L.
    - MW-2 in November 2009 at 1,185 mg/L, in April 2010 at 670 mg/L, in January 2011 at 1,130 mg/L, in October 2012 at 545 mg/L, in July 2013 at 630 mg/L, in January 2014 at 579 mg/L, in January 2017 at 1,200 mg/L, in July 2017 at 593 mg/L and in January 2018 at 1,090 mg/L.
    - MW-3 in January 2015 at 338 mg/L, in January 2018 at 1,210 mg/L and in January 2019 at 3,180 mg/L.
    - MW-4 in January 2012 at 1,210 mg/L, in January 2014 at 458 mg/L, in January 2015 at 1,440 mg/L, in July 2015 at 1,090 mg/L, in January 2017 at 1,100 mg/L, in January 2018 at 1,180 mg/L and in January 2019 at 3,340 mg/L.
    - MW-5 in January 2019 at 2,910 mg/L.
    - MW-6 in December 2010 at 16.3 mg/L, in December 2011 at 2,310 mg/L, in January 2018 at 1,470 mg/L and in January 2019 at 2,520 mg/L.
    - MW-7 in January 2018 at 1,440 mg/L and in January 2019 at 1,900 mg/L.
- TDS was reported as an outlier in the following:
    - MW-3 in April 2010 at 3,850 mg/L and in January 2015 at 11.8 mg/L.
    - MW-6 in October 2014 at 6,160 mg/L.
    - MW-7 in April 2010 at 5,820 mg/L.

Data noted with an asterisk in Table 6 denotes a value not detected, that was represented as half the laboratory reporting limit for outlier analysis and are not summarized above. No changes to the analyses and conclusions in subsequent sections of this report are recommended to accommodate the outliers.

4.2 TREND ANALYSIS

A trend analysis was performed for parameters at each monitoring well using the Mann-Kendall test and Sen's slope estimator to evaluate statistically significant trends. Results for the Sen's slope estimator are presented in Appendix C and a summary table is presented in Table 7.

Using the Mann-Kendall test, a trend is significant at a 99 percent (%) confidence level if the absolute value of the z-score is greater than or equal to the absolute value of the critical value.

Using these criteria, statistically significant decreasing trends were reported for TDS in well MW-3. Statistically significant increasing trends were reported for benzene in MW-5, toluene in MW-5, ethylbenzene in MW-5 and MW-6 and chloride in wells MW-3, MW-4, and MW-5. No other significant trends were reported.

The statistically significant trends appear to be caused by the decrease in the laboratory detection limits for total xylenes following the October 2010 groundwater sampling event. Trend analyses results are presented as Appendix C.

5.0 SUMMARY AND CONCLUSIONS

Semi-annual groundwater monitoring activities at the HPD Kersey facility were conducted on July 29, 2019, and quarterly leak detection sampling was conducted on April 29, 2019.

During the April 2019 leak detection sampling, BTEX was not detected above the laboratory reporting limits in any of the wells. TDS was detected at 1,570 mg/L in MW-6 to 1,580 mg/L in MW-5. Chloride was detected at 227 mg/L in MW-5 to 233 mg/L in MW-6. Sulfate concentrations ranged from 488 mg/L in MW-5 to 570 mg/L in MW-6.

During the July 2019 sampling event, BTEX was not detected above the laboratory reporting limits in any of the wells. TDS concentrations ranged from 1,400 milligrams per liter (mg/L) in MW-1 to 1,590 mg/L in MW-7. Chloride concentrations ranged from <6 mg/L in MW-5 to 299 mg/L in MW-2. Sulfate concentrations ranged from 319 mg/L in MW-5 to 692 mg/L in MW-2.

Based on a qualitative review of the analytical results, the groundwater analytical results for TDS, chloride, and sulfate are assumed to be indicative of background conditions with the exception of MW-1, MW-2 and MW-4. When using the established background monitoring well MW-7, the July 2019 groundwater sample results were elevated above the CDPHE Water Quality Control Commission groundwater standards criteria of 1.25 times background. During the July 2019 groundwater sampling event, sulfate was measured in MW-2 at 2.33% above the background. Chloride was measured in MW-1 at 4.4%; MW-2 was measured at 13.9; and MW-4 was measured at 5.1% above the background.

The next semi-annual groundwater sampling event is scheduled for January 2020, and quarterly leak detection is scheduled for October 2019. A report will be submitted 60 days following the semi-annual sampling event to summarize the analytical data from the recent sampling events as well as from the historical program data.

FIGURES

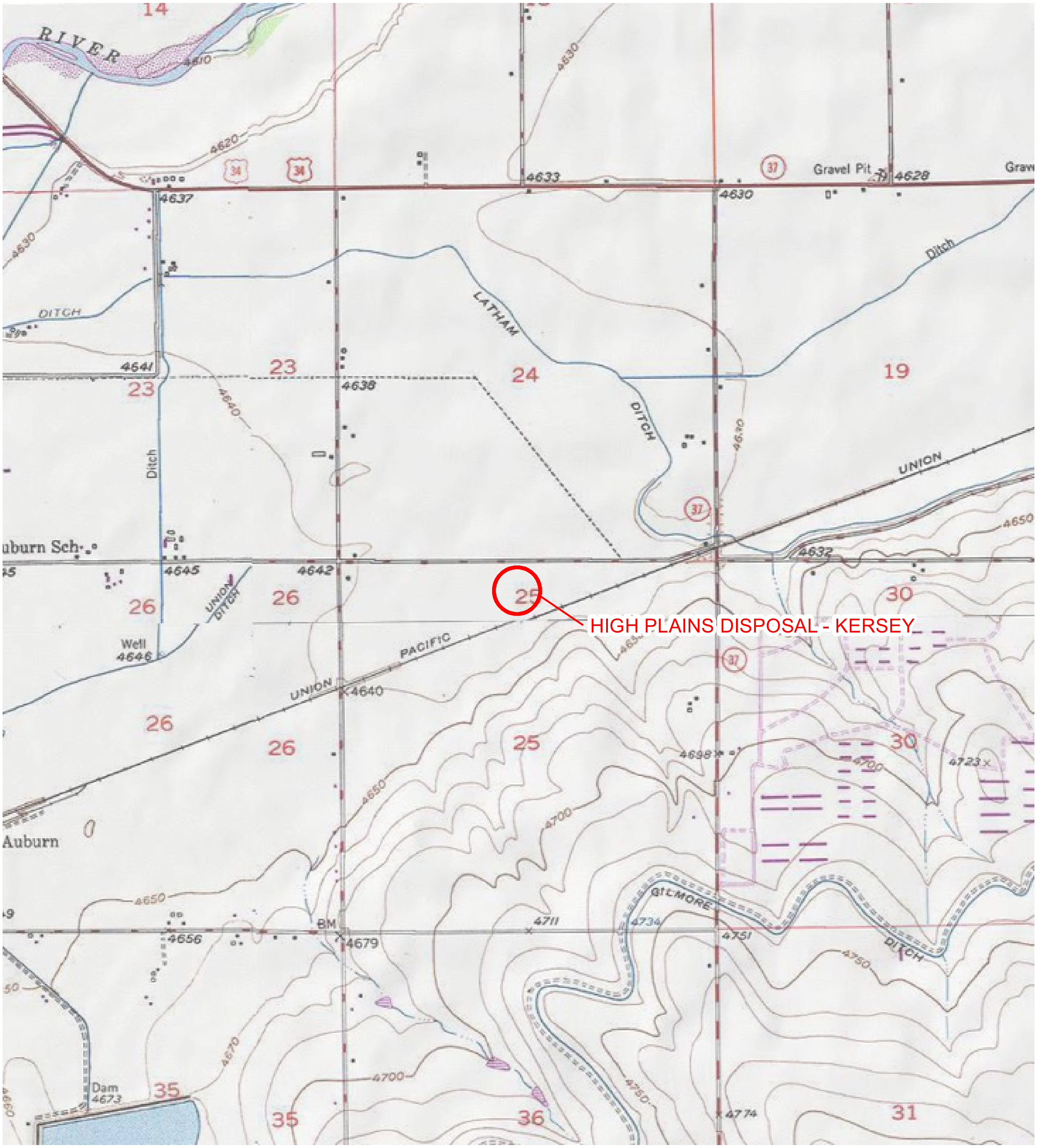


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

0 2,000 4,000

Feet

N

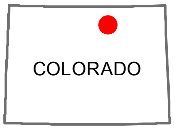
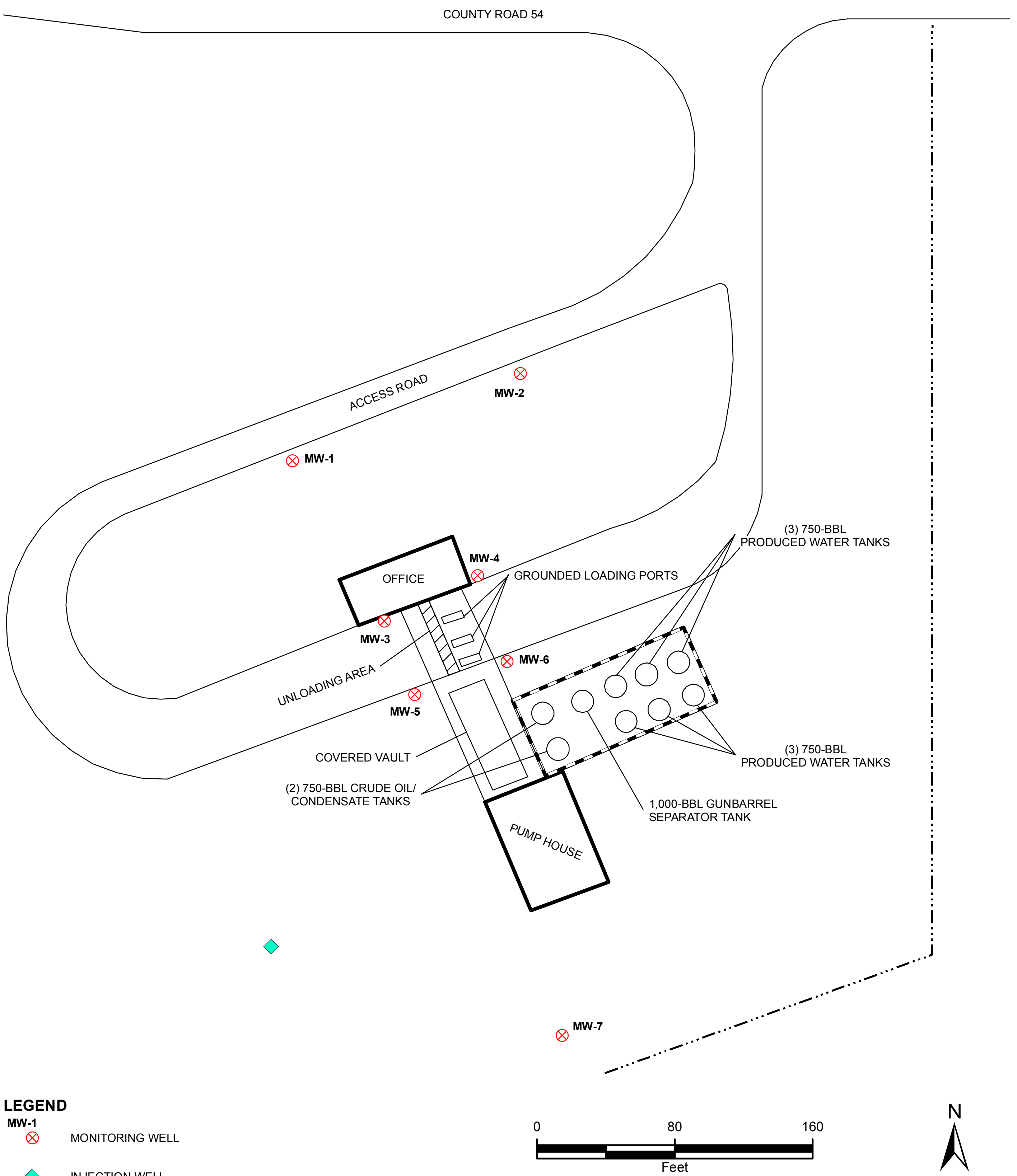


FIGURE 1
SITE LOCATION MAP
HIGH PLAINS DISPOSAL - KERSEY
WELD COUNTY, COLORADO

HIGH PLAINS DISPOSAL

LTE

P:\Complete Production Services CPX\GIS\MXD\020112007_PLATTEVILLE_KERSEY\020112007_KERSEY_1_SL.mxd



LEGEND

MW-1

⊗ MONITORING WELL

◆ INJECTION WELL

—··— PROPERTY BOUNDARY

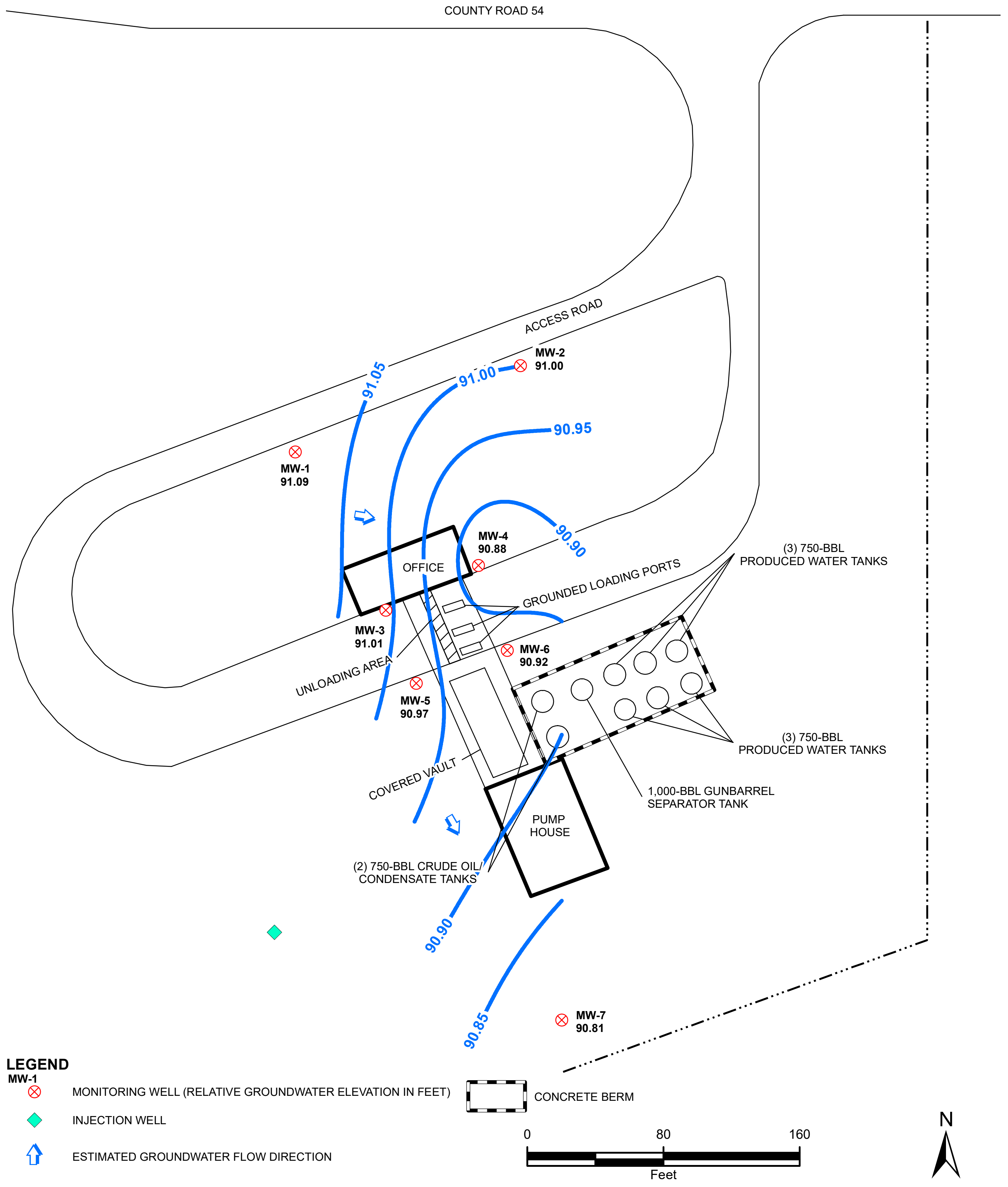
▭ CONCRETE BERM

BBL: BARRELS

FIGURE 2
SITE MAP
HIGH PLAINS DISPOSAL - KERSEY
WELD COUNTY, COLORADO

HIGH PLAINS DISPOSAL

P:\Complete Production Services CPX\GIS\MXD\020112007_PLATTEVILLE_KERSEY\020112007_KERSEY_1_SITE.mxd



LEGEND

MW-1
⊗ MONITORING WELL (RELATIVE GROUNDWATER ELEVATION IN FEET)

◆ INJECTION WELL

⇧ ESTIMATED GROUNDWATER FLOW DIRECTION

-··-·· PROPERTY BOUNDARY

— RELATIVE GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 0.05 FEET
GRADIENT = 0.0010 FEET/FOOT

BBL: BARRELS

▭ CONCRETE BERM

GROUNDWATER ELEVATIONS WERE MEASURED IN FEET BELOW TOP OF CASING ON JULY 29, 2019.

FIGURE 3
RELATIVE GROUNDWATER ELEVATION MAP
JULY 2019

HIGH PLAINS DISPOSAL - KERSEY
WELD COUNTY, COLORADO

HIGH PLAINS DISPOSAL

P:\Superior Energy Services\GIS\036219003_KERSEY_PLATTEVILLE_2019\MXD\036219003_KERSEY_1_GWELEV_JULY_2019.mxd

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date Measured	TOC (feet)	DTW (feet)	Groundwater Elevation (feet)
MW-1	11/24/2009	96.1	3.87	92.23
	3/4/2010	96.1	7.9	88.20
	4/30/2010	96.1	7.53	88.57
	7/26/2010	96.1	3.96	92.14
	10/13/2010	96.1	1.99	94.11
	1/14/2011	96.1	5.67	90.43
	4/21/2011	96.1	7.32	88.78
	7/21/2011	96.1	3.36	92.74
	10/31/2011	96.1	2.88	93.22
	1/13/2012	96.1	5.49	90.61
	4/27/2012	96.1	7.75	88.35
	7/26/2012	96.1	5.4	90.70
	8/15/2012	96.1	4.61	91.49
	10/18/2012	96.1	5.15	90.95
	1/29/2013	96.1	7.21	88.89
	7/29/2013	96.1	6.65	89.45
	1/31/2014	96.1	6.44	89.66
	7/17/2014	96.1	4.95	91.15
	1/27/2015	96.1	6.3	89.80
	7/21/2015	96.1	3.98	92.12
	1/26/2016	96.1	5.66	90.44
	7/26/2016	96.1	4.24	91.86
	1/30/2017	96.1	6.75	89.35
	7/24/2017	96.1	4.24	91.86
	1/29/2018	96.1	6.3	89.80
	7/24/2018	96.1	4.95	91.15
	1/30/2019	96.1	6.73	89.37
	7/29/2019	96.1	5.01	91.09
MW-2	11/24/2009	96.4	4.45	91.95
	3/4/2010	96.4	7.42	88.98
	4/30/2010	96.4	8.05	88.35
	7/26/2010	96.4	4.32	92.08
	10/13/2010	96.4	2.54	93.86
	1/14/2011	96.4	6.19	90.21
	4/21/2011	96.4	7.76	88.64
	7/21/2011	96.4	3.79	92.61
	10/31/2011	96.4	3.45	92.95
	1/13/2012	96.4	5.99	90.41
	4/27/2012	96.4	7.57	88.83
	7/26/2012	96.4	5.7	90.70
	8/15/2012	96.4	4.95	91.45
	10/18/2012	96.4	5.32	91.08
	1/29/2013	96.4	7.73	88.67
	7/29/2013	96.4	6.92	89.48
	1/31/2014	96.4	6.93	89.47
	7/17/2014	96.4	5.36	91.04
	1/27/2015	96.4	6.85	89.55
	7/21/2015	96.4	4.43	91.97
	1/26/2016	96.4	6.18	90.22

TABLE 1
GROUNDWATER ELEVATIONS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date Measured	TOC (feet)	DTW (feet)	Groundwater Elevation (feet)
MW-2	7/26/2016	96.4	4.6	91.80
	1/30/2017	96.4	7.31	89.09
	7/24/2017	96.4	4.49	91.91
	1/29/2018	96.4	6.86	89.54
	7/24/2018	96.4	5.24	91.16
	1/30/2019	96.4	4.27	92.13
	7/29/2019	96.4	5.4	91.00
MW-3	11/24/2009	99.0	6.41	92.59
	3/4/2010	99.0	9.67	89.33
	4/30/2010	99.0	10.3	88.70
	7/26/2010	99.0	6.94	92.06
	10/13/2010	99.0	4.89	94.11
	1/14/2011	99.0	8.47	90.53
	4/21/2011	99.0	10.14	88.86
	7/21/2011	99.0	6.32	92.68
	10/31/2011	99.0	5.68	93.32
	1/13/2012	99.0	8.28	90.72
	4/27/2012	99.0	10.59	88.41
	7/26/2012	99.0	8.38	90.62
	8/15/2012	99.0	7.61	91.39
	9/11/2012	99.0	7.6	91.40
	10/18/2012	99.0	7.78	91.22
	11/14/2012	99.0	8.07	90.93
	12/5/2012	99.0	8.54	90.46
	1/29/2013	99.0	10	89.00
	7/29/2013	99.0	9.64	89.36
	1/31/2014	99.0	9.21	89.79
	7/17/2014	99.0	7.81	91.19
	1/27/2015	99.0	9.08	89.92
	7/21/2015	99.0	6.96	92.04
	1/26/2016	99.0	8.41	90.59
	7/26/2016	99.0	7.14	91.86
	1/30/2017	99.0	9.54	89.46
	7/24/2017	99.0	7.2	91.80
	1/29/2018	99.0	9.1	89.90
	7/24/2018	99.0	7.78	91.22
	1/30/2019	99.0	9.51	89.49
	7/29/2019	99.0	7.99	91.01
MW-4	11/24/2009	98.7	6.3	92.40
	3/4/2010	98.7	9.54	89.16
	4/30/2010	98.7	10.2	88.50
	7/26/2010	98.7	6.77	91.93
	10/13/2010	98.7	4.78	93.92
	1/14/2011	98.7	8.37	90.33
	4/21/2011	98.7	10	88.70
	7/21/2011	98.7	6.14	92.56
	10/31/2011	98.7	5.59	93.11
	1/13/2012	98.7	8.18	90.52
	4/27/2012	98.7	10.43	88.27

TABLE 1
GROUNDWATER ELEVATIONS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date Measured	TOC (feet)	DTW (feet)	Groundwater Elevation (feet)
MW-4	7/26/2012	98.7	8.16	90.54
	8/15/2012	98.7	7.42	91.28
	9/11/2012	98.7	7.39	91.31
	10/18/2012	98.7	7.68	91.02
	11/14/2012	98.7	8.04	90.66
	12/5/2012	98.7	8.42	90.28
	1/29/2013	98.7	9.9	88.80
	7/29/2013	98.7	9.4	89.30
	1/31/2014	98.7	9.12	89.58
	7/17/2014	98.7	7.66	91.04
	1/27/2015	98.7	8.97	89.73
	7/21/2015	98.7	6.83	91.87
	1/26/2016	98.7	8.33	90.37
	7/26/2016	98.7	6.97	91.73
	1/30/2017	98.7	9.44	89.26
	7/24/2017	98.7	6.98	91.72
	1/29/2018	98.7	8.98	89.72
	7/24/2018	98.7	8.1	90.60
	1/30/2019	98.7	9.41	89.29
	7/29/2019	98.7	7.82	90.88
MW-5	11/24/2009	99.0	6.5	92.50
	3/4/2010	99.0	9.6	89.40
	4/30/2010	99.0	10.24	88.76
	7/26/2010	99.0	7.01	91.99
	10/13/2010	99.0	4.87	94.13
	1/14/2011	99.0	8.42	90.58
	4/21/2011	99.0	10.11	88.89
	7/21/2011	99.0	6.33	92.67
	10/31/2011	99.0	5.64	93.36
	1/13/2012	99.0	8.24	90.76
	4/27/2012	99.0	10.58	88.42
	7/26/2012	99.0	8.45	90.55
	8/15/2012	99.0	7.7	91.30
	9/11/2012	99.0	7.68	91.32
	10/18/2012	99.0	7.76	91.24
	11/14/2012	99.0	8.02	90.98
	12/5/2012	99.0	8.52	90.48
	1/29/2013	99.0	9.97	89.03
	7/29/2013	99.0	9.71	89.29
	10/30/2013	99.0	6.89	92.11
	1/31/2014	99.0	9.18	89.82
	4/18/2014	99.0	11.02	87.98
	7/17/2014	99.0	7.82	91.18
	10/23/2014	99.0	5.71	93.29
	1/27/2015	99.0	9.04	89.96
	4/13/2015	99.0	11.06	87.94
	7/21/2015	99.0	7.01	91.99
	10/20/2015	99.0	5.7	93.30
	1/26/2016	99.0	8.41	90.59

TABLE 1
GROUNDWATER ELEVATIONS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date Measured	TOC (feet)	DTW (feet)	Groundwater Elevation (feet)
MW-5	4/26/2016	99.0	10.07	88.93
	7/26/2016	99.0	7.16	91.84
	10/31/2016	99.0	6.87	92.13
	1/30/2017	99.0	9.5	89.50
	4/27/2017	99.0	11.21	87.79
	7/24/2017	99.0	7.22	91.78
	10/27/2017	99.0	5.48	93.52
	1/29/2018	99.0	9.09	89.91
	4/12/2018	99.0	11	88.00
	7/24/2018	99.0	8	91.00
	10/29/2018	99.0	6.1	92.90
	1/30/2019	99.0	9.46	89.54
	4/29/2019	99.0	11.3	87.70
	7/29/2019	99.0	8.03	90.97
MW-6	11/24/2009	98.8	6.49	92.31
	3/4/2010	98.8	9.53	89.27
	4/30/2010	98.8	10.17	88.63
	7/26/2010	98.8	6.86	91.94
	10/13/2010	98.8	4.8	94.00
	1/14/2011	98.8	8.34	90.46
	4/21/2011	98.8	10.01	88.79
	7/21/2011	98.8	6.21	92.59
	10/31/2011	98.8	5.58	93.22
	1/13/2012	98.8	8.17	90.63
	4/27/2012	98.8	10.44	88.36
	7/26/2012	98.8	8.25	90.55
	8/15/2012	98.8	7.52	91.28
	9/11/2012	98.8	7.51	91.29
	10/18/2012	98.8	7.61	91.19
	11/14/2012	98.8	7.97	90.83
	12/5/2012	98.8	8.44	90.36
	1/29/2013	98.8	9.89	88.91
	7/29/2013	98.8	9.52	89.28
	10/30/2013	98.8	6.8	92.00
	1/31/2014	98.8	9.08	89.72
	4/18/2014	98.8	10.94	87.86
	7/17/2014	98.8	7.7	91.10
	10/23/2014	98.8	5.61	93.19
	1/27/2015	98.8	8.95	89.85
	4/13/2015	98.8	10.98	87.82
	7/21/2015	98.8	6.89	91.91
	10/20/2015	98.8	5.59	93.21
	1/26/2016	98.8	8.28	90.52
	4/26/2016	98.8	9.98	88.82
	7/26/2016	98.8	7	91.80
	10/31/2016	98.8	6.72	92.08
	1/30/2017	98.8	9.42	89.38
	4/27/2017	98.8	11.12	87.68
	7/24/2017	98.8	7.03	91.77

TABLE 1
GROUNDWATER ELEVATIONS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date Measured	TOC (feet)	DTW (feet)	Groundwater Elevation (feet)
MW-6	10/27/2017	98.8	5.38	93.42
	1/29/2018	98.8	9	89.80
	4/12/2018	98.8	10.97	87.83
	7/24/2018	98.8	7.92	90.88
	10/29/2018	98.8	6	92.80
	1/30/2019	98.8	9.38	89.42
	4/29/2019	98.8	11.24	87.56
	7/29/2019	98.8	7.88	90.92
MW-7	11/24/2009	95.2	2.46	92.74
	3/4/2010	95.2	5.57	89.63
	4/30/2010	95.2	6.19	89.01
	7/26/2010	95.2	3.5	91.70
	10/13/2010	95.2	0.95	94.25
	1/14/2011	95.2	4.43	90.77
	4/21/2011	95.2	6.2	89.00
	7/21/2011	95.2	2.75	92.45
	10/31/2011	95.2	1.64	93.56
	1/13/2012	95.2	4.25	90.95
	4/27/2012	95.2	6.74	88.46
	7/26/2012	95.2	4.98	90.22
	8/15/2012	95.2	4.3	90.90
	10/18/2012	95.2	3.83	91.37
	1/29/2013	95.2	5.92	89.28
	7/29/2013	95.2	6.28	88.92
	1/31/2014	95.2	5.15	90.05
	7/17/2014	95.2	4.02	91.18
	1/27/2015	95.2	4.96	90.24
	7/21/2015	95.2	3.42	91.78
	7/26/2016	95.2	3.45	91.75
	1/30/2017	95.2	5.43	89.77
	7/24/2017	95.2	3.68	91.52
	1/29/2018	95.2	5.02	90.18
	7/24/2018	95.2	4.75	90.45
	1/30/2019	95.2	5.39	89.81
	7/29/2019	95.2	4.39	90.81

Notes:

DTW = Depth to water measured in feet below TOC.
TOC = Top of well casing elevation, surveyed relative to an arbitrary 100-foot benchmark.
Groundwater elevation relative to an arbitrary 100-foot benchmark.

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-1	11/24/2009	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	04/21/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	01/13/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	10/18/2012	6.90	15.20	1,443
	01/29/2013	NM	9.52	2,706
	07/29/2013	7.06	14.85	2,433
	01/31/2014	6.86	9.10	2,418
	07/17/2014	7.25	14.46	2,657
	01/27/2015	7.76	10.95	3,772
	07/21/2015	7.11	14.00	2,932
	01/27/2016	7.18	10.13	2,690
	07/26/2016	7.15	17.01	3,322
	01/30/2017	7.06	11.74	3,039
	07/24/2017	7.10	16.88	3,289
	01/29/2018	8.50	9.62	3,033
	07/24/2018	7.81	17.95	2,636
	01/30/2019	7.45	9.40	3,023
	07/29/2019	5.27	16.00	2,938
MW-2	11/25/2009	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	04/21/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	01/13/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	10/18/2012	7.09	15.98	1,345
	01/29/2013	NM	10.62	2,752
	07/29/2013	7.16	16.25	2,334
	01/31/2014	7.32	10.09	2,602
	07/17/2014	7.37	15.47	2,508

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-2	01/27/2015	7.74	12.55	3,817
	07/21/2015	7.11	12.15	2,671
	01/27/2016	7.03	10.21	2,780
	07/26/2016	7.14	14.80	3,020
	01/30/2017	7.01	11.44	3,152
	07/24/2017	7.13	18.37	1,618
	01/29/2018	8.77	10.86	3,322
	07/24/2018	7.74	17.18	2,692
	01/30/2019	7.43	10.57	3,114
	07/29/2019	5.45	15.32	3,028
MW-3	11/24/2009	NA	NA	NA
	01/27/2010	NA	NA	NA
	03/02/2010	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/09/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	05/06/2010	NA	NA	NA
	06/07/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	08/16/2010	NA	NA	NA
	09/17/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	11/16/2010	NA	NA	NA
	12/27/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	02/11/2011	NA	NA	NA
	03/23/2011	NA	NA	NA
	04/21/2011	NA	NA	NA
	05/16/2011	NA	NA	NA
	06/09/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	08/08/2011	NA	NA	NA
	09/12/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	11/15/2011	NA	NA	NA
	12/06/2011	NA	NA	NA
	01/13/2012	NA	NA	NA
	02/21/2012	NA	NA	NA
	03/20/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	05/24/2012	NA	NA	NA
	06/15/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	08/15/2012	NA	NA	NA

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-3	09/11/2012	NA	NA	NA
	10/18/2012	7.17	17.60	1,539
	11/14/2012	8.04	16.17	1,961
	12/05/2012	7.48	14.3	2,055
	01/29/2013	NM	10.38	2,832
	07/29/2013	7.11	13.32	2,577
	01/31/2014	7.38	9.60	2,529
	07/17/2014	7.35	15.51	2,511
	01/27/2015	7.44	10.49	3,760
	07/21/2015	7.14	13.92	2,539
	01/27/2016	7.28	10.90	2,775
	07/26/2016	7.10	14.39	3,157
	01/30/2017	7.06	11.32	2,963
	07/24/2017	7.07	14.20	3,147
	01/29/2018	8.76	10.30	3,060
	07/24/2018	7.67	15.15	2,479
	01/30/2019	7.29	10.28	3,173
	07/29/2019	7.32	13.62	2,938
MW-4	11/24/2009	NA	NA	NA
	01/27/2010	NA	NA	NA
	03/02/2010	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/09/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	05/06/2010	NA	NA	NA
	06/07/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	08/16/2010	NA	NA	NA
	09/17/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	11/16/2010	NA	NA	NA
	12/27/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	02/11/2011	NA	NA	NA
	03/23/2011	NA	NA	NA
	04/21/2011	NA	NA	NA
	05/16/2011	NA	NA	NA
	06/09/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	08/08/2011	NA	NA	NA
	09/12/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	11/15/2011	NA	NA	NA
	12/06/2011	NA	NA	NA

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-4	01/13/2012	NA	NA	NA
	02/21/2012	NA	NA	NA
	03/20/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	05/24/2012	NA	NA	NA
	06/15/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	08/15/2012	NA	NA	NA
	09/11/2012	NA	NA	NA
	10/18/2012	7.38	16.69	1,537
	11/14/2012	7.66	16.22	1,952
	12/05/2012	7.35	14.9	2,110
	01/29/2013	NM	11.38	2,775
	07/29/2013	6.99	13.04	2,476
	01/31/2014	7.32	10.45	2,642
	07/17/2014	7.39	13.96	2,457
	01/27/2015	7.38	10.82	3,640
	07/21/2015	7.18	13.92	2,565
	01/27/2016	7.29	11.70	2,718
	07/26/2016	7.31	13.80	2,901
	01/30/2017	7.12	12.07	2,872
	07/24/2017	7.27	13.50	2,909
	01/29/2018	8.40	11.20	3,138
	07/24/2018	7.62	15.42	2,484
	01/30/2019	7.31	10.78	3,220
	07/29/2019	6.98	12.64	3,013
MW-5	11/24/2009	NA	NA	NA
	01/27/2010	NA	NA	NA
	03/02/2010	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/09/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	05/06/2010	NA	NA	NA
	06/07/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	08/16/2010	NA	NA	NA
	09/17/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	11/16/2010	NA	NA	NA
	12/27/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	02/11/2011	NA	NA	NA
	03/23/2011	NA	NA	NA
	04/21/2011	NA	NA	NA

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-5	05/16/2011	NA	NA	NA
	06/09/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	08/08/2011	NA	NA	NA
	09/12/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	11/15/2011	NA	NA	NA
	12/06/2011	NA	NA	NA
	01/13/2012	NA	NA	NA
	02/21/2012	NA	NA	NA
	03/20/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	05/24/2012	NA	NA	NA
	06/15/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	08/15/2012	NA	NA	NA
	09/11/2012	NA	NA	NA
	10/18/2012	7.29	17.66	1,615
	11/14/2012	7.49	16.42	1,992
	12/05/2012	7.26	14.9	2,123
	01/29/2013	NM	10.39	2,780
	04/17/2013	6.51	9.63	2,943
	07/29/2013	7.14	14.68	2,632
	10/30/2013	7.15	15.67	2,469
	01/31/2014	7.32	10.31	2,852
	04/18/2014	7.62	8.27	2,804
	07/17/2014	7.40	13.99	2,528
	10/23/2014	7.23	15.06	2,747
	01/27/2015	7.47	10.88	3,695
	04/13/2015	6.78	8.47	2,626
	07/21/2015	7.21	12.74	2,536
	10/20/2015	7.50	15.16	2,913
	01/27/2016	7.20	9.31	2,658
	04/26/2016	6.68	8.33	2,991
	07/26/2016	7.21	15.29	2,939
	10/31/2016	7.39	16.20	3,364
	01/30/2017	7.09	11.29	2,960
	04/27/2017	7.26	8.95	3,146
	07/24/2017	7.17	14.65	2,950
	10/27/2017	7.68	14.81	3,317
	01/29/2018	8.30	9.78	3,243
	04/12/2018	7.34	8.41	3,337
	07/24/2018	7.64	15.96	2,648
	10/29/2018	7.26	16.21	3,061

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-5	01/30/2019	7.70	10.27	3,190
	04/29/2019	7.19	7.41	3,240
	07/29/2019	7.33	13.55	2,935
MW-6	11/24/2009	NA	NA	NA
	01/27/2010	NA	NA	NA
	03/02/2010	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/09/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	05/06/2010	NA	NA	NA
	06/07/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	08/16/2010	NA	NA	NA
	09/17/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	11/16/2010	NA	NA	NA
	12/27/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	02/11/2011	NA	NA	NA
	03/23/2011	NA	NA	NA
	04/21/2011	NA	NA	NA
	05/16/2011	NA	NA	NA
	06/09/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	08/08/2011	NA	NA	NA
	09/12/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	11/15/2011	NA	NA	NA
	12/06/2011	NA	NA	NA
	01/13/2012	NA	NA	NA
	02/21/2012	NA	NA	NA
	03/20/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	05/24/2012	NA	NA	NA
	06/15/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	08/15/2012	NA	NA	NA
	09/11/2012	NA	NA	NA
	10/18/2012	7.35	17.65	1,626
	11/14/2012	7.48	17.51	2,008
	12/05/2012	7.26	15.7	2,202
	01/29/2013	NM	11.88	2,815
	04/17/2013	6.39	7.54	2,886
	07/29/2013	7.19	15.23	2,540

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-6	10/30/2013	7.46	15.97	2,438
	01/31/2014	7.35	11.50	2,849
	04/18/2014	7.55	11.68	2,870
	07/17/2014	7.34	16.36	2,773
	10/23/2014	7.41	17.65	2,733
	01/27/2015	8.19	11.26	3,817
	04/13/2015	6.78	10.77	2,530
	07/21/2015	7.20	14.40	2,342
	10/20/2015	7.29	14.91	2,910
	01/27/2016	7.24	11.78	2,692
	04/26/2016	7.45	9.80	3,059
	07/26/2016	7.16	13.40	3,068
	10/31/2016	7.38	15.38	3,283
	01/30/2017	7.17	12.26	2,957
	04/27/2017	7.35	10.69	3,030
	07/24/2017	7.09	13.18	3,014
	10/27/2017	7.73	16.91	3,338
	01/29/2018	8.45	13.65	3,294
	04/12/2018	7.27	11.86	3,347
	07/24/2018	7.73	16.80	2,790
	10/29/2018	7.26	19.39	3,026
	01/30/2019	7.30	13.82	3,219
	04/29/2019	7.16	9.66	3,211
	07/29/2019	7.38	14.99	2,999
MW-7	11/25/2009	NA	NA	NA
	03/04/2010	NA	NA	NA
	04/30/2010	NA	NA	NA
	07/26/2010	NA	NA	NA
	10/13/2010	NA	NA	NA
	01/14/2011	NA	NA	NA
	04/21/2011	NA	NA	NA
	07/21/2011	NA	NA	NA
	10/31/2011	NA	NA	NA
	01/13/2012	NA	NA	NA
	04/27/2012	NA	NA	NA
	07/26/2012	NA	NA	NA
	10/18/2012	7.30	14.95	1,699
	01/29/2013	NM	8.45	2,951
	07/29/2013	7.10	13.54	2,710
	01/31/2014	7.30	8.18	2,655
	07/17/2014	7.35	13.77	2,596
	01/27/2015	6.74	8.85	3,792
	07/21/2015	6.92	12.15	3,160
	07/26/2016	6.60	13.50	3,424

TABLE 2
FIELD PARAMETERS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	pH (s.u)	Temperature (°C)	Specific Conductance (µS/cm)
MW-7	01/30/2017	6.85	8.60	2,912
	07/24/2017	6.60	13.92	3,475
	01/29/2018	8.91	8.34	3,403
	07/24/2018	8.12	13.95	2,630
	01/30/2019	7.36	7.92	3,361
	07/29/2019	7.44	13.12	3,216

Notes:

NA - not available
NM - not measured
s.u - standard units
°C - degrees celsius
µS/cm - microsiemens per centimeter

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-1	11/24/2009	<1.0	<1.0	<1.0	<1.0	2100	257	853
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1600	214	597
	04/30/2010	<1.0	<1.0	<1.0	<3.0	1620	233	634
	07/26/2010	<1.0	<1.0	<1.0	<3.0	1900	277	818
	10/13/2010	<1.0	<1.0	<1.0	<3.0	1980	274	703
	01/14/2011	<0.5	<0.5	<0.5	<1.5	1930	356	898
	04/21/2011	<0.5	<0.5	<0.5	<1.5	1770	245	587
	07/21/2011	<0.5	<0.5	<0.5	<1.5	2090	288	940
	10/31/2011	<0.5	<0.5	<0.5	<1.5	2070	306	950
	01/13/2012	<0.5	<0.5	<0.5	<1.5	1920	262	886
	04/27/2012	<0.5	0.56	<0.5	<1.5	1960	248	687
	07/26/2012	<0.5	<0.5	<0.5	<1.5	1810	219	673
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1600	194	590
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1300	255	757
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1300	227	697
	01/31/2014	<1.0	<1.0	<1.0	<1.0	1800	227	684
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1500	241	947
	01/27/2015	<1.0	<1.0	<1.0	<1.0	1090	284	723
	07/21/2015	<1.0	<1.0	<1.0	<1.0	2140	646	1810
	01/27/2016	<1.0	<1.0	<1.0	<1.0	2280	298	733
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2530	308	845
	01/30/2017	<1.0	<1.0	<1.0	<1.0	1830	340	1050
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1740	225	617
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2320	382	993
	07/24/2018	<1.0	<1.0	<1.0	<2.0	1660	373	900
	01/30/2019	<1.0	<1.0	<1.0	<2.0	1480	1280	3410
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1440	274	670
MW-2	11/25/2009	<1.0	<1.0	<1.0	<1.0	2310	403	1185
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1610	251	723
	04/30/2010	<1.0	<1.0	<1.0	<3.0	1550	253	670
	07/26/2010	<1.0	<1.0	<1.0	<3.0	1790	256	774
	10/13/2010	<1.0	<1.0	<1.0	<3.0	2050	287	747
	01/14/2011	<0.5	<0.5	<0.5	<1.5	1930	351	1130
	04/21/2011	<0.5	<0.5	<0.5	<1.5	1780	253	674
	07/21/2011	<0.5	<0.5	<0.5	<1.5	1940	1	809
	10/31/2011	<0.5	<0.5	<0.5	<1.5	1760	238	696
	01/13/2012	<0.5	<0.5	<0.5	<1.5	1940	273	870
	04/27/2012	<0.5	<0.5	<0.5	<1.5	1960	248	719
	07/26/2012	<0.5	<0.5	<0.5	<1.5	1960	236	718
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1500	171	545
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1300	260	766
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1200	209	630
	01/31/2014	<1.0	<1.0	<1.0	<1.0	1800	219	579
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1400	244	736

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-2	01/27/2015	<1.0	<1.0	<1.0	<1.0	1170	314	746
	07/21/2015	<1.0	<1.0	<1.0	<1.0	1900	309	781
	01/27/2016	<1.0	<1.0	<1.0	<1.0	2250	330	801
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2330	292	743
	01/30/2017	<1.0	<1.0	<1.0	<1.0	1890	379	1200
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1780	228	593
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2560	402	1090
	07/24/2018	<1.0	<1.0	<1.0	<2.0	1720	406	967
	01/30/2019	<1.0	<1.0	<1.0	<2.0	1500	1220	3230
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1450	299	692
MW-3	11/24/2009	<1.0	<1.0	<1.0	<1.0	1970	257	760
	01/27/2010	<1.0	<1.0	<1.0	<1.0	1810	190	551
	03/02/2010	<1.0	<2.0	<2.0	<4.0	NA	239	663
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1670	210	589
	04/09/2010	<1.0	<1.0	<1.0	<1.0	NA	232	NA
	04/30/2010	<1.0	<1.0	<1.0	<3.0	3850	240	619
	05/06/2010	<1.0	<1.0	<1.0	<1.0	NA	259	724
	06/07/2010	<1.0	<1.0	<1.0	<1.0	NA	218	598
	07/26/2010	<1.0	<1.0	<1.0	<3.0	1740	265	787
	08/16/2010	<0.5	<0.5	<0.5	<1.5	NA	NA	870
	09/17/2010	<0.5	<0.5	<0.5	<1.5	NA	NA	812
	10/13/2010	<1.0	<1.0	<1.0	<3.0	1870	266	674
	11/16/2010	<0.5	<0.5	<0.5	<1.5	1880	278	813
	12/27/2010	<0.5	<0.5	<0.5	<1.5	1880	269	812
	01/14/2011	<0.5	<0.5	<0.5	<1.5	1870	359	1030
	02/11/2011	<0.5	<0.5	<0.5	<1.5	1940	300	860
	03/23/2011	<0.5	<0.5	<0.5	<1.5	1910	252	715
	04/21/2011	<0.5	<0.5	<0.5	<1.5	1790	246	595
	05/16/2011	<0.5	<0.5	<0.5	<1.5	1810	269	714
	06/09/2011	<0.5	<0.5	<0.5	<1.5	1820	243	640
	07/21/2011	<0.5	<0.5	<0.5	<1.5	1910	280	858
	08/08/2011	<0.5	<0.5	<0.5	<1.5	2020	269	712
	09/12/2011	<0.5	<0.5	<0.5	<1.5	1840	261	725
	10/31/2011	<0.5	<0.5	<0.5	<1.5	1760	254	759
	11/15/2011	<0.5	<0.5	<0.5	<1.5	1780	263	742
	12/06/2011	<0.5	<0.5	<0.5	<1.5	1820	260	695
	01/13/2012	<0.5	<0.5	<0.5	<1.5	1990	272	911
	02/21/2012	<0.5	<0.5	<0.5	<1.5	1780	259	749
	03/20/2012	<0.5	<0.5	<0.5	<1.5	1950	285	849
	04/27/2012	<0.5	<0.5	<0.5	<1.5	1980	282	766
	05/24/2012	<0.5	<0.5	<0.5	<1.5	992	271	765
	06/15/2012	<0.5	<0.5	<0.5	<1.5	1750	278	792
	07/26/2012	<0.5	<0.5	<0.5	<1.5	1870	240	715
	08/15/2012	<1.0	<1.0	<1.0	<1.0	1800	222	648

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-3	09/11/2012	<1.0	<1.0	<1.0	<1.0	1600	188	581
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1700	213	638
	11/14/2012	<1.0	<1.0	<1.0	<1.0	1800	231	676
	12/05/2012	<1.0	<1.0	<1.0	<1.0	1300	262	749
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1400	260	768
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1400	244	711
	01/31/2014	<1.0	<1.0	<1.0	<1.0	1800	169	590
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1400	279	745
	01/27/2015	<1.0	<1.0	<1.0	<1.0	11.8	719	338
	07/21/2015	<1.0	<1.0	<1.0	<1.0	1800	317	829
	01/27/2016	<1.0	<1.0	<1.0	<1.0	2310	335	734
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2410	298	758
	01/30/2017	<1.0	<1.0	<1.0	<1.0	1800	286	1090
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1800	235	592
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2270	435	1210
	07/24/2018	<1.0	<1.0	<1.0	<2.0	1690	382	902
	01/30/2019	<1.0	<1.0	<1.0	<2.0	1570	1230	3180
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1440	248	620
MW-4	11/24/2009	<1.0	<1.0	<1.0	<1.0	1980	242	738
	01/27/2010	<1.0	<1.0	<1.0	<1.0	1870	208	606
	03/02/2010	<1.0	<2.0	<2.0	<4.0	NA	235	649
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1610	207	575
	04/09/2010	<1.0	<1.0	<1.0	<1.0	NA	227	NA
	04/30/2010	<1.0	<1.0	<1.0	<3.0	1140	224	591
	05/06/2010	<1.0	<1.0	<1.0	<1.0	NA	252	691
	06/07/2010	<1.0	<1.0	<1.0	<1.0	NA	219	598
	07/26/2010	<1.0	<1.0	<1.0	<3.0	1750	247	728
	08/16/2010	<1.0	<1.0	<1.0	<3.0	NA	NA	846
	09/17/2010	<1.0	<1.0	<1.0	<3.0	NA	NA	859
	10/13/2010	<1.0	<1.0	<1.0	<3.0	1880	265	677
	11/16/2010	<0.5	<0.5	<0.5	<1.5	1820	285	832
	12/27/2010	<0.5	<0.5	<0.5	<1.5	1820	259	775
	01/14/2011	<0.5	<0.5	<0.5	<1.5	1840	247	912
	02/11/2011	<0.5	<0.5	<0.5	<1.5	1870	263	751
	03/23/2011	<0.5	<0.5	<0.5	<1.5	1820	253	720
	04/21/2011	<0.5	<0.5	<0.5	<1.5	1810	241	656
	05/16/2011	<0.5	<0.5	<0.5	<1.5	1810	256	687
	06/09/2011	<0.5	<0.5	<0.5	<1.5	1860	238	647
	07/21/2011	<0.5	<0.5	<0.5	<1.5	1980	261	776
	08/08/2011	<0.5	<0.5	<0.5	<1.5	1950	261	672
	09/12/2011	<0.5	<0.5	<0.5	<1.5	1800	255	720
	10/31/2011	<0.5	<0.5	<0.5	<1.5	1560	213	637
	11/15/2011	<0.5	<0.5	<0.5	<1.5	1730	258	723
	12/06/2011	<0.5	<0.5	<0.5	<1.5	1840	253	774

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-4	01/13/2012	<0.5	<0.5	<0.5	<1.5	1880	261	1210
	02/21/2012	<0.5	<0.5	<0.5	<1.5	1830	256	726
	03/20/2012	<0.5	<0.5	<0.5	<1.5	1840	259	755
	04/27/2012	<0.5	<0.5	<0.5	<1.5	1860	272	743
	05/24/2012	<0.5	<0.5	<0.5	<1.5	1820	262	768
	06/15/2012	<0.5	<0.5	<0.5	<1.5	1840	265	749
	07/26/2012	<0.5	<0.5	<0.5	<1.5	1860	224	729
	08/15/2012	<1.0	<1.0	<1.0	<1.0	1800	222	654
	09/11/2012	<1.0	<1.0	<1.0	<1.0	1600	190	588
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1700	211	628
	11/14/2012	<1.0	<1.0	<1.0	<1.0	1900	232	682
	12/05/2012	<1.0	<1.0	<1.0	<1.0	1300	270	765
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1400	276	788
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1300	232	684
	01/31/2014	<1.0	<1.0	<1.0	<1.0	1800	187	458
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1400	243	740
	01/27/2015	<1.0	<1.0	<1.0	<1.0	1090	582	1440
	07/21/2015	<1.0	<1.0	<1.0	<1.0	1790	421	1090
	01/27/2016	<1.0	<1.0	<1.0	<1.0	2250	322	751
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2190	302	722
	01/30/2017	<1.0	<1.0	<1.0	<1.0	1770	352	1100
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1770	248	620
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2400	428	1180
	07/24/2018	1.7	1.5	<1.0	<2.0	1730	439	1020
	01/30/2019	<1.0	<1.0	<1.0	<2.0	1580	1300	3340
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1450	276	670
MW-5	11/24/2009	<1.0	<1.0	<1.0	<1.0	1990	261	792
	01/27/2010	<1.0	<1.0	<1.0	<1.0	1720	221	615
	03/02/2010	<1.0	<2.0	<2.0	<4.0	NA	238	669
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1610	211	581
	04/09/2010	<1.0	<1.0	<1.0	<1.0	NA	263	NA
	04/30/2010	<1.0	<1.0	<1.0	<3.0	2740	256	647
	05/06/2010	<1.0	<1.0	<1.0	<1.0	NA	316	858
	06/07/2010	<1.0	<1.0	<1.0	<1.0	NA	259	668
	07/26/2010	<1.0	<1.0	<1.0	<3.0	1820	253	717
	08/16/2010	<1.0	<1.0	<1.0	<3.0	NA	NA	832
	09/17/2010	<1.0	<1.0	<1.0	<3.0	NA	NA	754
	10/13/2010	<1.0	<1.0	<1.0	<3.0	2030	277	710
	11/16/2010	<0.5	<0.5	<0.5	<1.5	1940	290	884
	12/27/2010	<0.5	<0.5	<0.5	<1.5	1800	260	804
	01/14/2011	<0.5	<0.5	<0.5	<1.5	1920	357	945
	02/11/2011	<0.5	<0.5	<0.5	<1.5	1880	283	786
	03/23/2011	<0.5	0.71	<0.5	<1.5	1950	284	779
	04/21/2011	<0.5	<0.5	<0.5	<1.5	1910	255	627

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-5	05/16/2011	<0.5	<0.5	<0.5	<1.5	1820	273	701
	06/09/2011	<0.5	<0.5	<0.5	<1.5	1880	243	647
	07/21/2011	<0.5	<0.5	<0.5	<1.5	1950	279	773
	08/08/2011	<0.5	<0.5	<0.5	<1.5	1900	269	695
	09/12/2011	<0.5	<0.5	<0.5	<1.5	1840	266	730
	10/31/2011	<0.5	<0.5	<0.5	<1.5	1740	260	752
	11/15/2011	<0.5	<0.5	<0.5	<1.5	1740	262	755
	12/06/2011	<0.5	<0.5	<0.5	<1.5	1940	270	801
	01/13/2012	<0.5	<0.5	<0.5	<1.5	1880	313	956
	02/21/2012	<0.5	<0.5	<0.5	<1.5	1880	265	745
	03/20/2012	<0.5	<0.5	<0.5	<1.5	2010	274	786
	04/27/2012	<0.5	<0.5	<0.5	<1.5	2020	293	836
	05/24/2012	<0.5	<0.5	<0.5	<1.5	1670	267	774
	06/15/2012	<0.5	<0.5	<0.5	<1.5	1940	276	788
	07/26/2012	<0.5	<0.5	<0.5	<1.5	1790	233	726
	08/15/2012	<1.0	<1.0	<1.0	<1.0	1900	236	686
	09/11/2012	<1.0	<1.0	<1.0	<1.0	1700	207	621
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1800	227	671
	11/14/2012	<1.0	<1.0	<1.0	<1.0	1800	233	677
	12/05/2012	<1.0	<1.0	<1.0	<1.0	1300	267	760
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1300	265	788
	04/17/2013	<1.0	<1.0	<1.0	<1.0	1400	277	772
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1500	256	726
	10/30/2013	<1.0	<1.0	<1.0	<1.0	1300	227	704
	01/31/2014	<1.0	<1.0	<1.0	<1.0	1800	219	595
	04/18/2014	<1.0	<1.0	<1.0	<1.0	2000	254	691
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1400	267	745
	10/23/2014	<1.0	<1.0	<1.0	<1.0	2280	279	673
	01/27/2015	<1.0	<1.0	<1.0	<1.0	1260	589	349
	04/13/2015	<1.0	<1.0	<1.0	<1.0	1890	259	498
	07/21/2015	<1.0	<1.0	<1.0	<1.0	1780	315	796
	10/20/2015	<1.0	<1.0	<1.0	<1.0	1080	303.15	761.79
	01/27/2016	<1.0	<1.0	<1.0	<1.0	2110	313	722
	04/26/2016	<1.0	<1.0	<1.0	<1.0	2290	371	725
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2250	270	650
	10/31/2016	<1.0	<1.0	<1.0	<1.0	1800	382	1050
	01/30/2017	<1.0	<1.0	<1.0	<1.0	1760	362	1070
	04/27/2017	<1.0	<1.0	<1.0	<2.0	2410	423	933
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1780	207	498
	10/27/2017	<1.0	<1.0	<1.0	<2.0	2510	283	830
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2460	454	1270
	04/12/2018	<1.0	<1.0	<1.0	<2.0	2570	362	1100
	07/24/2018	1.2	<1.0	<1.0	<2.0	1780	505	1160
	10/29/2018	<1.0	<1.0	<1.0	<2.0	1720	316	683

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-5	01/30/2019	1.9	2.1	<1.0	<2.0	1580	1130	2910
	04/29/2019	<1.0	<1.0	<1.0	<2.0	1580	227	488
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1400	<6.00	319
MW-6	11/24/2009	<1.0	<1.0	<1.0	<1.0	2290	304	986
	01/27/2010	<1.0	<1.0	<1.0	<1.0	1840	216	631
	03/02/2010	<1.0	<2.0	<2.0	<4.0	NA	262	738
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1780	223	624
	04/09/2010	<1.0	<1.0	<1.0	<1.0	NA	268	NA
	04/30/2010	<1.0	<1.0	<1.0	<3.0	2820	258	678
	05/06/2010	<1.0	<1.0	<1.0	<1.0	NA	265	722
	06/07/2010	<1.0	<1.0	<1.0	<1.0	NA	293	790
	07/26/2010	<1.0	<1.0	<1.0	<3.0	1770	266	698
	08/16/2010	<1.0	<1.0	<1.0	<3.0	NA	NA	863
	09/17/2010	<1.0	<1.0	<1.0	<3.0	NA	NA	845
	10/13/2010	<1.0	<1.0	<1.0	<3.0	1960	256	684
	11/16/2010	<0.5	1	<0.5	1	1900	327	975
	12/27/2010	1	<0.5	<0.5	<1.5	1880	5.3	16.3
	01/14/2011	2	<0.5	<0.5	<1.5	2000	361	974
	02/11/2011	3.5	<0.5	<0.5	<1.5	1920	293	929
	03/23/2011	<0.5	1	<0.5	1.6	1930	289	781
	04/21/2011	<0.5	0.58	<0.5	7.9	1940	257	680
	05/16/2011	<0.5	<0.5	<0.5	<1.5	1820	265	687
	06/09/2011	<0.5	<0.5	<0.5	<1.5	1910	255	691
	07/21/2011	<0.5	<0.5	<0.5	<1.5	2170	298	838
	08/08/2011	<0.5	<0.5	<0.5	<1.5	2010	273	771
	09/12/2011	<0.5	<0.5	<0.5	<1.5	1920	283	809
	10/31/2011	<0.5	<0.5	<0.5	<1.5	1850	262	752
	11/15/2011	<0.5	<0.5	<0.5	<1.5	1770	271	769
	12/06/2011	<0.5	<0.5	<0.5	<1.5	1950	287	2310
	01/13/2012	1.2	<0.5	<0.5	<1.5	2030	336	1050
	02/21/2012	<0.5	<0.5	<0.5	<1.5	1950	276	780
	03/20/2012	<0.5	<0.5	<0.5	<1.5	2050	290	840
	04/27/2012	<0.5	<0.5	<0.5	<1.5	2020	263	733
	05/24/2012	<0.5	<0.5	<0.5	<1.5	1830	283	792
	06/15/2012	<0.5	<0.5	<0.5	<1.5	1920	291	845
	07/26/2012	<0.5	<0.5	<0.5	<1.5	1920	232	719
	08/15/2012	<1.0	<1.0	<1.0	<1.0	1900	239	700
	09/11/2012	<1.0	<1.0	<1.0	<1.0	1700	205	621
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1800	225	669
	11/14/2012	<1.0	<1.0	<1.0	<1.0	1900	234	696
	12/05/2012	<1.0	<1.0	<1.0	<1.0	1300	272	789
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1400	272	807
	04/17/2013	<1.0	<1.0	<1.0	<1.0	1400	277	777
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1400	240	693

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-6	10/30/2013	<1.0	<1.0	<1.0	<1.0	1200	223	693
	01/31/2014	<1.0	<1.0	<1.0	<1.0	1900	229	617
	04/18/2014	<1.0	<1.0	<1.0	<1.0	2000	253	707
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1500	288	770
	10/23/2014	<1.0	<1.0	<1.0	<1.0	6160	283	725
	01/27/2015	<1.0	<1.0	<1.0	<1.0	1200	728	356
	04/13/2015	<1.0	1.7	<1.0	<1.0	1850	252	484
	07/21/2015	<1.0	<1.0	<1.0	<1.0	1800	274	599
	10/20/2015	<1.0	<1.0	<1.0	<1.0	1130	324.57	818.39
	01/27/2016	3.9	2.2	<1.0	<1.0	2250	312	718
	04/26/2016	<1.0	<1.0	<1.0	<1.0	2200	371	751
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2340	264	550
	10/31/2016	<1.0	<1.0	<1.0	<1.0	1700	60.1	204
	01/30/2017	1.8	1.8	<1.0	<1.0	1780	387	1110
	04/27/2017	<1.0	<1.0	<1.0	<2.0	2350	358	812
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1800	236	564
	10/27/2017	1.9	1.2	<1.0	<2.0	2510	69.0	167
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2510	526	1470
	04/12/2018	<1.0	<1.0	<1.0	<2.0	2540	390	1130
	07/24/2018	**15**	14	<1.0	2.8	1840	451	1070
	10/29/2018	<1.0	<1.0	<1.0	<2.0	1720	269	602
	01/30/2019	1.0	<1.0	<1.0	<2.0	1560	989	2520
	04/29/2019	<1.0	<1.0	<1.0	<2.0	1570	233	570
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1540	258	647
MW-7	11/25/2009	<1.0	<1.0	<1.0	<1.0	2360	358	950
	03/04/2010	<1.0	<1.0	<1.0	<3.0	1740	262	673
	04/30/2010	<1.0	<1.0	<1.0	<3.0	5820	286	683
	07/26/2010	<1.0	<1.0	<1.0	<3.0	2090	311	832
	10/13/2010	<1.0	<1.0	<1.0	<3.0	1940	285	678
	01/14/2011	<0.5	<0.5	<0.5	<1.5	1860	378	940
	04/21/2011	<0.5	<0.5	<0.5	<1.5	1820	239	562
	07/21/2011	<0.5	<0.5	<0.5	<1.5	2040	311	787
	10/31/2011	<0.5	<0.5	<0.5	<1.5	1820	271	732
	01/13/2012	<0.5	<0.5	<0.5	<1.5	1980	366	529
	04/27/2012	<0.5	<0.5	<0.5	<1.5	2070	306	790
	07/26/2012	<0.5	<0.5	<0.5	<1.5	2120	314	899
	10/18/2012	<1.0	<1.0	<1.0	<1.0	1900	256	721
	01/29/2013	<1.0	<1.0	<1.0	<1.0	1400	298	833
	07/29/2013	<1.0	<1.0	<1.0	<1.0	1500	279	718
	01/31/2014	<1.0	<1.0	<1.0	<1.0	2000	255	618
	07/17/2014	<1.0	<1.0	<1.0	<1.0	1400	273	769
	01/27/2015	<1.0	<1.0	<1.0	<1.0	1190	310	746
	07/21/2015	<1.0	<1.0	<1.0	<1.0	2270	359	894
	07/26/2016	<1.0	<1.0	<1.0	<1.0	2630	306	674

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
MW-7	01/30/2017	<1.0	<1.0	<1.0	<1.0	1730	318	988
	07/24/2017	<1.0	<1.0	<1.0	<2.0	1800	267	573
	01/29/2018	<1.0	<1.0	<1.0	<2.0	2610	576	1440
	07/24/2018	<1.0	<1.0	<1.0	<2.0	1850	400	851
	01/30/2019	<1.0	<1.0	<1.0	<2.0	1640	835	1900
	07/29/2019	<1.0	<1.0	<1.0	<2.0	1590	210	541
Table 910-1 GW Criteria		**5**	**560**	**700**	**1400**		**1.25 x Background**	

Notes:

< - less than

µg/L - micrograms per Liter

mg/L - milligrams per Liter

NA - Not Analyzed

Bold indicates result equaled or exceeded standard.

Table 910-1 GW Criteria - Colorado Oil and Gas Conservation Comission Regulation 908, Table 910-1 (May 30, 2011) for GW (groundwater).

TABLE 4
QUALITY CONTROL ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
Ambient Blank	03/23/2011	<0.5	0.57	<0.5	<1.5	NA	NA	NA
	04/21/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	05/16/2011	0.87	1.4	<0.5	<1.5	NA	NA	NA
	06/09/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	08/08/2011	0.6	1.1	<0.5	<1.5	NA	NA	NA
	09/12/2011	<0.5	<0.5	<0.5	<1.5	<5	<1	<1
	10/31/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	11/15/2011	1	1.6	<0.5	<1.5	NA	NA	NA
	12/06/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	01/13/2012	<0.5	0.56	<0.5	<1.5	NA	NA	NA
	02/21/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	03/20/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	04/27/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	05/24/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	06/15/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	07/26/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	08/15/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.00
	09/11/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/18/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	11/14/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	12/05/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/29/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/17/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/29/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/30/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/31/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/18/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/17/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/23/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/27/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/13/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/21/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/20/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/27/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/26/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/26/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/31/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/30/2017	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/27/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/24/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	10/27/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	01/29/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	04/12/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/24/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA

TABLE 4
QUALITY CONTROL ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
Ambient Blank	10/29/2018	1.4	3.2	<1.0	<2.0	NA	NA	NA
	01/30/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	04/29/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/29/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
Rinse Blank	02/11/2011	<0.5	0.66	<0.5	<1.5	NA	NA	NA
	03/23/2011	<0.5	0.81	<0.5	<1.5	NA	NA	NA
	04/21/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	05/16/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	06/09/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	08/08/2011	<0.5	0.94	<0.5	<1.5	NA	NA	NA
	09/12/2011	<0.5	<0.5	<0.5	<1.5	6	<1	<1
	10/31/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	11/15/2011	1	1.5	<0.5	<1.5	NA	NA	NA
	12/06/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	01/13/2012	<0.5	0.53	<0.5	<1.5	NA	NA	NA
	02/21/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	03/20/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	04/27/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	05/24/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	06/15/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	07/26/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	08/15/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	09/11/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	11/14/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	12/05/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/29/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/17/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/29/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/30/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/31/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/18/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/17/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/23/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/27/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/13/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/21/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/20/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/27/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/26/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/26/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/31/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/30/2017	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/27/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/24/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA

TABLE 4
QUALITY CONTROL ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
Rinse Blank	10/27/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	01/29/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	04/12/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/24/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	10/29/2018	1.5	3.3	<1.0	<2.0	NA	NA	NA
	01/30/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	04/29/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/29/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
Trip Blank	02/11/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	11/15/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	12/06/2011	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	01/13/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	02/21/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	03/20/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	04/27/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	05/24/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	06/15/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	07/26/2012	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	08/15/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	09/11/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/18/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	11/14/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	12/05/2012	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/29/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/17/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/29/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/30/2013	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/31/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/18/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/17/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/23/2014	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/27/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/13/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/21/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/20/2015	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/27/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/26/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	07/26/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	10/31/2016	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	01/30/2017	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	04/27/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	10/27/2017	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	04/12/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/24/2018	<1.0	<1.0	<1.0	<2.0	NA	NA	NA

TABLE 4
QUALITY CONTROL ANALYTICAL RESULTS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
Trip Blank	04/29/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	07/29/2019	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
Table 910-1 GW Criteria		**5**	**560**	**700**	**1400**	**1.25 x Background**		

Notes:
< - less than
µg/L - micrograms per Liter
mg/L - milligrams per Liter
NA - Not Analyzed
Table 910-1 GW Criteria - Colorado Oil and Gas Conservation Comission Regulation 908, Table 910-1 (May 30, 2011) for GW (groundwater).

TABLE 5
DESCRIPTIVE ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Number of Observations	Mean	Standard Deviation	Minimum	Maximum	Number of NDs	% NDs
Benzene (ug/l)	MW-1	27	0.435	0.112	0.25	0.5	27	100
	MW-2	27	0.435	0.112	0.25	0.5	27	100
	MW-3	52	0.389	0.125	0.25	0.5	52	100
	MW-4	52	0.422	0.219	0.25	1.7	51	98
	MW-5	65	0.452	0.237	0.25	1.9	63	97
	MW-6	65	0.839	1.900	0.25	15	56	86
	MW-7	26	0.433	0.113	0.25	0.5	26	100
Chloride (mg/L)	MW-1	27	323.44	209.85	194	1280	0	0
	MW-2	27	308.59	199.79	1	1220	0	0
	MW-3	50	292.38	156.55	169	1230	0	0
	MW-4	50	288.02	161.58	187	1300	0	0
	MW-5	63	295.48	131.60	3	1130	1	2
	MW-6	63	290.48	130.10	5.3	989	0	0
	MW-7	26	331.88	124.09	210	835	0	0
Ethylbenzene (ug/L)	MW-1	27	0.435	0.112	0.25	0.5	27	100
	MW-2	27	0.435	0.112	0.25	0.5	27	100
	MW-3	52	0.399	0.151	0.25	1	52	100
	MW-4	52	0.409	0.149	0.25	1	52	100
	MW-5	65	0.427	0.138	0.25	1	65	100
	MW-6	65	0.427	0.138	0.25	1	65	100
	MW-7	26	0.433	0.113	0.25	0.5	26	100
Sulfate (mg/L)	MW-1	27	913.04	553.52	587	3410	0	0
	MW-2	27	882.00	501.26	545	3230	0	0
	MW-3	51	788.69	369.16	338	3180	0	0
	MW-4	51	812.55	402.10	458	3340	0	0
	MW-5	64	782.11	315.39	319	2910	0	0
	MW-6	64	787.60	365.10	16.3	2520	0	0
	MW-7	26	820.04	288.03	529	1900	0	0
TDS (mg/L)	MW-1	27	1,806	337.31	1090	2530	0	0
	MW-2	27	1,790	344.36	1170	2560	0	0
	MW-3	46	1,795	474.86	11.8	3850	0	0
	MW-4	46	1,758	252.26	1090	2400	0	0
	MW-5	59	1,844	325.98	1080	2740	0	0
	MW-6	59	1,947	648.25	1130	6160	0	0
	MW-7	26	2,045	842.98	1190	5820	0	0
Toluene (ug/l)	MW-1	27	0.447	0.108	0.25	0.56	26	96
	MW-2	27	0.435	0.112	0.25	0.5	27	100
	MW-3	52	0.399	0.151	0.25	1	52	100
	MW-4	52	0.428	0.212	0.25	1.5	51	98
	MW-5	65	0.459	0.250	0.25	2.1	63	97
	MW-6	65	0.738	1.709	0.25	14	57	88

TABLE 5
DESCRIPTIVE ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Number of Observations	Mean	Standard Deviation	Minimum	Maximum	Number of NDs	% NDs
Toluene (ug/l)	MW-7	26	0.433	0.113	0.25	0.5	26	100
Total Xylenes (ug/L)	MW-1	27	0.806	0.349	0.5	1.5	27	100
	MW-2	27	0.806	0.349	0.5	1.5	27	100
	MW-3	52	0.764	0.322	0.5	2	52	100
	MW-4	52	0.793	0.353	0.5	2	52	100
	MW-5	65	0.773	0.336	0.5	2	65	100
	MW-6	65	0.928	0.978	0.5	7.9	61	94
	MW-7	26	0.817	0.350	0.5	1.5	26	100

Notes:

NDs - Non-detectable concentrations.
Number of Observations - Includes all historical samples collected from November 2009 to present.
% - percent

TABLE 6
OUTLIER ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Outlier	Outlier Value	Date	Number	Mean	Standard Deviation
Benzene (µg/L)	MW-1	Yes	0.25*	1/14/11	27	0.435	0.112
			0.25*	4/21/11			
			0.25*	7/24/11			
			0.25*	10/31/11			
			0.25*	1/13/12			
			0.25*	4/27/12			
			0.25*	7/26/12			
Benzene (µg/L)	MW-2	Yes	0.25*	1/14/11	27	0.435	0.112
			0.25*	4/21/11			
			0.25*	7/24/11			
			0.25*	10/31/11			
			0.25*	1/13/12			
			0.25*	4/27/12			
			0.25*	7/26/12			
Benzene (µg/L)	MW-3	No	NA	NA	52	0.389	0.125
Benzene (µg/L)	MW-4	Yes	1.7	7/24/18	52	0.422	0.219
Benzene (µg/L)	MW-5	Yes	1.2	7/24/18	65	0.452	0.237
			1.9	1/30/19			
Benzene (µg/L)	MW-6	Yes	2	1/14/11	65	0.839	1.900
			3.5	2/11/11			
			3.9	1/27/16			
			1.8	1/30/17			
			1.9	10/27/17			
			15	7/24/18			
Benzene (µg/L)	MW-7 (bg)	Yes	0.25*	1/14/11	26	0.433	0.113
			0.25*	4/21/11			
			0.25*	7/24/11			
			0.25*	10/31/11			
			0.25*	1/13/12			
			0.25*	4/27/12			
			0.25*	7/26/12			
Toluene (µg/L)	MW-1	Yes	0.25*	1/14/11	27	0.447	0.108
			0.25*	4/21/11			
			0.25*	7/21/11			
			0.25*	10/31/11			
			0.25*	1/13/12			
			0.56	4/27/12			
			0.25*	7/26/12			

TABLE 6
OUTLIER ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Outlier	Outlier Value	Date	Number	Mean	Standard Deviation
Toluene (µg/L)	MW-2	Yes	0.25* 0.25* 0.25* 0.25* 0.25* 0.25* 0.25*	1/14/11 4/21/11 7/21/11 10/31/11 1/13/12 4/27/12 7/26/12	27	0.435	0.112
Toluene (µg/L)	MW-3	Yes	1*	3/2/10	52	0.399	0.151
Toluene (µg/L)	MW-4	Yes	1* 1.5	3/2/10 7/24/18	52	0.428	0.212
Toluene (µg/L)	MW-5	Yes	1* 2.1	3/2/10 1/30/19	65	0.459	0.250
Toluene (µg/L)	MW-6	Yes	1.7 2.2 1.8 14	4/13/15 1/27/16 1/30/17 7/24/18	65	0.738	1.709
Toluene (µg/L)	MW-7 (bg)	Yes	0.25* 0.25* 0.25* 0.25* 0.25* 0.25* 0.25*	1/14/11 4/21/11 7/21/11 10/31/11 1/13/12 4/27/12 7/26/12	26	0.433	0.113
Ethylbenzene (µg/L)	MW-1	Yes	0.25* 0.25* 0.25* 0.25* 0.25* 0.25* 0.25*	1/14/11 4/21/11 7/21/11 10/31/11 1/13/12 4/27/12 7/26/12	27	0.435	0.112
Ethylbenzene (µg/L)	MW-2	Yes	0.25* 0.25* 0.25* 0.25* 0.25* 0.25* 0.25*	1/14/11 4/21/11 7/21/11 10/31/11 1/13/12 4/27/12 7/26/12	27	0.435	0.112
Ethylbenzene (µg/L)	MW-3	Yes	1*	3/2/10	52	0.399	0.151
Ethylbenzene (µg/L)	MW-4	Yes	1*	3/2/10	52	0.409	0.149
Ethylbenzene (µg/L)	MW-5	Yes	1*	3/2/10	65	0.427	0.138

TABLE 6
OUTLIER ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Outlier	Outlier Value	Date	Number	Mean	Standard Deviation
Ethylbenzene (µg/L)	MW-6	Yes	1*	3/2/10	65	0.427	0.138
Ethylbenzene (µg/L)	MW-7 (bg)	Yes	0.25*	1/14/11	26	0.433	0.113
			0.25*	4/21/11			
			0.25*	7/21/11			
			0.25*	10/31/11			
			0.25*	1/13/12			
			0.25*	4/27/12			
			0.25*	7/26/12			
Xylenes (µg/L)	MW-1	No	NA	NA	27	0.806	0.349
Xylenes (µg/L)	MW-2	No	NA	NA	27	0.806	0.349
Xylenes (µg/L)	MW-3	Yes	2*	3/2/10	52	0.764	0.322
			1.5*	3/4/10			
			1.5*	4/30/10			
			1.5*	7/26/10			
			1.5*	10/13/10			
Xylenes (µg/L)	MW-4	Yes	2*	3/2/10	52	0.793	0.353
			1.5*	3/4/10			
			1.5*	4/30/10			
			1.5*	7/26/10			
			1.5*	8/16/10			
			1.5*	9/17/10			
			1.5*	10/13/10			
Xylenes (µg/L)	MW-5	Yes	2*	3/2/10	65	0.773	0.336
			1.5*	3/4/10			
			1.5*	4/30/10			
			1.5*	7/26/10			
			1.5*	8/16/10			
			1.5*	9/17/10			
			1.5*	10/13/10			
Xylenes (µg/L)	MW-6	Yes	2*	3/2/10	65	0.928	0.978
			1.5*	3/4/10			
			1.5*	4/30/10			
			1.5*	7/26/10			
			1.5*	8/16/10			
			1.5*	10/13/10			
			1.6	3/23/11			
			7.9	4/21/11			
			1.5*	9/17/11			
			2.8	7/24/18			

TABLE 6
OUTLIER ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Outlier	Outlier Value	Date	Number	Mean	Standard Deviation
Xylenes (µg/L)	MW-7 (bg)	No	NA	NA	26	0.817	0.350
Chloride (mg/L)	MW-1	Yes	646	7/21/15	27	323.44	209.85
			1280	1/30/19			
Chloride (mg/L)	MW-2	Yes	1	7/21/11	27	308.59	199.79
			1220	1/30/19			
Chloride (mg/L)	MW-3	Yes	719	1/27/15	50	292.38	156.55
			435	1/29/18			
			1230	1/30/19			
Chloride (mg/L)	MW-4	Yes	582	1/27/15	50	288.02	161.58
			421	7/21/15			
			428	1/29/18			
			439	7/24/18			
			1300	1/30/19			
Chloride (mg/L)	MW-5	Yes	589	1/27/15	63	295.48	131.60
			505	7/24/18			
			1130	1/30/19			
			3	7/29/19			
Chloride (mg/L)	MW-6	Yes	5.3	12/27/10	63	290.48	130.10
			728	1/27/15			
			60.1	10/31/16			
			69	10/27/17			
			526	1/29/18			
			451	7/24/18			
			989	1/30/19			
Chloride (mg/L)	MW-7 (bg)	Yes	576	1/29/18	26	331.88	124.09
			835	1/30/19			
Sulfate (mg/L)	MW-1	Yes	1810	7/21/15	27	913.04	553.52
			3410	1/30/19			
Sulfate (mg/L)	MW-2	Yes	1,185	11/25/09	27	882.00	501.26
			670	4/30/10			
			1,130	1/14/11			
			545	10/18/12			
			630	7/29/13			
			579	1/31/14			
			1,200	1/30/17			
			593	7/24/17			
			1,090	1/29/18			

TABLE 6
OUTLIER ANALYSIS
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Outlier	Outlier Value	Date	Number	Mean	Standard Deviation
Sulfate (mg/L)	MW-3	Yes	338 1210 3180	1/27/15 1/29/18 1/30/19	51	788.69	369.16
Sulfate (mg/L)	MW-4	Yes	1210 458 1440 1090 1100 1180 3340	1/13/12 1/31/14 1/27/15 7/21/15 1/30/17 1/29/18 1/30/19	51	812.55	402.10
Sulfate (mg/L)	MW-5	Yes	2910	1/30/19	64	782.11	315.39
Sulfate (mg/L)	MW-6	Yes	16.3 2310 1470 2520	12/27/10 12/6/11 1/29/18 1/30/19	64	787.60	365.10
Sulfate (mg/L)	MW-7 (bg)	Yes	1440 1900	1/29/18 1/30/19	26	820.04	288.03
TDS (mg/L)	MW-1	No	NA	NA	27	1,806	337.31
TDS (mg/L)	MW-2	No	NA	NA	27	1,790	344.36
TDS (mg/L)	MW-3	Yes	3850 11.8	4/30/10 1/27/15	46	1,795	474.86
TDS (mg/L)	MW-4	No	NA	NA	46	1,758	252.26
TDS (mg/L)	MW-5	No	NA	NA	59	1,844	325.98
TDS (mg/L)	MW-6	Yes	6160	10/23/14	59	1,947	648.25
TDS (mg/L)	MW-7 (bg)	Yes	5820	4/30/10	26	2,045	842.98

Notes:

* - value not detected and represented as one half the laboratory reporting limit.

NA - not applicable

µg/L - micrograms per liter

mg/L - milligrams per liter

bg - background

TABLE 7
SEN'S SLOPE ESTIMATOR SUMMARY
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Sen's Slope	Mann-Kendal Statistic	Z-Score	Critical Value	Trend
Benzene (µg/L)	MW-1	0	70	1.90883	2.32634	No
Benzene (µg/L)	MW-2	0	70	1.90883	2.32634	No
Benzene (µg/L)	MW-3	0	211	1.934550	2.32634	No
Benzene (µg/L)	MW-4	0	173	1.581980	2.32634	No
Benzene (µg/L)	MW-5	0	495	3.621000	2.32634	Increasing
Benzene (µg/L)	MW-6	0	350	2.289130	2.32634	No
Benzene (µg/L)	MW-7 (bg)	0	63	1.792030	2.32634	No
Toluene (µg/L)	MW-1	0	54	1.457310	2.32634	No
Toluene (µg/L)	MW-2	0	70	1.908830	2.32634	No
Toluene (µg/L)	MW-3	0	187	1.693450	2.32634	No
Toluene (µg/L)	MW-4	0	148	1.335220	2.32634	No
Toluene (µg/L)	MW-5	0	369	2.496100	2.32634	Increasing
Toluene (µg/L)	MW-6	0	361	2.315490	2.32634	No
Toluene (µg/L)	MW-7 (bg)	0	63	1.79203	2.32634	No
Ethylbenzene (µg/L)	MW-1	0	70	1.90883	2.32634	No
Ethylbenzene (µg/L)	MW-2	0	70	1.90883	2.32634	No
Ethylbenzene (µg/L)	MW-3	0	187	1.69345	2.32634	No
Ethylbenzene (µg/L)	MW-4	0	121	1.103710	2.32634	No
Ethylbenzene (µg/L)	MW-5	0	381	2.623940	2.32634	Increasing
Ethylbenzene (µg/L)	MW-6	0	381	2.623940	2.32634	Increasing
Ethylbenzene (µg/L)	MW-7 (bg)	0	63	1.79203	2.32634	No
Xylenes (µg/L)	MW-1	0	-57	-1.23194	2.32634	No
Xylenes (µg/L)	MW-2	0	-57	-1.23194	2.32634	No
Xylenes (µg/L)	MW-3	0	-198	-1.67799	2.32634	No
Xylenes (µg/L)	MW-4	0	-256	-2.14744	2.32634	No
Xylenes (µg/L)	MW-5	0	-235	-1.40727	2.32634	No
Xylenes (µg/L)	MW-6	0	-280	-1.66590	2.32634	No
Xylenes (µg/L)	MW-7 (bg)	0	-51	-1.15821	2.32634	No

TABLE 7
SEN'S SLOPE ESTIMATOR SUMMARY
HIGH PLAINS DISPOSAL - KERSEY
23360 COUNTY ROAD 54, GREELEY, COLORADO

Constituent Name	Well Name	Sen's Slope	Mann-Kendal Statistic	Z-Score	Critical Value	Trend
Chloride (mg/L)	MW-1	0.0278	97	2.00217	2.32634	No
Chloride (mg/L)	MW-2	0.0299	82	1.68897	2.32634	No
Chloride (mg/L)	MW-3	0.0216	308	2.5687	2.32634	Increasing
Chloride (mg/L)	MW-4	0.0293	426	3.55652	2.32634	Increasing
Chloride (mg/L)	MW-5	0.0175	416	2.46228	2.32634	Increasing
Chloride (mg/L)	MW-6	0.00932	184	1.08557	2.32634	No
Chloride (mg/L)	MW-7 (bg)	0.00945	33	0.705673	2.32634	No
Sulfate (mg/L)	MW-1	0.0531	75	1.54267	2.32634	No
Sulfate (mg/L)	MW-2	0.021	3	0.625407	2.32634	No
Sulfate (mg/L)	MW-3	0.0248	114	0.917901	2.32634	No
Sulfate (mg/L)	MW-4	0.0573	235	1.90072	2.32634	No
Sulfate (mg/L)	MW-5	0.00741	68	0.388212	2.32634	No
Sulfate (mg/L)	MW-6	-0.0267	-198	-1.14138	2.32634	No
Sulfate (mg/L)	MW-7 (bg)	0.0295	29	0.617163	2.32634	No
TDS (mg/L)	MW-1	-0.0626	-43	-0.875951	2.32634	No
TDS (mg/L)	MW-2	-0.0338	-37	-0.751142	2.32634	No
TDS (mg/L)	MW-3	-0.0864	-249	-2.35239	2.32634	Decreasing
TDS (mg/L)	MW-4	-0.0403	-191	-1.80159	2.32634	No
TDS (mg/L)	MW-5	-0.0426	-197	-1.283	2.32634	No
TDS (mg/L)	MW-6	-0.0585	-220	-1.43318	2.32634	No
TDS (mg/L)	MW-7 (bg)	-0.099	-69	-1.49955	2.32634	No

Notes:
µg/L - micrograms per liter
mg/L - milligrams per liter
bg - background

APPENDIX A: PURGE FORMS

TD = 17.98

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD Kersey

Project Number: 036219007

Well ID: MW-5

Sampler's Initials: RNT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
4-29-19		11.30	7.21	7.50	3243	2.22	0.0	0	Clear, N/S, N/O
			7.19	7.43	3234	3.41		1	Cloudy, N/S, N/O
			7.19	7.42	3242	3.11		2	SAA
			7.19	7.41	3240	3.09		3	SAA
									* Sample collected @ 1100

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

Page __ of __

KER-TR Sampled @ 1000. Gray, odor
KER-VA Sampled @ 1020. Green, odor, sheen, sediment

TD= 17.98

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-Kersey

Project Number: 036219003

Well ID: MW-6

Sampler's Initials: RNT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
4-29-19		11.24	7.09	10.23	3207	3.88	0.0	0	cloudy, N/S, N/O
			7.14	10.63	3220	2.70	1.09	1	SAA
			7.16	10.65	3218	2.56	2.19	2	SAA
			7.16	9.66	3211	2.11	3.30	3	SAA
									*sample collected @ 1120

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

Page __ of __

LTE

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD - GW - KERSEY

Project Number: ~~09~~ 17 036219003

Well ID: MW - 1

Developer's Initials: RT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		5.01	16.41	5.44	18.83	2911	5.80	~~1.86~~ 0 RT	0	CNO
				5.39	16.95	2962	4.00	1.86 ~~3.72~~ RT	1	CNO
				5.49	16.43	2936	5.16	3.72 ~~5.58~~ RT	2	CNO
				5.27	16.00	2938	3.96	5.58	3	CNO
										* Sampled @ 1315. CNO

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-GW-KERSEY

Project Number: 036219003

Developer's Initials: R T

Well ID: MW-2

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		5.40	17.43	5.71	13.75	3035	4.71	0.0	0	CNO
				5.62	15.96	2957	3.99	1.96	1	CNO
				5.51	14.07	3035	3.28	3.92	2	CNO
				5.45	15.32	3028	3.03	5.89	3	CNO
										*Sampled @ 1400 - CNO

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-GW-KERSEY

Project Number: 036219003

Well ID: MW-3

Developer's Initials: RT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		7.99	18.67	7.35	14.17	3027	6.04	0	0	CNO
				7.34	14.01	2943	5.18	1.74	1	CNO
				7.32	13.61	2960	4.09	3.48	2	CNO
				7.32	13.62	2938	3.48	5.22	3	CNO
										*Sampled @ 1100. CNO

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

Page __ of __

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-GW-KERSEY

Project Number: 036219003 **Well ID:** MW-4

Developer's Initials: RT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		7.82	18.35	6.67	1609	3002	6.69	1.72	0	CNO
				6.86	14.00	3021	5.13	3.43	1	CNO
				6.90	12.16	3014	4.44	5.15	2	CNO
				6.98	12.64	3013	3.31		3	CNO
										*Sampled @ 1030. CNO.

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-GW-KERSEY

Project Number: 036219003

Well ID: MW-5

Developer's Initials: RT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		8.03	18.04	7.39	13.90	3130	5.10	~~1.63~~ 0 RT	0	CNO
				7.37	14.48	2902	4.17	~~3.26~~ 1.63 RT	1	CNO
				7.37	14.43	2862	4.01	3.26	2	CNO
				7.33	1355	2935	3.09	4.89	3	CNO
										*Sampled @ 1130. CNO

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

Page __ of __

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-GW-KERSEY

Project Number: 036219003

Well ID: MW-6

Developer's Initials: RT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		7.88	17.96	7.58	14.88	3219	10.07	~~1.64~~ 0 RT	0	CNO
				7.50	1629	2973	6.23	~~3.28~~ 1.64 RT	1	CNO
				7.46	15.43	2986	5.67	~~4.93~~ 3.28 RT	2	CNO
				7.38	14.99	2999	3.87	4.93	3	CNO
										*Sampled @ 1230. CNO.

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

WELL DEVELOPMENT/PURGING FORM

Project Name: HPD-GU-KERSEY

Project Number: 036219003 **Well ID:** MW-7

Developer's Initials: RT

Purging Method: Pump [✓ Bailer] Other

Date	Time	Initial Water Depth (ft)	Total Depth (ft)	pH	Temp (C)	S.C. (u-S)	Dissolved Oxygen (mg/L)	Volume Removed (gallons)	Casing Volumes Removed	Comments (Color, Turbidity, Odor, NAPL)
7-29-19		4.39	16.85	7.57	12.77	3429	4.63	0	0	Brown, Silty, N/S, N/O
				7.51	13.04	3262	3.47	2.03	1	Cloudy, N/S, N/O
				7.49	13.16	3226	3.48	4.06	2	SAA
				7.44	13.12	3216	3.21	6.09	3	SAA
										* Sampled @ 1200. Cloudy, no sheen,
										No odor

Casing Volume = 0.163 (for 2" diameter wells) x (Total Depth of Well from measuring point __ - Initial Water Depth__) = ____ x 3 well volumes = __
(Use 0.653 for 4" diameter wells or 1.469 for 6" diameter wells or 0.041 for 1" diameter wells)

Page __ of __

APPENDIX B: LABORATORY ANALYTICAL REPORTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 03, 2019

Bryan Paraspolo
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003

RE: HPD - Kersey

Enclosed are the results of analyses for samples received by Summit Scientific on 04/29/19 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Muri Premer

Muri Premer For Ben Shrewsbury
Laboratory Manager

LT Environmental, Inc. 4600 West 60th Avenue Arvada CO, 80003	Project: HPD - Kersey Project Number: 036219003 Project Manager: Bryan Paraspolo	**Reported:** 05/03/19 10:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	1904379-01	Water	04/29/19 11:00	04/29/19 15:30
MW-6	1904379-02	Water	04/29/19 11:20	04/29/19 15:30
Ambient Blank	1904379-03	Water	04/29/19 11:25	04/29/19 15:30
Rinsate Blank	1904379-04	Water	04/29/19 11:30	04/29/19 15:30
Trip Blank	1904379-05	Water	04/29/19 00:00	04/29/19 15:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

1904379

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental, Inc.
Address: 4600 W. 60th Ave.
City/State/Zip: Arvada, Colorado 80003
Phone: 303-433-9788 Fax:
Sampler Name: Rachael Tury

Project Manager: Bryan Paraspolo
E-Mail: bparaspolo@ltenv.com
Project Name: HPD Kersey
Project Number: 036219003

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO_3	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	TDS	Chloride	Sulfate					Special Instructions
MW-5	4-29-19	1100	4	3		1						X	X	X	X					
MW-6	4-29-19	1120	4	3		1						X	X	X	X					
Ambient Blank	4-29-19	1125	2			2						X								
Rinsate Blank	4-29-19	1130	2			2						X								
Trip blank	4-29-19	–	2			2						X								

Relinquished by: Date/Time: 4-29-19
Received by: Date/Time: 4-29-19 15:30
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:

Turn Around Time (Check)
Same Day ☐ 72 Hours ☐
24 Hours ☐ Standard ☒
48 Hours ☐

Sample Integrity:
Temperature Upon Receipt: 6.0°C
Intact: Yes ☑ No ☐

Notes:
on ice

www.s2scientific.com

Sample Receipt Checklist

S2 Work Order 1904379

Client: LTE Client Project ID: HPD Kersey

Shipped Via: [✓ H.D.]/P.U./FedEx/UPS/USPS/Other________ Airbill #: ________

Matrix (check all that apply): _____Air _____Soil/Solid ✓ Water ____Other:________ (Describe)

Temp (°C)	6.0°C

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C (1)? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			on ice
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?	✓			
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely (1)?	✓			
Does the COC agree with the number and type of sample bottles received (1)?	✓			
Do the sample IDs on the bottle labels match the COC (1)?	✓			
Is the COC properly relinquished by the client w/ date and time recorded (1)?	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**		✓		
Are samples preserved that require preservation **(excluding cooling)** (1)? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	✓			HCL
If samples are acid preserved for metals, is the pH ≤ 2(1)? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?				

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

Eric H
Custodian Printed Name or Initials

Signature of Custodian

4-29-19 15:30
Date/Time

MW-5

1904379-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1905013	05/01/19	05/02/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*86.7 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **04/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**488**	150	mg/L	500	1904453	04/30/19	05/01/19	EPA 300.0	
Chloride	**227**	30.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1580**	10.0	mg/L	1	1905003	05/01/19	05/01/19	SM2540C	

MW-6

1904379-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1905013	05/01/19	05/02/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/29/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*86.4 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **04/29/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**233**	30.0	mg/L	500	1904453	04/30/19	05/01/19	EPA 300.0	
Sulfate	**570**	150	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/29/19 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1570**	10.0	mg/L	1	1905003	05/01/19	05/01/19	SM2540C	

Ambient Blank

1904379-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1905013	05/01/19	05/02/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/29/19 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*88.7 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		*"*	*"*	*"*	*"*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rinsate Blank

1904379-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1905013	05/01/19	05/02/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/29/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*88.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Trip Blank

1904379-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1905013	05/01/19	05/02/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **04/29/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*86.6 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*21-167*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1905013 - EPA 5030 Water MS										
Blank (1905013-BLK1)				Prepared: 05/01/19 Analyzed: 05/02/19						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*14.5*		*"*	*13.3*		*109*	*23-173*			
Surrogate: Toluene-d8	*11.8*		*"*	*13.3*		*88.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.6*		*"*	*13.3*		*102*	*21-167*			
LCS (1905013-BS1)				Prepared: 05/01/19 Analyzed: 05/02/19						
Benzene	31.6	1.0	ug/l	33.3		94.8	70-130			
Toluene	26.4	1.0	"	33.3		79.1	70-130			
Ethylbenzene	27.3	1.0	"	33.3		81.8	70-130			
m,p-Xylene	50.8	2.0	"	66.7		76.3	70-130			
o-Xylene	25.5	1.0	"	33.3		76.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*12.6*		*"*	*13.3*		*94.7*	*23-173*			
Surrogate: Toluene-d8	*13.7*		*"*	*13.3*		*103*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.6*		*"*	*13.3*		*102*	*21-167*			
Matrix Spike (1905013-MS1)		**Source: 1904378-02**		Prepared: 05/01/19 Analyzed: 05/02/19						
Benzene	29.3	1.0	ug/l	33.3	ND	88.0	70-130			
Toluene	29.7	1.0	"	33.3	ND	89.1	70-130			
Ethylbenzene	26.3	1.0	"	33.3	ND	79.0	70-130			
m,p-Xylene	66.5	2.0	"	66.7	ND	99.8	70-130			
o-Xylene	29.9	1.0	"	33.3	ND	89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*11.7*		*"*	*13.3*		*87.5*	*23-173*			
Surrogate: Toluene-d8	*12.7*		*"*	*13.3*		*95.1*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.6*		*"*	*13.3*		*102*	*21-167*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Batch 1905013 - EPA 5030 Water MS

Matrix Spike Dup (1905013-MSD1) **Source: 1904378-02** Prepared: 05/01/19 Analyzed: 05/02/19

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzene	27.5	1.0	ug/l	33.3	ND	82.6	70-130	6.37	30	
Toluene	26.6	1.0	"	33.3	ND	79.7	70-130	11.1	30	
Ethylbenzene	27.6	1.0	"	33.3	ND	82.7	70-130	4.56	30	
m,p-Xylene	73.7	2.0	"	66.7	ND	111	70-130	10.3	30	
o-Xylene	27.9	1.0	"	33.3	ND	83.7	70-130	6.92	30	
Surrogate: 1,2-Dichloroethane-d4	*13.8*		*"*	*13.3*		*103*	*23-173*			
Surrogate: Toluene-d8	*12.9*		*"*	*13.3*		*96.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.3*		*"*	*13.3*		*99.8*	*21-167*			

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1904453 - General Preparation										
Blank (1904453-BLK1)				Prepared & Analyzed: 04/30/19						
Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							
LCS (1904453-BS1)				Prepared & Analyzed: 04/30/19						
Sulfate	15.5	0.300	mg/L	15.0		104	90-110			
Chloride	3.23	0.0600	"	3.00		108	90-110			
Duplicate (1904453-DUP1)	**Source: 1904391-01**			Prepared & Analyzed: 04/30/19						
Sulfate	92.6	0.300	mg/L		71.7			25.4	20	QM-02
Chloride	29.1	0.0600	"		30.6			4.88	20	
Matrix Spike (1904453-MS1)	**Source: 1904391-01**			Prepared & Analyzed: 04/30/19						
Sulfate	103	0.300	mg/L	15.0	71.7	208	80-120			QM-02
Chloride	29.8	0.0600	"	3.00	30.6	NR	80-120			QM-02

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1905003 - General Preparation										
Blank (1905003-BLK1)				Prepared & Analyzed: 05/01/19						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (1905003-DUP1)	**Source: 1904366-01**			Prepared & Analyzed: 05/01/19						
Total Dissolved Solids	648	10.0	mg/L		649			0.231	20	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 06, 2019

Bryan Paraspolo
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003

RE: HPD - Groundwater - Kersey

Work Order # 1907361

Enclosed are the results of analyses for samples received by Summit Scientific on 07/30/19 13:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Muri Premer

Muri Premer For Ben Shrewsbury
Laboratory Manager

LT Environmental, Inc. 4600 West 60th Avenue Arvada CO, 80003	Project: HPD - Groundwater - Kersey Project Number: 036219003 Project Manager: Bryan Paraspolo	**Reported:** 08/06/19 13:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1907361-01	Water	07/29/19 13:15	07/30/19 13:15
MW-2	1907361-02	Water	07/29/19 14:00	07/30/19 13:15
MW-3	1907361-03	Water	07/29/19 11:00	07/30/19 13:15
MW-4	1907361-04	Water	07/29/19 10:30	07/30/19 13:15
MW-5	1907361-05	Water	07/29/19 11:30	07/30/19 13:15
MW-6	1907361-06	Water	07/29/19 12:30	07/30/19 13:15
MW-7	1907361-07	Water	07/29/19 12:00	07/30/19 13:15
Ambient Blank	1907361-08	Water	07/29/19 14:20	07/30/19 13:15
Rinsate	1907361-09	Water	07/29/19 14:10	07/30/19 13:15
Trip	1907361-10	Water	07/29/19 00:00	07/30/19 13:15

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

S2

1907361

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: LT Environmental
Address: 4600 West 60th Ave
City/State/Zip: Arvada CO 8003
Phone: 303-433-9788
Sampler Name: Rachael Tuy

Project Manager: Bryan Paraspolo
E-Mail: ~~B.P~~ Bparaspolo@LTENV.com
Project Name: HPD - Groundwater - KERSEY
Project Number: ~~036218002~~ 036219003

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	TDS	CHLORIDE	SULFATE					
1	MW-1	7-29-19	1315	4	X		X		X				X	X	X	X					
2	MW-2	↓	1400	4	X		X		X				X	X	X	X					
3	MW-3		1100	4	X		X		X				X	X	X	X					
4	MW-4		1030	4	X		X		X				X	X	X	X					
5	MW-5		1130	4	X		X		X				X	X	X	X					
6	MW-6		1230	4	X		X		X				X	X	X	X					
7	MW-7		1200	4	X		X		X				X	X	X	X					
8	Ambient Blank		1420	2			X		X				X								
9	Rinsate		1410	2			X		X				X								
10	Trip		NA	2			X		X				X								

Relinquished by: Rachael Ty Date/Time: 7-30-19 / 13:15
Received by: Date/Time: 7-30-19 13:15
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received by: Date/Time:

Turn Around Time (Check)
Same Day ___
24 hours ___
48 hours ___
72 hours ___
Standard X

Sample Integrity:
Temperature Upon Receipt: 0.0
Samples Intact: [✓ Yes] No

Notes:
TEMP BLANK -1.3°c

www.s2scientific.com

Sample Receipt Checklist

S2 Work Order 1907361

Client: LT Environmental Client Project ID: HPD-Groundwater-Kersey

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other________ Airbill #: ________________

☑ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☐ Soil/Solid ☑ Water ☐ Other:________________ (Describe)

Temp (°C)	0.0

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C (1)? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	☑	☐	☐	On Ice
Were all samples received intact (1)?	☑	☐	☐	
Was adequate sample volume provided (1)?	☑	☐	☐	
If custody seals are present, are they intact (1)?	☐	☐	☑	
Are samples with holding times due within 48 hours sample due within 48 hours present?	☐	☐	☑	pH
Is a chain-of-custody (COC) form present and filled out completely (1)?	☑	☐	☐	
Does the COC agree with the number and type of sample bottles received (1)?	☑	☐	☐	
Do the sample IDs on the bottle labels match the COC (1)?	☑	☐	☐	
Is the COC properly relinquished by the client w/ date and time recorded (1)?	☑	☐	☐	
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**	☐	☑	☐	
Are samples preserved that require preservation **(excluding cooling)** (1)? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	☑	☐	☐	HCl
If samples are acid preserved for metals, is the pH $\leq$ 2(1)? Record the pH in Comments.	☐	☐	☑	
If dissolved metals are requested, were samples field filtered?	☐	☐	☑	

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

MP Muri Premer 7/30/19

Custodian Printed Name or Initials **Signature of Custodian** **Date/Time**

MW-1

1907361-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**670**	30.0	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Chloride	**274**	6.00	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1440**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

MW-2

1907361-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.8 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*91.8 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**692**	30.0	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Chloride	**299**	6.00	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1450**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

MW-3

1907361-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.9 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.6 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**620**	30.0	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Chloride	**248**	6.00	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1440**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

MW-4

1907361-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.0 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*94.0 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**670**	30.0	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Chloride	**276**	6.00	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1450**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

MW-5

1907361-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.0 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.9 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	ND	6.00	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Sulfate	**319**	30.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1400**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

MW-6
1907361-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.0 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.0 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**647**	30.0	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Chloride	**258**	6.00	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1540**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

MW-7

1907361-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.2 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*93.2 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*92.9 %*	*21-167*		*"*	*"*	*"*	*"*	

Anions by EPA Method 300.0

Date Sampled: **07/29/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	**541**	30.0	mg/L	100	1908046	08/05/19	08/05/19	EPA 300.0	
Chloride	**210**	6.00	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **07/29/19 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1590**	10.0	mg/L	1	1907432	07/31/19	07/31/19	SM2540C	

Ambient Blank

1907361-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.9 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*91.5 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*92.6 %*	*21-167*		*"*	*"*	*"*	*"*	

Rinsate

1907361-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*82.9 %*	*23-173*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.6 %*	*20-170*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*92.3 %*	*21-167*		*"*	*"*	*"*	*"*	

Trip

1907361-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1907434	07/31/19	08/01/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **07/29/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.9 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*93.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.1 %*	*21-167*		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1907434 - EPA 5030 Water MS										
Blank (1907434-BLK1)				Prepared: 07/31/19 Analyzed: 08/01/19						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*11.3*		"	*13.3*		*85.1*	*23-173*			
Surrogate: Toluene-d8	*12.5*		"	*13.3*		*93.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.2*		"	*13.3*		*91.5*	*21-167*			
LCS (1907434-BS1)				Prepared: 07/31/19 Analyzed: 08/01/19						
Benzene	25.6	1.0	ug/l	33.3		76.9	51-132			
Toluene	28.4	1.0	"	33.3		85.1	51-138			
Ethylbenzene	31.4	1.0	"	33.3		94.1	58-146			
m,p-Xylene	62.8	2.0	"	66.7		94.1	57-144			
o-Xylene	30.2	1.0	"	33.3		90.8	53-146			
Surrogate: 1,2-Dichloroethane-d4	*12.1*		"	*13.3*		*90.6*	*23-173*			
Surrogate: Toluene-d8	*12.6*		"	*13.3*		*94.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.7*		"	*13.3*		*95.2*	*21-167*			
Matrix Spike (1907434-MS1)	**Source: 1907361-01**			Prepared: 07/31/19 Analyzed: 08/01/19						
Benzene	26.2	1.0	ug/l	33.3	ND	78.7	34-141			
Toluene	28.8	1.0	"	33.3	ND	86.5	27-151			
Ethylbenzene	31.3	1.0	"	33.3	ND	94.0	29-160			
m,p-Xylene	62.2	2.0	"	66.7	ND	93.4	20-166			
o-Xylene	30.1	1.0	"	33.3	ND	90.3	33-159			
Surrogate: 1,2-Dichloroethane-d4	*12.4*		"	*13.3*		*92.9*	*23-173*			
Surrogate: Toluene-d8	*12.8*		"	*13.3*		*96.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.6*		"	*13.3*		*94.6*	*21-167*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1907434 - EPA 5030 Water MS										
Matrix Spike Dup (1907434-MSD1)	**Source: 1907361-01**			Prepared: 07/31/19 Analyzed: 08/01/19						
Benzene	25.6	1.0	ug/l	33.3	ND	76.7	34-141	2.59	30	
Toluene	28.7	1.0	"	33.3	ND	86.1	27-151	0.382	30	
Ethylbenzene	30.9	1.0	"	33.3	ND	92.7	29-160	1.38	30	
m,p-Xylene	61.6	2.0	"	66.7	ND	92.5	20-166	0.969	30	
o-Xylene	29.6	1.0	"	33.3	ND	88.8	33-159	1.67	30	
Surrogate: 1,2-Dichloroethane-d4	*12.4*		*"*	*13.3*		*93.3*	*23-173*			
Surrogate: Toluene-d8	*12.7*		*"*	*13.3*		*95.3*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.6*		*"*	*13.3*		*94.4*	*21-167*			

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1908046 - General Preparation										
Blank (1908046-BLK1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							
LCS (1908046-BS1)				Prepared & Analyzed: 08/05/19						
Sulfate	14.1	0.300	mg/L	15.0		93.7	90-110			
Chloride	2.96	0.0600	"	3.00		98.6	90-110			
Duplicate (1908046-DUP1)	**Source: 1907361-01**			Prepared & Analyzed: 08/05/19						
Sulfate	670	30.0	mg/L		670			0.0299	20	
Chloride	274	6.00	"		274			0.219	20	
Matrix Spike (1908046-MS1)	**Source: 1907361-01**			Prepared & Analyzed: 08/05/19						
Sulfate	1970	30.0	mg/L	1500	670	86.5	80-120			
Chloride	561	6.00	"	300	274	95.6	80-120			

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1907432 - General Preparation										
Blank (1907432-BLK1)				Prepared & Analyzed: 07/31/19						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (1907432-DUP1)	**Source: 1907346-01**			Prepared & Analyzed: 07/31/19						
Total Dissolved Solids	381	10.0	mg/L		381			0.0525	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

APPENDIX C: STATISTICAL ANALYSES

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.435185

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/13/2012	MW-1	ND<0.25 U	-0.185185
2	10/31/2011	MW-1	ND<0.25 U	-0.185185
3	7/26/2012	MW-1	ND<0.25 U	-0.185185
4	4/27/2012	MW-1	ND<0.25 U	-0.185185
5	1/14/2011	MW-1	ND<0.25 U	-0.185185
6	7/21/2011	MW-1	ND<0.25 U	-0.185185
7	4/21/2011	MW-1	ND<0.25 U	-0.185185
8	1/30/2019	MW-1	ND<0.5 U	0.0648148
9	7/29/2019	MW-1	ND<0.5 U	0.0648148
10	1/27/2015	MW-1	ND<0.5 U	0.0648148

Iteration i = 9

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 10, 0.01) = 2.93
0 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 9, 0.01) = 2.962
0 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/30/2019 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 8, 0.01) = 2.994
0 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.488095
Std Dev = 0.0545545
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.488095|/0.0545545 = 4.36436
Lambda(27, 7, 0.01) = 3.026
4.36436 > 3.026 -- Measurement 4/21/2011 for location MW-1 is an outlier

---

Iteration i = 5
Mean of 22 measurements = 0.477273
Std Dev = 0.0735612
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.477273|/0.0735612 = 3.08957
Lambda(27, 6, 0.01) = 3.058
Measurement 7/21/2011 for location MW-1 is an outlier

Iteration i = 4
Mean of 23 measurements = 0.467391
Std Dev = 0.0860876
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.467391|/0.0860876 = 2.52523
Lambda(27, 5, 0.01) = 3.09
Measurement 1/14/2011 for location MW-1 is an outlier

Iteration i = 3
Mean of 24 measurements = 0.458333
Std Dev = 0.0951734
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.458333|/0.0951734 = 2.18899
Lambda(27, 4, 0.01) = 3.11
Measurement 4/27/2012 for location MW-1 is an outlier

Iteration i = 2
Mean of 25 measurements = 0.45
Std Dev = 0.102062
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.45|/0.102062 = 1.95959
Lambda(27, 3, 0.01) = 3.14
Measurement 7/26/2012 for location MW-1 is an outlier

Iteration i = 1
Mean of 26 measurements = 0.442308
Std Dev = 0.107417
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.442308|/0.107417 = 1.79029
Lambda(27, 2, 0.01) = 3.16
Measurement 10/31/2011 for location MW-1 is an outlier

Iteration i = 0
Mean of 27 measurements = 0.435185
Std Dev = 0.111644
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.435185|/0.111644 = 1.65871
Lambda(27, 1, 0.01) = 3.18
Measurement 1/13/2012 for location MW-1 is an outlier

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.435185

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/13/2012	MW-2	ND<0.25 U	-0.185185
2	10/31/2011	MW-2	ND<0.25 U	-0.185185
3	7/26/2012	MW-2	ND<0.25 U	-0.185185
4	4/27/2012	MW-2	ND<0.25 U	-0.185185
5	1/14/2011	MW-2	ND<0.25 U	-0.185185
6	7/21/2011	MW-2	ND<0.25 U	-0.185185
7	4/21/2011	MW-2	ND<0.25 U	-0.185185
8	1/30/2019	MW-2	ND<0.5 U	0.0648148
9	7/29/2019	MW-2	ND<0.5 U	0.0648148
10	1/27/2015	MW-2	ND<0.5 U	0.0648148

Iteration i = 9

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 10, 0.01) = 2.93
0 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 9, 0.01) = 2.962
0 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/30/2019 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 8, 0.01) = 2.994
0 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.488095
Std Dev = 0.0545545
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.488095|/0.0545545 = 4.36436
Lambda(27, 7, 0.01) = 3.026
4.36436 > 3.026 -- Measurement 4/21/2011 for location MW-2 is an outlier

---

Iteration i = 5

Mean of 22 measurements = 0.477273
Std Dev = 0.0735612
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.477273|/0.0735612 = 3.08957
Lambda(27, 6, 0.01) = 3.058

Measurement 7/21/2011 for location MW-2 is an outlier

Iteration i = 4

Mean of 23 measurements = 0.467391
Std Dev = 0.0860876
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.467391|/0.0860876 = 2.52523
Lambda(27, 5, 0.01) = 3.09

Measurement 1/14/2011 for location MW-2 is an outlier

Iteration i = 3

Mean of 24 measurements = 0.458333
Std Dev = 0.0951734
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.458333|/0.0951734 = 2.18899
Lambda(27, 4, 0.01) = 3.11

Measurement 4/27/2012 for location MW-2 is an outlier

Iteration i = 2

Mean of 25 measurements = 0.45
Std Dev = 0.102062
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.45|/0.102062 = 1.95959
Lambda(27, 3, 0.01) = 3.14

Measurement 7/26/2012 for location MW-2 is an outlier

Iteration i = 1

Mean of 26 measurements = 0.442308
Std Dev = 0.107417
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.442308|/0.107417 = 1.79029
Lambda(27, 2, 0.01) = 3.16

Measurement 10/31/2011 for location MW-2 is an outlier

Iteration i = 0

Mean of 27 measurements = 0.435185
Std Dev = 0.111644
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.435185|/0.111644 = 1.65871
Lambda(27, 1, 0.01) = 3.18

Measurement 1/13/2012 for location MW-2 is an outlier

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.389423

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	12/6/2011	MW-3	ND<0.25 U	-0.139423
2	9/17/2010	MW-3	ND<0.25 U	-0.139423
3	8/16/2010	MW-3	ND<0.25 U	-0.139423
4	9/12/2011	MW-3	ND<0.25 U	-0.139423
5	8/8/2011	MW-3	ND<0.25 U	-0.139423
6	7/21/2011	MW-3	ND<0.25 U	-0.139423
7	7/26/2012	MW-3	ND<0.25 U	-0.139423
8	6/15/2012	MW-3	ND<0.25 U	-0.139423
9	5/24/2012	MW-3	ND<0.25 U	-0.139423
10	4/27/2012	MW-3	ND<0.25 U	-0.139423

Iteration i = 9

Mean of 43 measurements = 0.418605
Std Dev = 0.118534
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.418605|/0.118534 = 1.42241
Lambda(52, 10, 0.01) = 3.41
1.42241 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.414773
Std Dev = 0.119874
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.414773|/0.119874 = 1.37455
Lambda(52, 9, 0.01) = 3.4212
1.37455 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.411111
Std Dev = 0.121023
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.411111|/0.121023 = 1.33125
Lambda(52, 8, 0.01) = 3.4324
1.33125 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.407609
Std Dev = 0.122005
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.407609|/0.122005 = 1.29182
Lambda(52, 7, 0.01) = 3.4436
1.29182 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 47 measurements = 0.404255
Std Dev = 0.122842
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.404255|/0.122842 = 1.25572
Lambda(52, 6, 0.01) = 3.4548
1.25572 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4

Mean of 48 measurements = 0.401042
Std Dev = 0.123551
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.401042|/0.123551 = 1.2225
Lambda(52, 5, 0.01) = 3.466
1.2225 < 3.466 -- No outliers detected for i = 4

Iteration i = 3

Mean of 49 measurements = 0.397959
Std Dev = 0.124147
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.397959|/0.124147 = 1.19181
Lambda(52, 4, 0.01) = 3.476
1.19181 < 3.476 -- No outliers detected for i = 3

Iteration i = 2

Mean of 50 measurements = 0.395
Std Dev = 0.124642
x(i+1) = 0.25 from measurement 8/16/2010 from location MW-3
Rosner Statistic R = |0.25 - 0.395|/0.124642 = 1.16333
Lambda(52, 3, 0.01) = 3.478
1.16333 < 3.478 -- No outliers detected for i = 2

Iteration i = 1

Mean of 51 measurements = 0.392157
Std Dev = 0.125049
x(i+1) = 0.25 from measurement 9/17/2010 from location MW-3
Rosner Statistic R = |0.25 - 0.392157|/0.125049 = 1.13681
Lambda(52, 2, 0.01) = 3.486
1.13681 < 3.486 -- No outliers detected for i = 1

Iteration i = 0

Mean of 52 measurements = 0.389423
Std Dev = 0.125377
x(i+1) = 0.25 from measurement 12/6/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.389423|/0.125377 = 1.11204
Lambda(52, 1, 0.01) = 3.496
1.11204 < 3.496 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.422115

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	7/24/2018	MW-4	1.7	1.27788
2	12/6/2011	MW-4	ND<0.25 U	-0.172115
3	11/15/2011	MW-4	ND<0.25 U	-0.172115
4	9/12/2011	MW-4	ND<0.25 U	-0.172115
5	8/8/2011	MW-4	ND<0.25 U	-0.172115
6	7/21/2011	MW-4	ND<0.25 U	-0.172115
7	7/26/2012	MW-4	ND<0.25 U	-0.172115
8	6/15/2012	MW-4	ND<0.25 U	-0.172115
9	5/24/2012	MW-4	ND<0.25 U	-0.172115
10	4/27/2012	MW-4	ND<0.25 U	-0.172115

Iteration i = 9

Mean of 43 measurements = 0.424419
Std Dev = 0.116175
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.424419|/0.116175 = 1.50134
Lambda(52, 10, 0.01) = 3.41
1.50134 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.420455
Std Dev = 0.117789
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.420455|/0.117789 = 1.44712
Lambda(52, 9, 0.01) = 3.4212
1.44712 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.416667
Std Dev = 0.119183
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.416667|/0.119183 = 1.39841
Lambda(52, 8, 0.01) = 3.4324
1.39841 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.413043
Std Dev = 0.120386
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.413043|/0.120386 = 1.35434
Lambda(52, 7, 0.01) = 3.4436
1.35434 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 47 measurements = 0.409574
Std Dev = 0.121422
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.409574|/0.121422 = 1.31421
Lambda(52, 6, 0.01) = 3.4548
1.31421 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4

Mean of 48 measurements = 0.40625
Std Dev = 0.122312
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.40625|/0.122312 = 1.27748
Lambda(52, 5, 0.01) = 3.466
1.27748 < 3.466 -- No outliers detected for i = 4

Iteration i = 3

Mean of 49 measurements = 0.403061
Std Dev = 0.123072
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.403061|/0.123072 = 1.24367
Lambda(52, 4, 0.01) = 3.476
1.24367 < 3.476 -- No outliers detected for i = 3

Iteration i = 2

Mean of 50 measurements = 0.4
Std Dev = 0.123718
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.4|/0.123718 = 1.21244
Lambda(52, 3, 0.01) = 3.478
1.21244 < 3.478 -- No outliers detected for i = 2

Iteration i = 1

Mean of 51 measurements = 0.397059
Std Dev = 0.124263
x(i+1) = 0.25 from measurement 12/6/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.397059|/0.124263 = 1.18345
Lambda(52, 2, 0.01) = 3.486
1.18345 < 3.486 -- No outliers detected for i = 1

Iteration i = 0

Mean of 52 measurements = 0.422115
Std Dev = 0.218599
x(i+1) = 1.7 from measurement 7/24/2018 from location MW-4
Rosner Statistic R = |1.7 - 0.422115|/0.218599 = 5.84579
Lambda(52, 1, 0.01) = 3.496
5.84579 > 3.496 -- Measurement 7/24/2018 for location MW-4 is an outlier

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.451538

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-5	1.9	1.44846
2	7/24/2018	MW-5	1.2	0.748462
3	10/31/2011	MW-5	ND<0.25 U	-0.201538
4	8/8/2011	MW-5	ND<0.25 U	-0.201538
5	11/15/2011	MW-5	ND<0.25 U	-0.201538
6	6/9/2011	MW-5	ND<0.25 U	-0.201538
7	5/16/2011	MW-5	ND<0.25 U	-0.201538
8	4/21/2011	MW-5	ND<0.25 U	-0.201538
9	3/23/2011	MW-5	ND<0.25 U	-0.201538
10	2/11/2011	MW-5	ND<0.25 U	-0.201538

Iteration i = 9

Mean of 56 measurements = 0.4375
Std Dev = 0.109233
x(i+1) = 0.25 from measurement 2/11/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.4375|/0.109233 = 1.71652
Lambda(65, 10, 0.01) = 3.53
1.71652 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.434211
Std Dev = 0.111065
x(i+1) = 0.25 from measurement 3/23/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.434211|/0.111065 = 1.65858
Lambda(65, 9, 0.01) = 3.537
1.65858 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.431034
Std Dev = 0.112713
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.431034|/0.112713 = 1.60616
Lambda(65, 8, 0.01) = 3.544
1.60616 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.427966
Std Dev = 0.114196
x(i+1) = 0.25 from measurement 5/16/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.427966|/0.114196 = 1.55843
Lambda(65, 7, 0.01) = 3.551
1.55843 < 3.551 -- No outliers detected for i = 6

Iteration i = 5
Mean of 60 measurements = 0.425
Std Dev = 0.115531
x(i+1) = 0.25 from measurement 6/9/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.425|/0.115531 = 1.51474
Lambda(65, 6, 0.01) = 3.558
1.51474 < 3.558 -- No outliers detected for i = 5

Iteration i = 4
Mean of 61 measurements = 0.422131
Std Dev = 0.116735
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.422131|/0.116735 = 1.47455
Lambda(65, 5, 0.01) = 3.565
1.47455 < 3.565 -- No outliers detected for i = 4

Iteration i = 3
Mean of 62 measurements = 0.419355
Std Dev = 0.11782
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.419355|/0.11782 = 1.4374
Lambda(65, 4, 0.01) = 3.57
1.4374 < 3.57 -- No outliers detected for i = 3

Iteration i = 2
Mean of 63 measurements = 0.416667
Std Dev = 0.118798
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.416667|/0.118798 = 1.40294
Lambda(65, 3, 0.01) = 3.58
1.40294 < 3.58 -- No outliers detected for i = 2

Iteration i = 1
Mean of 64 measurements = 0.428906
Std Dev = 0.153221
x(i+1) = 1.2 from measurement 7/24/2018 from location MW-5
Rosner Statistic R = |1.2 - 0.428906|/0.153221 = 5.03257
Lambda(65, 2, 0.01) = 3.585
5.03257 > 3.585 -- Measurement 7/24/2018 for location MW-5 is an outlier

---

Iteration i = 0
Mean of 65 measurements = 0.451538
Std Dev = 0.237495
x(i+1) = 1.9 from measurement 1/30/2019 from location MW-5
Rosner Statistic R = |1.9 - 0.451538|/0.237495 = 6.09892
Lambda(65, 1, 0.01) = 3.59
Measurement 1/30/2019 for location MW-5 is an outlier

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.839231

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	7/24/2018	MW-6	15	14.1608
2	1/27/2016	MW-6	3.9	3.06077
3	2/11/2011	MW-6	3.5	2.66077
4	1/14/2011	MW-6	2	1.16077
5	10/27/2017	MW-6	1.9	1.06077
6	1/30/2017	MW-6	1.8	0.960769
7	11/15/2011	MW-6	ND<0.25 U	-0.589231
8	9/12/2011	MW-6	ND<0.25 U	-0.589231
9	3/23/2011	MW-6	ND<0.25 U	-0.589231
10	6/9/2011	MW-6	ND<0.25 U	-0.589231

Iteration i = 9

Mean of 56 measurements = 0.458929

Std Dev = 0.166271

x(i+1) = 0.25 from measurement 6/9/2011 from location MW-6

Rosner Statistic R = |0.25 - 0.458929|/0.166271 = 1.25655

Lambda(65, 10, 0.01) = 3.53

1.25655 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.455263

Std Dev = 0.167088

x(i+1) = 0.25 from measurement 3/23/2011 from location MW-6

Rosner Statistic R = |0.25 - 0.455263|/0.167088 = 1.22848

Lambda(65, 9, 0.01) = 3.537

1.22848 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.451724

Std Dev = 0.167794

x(i+1) = 0.25 from measurement 9/12/2011 from location MW-6

Rosner Statistic R = |0.25 - 0.451724|/0.167794 = 1.20221

Lambda(65, 8, 0.01) = 3.544

1.20221 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.448305

Std Dev = 0.168402

x(i+1) = 0.25 from measurement 11/15/2011 from location MW-6

Rosner Statistic R = |0.25 - 0.448305|/0.168402 = 1.17757

Lambda(65, 7, 0.01) = 3.551

1.17757 < 3.551 -- No outliers detected for i = 6

Iteration i = 5

Mean of 60 measurements = 0.470833
Std Dev = 0.241516
x(i+1) = 1.8 from measurement 1/30/2017 from location MW-6
Rosner Statistic R = |1.8 - 0.470833|/0.241516 = 5.50344
Lambda(65, 6, 0.01) = 3.558

5.50344 > 3.558 -- Measurement 1/30/2017 for location MW-6 is an outlier

---

Iteration i = 4

Mean of 61 measurements = 0.494262
Std Dev = 0.301399
x(i+1) = 1.9 from measurement 10/27/2017 from location MW-6
Rosner Statistic R = |1.9 - 0.494262|/0.301399 = 4.66404
Lambda(65, 5, 0.01) = 3.565

Measurement 10/27/2017 for location MW-6 is an outlier

Iteration i = 3

Mean of 62 measurements = 0.518548
Std Dev = 0.354853
x(i+1) = 2 from measurement 1/14/2011 from location MW-6
Rosner Statistic R = |2 - 0.518548|/0.354853 = 4.17483
Lambda(65, 4, 0.01) = 3.57

Measurement 1/14/2011 for location MW-6 is an outlier

Iteration i = 2

Mean of 63 measurements = 0.565873
Std Dev = 0.514768
x(i+1) = 3.5 from measurement 2/11/2011 from location MW-6
Rosner Statistic R = |3.5 - 0.565873|/0.514768 = 5.6999
Lambda(65, 3, 0.01) = 3.58

Measurement 2/11/2011 for location MW-6 is an outlier

Iteration i = 1

Mean of 64 measurements = 0.617969
Std Dev = 0.659146
x(i+1) = 3.9 from measurement 1/27/2016 from location MW-6
Rosner Statistic R = |3.9 - 0.617969|/0.659146 = 4.97922
Lambda(65, 2, 0.01) = 3.585

Measurement 1/27/2016 for location MW-6 is an outlier

Iteration i = 0

Mean of 65 measurements = 0.839231
Std Dev = 1.89997
x(i+1) = 15 from measurement 7/24/2018 from location MW-6
Rosner Statistic R = |15 - 0.839231|/1.89997 = 7.45316
Lambda(65, 1, 0.01) = 3.59

Measurement 7/24/2018 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Benzene

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.432692

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	10/31/2011	MW-7	ND<0.25 U	-0.182692
2	7/26/2012	MW-7	ND<0.25 U	-0.182692
3	4/27/2012	MW-7	ND<0.25 U	-0.182692
4	1/13/2012	MW-7	ND<0.25 U	-0.182692
5	7/21/2011	MW-7	ND<0.25 U	-0.182692
6	4/21/2011	MW-7	ND<0.25 U	-0.182692
7	1/14/2011	MW-7	ND<0.25 U	-0.182692
8	7/29/2019	MW-7	ND<0.5 U	0.0673077
9	1/27/2015	MW-7	ND<0.5 U	0.0673077
10	7/17/2014	MW-7	ND<0.5 U	0.0673077

Iteration i = 9

Mean of 17 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/17/2014 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 10, 0.01) = 2.89
0 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 9, 0.01) = 2.924
0 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 8, 0.01) = 2.958
0 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 0.4875
Std Dev = 0.0559017
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.4875|/0.0559017 = 4.24853
Lambda(26, 7, 0.01) = 2.992
4.24853 > 2.992 -- Measurement 1/14/2011 for location MW-7 is an outlier

Iteration i = 5

Mean of 21 measurements = 0.47619
Std Dev = 0.0751982
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.47619|/0.0751982 = 3.00793
Lambda(26, 6, 0.01) = 3.026
Measurement 4/21/2011 for location MW-7 is an outlier

Iteration i = 4

Mean of 22 measurements = 0.465909
Std Dev = 0.0878125
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.465909|/0.0878125 = 2.45875
Lambda(26, 5, 0.01) = 3.06
Measurement 7/21/2011 for location MW-7 is an outlier

Iteration i = 3

Mean of 23 measurements = 0.456522
Std Dev = 0.0968883
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.456522|/0.0968883 = 2.13154
Lambda(26, 4, 0.01) = 3.09
Measurement 1/13/2012 for location MW-7 is an outlier

Iteration i = 2

Mean of 24 measurements = 0.447917
Std Dev = 0.103713
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.447917|/0.103713 = 1.90832
Lambda(26, 3, 0.01) = 3.11
Measurement 4/27/2012 for location MW-7 is an outlier

Iteration i = 1

Mean of 25 measurements = 0.44
Std Dev = 0.108972
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.44|/0.108972 = 1.74356
Lambda(26, 2, 0.01) = 3.14
Measurement 7/26/2012 for location MW-7 is an outlier

Iteration i = 0

Mean of 26 measurements = 0.432692
Std Dev = 0.113086
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.432692|/0.113086 = 1.61552
Lambda(26, 1, 0.01) = 3.16
Measurement 10/31/2011 for location MW-7 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.446667

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/13/2012	MW-1	ND<0.25 U	-0.196667
2	10/31/2011	MW-1	ND<0.25 U	-0.196667
3	7/26/2012	MW-1	ND<0.25 U	-0.196667
4	4/21/2011	MW-1	ND<0.25 U	-0.196667
5	1/14/2011	MW-1	ND<0.25 U	-0.196667
6	7/21/2011	MW-1	ND<0.25 U	-0.196667
7	4/27/2012	MW-1	0.56	0.113333
8	1/30/2019	MW-1	ND<0.5 U	0.0533333
9	7/29/2019	MW-1	ND<0.5 U	0.0533333
10	1/27/2015	MW-1	ND<0.5 U	0.0533333

Iteration i = 9

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 10, 0.01) = 2.93
0 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 9, 0.01) = 2.962
0 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/30/2019 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 8, 0.01) = 2.994
0 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.502857
Std Dev = 0.0130931
x(i+1) = 0.56 from measurement 4/27/2012 from location MW-1
Rosner Statistic R = |0.56 - 0.502857|/0.0130931 = 4.36436
Lambda(27, 7, 0.01) = 3.026
4.36436 > 3.026 -- Measurement 4/27/2012 for location MW-1 is an outlier

---

Iteration i = 5

Mean of 22 measurements = 0.491364
Std Dev = 0.0554029
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.491364|/0.0554029 = 4.35652
Lambda(27, 6, 0.01) = 3.058
Measurement 7/21/2011 for location MW-1 is an outlier

Iteration i = 4

Mean of 23 measurements = 0.48087
Std Dev = 0.0739111
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.48087|/0.0739111 = 3.12361
Lambda(27, 5, 0.01) = 3.09
Measurement 1/14/2011 for location MW-1 is an outlier

Iteration i = 3

Mean of 24 measurements = 0.47125
Std Dev = 0.0862913
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.47125|/0.0862913 = 2.56399
Lambda(27, 4, 0.01) = 3.11
Measurement 4/21/2011 for location MW-1 is an outlier

Iteration i = 2

Mean of 25 measurements = 0.4624
Std Dev = 0.0953625
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.4624|/0.0953625 = 2.22729
Lambda(27, 3, 0.01) = 3.14
Measurement 7/26/2012 for location MW-1 is an outlier

Iteration i = 1

Mean of 26 measurements = 0.454231
Std Dev = 0.1023
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.454231|/0.1023 = 1.99638
Lambda(27, 2, 0.01) = 3.16
Measurement 10/31/2011 for location MW-1 is an outlier

Iteration i = 0

Mean of 27 measurements = 0.446667
Std Dev = 0.107739
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.446667|/0.107739 = 1.8254
Lambda(27, 1, 0.01) = 3.18
Measurement 1/13/2012 for location MW-1 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.435185

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/13/2012	MW-2	ND<0.25 U	-0.185185
2	10/31/2011	MW-2	ND<0.25 U	-0.185185
3	7/26/2012	MW-2	ND<0.25 U	-0.185185
4	4/27/2012	MW-2	ND<0.25 U	-0.185185
5	1/14/2011	MW-2	ND<0.25 U	-0.185185
6	7/21/2011	MW-2	ND<0.25 U	-0.185185
7	4/21/2011	MW-2	ND<0.25 U	-0.185185
8	1/30/2019	MW-2	ND<0.5 U	0.0648148
9	7/29/2019	MW-2	ND<0.5 U	0.0648148
10	1/27/2015	MW-2	ND<0.5 U	0.0648148

Iteration i = 9

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 10, 0.01) = 2.93
0 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 9, 0.01) = 2.962
0 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/30/2019 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 8, 0.01) = 2.994
0 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.488095
Std Dev = 0.0545545
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.488095|/0.0545545 = 4.36436
Lambda(27, 7, 0.01) = 3.026
4.36436 > 3.026 -- Measurement 4/21/2011 for location MW-2 is an outlier

---

Iteration i = 5
Mean of 22 measurements = 0.477273
Std Dev = 0.0735612
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.477273|/0.0735612 = 3.08957
Lambda(27, 6, 0.01) = 3.058
Measurement 7/21/2011 for location MW-2 is an outlier

Iteration i = 4
Mean of 23 measurements = 0.467391
Std Dev = 0.0860876
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.467391|/0.0860876 = 2.52523
Lambda(27, 5, 0.01) = 3.09
Measurement 1/14/2011 for location MW-2 is an outlier

Iteration i = 3
Mean of 24 measurements = 0.458333
Std Dev = 0.0951734
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.458333|/0.0951734 = 2.18899
Lambda(27, 4, 0.01) = 3.11
Measurement 4/27/2012 for location MW-2 is an outlier

Iteration i = 2
Mean of 25 measurements = 0.45
Std Dev = 0.102062
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.45|/0.102062 = 1.95959
Lambda(27, 3, 0.01) = 3.14
Measurement 7/26/2012 for location MW-2 is an outlier

Iteration i = 1
Mean of 26 measurements = 0.442308
Std Dev = 0.107417
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.442308|/0.107417 = 1.79029
Lambda(27, 2, 0.01) = 3.16
Measurement 10/31/2011 for location MW-2 is an outlier

Iteration i = 0
Mean of 27 measurements = 0.435185
Std Dev = 0.111644
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.435185|/0.111644 = 1.65871
Lambda(27, 1, 0.01) = 3.18
Measurement 1/13/2012 for location MW-2 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.399038

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-3	ND<1 U	0.600962
2	12/6/2011	MW-3	ND<0.25 U	-0.149038
3	8/16/2010	MW-3	ND<0.25 U	-0.149038
4	9/12/2011	MW-3	ND<0.25 U	-0.149038
5	8/8/2011	MW-3	ND<0.25 U	-0.149038
6	9/17/2010	MW-3	ND<0.25 U	-0.149038
7	7/26/2012	MW-3	ND<0.25 U	-0.149038
8	6/15/2012	MW-3	ND<0.25 U	-0.149038
9	5/24/2012	MW-3	ND<0.25 U	-0.149038
10	7/21/2011	MW-3	ND<0.25 U	-0.149038

Iteration i = 9

Mean of 43 measurements = 0.412791
Std Dev = 0.120561
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.412791|/0.120561 = 1.35028
Lambda(52, 10, 0.01) = 3.41
1.35028 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.409091
Std Dev = 0.121652
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.409091|/0.121652 = 1.30776
Lambda(52, 9, 0.01) = 3.4212
1.30776 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.405556
Std Dev = 0.122578
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.405556|/0.122578 = 1.26904
Lambda(52, 8, 0.01) = 3.4324
1.26904 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.402174
Std Dev = 0.123359
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.402174|/0.123359 = 1.23359
Lambda(52, 7, 0.01) = 3.4436
1.23359 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 47 measurements = 0.398936
Std Dev = 0.124013
x(i+1) = 0.25 from measurement 9/17/2010 from location MW-3
Rosner Statistic R = |0.25 - 0.398936|/0.124013 = 1.20097
Lambda(52, 6, 0.01) = 3.4548
1.20097 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4

Mean of 48 measurements = 0.395833
Std Dev = 0.124556
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.395833|/0.124556 = 1.17083
Lambda(52, 5, 0.01) = 3.466
1.17083 < 3.466 -- No outliers detected for i = 4

Iteration i = 3

Mean of 49 measurements = 0.392857
Std Dev = 0.125
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.392857|/0.125 = 1.14286
Lambda(52, 4, 0.01) = 3.476
1.14286 < 3.476 -- No outliers detected for i = 3

Iteration i = 2

Mean of 50 measurements = 0.39
Std Dev = 0.125357
x(i+1) = 0.25 from measurement 8/16/2010 from location MW-3
Rosner Statistic R = |0.25 - 0.39|/0.125357 = 1.11681
Lambda(52, 3, 0.01) = 3.478
1.11681 < 3.478 -- No outliers detected for i = 2

Iteration i = 1

Mean of 51 measurements = 0.387255
Std Dev = 0.125636
x(i+1) = 0.25 from measurement 12/6/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.387255|/0.125636 = 1.09248
Lambda(52, 2, 0.01) = 3.486
1.09248 < 3.486 -- No outliers detected for i = 1

Iteration i = 0

Mean of 52 measurements = 0.399038
Std Dev = 0.150649
x(i+1) = 1 from measurement 3/2/2010 from location MW-3
Rosner Statistic R = |1 - 0.399038|/0.150649 = 3.98915
Lambda(52, 1, 0.01) = 3.496
3.98915 > 3.496 -- Measurement 3/2/2010 for location MW-3 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.427885

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	7/24/2018	MW-4	1.5	1.07212
2	3/2/2010	MW-4	ND<1 U	0.572115
3	12/6/2011	MW-4	ND<0.25 U	-0.177885
4	9/12/2011	MW-4	ND<0.25 U	-0.177885
5	8/8/2011	MW-4	ND<0.25 U	-0.177885
6	11/15/2011	MW-4	ND<0.25 U	-0.177885
7	7/26/2012	MW-4	ND<0.25 U	-0.177885
8	6/15/2012	MW-4	ND<0.25 U	-0.177885
9	5/24/2012	MW-4	ND<0.25 U	-0.177885
10	7/21/2011	MW-4	ND<0.25 U	-0.177885

Iteration i = 9

Mean of 43 measurements = 0.418605
Std Dev = 0.118534
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.418605|/0.118534 = 1.42241
Lambda(52, 10, 0.01) = 3.41
1.42241 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.414773
Std Dev = 0.119874
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.414773|/0.119874 = 1.37455
Lambda(52, 9, 0.01) = 3.4212
1.37455 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.411111
Std Dev = 0.121023
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.411111|/0.121023 = 1.33125
Lambda(52, 8, 0.01) = 3.4324
1.33125 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.407609
Std Dev = 0.122005
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.407609|/0.122005 = 1.29182
Lambda(52, 7, 0.01) = 3.4436
1.29182 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5
Mean of 47 measurements = 0.404255
Std Dev = 0.122842
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.404255|/0.122842 = 1.25572
Lambda(52, 6, 0.01) = 3.4548
1.25572 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4
Mean of 48 measurements = 0.401042
Std Dev = 0.123551
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.401042|/0.123551 = 1.2225
Lambda(52, 5, 0.01) = 3.466
1.2225 < 3.466 -- No outliers detected for i = 4

Iteration i = 3
Mean of 49 measurements = 0.397959
Std Dev = 0.124147
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.397959|/0.124147 = 1.19181
Lambda(52, 4, 0.01) = 3.476
1.19181 < 3.476 -- No outliers detected for i = 3

Iteration i = 2
Mean of 50 measurements = 0.395
Std Dev = 0.124642
x(i+1) = 0.25 from measurement 12/6/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.395|/0.124642 = 1.16333
Lambda(52, 3, 0.01) = 3.478
1.16333 < 3.478 -- No outliers detected for i = 2

Iteration i = 1
Mean of 51 measurements = 0.406863
Std Dev = 0.149673
x(i+1) = 1 from measurement 3/2/2010 from location MW-4
Rosner Statistic R = |1 - 0.406863|/0.149673 = 3.96289
Lambda(52, 2, 0.01) = 3.486
3.96289 > 3.486 -- Measurement 3/2/2010 for location MW-4 is an outlier

---

Iteration i = 0
Mean of 52 measurements = 0.427885
Std Dev = 0.211996
x(i+1) = 1.5 from measurement 7/24/2018 from location MW-4
Rosner Statistic R = |1.5 - 0.427885|/0.211996 = 5.05723
Lambda(52, 1, 0.01) = 3.496
Measurement 7/24/2018 for location MW-4 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.458615

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-5	2.1	1.64138
2	3/2/2010	MW-5	ND<1 U	0.541385
3	3/23/2011	MW-5	0.71	0.251385
4	8/8/2011	MW-5	ND<0.25 U	-0.208615
5	11/15/2011	MW-5	ND<0.25 U	-0.208615
6	10/31/2011	MW-5	ND<0.25 U	-0.208615
7	5/16/2011	MW-5	ND<0.25 U	-0.208615
8	4/21/2011	MW-5	ND<0.25 U	-0.208615
9	7/21/2011	MW-5	ND<0.25 U	-0.208615
10	6/9/2011	MW-5	ND<0.25 U	-0.208615

Iteration i = 9

Mean of 56 measurements = 0.4375
Std Dev = 0.109233
x(i+1) = 0.25 from measurement 6/9/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.4375|/0.109233 = 1.71652
Lambda(65, 10, 0.01) = 3.53
1.71652 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.434211
Std Dev = 0.111065
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.434211|/0.111065 = 1.65858
Lambda(65, 9, 0.01) = 3.537
1.65858 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.431034
Std Dev = 0.112713
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.431034|/0.112713 = 1.60616
Lambda(65, 8, 0.01) = 3.544
1.60616 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.427966
Std Dev = 0.114196
x(i+1) = 0.25 from measurement 5/16/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.427966|/0.114196 = 1.55843
Lambda(65, 7, 0.01) = 3.551
1.55843 < 3.551 -- No outliers detected for i = 6

Iteration i = 5

Mean of 60 measurements = 0.425
Std Dev = 0.115531
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.425|/0.115531 = 1.51474
Lambda(65, 6, 0.01) = 3.558
1.51474 < 3.558 -- No outliers detected for i = 5

Iteration i = 4

Mean of 61 measurements = 0.422131
Std Dev = 0.116735
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.422131|/0.116735 = 1.47455
Lambda(65, 5, 0.01) = 3.565
1.47455 < 3.565 -- No outliers detected for i = 4

Iteration i = 3

Mean of 62 measurements = 0.419355
Std Dev = 0.11782
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.419355|/0.11782 = 1.4374
Lambda(65, 4, 0.01) = 3.57
1.4374 < 3.57 -- No outliers detected for i = 3

Iteration i = 2

Mean of 63 measurements = 0.423968
Std Dev = 0.122468
x(i+1) = 0.71 from measurement 3/23/2011 from location MW-5
Rosner Statistic R = |0.71 - 0.423968|/0.122468 = 2.33556
Lambda(65, 3, 0.01) = 3.58
2.33556 < 3.58 -- No outliers detected for i = 2

Iteration i = 1

Mean of 64 measurements = 0.432969
Std Dev = 0.141227
x(i+1) = 1 from measurement 3/2/2010 from location MW-5
Rosner Statistic R = |1 - 0.432969|/0.141227 = 4.01504
Lambda(65, 2, 0.01) = 3.585
4.01504 > 3.585 -- Measurement 3/2/2010 for location MW-5 is an outlier

---

Iteration i = 0

Mean of 65 measurements = 0.458615
Std Dev = 0.249774
x(i+1) = 2.1 from measurement 1/30/2019 from location MW-5
Rosner Statistic R = |2.1 - 0.458615|/0.249774 = 6.57148
Lambda(65, 1, 0.01) = 3.59
Measurement 1/30/2019 for location MW-5 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.738154

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	7/24/2018	MW-6	14	13.2618
2	1/27/2016	MW-6	2.2	1.46185
3	1/30/2017	MW-6	1.8	1.06185
4	4/13/2015	MW-6	1.7	0.961846
5	8/8/2011	MW-6	ND<0.25 U	-0.488154
6	11/15/2011	MW-6	ND<0.25 U	-0.488154
7	9/12/2011	MW-6	ND<0.25 U	-0.488154
8	6/15/2012	MW-6	ND<0.25 U	-0.488154
9	5/24/2012	MW-6	ND<0.25 U	-0.488154
10	6/9/2011	MW-6	ND<0.25 U	-0.488154

Iteration i = 9

Mean of 56 measurements = 0.482679
Std Dev = 0.192689
x(i+1) = 0.25 from measurement 6/9/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.482679|/0.192689 = 1.20753
Lambda(65, 10, 0.01) = 3.53
1.20753 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.478596
Std Dev = 0.193432
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-6
Rosner Statistic R = |0.25 - 0.478596|/0.193432 = 1.18179
Lambda(65, 9, 0.01) = 3.537
1.18179 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.474655
Std Dev = 0.194063
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-6
Rosner Statistic R = |0.25 - 0.474655|/0.194063 = 1.15764
Lambda(65, 8, 0.01) = 3.544
1.15764 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.470847
Std Dev = 0.194593
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.470847|/0.194593 = 1.13492
Lambda(65, 7, 0.01) = 3.551
1.13492 < 3.551 -- No outliers detected for i = 6

Iteration i = 5

Mean of 60 measurements = 0.467167
Std Dev = 0.195032
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.467167|/0.195032 = 1.11349
Lambda(65, 6, 0.01) = 3.558
1.11349 < 3.558 -- No outliers detected for i = 5

Iteration i = 4

Mean of 61 measurements = 0.463607
Std Dev = 0.195389
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.463607|/0.195389 = 1.09324
Lambda(65, 5, 0.01) = 3.565
1.09324 < 3.565 -- No outliers detected for i = 4

Iteration i = 3

Mean of 62 measurements = 0.483548
Std Dev = 0.249413
x(i+1) = 1.7 from measurement 4/13/2015 from location MW-6
Rosner Statistic R = |1.7 - 0.483548|/0.249413 = 4.87726
Lambda(65, 4, 0.01) = 3.57
4.87726 > 3.57 -- Measurement 4/13/2015 for location MW-6 is an outlier

---

Iteration i = 2

Mean of 63 measurements = 0.504444
Std Dev = 0.297846
x(i+1) = 1.8 from measurement 1/30/2017 from location MW-6
Rosner Statistic R = |1.8 - 0.504444|/0.297846 = 4.34975
Lambda(65, 3, 0.01) = 3.58
Measurement 1/30/2017 for location MW-6 is an outlier

Iteration i = 1

Mean of 64 measurements = 0.530937
Std Dev = 0.363627
x(i+1) = 2.2 from measurement 1/27/2016 from location MW-6
Rosner Statistic R = |2.2 - 0.530937|/0.363627 = 4.59004
Lambda(65, 2, 0.01) = 3.585
Measurement 1/27/2016 for location MW-6 is an outlier

Iteration i = 0

Mean of 65 measurements = 0.738154
Std Dev = 1.70914
x(i+1) = 14 from measurement 7/24/2018 from location MW-6
Rosner Statistic R = |14 - 0.738154|/1.70914 = 7.75936
Lambda(65, 1, 0.01) = 3.59
Measurement 7/24/2018 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Toluene

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.432692

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	10/31/2011	MW-7	ND<0.25 U	-0.182692
2	7/26/2012	MW-7	ND<0.25 U	-0.182692
3	4/27/2012	MW-7	ND<0.25 U	-0.182692
4	1/13/2012	MW-7	ND<0.25 U	-0.182692
5	7/21/2011	MW-7	ND<0.25 U	-0.182692
6	4/21/2011	MW-7	ND<0.25 U	-0.182692
7	1/14/2011	MW-7	ND<0.25 U	-0.182692
8	7/29/2019	MW-7	ND<0.5 U	0.0673077
9	1/27/2015	MW-7	ND<0.5 U	0.0673077
10	7/17/2014	MW-7	ND<0.5 U	0.0673077

Iteration i = 9

Mean of 17 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/17/2014 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 10, 0.01) = 2.89
0 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 9, 0.01) = 2.924
0 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 8, 0.01) = 2.958
0 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 0.4875
Std Dev = 0.0559017
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.4875|/0.0559017 = 4.24853
Lambda(26, 7, 0.01) = 2.992
4.24853 > 2.992 -- Measurement 1/14/2011 for location MW-7 is an outlier

---

Iteration i = 5
Mean of 21 measurements = 0.47619
Std Dev = 0.0751982
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.47619|/0.0751982 = 3.00793
Lambda(26, 6, 0.01) = 3.026
Measurement 4/21/2011 for location MW-7 is an outlier

Iteration i = 4
Mean of 22 measurements = 0.465909
Std Dev = 0.0878125
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.465909|/0.0878125 = 2.45875
Lambda(26, 5, 0.01) = 3.06
Measurement 7/21/2011 for location MW-7 is an outlier

Iteration i = 3
Mean of 23 measurements = 0.456522
Std Dev = 0.0968883
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.456522|/0.0968883 = 2.13154
Lambda(26, 4, 0.01) = 3.09
Measurement 1/13/2012 for location MW-7 is an outlier

Iteration i = 2
Mean of 24 measurements = 0.447917
Std Dev = 0.103713
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.447917|/0.103713 = 1.90832
Lambda(26, 3, 0.01) = 3.11
Measurement 4/27/2012 for location MW-7 is an outlier

Iteration i = 1
Mean of 25 measurements = 0.44
Std Dev = 0.108972
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.44|/0.108972 = 1.74356
Lambda(26, 2, 0.01) = 3.14
Measurement 7/26/2012 for location MW-7 is an outlier

Iteration i = 0
Mean of 26 measurements = 0.432692
Std Dev = 0.113086
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.432692|/0.113086 = 1.61552
Lambda(26, 1, 0.01) = 3.16
Measurement 10/31/2011 for location MW-7 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.435185

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/13/2012	MW-1	ND<0.25 U	-0.185185
2	10/31/2011	MW-1	ND<0.25 U	-0.185185
3	7/26/2012	MW-1	ND<0.25 U	-0.185185
4	4/27/2012	MW-1	ND<0.25 U	-0.185185
5	1/14/2011	MW-1	ND<0.25 U	-0.185185
6	7/21/2011	MW-1	ND<0.25 U	-0.185185
7	4/21/2011	MW-1	ND<0.25 U	-0.185185
8	1/30/2019	MW-1	ND<0.5 U	0.0648148
9	7/29/2019	MW-1	ND<0.5 U	0.0648148
10	1/27/2015	MW-1	ND<0.5 U	0.0648148

Iteration i = 9

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 10, 0.01) = 2.93
0 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 9, 0.01) = 2.962
0 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/30/2019 from location MW-1
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 8, 0.01) = 2.994
0 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.488095
Std Dev = 0.0545545
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.488095|/0.0545545 = 4.36436
Lambda(27, 7, 0.01) = 3.026
4.36436 > 3.026 -- Measurement 4/21/2011 for location MW-1 is an outlier

---

Iteration i = 5
Mean of 22 measurements = 0.477273
Std Dev = 0.0735612
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.477273|/0.0735612 = 3.08957
Lambda(27, 6, 0.01) = 3.058
Measurement 7/21/2011 for location MW-1 is an outlier

Iteration i = 4
Mean of 23 measurements = 0.467391
Std Dev = 0.0860876
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.467391|/0.0860876 = 2.52523
Lambda(27, 5, 0.01) = 3.09
Measurement 1/14/2011 for location MW-1 is an outlier

Iteration i = 3
Mean of 24 measurements = 0.458333
Std Dev = 0.0951734
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.458333|/0.0951734 = 2.18899
Lambda(27, 4, 0.01) = 3.11
Measurement 4/27/2012 for location MW-1 is an outlier

Iteration i = 2
Mean of 25 measurements = 0.45
Std Dev = 0.102062
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.45|/0.102062 = 1.95959
Lambda(27, 3, 0.01) = 3.14
Measurement 7/26/2012 for location MW-1 is an outlier

Iteration i = 1
Mean of 26 measurements = 0.442308
Std Dev = 0.107417
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-1
Rosner Statistic R = |0.25 - 0.442308|/0.107417 = 1.79029
Lambda(27, 2, 0.01) = 3.16
Measurement 10/31/2011 for location MW-1 is an outlier

Iteration i = 0
Mean of 27 measurements = 0.435185
Std Dev = 0.111644
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-1
Rosner Statistic R = |0.25 - 0.435185|/0.111644 = 1.65871
Lambda(27, 1, 0.01) = 3.18
Measurement 1/13/2012 for location MW-1 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.435185

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/13/2012	MW-2	ND<0.25 U	-0.185185
2	10/31/2011	MW-2	ND<0.25 U	-0.185185
3	7/26/2012	MW-2	ND<0.25 U	-0.185185
4	4/27/2012	MW-2	ND<0.25 U	-0.185185
5	1/14/2011	MW-2	ND<0.25 U	-0.185185
6	7/21/2011	MW-2	ND<0.25 U	-0.185185
7	4/21/2011	MW-2	ND<0.25 U	-0.185185
8	1/30/2019	MW-2	ND<0.5 U	0.0648148
9	7/29/2019	MW-2	ND<0.5 U	0.0648148
10	1/27/2015	MW-2	ND<0.5 U	0.0648148

Iteration i = 9

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 10, 0.01) = 2.93
0 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 9, 0.01) = 2.962
0 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/30/2019 from location MW-2
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(27, 8, 0.01) = 2.994
0 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.488095
Std Dev = 0.0545545
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.488095|/0.0545545 = 4.36436
Lambda(27, 7, 0.01) = 3.026
4.36436 > 3.026 -- Measurement 4/21/2011 for location MW-2 is an outlier

---

Iteration i = 5
Mean of 22 measurements = 0.477273
Std Dev = 0.0735612
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.477273|/0.0735612 = 3.08957
Lambda(27, 6, 0.01) = 3.058
Measurement 7/21/2011 for location MW-2 is an outlier

Iteration i = 4
Mean of 23 measurements = 0.467391
Std Dev = 0.0860876
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.467391|/0.0860876 = 2.52523
Lambda(27, 5, 0.01) = 3.09
Measurement 1/14/2011 for location MW-2 is an outlier

Iteration i = 3
Mean of 24 measurements = 0.458333
Std Dev = 0.0951734
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.458333|/0.0951734 = 2.18899
Lambda(27, 4, 0.01) = 3.11
Measurement 4/27/2012 for location MW-2 is an outlier

Iteration i = 2
Mean of 25 measurements = 0.45
Std Dev = 0.102062
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.45|/0.102062 = 1.95959
Lambda(27, 3, 0.01) = 3.14
Measurement 7/26/2012 for location MW-2 is an outlier

Iteration i = 1
Mean of 26 measurements = 0.442308
Std Dev = 0.107417
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-2
Rosner Statistic R = |0.25 - 0.442308|/0.107417 = 1.79029
Lambda(27, 2, 0.01) = 3.16
Measurement 10/31/2011 for location MW-2 is an outlier

Iteration i = 0
Mean of 27 measurements = 0.435185
Std Dev = 0.111644
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-2
Rosner Statistic R = |0.25 - 0.435185|/0.111644 = 1.65871
Lambda(27, 1, 0.01) = 3.18
Measurement 1/13/2012 for location MW-2 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.399038

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-3	ND<1 U	0.600962
2	12/6/2011	MW-3	ND<0.25 U	-0.149038
3	8/16/2010	MW-3	ND<0.25 U	-0.149038
4	9/12/2011	MW-3	ND<0.25 U	-0.149038
5	8/8/2011	MW-3	ND<0.25 U	-0.149038
6	9/17/2010	MW-3	ND<0.25 U	-0.149038
7	7/26/2012	MW-3	ND<0.25 U	-0.149038
8	6/15/2012	MW-3	ND<0.25 U	-0.149038
9	5/24/2012	MW-3	ND<0.25 U	-0.149038
10	7/21/2011	MW-3	ND<0.25 U	-0.149038

Iteration i = 9

Mean of 43 measurements = 0.412791
Std Dev = 0.120561
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.412791|/0.120561 = 1.35028
Lambda(52, 10, 0.01) = 3.41
1.35028 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.409091
Std Dev = 0.121652
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.409091|/0.121652 = 1.30776
Lambda(52, 9, 0.01) = 3.4212
1.30776 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.405556
Std Dev = 0.122578
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.405556|/0.122578 = 1.26904
Lambda(52, 8, 0.01) = 3.4324
1.26904 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.402174
Std Dev = 0.123359
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-3
Rosner Statistic R = |0.25 - 0.402174|/0.123359 = 1.23359
Lambda(52, 7, 0.01) = 3.4436
1.23359 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 47 measurements = 0.398936
Std Dev = 0.124013
x(i+1) = 0.25 from measurement 9/17/2010 from location MW-3
Rosner Statistic R = |0.25 - 0.398936|/0.124013 = 1.20097
Lambda(52, 6, 0.01) = 3.4548
1.20097 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4

Mean of 48 measurements = 0.395833
Std Dev = 0.124556
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.395833|/0.124556 = 1.17083
Lambda(52, 5, 0.01) = 3.466
1.17083 < 3.466 -- No outliers detected for i = 4

Iteration i = 3

Mean of 49 measurements = 0.392857
Std Dev = 0.125
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.392857|/0.125 = 1.14286
Lambda(52, 4, 0.01) = 3.476
1.14286 < 3.476 -- No outliers detected for i = 3

Iteration i = 2

Mean of 50 measurements = 0.39
Std Dev = 0.125357
x(i+1) = 0.25 from measurement 8/16/2010 from location MW-3
Rosner Statistic R = |0.25 - 0.39|/0.125357 = 1.11681
Lambda(52, 3, 0.01) = 3.478
1.11681 < 3.478 -- No outliers detected for i = 2

Iteration i = 1

Mean of 51 measurements = 0.387255
Std Dev = 0.125636
x(i+1) = 0.25 from measurement 12/6/2011 from location MW-3
Rosner Statistic R = |0.25 - 0.387255|/0.125636 = 1.09248
Lambda(52, 2, 0.01) = 3.486
1.09248 < 3.486 -- No outliers detected for i = 1

Iteration i = 0

Mean of 52 measurements = 0.399038
Std Dev = 0.150649
x(i+1) = 1 from measurement 3/2/2010 from location MW-3
Rosner Statistic R = |1 - 0.399038|/0.150649 = 3.98915
Lambda(52, 1, 0.01) = 3.496
3.98915 > 3.496 -- Measurement 3/2/2010 for location MW-3 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.408654

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-4	ND<1 U	0.591346
2	12/6/2011	MW-4	ND<0.25 U	-0.158654
3	10/31/2011	MW-4	ND<0.25 U	-0.158654
4	9/12/2011	MW-4	ND<0.25 U	-0.158654
5	8/8/2011	MW-4	ND<0.25 U	-0.158654
6	11/15/2011	MW-4	ND<0.25 U	-0.158654
7	7/26/2012	MW-4	ND<0.25 U	-0.158654
8	6/15/2012	MW-4	ND<0.25 U	-0.158654
9	5/24/2012	MW-4	ND<0.25 U	-0.158654
10	7/21/2011	MW-4	ND<0.25 U	-0.158654

Iteration i = 9

Mean of 43 measurements = 0.424419
Std Dev = 0.116175
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.424419|/0.116175 = 1.50134
Lambda(52, 10, 0.01) = 3.41
1.50134 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.420455
Std Dev = 0.117789
x(i+1) = 0.25 from measurement 5/24/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.420455|/0.117789 = 1.44712
Lambda(52, 9, 0.01) = 3.4212
1.44712 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.416667
Std Dev = 0.119183
x(i+1) = 0.25 from measurement 6/15/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.416667|/0.119183 = 1.39841
Lambda(52, 8, 0.01) = 3.4324
1.39841 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.413043
Std Dev = 0.120386
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-4
Rosner Statistic R = |0.25 - 0.413043|/0.120386 = 1.35434
Lambda(52, 7, 0.01) = 3.4436
1.35434 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 47 measurements = 0.409574
Std Dev = 0.121422
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.409574|/0.121422 = 1.31421
Lambda(52, 6, 0.01) = 3.4548
1.31421 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4

Mean of 48 measurements = 0.40625
Std Dev = 0.122312
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.40625|/0.122312 = 1.27748
Lambda(52, 5, 0.01) = 3.466
1.27748 < 3.466 -- No outliers detected for i = 4

Iteration i = 3

Mean of 49 measurements = 0.403061
Std Dev = 0.123072
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.403061|/0.123072 = 1.24367
Lambda(52, 4, 0.01) = 3.476
1.24367 < 3.476 -- No outliers detected for i = 3

Iteration i = 2

Mean of 50 measurements = 0.4
Std Dev = 0.123718
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.4|/0.123718 = 1.21244
Lambda(52, 3, 0.01) = 3.478
1.21244 < 3.478 -- No outliers detected for i = 2

Iteration i = 1

Mean of 51 measurements = 0.397059
Std Dev = 0.124263
x(i+1) = 0.25 from measurement 12/6/2011 from location MW-4
Rosner Statistic R = |0.25 - 0.397059|/0.124263 = 1.18345
Lambda(52, 2, 0.01) = 3.486
1.18345 < 3.486 -- No outliers detected for i = 1

Iteration i = 0

Mean of 52 measurements = 0.408654
Std Dev = 0.14876
x(i+1) = 1 from measurement 3/2/2010 from location MW-4
Rosner Statistic R = |1 - 0.408654|/0.14876 = 3.97517
Lambda(52, 1, 0.01) = 3.496
3.97517 > 3.496 -- Measurement 3/2/2010 for location MW-4 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.426923

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-5	ND<1 U	0.573077
2	11/15/2011	MW-5	ND<0.25 U	-0.176923
3	9/12/2011	MW-5	ND<0.25 U	-0.176923
4	8/8/2011	MW-5	ND<0.25 U	-0.176923
5	7/21/2011	MW-5	ND<0.25 U	-0.176923
6	10/31/2011	MW-5	ND<0.25 U	-0.176923
7	5/16/2011	MW-5	ND<0.25 U	-0.176923
8	4/21/2011	MW-5	ND<0.25 U	-0.176923
9	3/23/2011	MW-5	ND<0.25 U	-0.176923
10	6/9/2011	MW-5	ND<0.25 U	-0.176923

Iteration i = 9

Mean of 56 measurements = 0.441964
Std Dev = 0.106505
x(i+1) = 0.25 from measurement 6/9/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.441964|/0.106505 = 1.80239
Lambda(65, 10, 0.01) = 3.53
1.80239 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.438596
Std Dev = 0.108569
x(i+1) = 0.25 from measurement 3/23/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.438596|/0.108569 = 1.73711
Lambda(65, 9, 0.01) = 3.537
1.73711 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.435345
Std Dev = 0.110425
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.435345|/0.110425 = 1.67846
Lambda(65, 8, 0.01) = 3.544
1.67846 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.432203
Std Dev = 0.112097
x(i+1) = 0.25 from measurement 5/16/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.432203|/0.112097 = 1.62541
Lambda(65, 7, 0.01) = 3.551
1.62541 < 3.551 -- No outliers detected for i = 6

Iteration i = 5

Mean of 60 measurements = 0.429167
Std Dev = 0.113605
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.429167|/0.113605 = 1.5771
Lambda(65, 6, 0.01) = 3.558
1.5771 < 3.558 -- No outliers detected for i = 5

Iteration i = 4

Mean of 61 measurements = 0.42623
Std Dev = 0.114966
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.42623|/0.114966 = 1.53288
Lambda(65, 5, 0.01) = 3.565
1.53288 < 3.565 -- No outliers detected for i = 4

Iteration i = 3

Mean of 62 measurements = 0.423387
Std Dev = 0.116196
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.423387|/0.116196 = 1.4922
Lambda(65, 4, 0.01) = 3.57
1.4922 < 3.57 -- No outliers detected for i = 3

Iteration i = 2

Mean of 63 measurements = 0.420635
Std Dev = 0.117307
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.420635|/0.117307 = 1.4546
Lambda(65, 3, 0.01) = 3.58
1.4546 < 3.58 -- No outliers detected for i = 2

Iteration i = 1

Mean of 64 measurements = 0.417969
Std Dev = 0.118311
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-5
Rosner Statistic R = |0.25 - 0.417969|/0.118311 = 1.41973
Lambda(65, 2, 0.01) = 3.585
1.41973 < 3.585 -- No outliers detected for i = 1

Iteration i = 0

Mean of 65 measurements = 0.426923
Std Dev = 0.137806
x(i+1) = 1 from measurement 3/2/2010 from location MW-5
Rosner Statistic R = |1 - 0.426923|/0.137806 = 4.15859
Lambda(65, 1, 0.01) = 3.59
4.15859 > 3.59 -- Measurement 3/2/2010 for location MW-5 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.426923

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-6	ND<1 U	0.573077
2	11/15/2011	MW-6	ND<0.25 U	-0.176923
3	9/12/2011	MW-6	ND<0.25 U	-0.176923
4	8/8/2011	MW-6	ND<0.25 U	-0.176923
5	7/21/2011	MW-6	ND<0.25 U	-0.176923
6	10/31/2011	MW-6	ND<0.25 U	-0.176923
7	5/16/2011	MW-6	ND<0.25 U	-0.176923
8	4/21/2011	MW-6	ND<0.25 U	-0.176923
9	3/23/2011	MW-6	ND<0.25 U	-0.176923
10	6/9/2011	MW-6	ND<0.25 U	-0.176923

Iteration i = 9

Mean of 56 measurements = 0.441964
Std Dev = 0.106505
x(i+1) = 0.25 from measurement 6/9/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.441964|/0.106505 = 1.80239
Lambda(65, 10, 0.01) = 3.53
1.80239 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.438596
Std Dev = 0.108569
x(i+1) = 0.25 from measurement 3/23/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.438596|/0.108569 = 1.73711
Lambda(65, 9, 0.01) = 3.537
1.73711 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.435345
Std Dev = 0.110425
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.435345|/0.110425 = 1.67846
Lambda(65, 8, 0.01) = 3.544
1.67846 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.432203
Std Dev = 0.112097
x(i+1) = 0.25 from measurement 5/16/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.432203|/0.112097 = 1.62541
Lambda(65, 7, 0.01) = 3.551
1.62541 < 3.551 -- No outliers detected for i = 6

Iteration i = 5

Mean of 60 measurements = 0.429167
Std Dev = 0.113605
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.429167|/0.113605 = 1.5771
Lambda(65, 6, 0.01) = 3.558
1.5771 < 3.558 -- No outliers detected for i = 5

Iteration i = 4

Mean of 61 measurements = 0.42623
Std Dev = 0.114966
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.42623|/0.114966 = 1.53288
Lambda(65, 5, 0.01) = 3.565
1.53288 < 3.565 -- No outliers detected for i = 4

Iteration i = 3

Mean of 62 measurements = 0.423387
Std Dev = 0.116196
x(i+1) = 0.25 from measurement 8/8/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.423387|/0.116196 = 1.4922
Lambda(65, 4, 0.01) = 3.57
1.4922 < 3.57 -- No outliers detected for i = 3

Iteration i = 2

Mean of 63 measurements = 0.420635
Std Dev = 0.117307
x(i+1) = 0.25 from measurement 9/12/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.420635|/0.117307 = 1.4546
Lambda(65, 3, 0.01) = 3.58
1.4546 < 3.58 -- No outliers detected for i = 2

Iteration i = 1

Mean of 64 measurements = 0.417969
Std Dev = 0.118311
x(i+1) = 0.25 from measurement 11/15/2011 from location MW-6
Rosner Statistic R = |0.25 - 0.417969|/0.118311 = 1.41973
Lambda(65, 2, 0.01) = 3.585
1.41973 < 3.585 -- No outliers detected for i = 1

Iteration i = 0

Mean of 65 measurements = 0.426923
Std Dev = 0.137806
x(i+1) = 1 from measurement 3/2/2010 from location MW-6
Rosner Statistic R = |1 - 0.426923|/0.137806 = 4.15859
Lambda(65, 1, 0.01) = 3.59
4.15859 > 3.59 -- Measurement 3/2/2010 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Ethylbenzene

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.432692

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	10/31/2011	MW-7	ND<0.25 U	-0.182692
2	7/26/2012	MW-7	ND<0.25 U	-0.182692
3	4/27/2012	MW-7	ND<0.25 U	-0.182692
4	1/13/2012	MW-7	ND<0.25 U	-0.182692
5	7/21/2011	MW-7	ND<0.25 U	-0.182692
6	4/21/2011	MW-7	ND<0.25 U	-0.182692
7	1/14/2011	MW-7	ND<0.25 U	-0.182692
8	7/29/2019	MW-7	ND<0.5 U	0.0673077
9	1/27/2015	MW-7	ND<0.5 U	0.0673077
10	7/17/2014	MW-7	ND<0.5 U	0.0673077

Iteration i = 9

Mean of 17 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/17/2014 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 10, 0.01) = 2.89
0 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 9, 0.01) = 2.924
0 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 0.5
Std Dev = 0
x(i+1) = 0.5 from measurement 7/29/2019 from location MW-7
Rosner Statistic R = |0.5 - 0.5|/0 = 0
Lambda(26, 8, 0.01) = 2.958
0 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 0.4875
Std Dev = 0.0559017
x(i+1) = 0.25 from measurement 1/14/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.4875|/0.0559017 = 4.24853
Lambda(26, 7, 0.01) = 2.992
4.24853 > 2.992 -- Measurement 1/14/2011 for location MW-7 is an outlier

---

Iteration i = 5

Mean of 21 measurements = 0.47619
Std Dev = 0.0751982
x(i+1) = 0.25 from measurement 4/21/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.47619|/0.0751982 = 3.00793
Lambda(26, 6, 0.01) = 3.026

Measurement 4/21/2011 for location MW-7 is an outlier

Iteration i = 4

Mean of 22 measurements = 0.465909
Std Dev = 0.0878125
x(i+1) = 0.25 from measurement 7/21/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.465909|/0.0878125 = 2.45875
Lambda(26, 5, 0.01) = 3.06

Measurement 7/21/2011 for location MW-7 is an outlier

Iteration i = 3

Mean of 23 measurements = 0.456522
Std Dev = 0.0968883
x(i+1) = 0.25 from measurement 1/13/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.456522|/0.0968883 = 2.13154
Lambda(26, 4, 0.01) = 3.09

Measurement 1/13/2012 for location MW-7 is an outlier

Iteration i = 2

Mean of 24 measurements = 0.447917
Std Dev = 0.103713
x(i+1) = 0.25 from measurement 4/27/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.447917|/0.103713 = 1.90832
Lambda(26, 3, 0.01) = 3.11

Measurement 4/27/2012 for location MW-7 is an outlier

Iteration i = 1

Mean of 25 measurements = 0.44
Std Dev = 0.108972
x(i+1) = 0.25 from measurement 7/26/2012 from location MW-7
Rosner Statistic R = |0.25 - 0.44|/0.108972 = 1.74356
Lambda(26, 2, 0.01) = 3.14

Measurement 7/26/2012 for location MW-7 is an outlier

Iteration i = 0

Mean of 26 measurements = 0.432692
Std Dev = 0.113086
x(i+1) = 0.25 from measurement 10/31/2011 from location MW-7
Rosner Statistic R = |0.25 - 0.432692|/0.113086 = 1.61552
Lambda(26, 1, 0.01) = 3.16

Measurement 10/31/2011 for location MW-7 is an outlier

Rosner's Test for Outliers

Parameter: Total Xylenes
Location: MW-1

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Data set mean = 0.805556

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	3/4/2010	MW-1	ND<1.5 U	0.694444
2	10/13/2010	MW-1	ND<1.5 U	0.694444
3	7/26/2010	MW-1	ND<1.5 U	0.694444
4	4/30/2010	MW-1	ND<1.5 U	0.694444
5	1/29/2013	MW-1	ND<0.5 U	-0.305556
6	10/18/2012	MW-1	ND<0.5 U	-0.305556
7	7/26/2016	MW-1	ND<0.5 U	-0.305556
8	1/27/2016	MW-1	ND<0.5 U	-0.305556
9	7/21/2015	MW-1	ND<0.5 U	-0.305556
10	1/30/2017	MW-1	ND<0.5 U	-0.305556

Iteration i = 9

Mean of 18 measurements = 0.736111
Std Dev = 0.200591
x(i+1) = 0.5 from measurement 1/30/2017 from location MW-1
Rosner Statistic R = |0.5 - 0.736111|/0.200591 = 1.17707
Lambda(27, 10, 0.01) = 2.93
1.17707 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.723684
Std Dev = 0.202326
x(i+1) = 0.5 from measurement 7/21/2015 from location MW-1
Rosner Statistic R = |0.5 - 0.723684|/0.202326 = 1.10557
Lambda(27, 9, 0.01) = 2.962
1.10557 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.7125
Std Dev = 0.203182
x(i+1) = 0.5 from measurement 1/27/2016 from location MW-1
Rosner Statistic R = |0.5 - 0.7125|/0.203182 = 1.04586
Lambda(27, 8, 0.01) = 2.994
1.04586 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.702381
Std Dev = 0.203394
x(i+1) = 0.5 from measurement 7/26/2016 from location MW-1
Rosner Statistic R = |0.5 - 0.702381|/0.203394 = 0.99502
Lambda(27, 7, 0.01) = 3.026
0.99502 < 3.026 -- No outliers detected for i = 6

Iteration i = 5

Mean of 22 measurements = 0.693182
Std Dev = 0.203128
x(i+1) = 0.5 from measurement 10/18/2012 from location MW-1
Rosner Statistic R = |0.5 - 0.693182|/0.203128 = 0.951037
Lambda(27, 6, 0.01) = 3.058
0.951037 < 3.058 -- No outliers detected for i = 5

Iteration i = 4

Mean of 23 measurements = 0.684783
Std Dev = 0.202504
x(i+1) = 0.5 from measurement 1/29/2013 from location MW-1
Rosner Statistic R = |0.5 - 0.684783|/0.202504 = 0.912488
Lambda(27, 5, 0.01) = 3.09
0.912488 < 3.09 -- No outliers detected for i = 4

Iteration i = 3

Mean of 24 measurements = 0.71875
Std Dev = 0.258681
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-1
Rosner Statistic R = |1.5 - 0.71875|/0.258681 = 3.02013
Lambda(27, 4, 0.01) = 3.11
3.02013 < 3.11 -- No outliers detected for i = 3

Iteration i = 2

Mean of 25 measurements = 0.75
Std Dev = 0.29756
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-1
Rosner Statistic R = |1.5 - 0.75|/0.29756 = 2.5205
Lambda(27, 3, 0.01) = 3.14
2.5205 < 3.14 -- No outliers detected for i = 2

Iteration i = 1

Mean of 26 measurements = 0.778846
Std Dev = 0.32655
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-1
Rosner Statistic R = |1.5 - 0.778846|/0.32655 = 2.20841
Lambda(27, 2, 0.01) = 3.16
2.20841 < 3.16 -- No outliers detected for i = 1

Iteration i = 0

Mean of 27 measurements = 0.805556
Std Dev = 0.348991
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-1
Rosner Statistic R = |1.5 - 0.805556|/0.348991 = 1.98986
Lambda(27, 1, 0.01) = 3.18
1.98986 < 3.18 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Total Xylenes

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.805556

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	3/4/2010	MW-2	ND<1.5 U	0.694444
2	10/13/2010	MW-2	ND<1.5 U	0.694444
3	7/26/2010	MW-2	ND<1.5 U	0.694444
4	4/30/2010	MW-2	ND<1.5 U	0.694444
5	1/29/2013	MW-2	ND<0.5 U	-0.305556
6	10/18/2012	MW-2	ND<0.5 U	-0.305556
7	7/26/2016	MW-2	ND<0.5 U	-0.305556
8	1/27/2016	MW-2	ND<0.5 U	-0.305556
9	7/21/2015	MW-2	ND<0.5 U	-0.305556
10	1/30/2017	MW-2	ND<0.5 U	-0.305556

Iteration i = 9

Mean of 18 measurements = 0.736111
Std Dev = 0.200591
x(i+1) = 0.5 from measurement 1/30/2017 from location MW-2
Rosner Statistic R = |0.5 - 0.736111|/0.200591 = 1.17707
Lambda(27, 10, 0.01) = 2.93
1.17707 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 0.723684
Std Dev = 0.202326
x(i+1) = 0.5 from measurement 7/21/2015 from location MW-2
Rosner Statistic R = |0.5 - 0.723684|/0.202326 = 1.10557
Lambda(27, 9, 0.01) = 2.962
1.10557 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 0.7125
Std Dev = 0.203182
x(i+1) = 0.5 from measurement 1/27/2016 from location MW-2
Rosner Statistic R = |0.5 - 0.7125|/0.203182 = 1.04586
Lambda(27, 8, 0.01) = 2.994
1.04586 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 0.702381
Std Dev = 0.203394
x(i+1) = 0.5 from measurement 7/26/2016 from location MW-2
Rosner Statistic R = |0.5 - 0.702381|/0.203394 = 0.99502
Lambda(27, 7, 0.01) = 3.026
0.99502 < 3.026 -- No outliers detected for i = 6

Iteration i = 5
Mean of 22 measurements = 0.693182
Std Dev = 0.203128
x(i+1) = 0.5 from measurement 10/18/2012 from location MW-2
Rosner Statistic R = |0.5 - 0.693182|/0.203128 = 0.951037
Lambda(27, 6, 0.01) = 3.058
0.951037 < 3.058 -- No outliers detected for i = 5

Iteration i = 4
Mean of 23 measurements = 0.684783
Std Dev = 0.202504
x(i+1) = 0.5 from measurement 1/29/2013 from location MW-2
Rosner Statistic R = |0.5 - 0.684783|/0.202504 = 0.912488
Lambda(27, 5, 0.01) = 3.09
0.912488 < 3.09 -- No outliers detected for i = 4

Iteration i = 3
Mean of 24 measurements = 0.71875
Std Dev = 0.258681
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-2
Rosner Statistic R = |1.5 - 0.71875|/0.258681 = 3.02013
Lambda(27, 4, 0.01) = 3.11
3.02013 < 3.11 -- No outliers detected for i = 3

Iteration i = 2
Mean of 25 measurements = 0.75
Std Dev = 0.29756
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-2
Rosner Statistic R = |1.5 - 0.75|/0.29756 = 2.5205
Lambda(27, 3, 0.01) = 3.14
2.5205 < 3.14 -- No outliers detected for i = 2

Iteration i = 1
Mean of 26 measurements = 0.778846
Std Dev = 0.32655
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-2
Rosner Statistic R = |1.5 - 0.778846|/0.32655 = 2.20841
Lambda(27, 2, 0.01) = 3.16
2.20841 < 3.16 -- No outliers detected for i = 1

Iteration i = 0
Mean of 27 measurements = 0.805556
Std Dev = 0.348991
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-2
Rosner Statistic R = |1.5 - 0.805556|/0.348991 = 1.98986
Lambda(27, 1, 0.01) = 3.18
1.98986 < 3.18 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Total Xylenes
Location: MW-3

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Data set mean = 0.764423

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-3	ND<2 U	1.23558
2	10/13/2010	MW-3	ND<1.5 U	0.735577
3	4/30/2010	MW-3	ND<1.5 U	0.735577
4	7/26/2010	MW-3	ND<1.5 U	0.735577
5	3/4/2010	MW-3	ND<1.5 U	0.735577
6	12/5/2012	MW-3	ND<0.5 U	-0.264423
7	11/14/2012	MW-3	ND<0.5 U	-0.264423
8	1/27/2016	MW-3	ND<0.5 U	-0.264423
9	6/7/2010	MW-3	ND<0.5 U	-0.264423
10	1/30/2017	MW-3	ND<0.5 U	-0.264423

Iteration i = 9

Mean of 43 measurements = 0.69186
Std Dev = 0.162177
x(i+1) = 0.5 from measurement 1/30/2017 from location MW-3
Rosner Statistic R = |0.5 - 0.69186|/0.162177 = 1.18303
Lambda(52, 10, 0.01) = 3.41
1.18303 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.6875
Std Dev = 0.162869
x(i+1) = 0.5 from measurement 6/7/2010 from location MW-3
Rosner Statistic R = |0.5 - 0.6875|/0.162869 = 1.15124
Lambda(52, 9, 0.01) = 3.4212
1.15124 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.683333
Std Dev = 0.163415
x(i+1) = 0.5 from measurement 1/27/2016 from location MW-3
Rosner Statistic R = |0.5 - 0.683333|/0.163415 = 1.12189
Lambda(52, 8, 0.01) = 3.4324
1.12189 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.679348
Std Dev = 0.163835
x(i+1) = 0.5 from measurement 11/14/2012 from location MW-3
Rosner Statistic R = |0.5 - 0.679348|/0.163835 = 1.09469
Lambda(52, 7, 0.01) = 3.4436
1.09469 < 3.4436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 47 measurements = 0.675532
Std Dev = 0.164142
x(i+1) = 0.5 from measurement 12/5/2012 from location MW-3
Rosner Statistic R = |0.5 - 0.675532|/0.164142 = 1.06939
Lambda(52, 6, 0.01) = 3.4548
1.06939 < 3.4548 -- No outliers detected for i = 5

Iteration i = 4

Mean of 48 measurements = 0.692708
Std Dev = 0.201323
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-3
Rosner Statistic R = |1.5 - 0.692708|/0.201323 = 4.00994
Lambda(52, 5, 0.01) = 3.466
4.00994 > 3.466 -- Measurement 3/4/2010 for location MW-3 is an outlier

---

Iteration i = 3

Mean of 49 measurements = 0.709184
Std Dev = 0.230189
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-3
Rosner Statistic R = |1.5 - 0.709184|/0.230189 = 3.43551
Lambda(52, 4, 0.01) = 3.476
Measurement 7/26/2010 for location MW-3 is an outlier

Iteration i = 2

Mean of 50 measurements = 0.725
Std Dev = 0.253798
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-3
Rosner Statistic R = |1.5 - 0.725|/0.253798 = 3.05361
Lambda(52, 3, 0.01) = 3.478
Measurement 4/30/2010 for location MW-3 is an outlier

Iteration i = 1

Mean of 51 measurements = 0.740196
Std Dev = 0.273682
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-3
Rosner Statistic R = |1.5 - 0.740196|/0.273682 = 2.77623
Lambda(52, 2, 0.01) = 3.486
Measurement 10/13/2010 for location MW-3 is an outlier

Iteration i = 0

Mean of 52 measurements = 0.764423
Std Dev = 0.32242
x(i+1) = 2 from measurement 3/2/2010 from location MW-3
Rosner Statistic R = |2 - 0.764423|/0.32242 = 3.8322
Lambda(52, 1, 0.01) = 3.496
Measurement 3/2/2010 for location MW-3 is an outlier

Rosner's Test for Outliers

Parameter: Total Xylenes

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.793269

10 most extreme of 52 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-4	ND<2 U	1.20673
2	10/13/2010	MW-4	ND<1.5 U	0.706731
3	8/16/2010	MW-4	ND<1.5 U	0.706731
4	7/26/2010	MW-4	ND<1.5 U	0.706731
5	3/4/2010	MW-4	ND<1.5 U	0.706731
6	9/17/2010	MW-4	ND<1.5 U	0.706731
7	4/30/2010	MW-4	ND<1.5 U	0.706731
8	1/27/2016	MW-4	ND<0.5 U	-0.293269
9	6/7/2010	MW-4	ND<0.5 U	-0.293269
10	1/30/2017	MW-4	ND<0.5 U	-0.293269

Iteration i = 9

Mean of 43 measurements = 0.680233
Std Dev = 0.166597
x(i+1) = 0.5 from measurement 1/30/2017 from location MW-4
Rosner Statistic R = |0.5 - 0.680233|/0.166597 = 1.08184
Lambda(52, 10, 0.01) = 3.41
1.08184 < 3.41 -- No outliers detected for i = 9

Iteration i = 8

Mean of 44 measurements = 0.676136
Std Dev = 0.166876
x(i+1) = 0.5 from measurement 6/7/2010 from location MW-4
Rosner Statistic R = |0.5 - 0.676136|/0.166876 = 1.05549
Lambda(52, 9, 0.01) = 3.4212
1.05549 < 3.4212 -- No outliers detected for i = 8

Iteration i = 7

Mean of 45 measurements = 0.672222
Std Dev = 0.167045
x(i+1) = 0.5 from measurement 1/27/2016 from location MW-4
Rosner Statistic R = |0.5 - 0.672222|/0.167045 = 1.03099
Lambda(52, 8, 0.01) = 3.4324
1.03099 < 3.4324 -- No outliers detected for i = 7

Iteration i = 6

Mean of 46 measurements = 0.690217
Std Dev = 0.205378
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-4
Rosner Statistic R = |1.5 - 0.690217|/0.205378 = 3.9429
Lambda(52, 7, 0.01) = 3.4436
3.9429 > 3.4436 -- Measurement 4/30/2010 for location MW-4 is an outlier

---

Iteration i = 5

Mean of 47 measurements = 0.707447
Std Dev = 0.234979
x(i+1) = 1.5 from measurement 9/17/2010 from location MW-4
Rosner Statistic R = |1.5 - 0.707447|/0.234979 = 3.37287
Lambda(52, 6, 0.01) = 3.4548

Measurement 9/17/2010 for location MW-4 is an outlier

Iteration i = 4

Mean of 48 measurements = 0.723958
Std Dev = 0.259088
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-4
Rosner Statistic R = |1.5 - 0.723958|/0.259088 = 2.99528
Lambda(52, 5, 0.01) = 3.466

Measurement 3/4/2010 for location MW-4 is an outlier

Iteration i = 3

Mean of 49 measurements = 0.739796
Std Dev = 0.279318
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-4
Rosner Statistic R = |1.5 - 0.739796|/0.279318 = 2.72164
Lambda(52, 4, 0.01) = 3.476

Measurement 7/26/2010 for location MW-4 is an outlier

Iteration i = 2

Mean of 50 measurements = 0.755
Std Dev = 0.296622
x(i+1) = 1.5 from measurement 8/16/2010 from location MW-4
Rosner Statistic R = |1.5 - 0.755|/0.296622 = 2.51161
Lambda(52, 3, 0.01) = 3.478

Measurement 8/16/2010 for location MW-4 is an outlier

Iteration i = 1

Mean of 51 measurements = 0.769608
Std Dev = 0.311621
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-4
Rosner Statistic R = |1.5 - 0.769608|/0.311621 = 2.34385
Lambda(52, 2, 0.01) = 3.486

Measurement 10/13/2010 for location MW-4 is an outlier

Iteration i = 0

Mean of 52 measurements = 0.793269
Std Dev = 0.352586
x(i+1) = 2 from measurement 3/2/2010 from location MW-4
Rosner Statistic R = |2 - 0.793269|/0.352586 = 3.42252
Lambda(52, 1, 0.01) = 3.496

Measurement 3/2/2010 for location MW-4 is an outlier

Rosner's Test for Outliers

Parameter: Total Xylenes

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.773077

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	3/2/2010	MW-5	ND<2 U	1.22692
2	10/13/2010	MW-5	ND<1.5 U	0.726923
3	8/16/2010	MW-5	ND<1.5 U	0.726923
4	7/26/2010	MW-5	ND<1.5 U	0.726923
5	3/4/2010	MW-5	ND<1.5 U	0.726923
6	9/17/2010	MW-5	ND<1.5 U	0.726923
7	4/30/2010	MW-5	ND<1.5 U	0.726923
8	7/17/2014	MW-5	ND<0.5 U	-0.273077
9	4/13/2015	MW-5	ND<0.5 U	-0.273077
10	1/27/2015	MW-5	ND<0.5 U	-0.273077

Iteration i = 9

Mean of 56 measurements = 0.683036
Std Dev = 0.187635
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-5
Rosner Statistic R = |0.5 - 0.683036|/0.187635 = 0.975487
Lambda(65, 10, 0.01) = 3.53
0.975487 < 3.53 -- No outliers detected for i = 9

Iteration i = 8

Mean of 57 measurements = 0.679825
Std Dev = 0.187526
x(i+1) = 0.5 from measurement 4/13/2015 from location MW-5
Rosner Statistic R = |0.5 - 0.679825|/0.187526 = 0.958931
Lambda(65, 9, 0.01) = 3.537
0.958931 < 3.537 -- No outliers detected for i = 8

Iteration i = 7

Mean of 58 measurements = 0.676724
Std Dev = 0.187368
x(i+1) = 0.5 from measurement 7/17/2014 from location MW-5
Rosner Statistic R = |0.5 - 0.676724|/0.187368 = 0.943195
Lambda(65, 8, 0.01) = 3.544
0.943195 < 3.544 -- No outliers detected for i = 7

Iteration i = 6

Mean of 59 measurements = 0.690678
Std Dev = 0.214451
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-5
Rosner Statistic R = |1.5 - 0.690678|/0.214451 = 3.77393
Lambda(65, 7, 0.01) = 3.551
3.77393 > 3.551 -- Measurement 4/30/2010 for location MW-5 is an outlier

---

Iteration i = 5
Mean of 60 measurements = 0.704167
Std Dev = 0.23691
x(i+1) = 1.5 from measurement 9/17/2010 from location MW-5
Rosner Statistic R = |1.5 - 0.704167|/0.23691 = 3.35922
Lambda(65, 6, 0.01) = 3.558
Measurement 9/17/2010 for location MW-5 is an outlier

Iteration i = 4
Mean of 61 measurements = 0.717213
Std Dev = 0.256074
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-5
Rosner Statistic R = |1.5 - 0.717213|/0.256074 = 3.05688
Lambda(65, 5, 0.01) = 3.565
Measurement 3/4/2010 for location MW-5 is an outlier

Iteration i = 3
Mean of 62 measurements = 0.729839
Std Dev = 0.272731
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-5
Rosner Statistic R = |1.5 - 0.729839|/0.272731 = 2.82389
Lambda(65, 4, 0.01) = 3.57
Measurement 7/26/2010 for location MW-5 is an outlier

Iteration i = 2
Mean of 63 measurements = 0.742063
Std Dev = 0.287397
x(i+1) = 1.5 from measurement 8/16/2010 from location MW-5
Rosner Statistic R = |1.5 - 0.742063|/0.287397 = 2.63724
Lambda(65, 3, 0.01) = 3.58
Measurement 8/16/2010 for location MW-5 is an outlier

Iteration i = 1
Mean of 64 measurements = 0.753906
Std Dev = 0.300437
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-5
Rosner Statistic R = |1.5 - 0.753906|/0.300437 = 2.48336
Lambda(65, 2, 0.01) = 3.585
Measurement 10/13/2010 for location MW-5 is an outlier

Iteration i = 0
Mean of 65 measurements = 0.773077
Std Dev = 0.335768
x(i+1) = 2 from measurement 3/2/2010 from location MW-5
Rosner Statistic R = |2 - 0.773077|/0.335768 = 3.65408
Lambda(65, 1, 0.01) = 3.59
Measurement 3/2/2010 for location MW-5 is an outlier

Rosner's Test for Outliers

Parameter: Total Xylenes

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.927692

10 most extreme of 65 measurements

by order of magnitude difference from the mean

1	4/21/2011	MW-6	7.9	6.97231
2	7/24/2018	MW-6	2.8	1.87231
3	3/2/2010	MW-6	ND<2 U	1.07231
4	3/23/2011	MW-6	1.6	0.672308
5	8/16/2010	MW-6	ND<1.5 U	0.572308
6	9/17/2010	MW-6	ND<1.5 U	0.572308
7	4/30/2010	MW-6	ND<1.5 U	0.572308
8	7/26/2010	MW-6	ND<1.5 U	0.572308
9	10/13/2010	MW-6	ND<1.5 U	0.572308
10	3/4/2010	MW-6	ND<1.5 U	0.572308

Iteration i = 9

Mean of 56 measurements = 0.6875
Std Dev = 0.219762
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-6
Rosner Statistic R = |1.5 - 0.6875|/0.219762 = 3.69718
Lambda(65, 10, 0.01) = 3.53
3.69718 > 3.53 -- Measurement 3/4/2010 for location MW-6 is an outlier

---

Iteration i = 8

Mean of 57 measurements = 0.701754
Std Dev = 0.242929
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-6
Rosner Statistic R = |1.5 - 0.701754|/0.242929 = 3.28592
Lambda(65, 9, 0.01) = 3.537
Measurement 10/13/2010 for location MW-6 is an outlier

Iteration i = 7

Mean of 58 measurements = 0.715517
Std Dev = 0.262613
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-6
Rosner Statistic R = |1.5 - 0.715517|/0.262613 = 2.98722
Lambda(65, 8, 0.01) = 3.544
Measurement 7/26/2010 for location MW-6 is an outlier

Iteration i = 6

Mean of 59 measurements = 0.728814
Std Dev = 0.279655
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-6
Rosner Statistic R = |1.5 - 0.728814|/0.279655 = 2.75763
Lambda(65, 7, 0.01) = 3.551
Measurement 4/30/2010 for location MW-6 is an outlier

Iteration i = 5

Mean of 60 measurements = 0.741667
Std Dev = 0.294608
x(i+1) = 1.5 from measurement 9/17/2010 from location MW-6
Rosner Statistic R = |1.5 - 0.741667|/0.294608 = 2.57404
Lambda(65, 6, 0.01) = 3.558
Measurement 9/17/2010 for location MW-6 is an outlier

Iteration i = 4

Mean of 61 measurements = 0.754098
Std Dev = 0.307855
x(i+1) = 1.5 from measurement 8/16/2010 from location MW-6
Rosner Statistic R = |1.5 - 0.754098|/0.307855 = 2.4229
Lambda(65, 5, 0.01) = 3.565
Measurement 8/16/2010 for location MW-6 is an outlier

Iteration i = 3

Mean of 62 measurements = 0.767742
Std Dev = 0.32367
x(i+1) = 1.6 from measurement 3/23/2011 from location MW-6
Rosner Statistic R = |1.6 - 0.767742|/0.32367 = 2.57132
Lambda(65, 4, 0.01) = 3.57
Measurement 3/23/2011 for location MW-6 is an outlier

Iteration i = 2

Mean of 63 measurements = 0.787302
Std Dev = 0.356616
x(i+1) = 2 from measurement 3/2/2010 from location MW-6
Rosner Statistic R = |2 - 0.787302|/0.356616 = 3.40057
Lambda(65, 3, 0.01) = 3.58
Measurement 3/2/2010 for location MW-6 is an outlier

Iteration i = 1

Mean of 64 measurements = 0.81875
Std Dev = 0.434111
x(i+1) = 2.8 from measurement 7/24/2018 from location MW-6
Rosner Statistic R = |2.8 - 0.81875|/0.434111 = 4.56392
Lambda(65, 2, 0.01) = 3.585
Measurement 7/24/2018 for location MW-6 is an outlier

Iteration i = 0

Mean of 65 measurements = 0.927692
Std Dev = 0.978241
x(i+1) = 7.9 from measurement 4/21/2011 from location MW-6
Rosner Statistic R = |7.9 - 0.927692|/0.978241 = 7.12739
Lambda(65, 1, 0.01) = 3.59
Measurement 4/21/2011 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Total Xylenes
Location: MW-7
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Data set mean = 0.817308

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	10/13/2010	MW-7	ND<1.5 U	0.682692
2	7/26/2010	MW-7	ND<1.5 U	0.682692
3	4/30/2010	MW-7	ND<1.5 U	0.682692
4	3/4/2010	MW-7	ND<1.5 U	0.682692
5	10/18/2012	MW-7	ND<0.5 U	-0.317308
6	1/30/2017	MW-7	ND<0.5 U	-0.317308
7	7/26/2016	MW-7	ND<0.5 U	-0.317308
8	7/21/2015	MW-7	ND<0.5 U	-0.317308
9	1/29/2013	MW-7	ND<0.5 U	-0.317308
10	1/27/2015	MW-7	ND<0.5 U	-0.317308

Iteration i = 9

Mean of 17 measurements = 0.75
Std Dev = 0.197642
x(i+1) = 0.5 from measurement 1/27/2015 from location MW-7
Rosner Statistic R = |0.5 - 0.75|/0.197642 = 1.26491
Lambda(26, 10, 0.01) = 2.89
1.26491 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 0.736111
Std Dev = 0.200591
x(i+1) = 0.5 from measurement 1/29/2013 from location MW-7
Rosner Statistic R = |0.5 - 0.736111|/0.200591 = 1.17707
Lambda(26, 9, 0.01) = 2.924
1.17707 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 0.723684
Std Dev = 0.202326
x(i+1) = 0.5 from measurement 7/21/2015 from location MW-7
Rosner Statistic R = |0.5 - 0.723684|/0.202326 = 1.10557
Lambda(26, 8, 0.01) = 2.958
1.10557 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 0.7125
Std Dev = 0.203182
x(i+1) = 0.5 from measurement 7/26/2016 from location MW-7
Rosner Statistic R = |0.5 - 0.7125|/0.203182 = 1.04586
Lambda(26, 7, 0.01) = 2.992
1.04586 < 2.992 -- No outliers detected for i = 6

Iteration i = 5

Mean of 21 measurements = 0.702381
Std Dev = 0.203394
x(i+1) = 0.5 from measurement 1/30/2017 from location MW-7
Rosner Statistic R = |0.5 - 0.702381|/0.203394 = 0.99502
Lambda(26, 6, 0.01) = 3.026
0.99502 < 3.026 -- No outliers detected for i = 5

Iteration i = 4

Mean of 22 measurements = 0.693182
Std Dev = 0.203128
x(i+1) = 0.5 from measurement 10/18/2012 from location MW-7
Rosner Statistic R = |0.5 - 0.693182|/0.203128 = 0.951037
Lambda(26, 5, 0.01) = 3.06
0.951037 < 3.06 -- No outliers detected for i = 4

Iteration i = 3

Mean of 23 measurements = 0.728261
Std Dev = 0.260169
x(i+1) = 1.5 from measurement 3/4/2010 from location MW-7
Rosner Statistic R = |1.5 - 0.728261|/0.260169 = 2.9663
Lambda(26, 4, 0.01) = 3.09
2.9663 < 3.09 -- No outliers detected for i = 3

Iteration i = 2

Mean of 24 measurements = 0.760417
Std Dev = 0.299267
x(i+1) = 1.5 from measurement 4/30/2010 from location MW-7
Rosner Statistic R = |1.5 - 0.760417|/0.299267 = 2.47132
Lambda(26, 3, 0.01) = 3.11
2.47132 < 3.11 -- No outliers detected for i = 2

Iteration i = 1

Mean of 25 measurements = 0.79
Std Dev = 0.328189
x(i+1) = 1.5 from measurement 7/26/2010 from location MW-7
Rosner Statistic R = |1.5 - 0.79|/0.328189 = 2.16338
Lambda(26, 2, 0.01) = 3.14
2.16338 < 3.14 -- No outliers detected for i = 1

Iteration i = 0

Mean of 26 measurements = 0.817308
Std Dev = 0.350412
x(i+1) = 1.5 from measurement 10/13/2010 from location MW-7
Rosner Statistic R = |1.5 - 0.817308|/0.350412 = 1.94826
Lambda(26, 1, 0.01) = 3.16
1.94826 < 3.16 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 323.444

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-1	1280	956.556
2	7/21/2015	MW-1	646	322.556
3	10/18/2012	MW-1	194	-129.444
4	3/4/2010	MW-1	214	-109.444
5	7/26/2012	MW-1	219	-104.444
6	7/24/2017	MW-1	225	-98.4444
7	1/31/2014	MW-1	227	-96.4444
8	7/29/2013	MW-1	227	-96.4444
9	4/30/2010	MW-1	233	-90.4444
10	7/17/2014	MW-1	241	-82.4444

Iteration i = 9

Mean of 18 measurements = 292.667
Std Dev = 43.8809
x(i+1) = 241 from measurement 7/17/2014 from location MW-1
Rosner Statistic R = |241 - 292.667|/43.8809 = 1.17743
Lambda(27, 10, 0.01) = 2.93
1.17743 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 289.526
Std Dev = 44.7876
x(i+1) = 233 from measurement 4/30/2010 from location MW-1
Rosner Statistic R = |233 - 289.526|/44.7876 = 1.2621
Lambda(27, 9, 0.01) = 2.962
1.2621 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 286.4
Std Dev = 45.7803
x(i+1) = 227 from measurement 7/29/2013 from location MW-1
Rosner Statistic R = |227 - 286.4|/45.7803 = 1.2975
Lambda(27, 8, 0.01) = 2.994
1.2975 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 283.571
Std Dev = 46.4657
x(i+1) = 227 from measurement 1/31/2014 from location MW-1
Rosner Statistic R = |227 - 283.571|/46.4657 = 1.21749
Lambda(27, 7, 0.01) = 3.026
1.21749 < 3.026 -- No outliers detected for i = 6

Iteration i = 5

Mean of 22 measurements = 280.909
Std Dev = 47.0338
x(i+1) = 225 from measurement 7/24/2017 from location MW-1
Rosner Statistic R = |225 - 280.909|/47.0338 = 1.1887
Lambda(27, 6, 0.01) = 3.058
1.1887 < 3.058 -- No outliers detected for i = 5

Iteration i = 4

Mean of 23 measurements = 278.217
Std Dev = 47.7312
x(i+1) = 219 from measurement 7/26/2012 from location MW-1
Rosner Statistic R = |219 - 278.217|/47.7312 = 1.24064
Lambda(27, 5, 0.01) = 3.09
1.24064 < 3.09 -- No outliers detected for i = 4

Iteration i = 3

Mean of 24 measurements = 275.542
Std Dev = 48.4875
x(i+1) = 214 from measurement 3/4/2010 from location MW-1
Rosner Statistic R = |214 - 275.542|/48.4875 = 1.26923
Lambda(27, 4, 0.01) = 3.11
1.26923 < 3.11 -- No outliers detected for i = 3

Iteration i = 2

Mean of 25 measurements = 272.28
Std Dev = 50.1901
x(i+1) = 194 from measurement 10/18/2012 from location MW-1
Rosner Statistic R = |194 - 272.28|/50.1901 = 1.55967
Lambda(27, 3, 0.01) = 3.14
1.55967 < 3.14 -- No outliers detected for i = 2

Iteration i = 1

Mean of 26 measurements = 286.654
Std Dev = 88.2614
x(i+1) = 646 from measurement 7/21/2015 from location MW-1
Rosner Statistic R = |646 - 286.654|/88.2614 = 4.07138
Lambda(27, 2, 0.01) = 3.16
4.07138 > 3.16 -- Measurement 7/21/2015 for location MW-1 is an outlier

---

Iteration i = 0

Mean of 27 measurements = 323.444
Std Dev = 209.848
x(i+1) = 1280 from measurement 1/30/2019 from location MW-1
Rosner Statistic R = |1280 - 323.444|/209.848 = 4.55832
Lambda(27, 1, 0.01) = 3.18
Measurement 1/30/2019 for location MW-1 is an outlier

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 308.593

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-2	1220	911.407
2	7/21/2011	MW-2	1	-307.593
3	10/18/2012	MW-2	171	-137.593
4	7/29/2013	MW-2	209	-99.5926
5	7/24/2018	MW-2	406	97.4074
6	11/25/2009	MW-2	403	94.4074
7	1/29/2018	MW-2	402	93.4074
8	1/31/2014	MW-2	219	-89.5926
9	7/24/2017	MW-2	228	-80.5926
10	7/26/2012	MW-2	236	-72.5926

Iteration i = 9

Mean of 18 measurements = 281.833
Std Dev = 41.4278
x(i+1) = 236 from measurement 7/26/2012 from location MW-2
Rosner Statistic R = |236 - 281.833|/41.4278 = 1.10634
Lambda(27, 10, 0.01) = 2.93
1.10634 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 279
Std Dev = 42.1123
x(i+1) = 228 from measurement 7/24/2017 from location MW-2
Rosner Statistic R = |228 - 279|/42.1123 = 1.21105
Lambda(27, 9, 0.01) = 2.962
1.21105 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 276
Std Dev = 43.1289
x(i+1) = 219 from measurement 1/31/2014 from location MW-2
Rosner Statistic R = |219 - 276|/43.1289 = 1.32162
Lambda(27, 8, 0.01) = 2.994
1.32162 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 282
Std Dev = 50.2305
x(i+1) = 402 from measurement 1/29/2018 from location MW-2
Rosner Statistic R = |402 - 282|/50.2305 = 2.38899
Lambda(27, 7, 0.01) = 3.026
2.38899 < 3.026 -- No outliers detected for i = 6

Iteration i = 5

Mean of 22 measurements = 287.5
Std Dev = 55.3936
x(i+1) = 403 from measurement 11/25/2009 from location MW-2
Rosner Statistic R = |403 - 287.5|/55.3936 = 2.08508
Lambda(27, 6, 0.01) = 3.058
2.08508 < 3.058 -- No outliers detected for i = 5

Iteration i = 4

Mean of 23 measurements = 292.652
Std Dev = 59.4938
x(i+1) = 406 from measurement 7/24/2018 from location MW-2
Rosner Statistic R = |406 - 292.652|/59.4938 = 1.9052
Lambda(27, 5, 0.01) = 3.09
1.9052 < 3.09 -- No outliers detected for i = 4

Iteration i = 3

Mean of 24 measurements = 289.167
Std Dev = 60.6398
x(i+1) = 209 from measurement 7/29/2013 from location MW-2
Rosner Statistic R = |209 - 289.167|/60.6398 = 1.32201
Lambda(27, 4, 0.01) = 3.11
1.32201 < 3.11 -- No outliers detected for i = 3

Iteration i = 2

Mean of 25 measurements = 284.44
Std Dev = 63.8945
x(i+1) = 171 from measurement 10/18/2012 from location MW-2
Rosner Statistic R = |171 - 284.44|/63.8945 = 1.77543
Lambda(27, 3, 0.01) = 3.14
1.77543 < 3.14 -- No outliers detected for i = 2

Iteration i = 1

Mean of 26 measurements = 273.538
Std Dev = 83.7206
x(i+1) = 1 from measurement 7/21/2011 from location MW-2
Rosner Statistic R = |1 - 273.538|/83.7206 = 3.25533
Lambda(27, 2, 0.01) = 3.16
3.25533 > 3.16 -- Measurement 7/21/2011 for location MW-2 is an outlier

---

Iteration i = 0

Mean of 27 measurements = 308.593
Std Dev = 199.792
x(i+1) = 1220 from measurement 1/30/2019 from location MW-2
Rosner Statistic R = |1220 - 308.593|/199.792 = 4.56178
Lambda(27, 1, 0.01) = 3.18
Measurement 1/30/2019 for location MW-2 is an outlier

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 292.38

10 most extreme of 50 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-3	1230	937.62
2	1/27/2015	MW-3	719	426.62
3	1/29/2018	MW-3	435	142.62
4	1/31/2014	MW-3	169	-123.38
5	9/11/2012	MW-3	188	-104.38
6	1/27/2010	MW-3	190	-102.38
7	7/24/2018	MW-3	382	89.62
8	3/4/2010	MW-3	210	-82.38
9	10/18/2012	MW-3	213	-79.38
10	6/7/2010	MW-3	218	-74.38

Iteration i = 9

Mean of 41 measurements = 265.439

Std Dev = 28.2746

x(i+1) = 218 from measurement 6/7/2010 from location MW-3

Rosner Statistic R = |218 - 265.439|/28.2746 = 1.6778

Lambda(50, 10, 0.01) = 3.39

1.6778 < 3.39 -- No outliers detected for i = 9

Iteration i = 8

Mean of 42 measurements = 264.19

Std Dev = 29.0762

x(i+1) = 213 from measurement 10/18/2012 from location MW-3

Rosner Statistic R = |213 - 264.19|/29.0762 = 1.76056

Lambda(50, 9, 0.01) = 3.402

1.76056 < 3.402 -- No outliers detected for i = 8

Iteration i = 7

Mean of 43 measurements = 262.93

Std Dev = 29.893

x(i+1) = 210 from measurement 3/4/2010 from location MW-3

Rosner Statistic R = |210 - 262.93|/29.893 = 1.77066

Lambda(50, 8, 0.01) = 3.414

1.77066 < 3.414 -- No outliers detected for i = 7

Iteration i = 6

Mean of 44 measurements = 265.636

Std Dev = 34.5692

x(i+1) = 382 from measurement 7/24/2018 from location MW-3

Rosner Statistic R = |382 - 265.636|/34.5692 = 3.36611

Lambda(50, 7, 0.01) = 3.426

3.36611 < 3.426 -- No outliers detected for i = 6

Iteration i = 5
Mean of 45 measurements = 263.956
Std Dev = 35.9861
x(i+1) = 190 from measurement 1/27/2010 from location MW-3
Rosner Statistic R = |190 - 263.956|/35.9861 = 2.05512
Lambda(50, 6, 0.01) = 3.438
2.05512 < 3.438 -- No outliers detected for i = 5

Iteration i = 4
Mean of 46 measurements = 262.304
Std Dev = 37.3047
x(i+1) = 188 from measurement 9/11/2012 from location MW-3
Rosner Statistic R = |188 - 262.304|/37.3047 = 1.99182
Lambda(50, 5, 0.01) = 3.45
1.99182 < 3.45 -- No outliers detected for i = 4

Iteration i = 3
Mean of 47 measurements = 260.319
Std Dev = 39.327
x(i+1) = 169 from measurement 1/31/2014 from location MW-3
Rosner Statistic R = |169 - 260.319|/39.327 = 2.32205
Lambda(50, 4, 0.01) = 3.46
2.32205 < 3.46 -- No outliers detected for i = 3

Iteration i = 2
Mean of 48 measurements = 263.958
Std Dev = 46.3616
x(i+1) = 435 from measurement 1/29/2018 from location MW-3
Rosner Statistic R = |435 - 263.958|/46.3616 = 3.68929
Lambda(50, 3, 0.01) = 3.46
3.68929 > 3.46 -- Measurement 1/29/2018 for location MW-3 is an outlier

---

Iteration i = 1
Mean of 49 measurements = 273.245
Std Dev = 79.5638
x(i+1) = 719 from measurement 1/27/2015 from location MW-3
Rosner Statistic R = |719 - 273.245|/79.5638 = 5.60249
Lambda(50, 2, 0.01) = 3.47
Measurement 1/27/2015 for location MW-3 is an outlier

Iteration i = 0
Mean of 50 measurements = 292.38
Std Dev = 156.553
x(i+1) = 1230 from measurement 1/30/2019 from location MW-3
Rosner Statistic R = |1230 - 292.38|/156.553 = 5.98916
Lambda(50, 1, 0.01) = 3.48
Measurement 1/30/2019 for location MW-3 is an outlier

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 288.02

10 most extreme of 50 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-4	1300	1011.98
2	1/27/2015	MW-4	582	293.98
3	7/24/2018	MW-4	439	150.98
4	1/29/2018	MW-4	428	139.98
5	7/21/2015	MW-4	421	132.98
6	1/31/2014	MW-4	187	-101.02
7	9/11/2012	MW-4	190	-98.02
8	3/4/2010	MW-4	207	-81.02
9	1/27/2010	MW-4	208	-80.02
10	10/18/2012	MW-4	211	-77.02

Iteration i = 9

Mean of 41 measurements = 254.61
Std Dev = 27.4325
x(i+1) = 211 from measurement 10/18/2012 from location MW-4
Rosner Statistic R = |211 - 254.61|/27.4325 = 1.58971
Lambda(50, 10, 0.01) = 3.39
1.58971 < 3.39 -- No outliers detected for i = 9

Iteration i = 8

Mean of 42 measurements = 253.5
Std Dev = 28.0342
x(i+1) = 208 from measurement 1/27/2010 from location MW-4
Rosner Statistic R = |208 - 253.5|/28.0342 = 1.62302
Lambda(50, 9, 0.01) = 3.402
1.62302 < 3.402 -- No outliers detected for i = 8

Iteration i = 7

Mean of 43 measurements = 252.419
Std Dev = 28.5917
x(i+1) = 207 from measurement 3/4/2010 from location MW-4
Rosner Statistic R = |207 - 252.419|/28.5917 = 1.58852
Lambda(50, 8, 0.01) = 3.414
1.58852 < 3.414 -- No outliers detected for i = 7

Iteration i = 6

Mean of 44 measurements = 251
Std Dev = 29.7829
x(i+1) = 190 from measurement 9/11/2012 from location MW-4
Rosner Statistic R = |190 - 251|/29.7829 = 2.04815
Lambda(50, 7, 0.01) = 3.426
2.04815 < 3.426 -- No outliers detected for i = 6

```
Iteration i = 5
Mean of 45 measurements = 249.578
Std Dev = 30.9497
x(i+1) = 187 from measurement 1/31/2014 from location MW-4
Rosner Statistic R = |187 - 249.578|/30.9497 = 2.02192
Lambda(50, 6, 0.01) = 3.438
2.02192 < 3.438 -- No outliers detected for i = 5
```

```
Iteration i = 4
Mean of 46 measurements = 253.304
Std Dev = 39.6915
x(i+1) = 421 from measurement 7/21/2015 from location MW-4
Rosner Statistic R = |421 - 253.304|/39.6915 = 4.22497
Lambda(50, 5, 0.01) = 3.45
4.22497 > 3.45 -- Measurement 7/21/2015 for location MW-4 is an outlier
```

```
Iteration i = 3
Mean of 47 measurements = 257.021
Std Dev = 46.8028
x(i+1) = 428 from measurement 1/29/2018 from location MW-4
Rosner Statistic R = |428 - 257.021|/46.8028 = 3.65318
Lambda(50, 4, 0.01) = 3.46
Measurement 1/29/2018 for location MW-4 is an outlier
```

```
Iteration i = 2
Mean of 48 measurements = 260.813
Std Dev = 53.2336
x(i+1) = 439 from measurement 7/24/2018 from location MW-4
Rosner Statistic R = |439 - 260.813|/53.2336 = 3.34728
Lambda(50, 3, 0.01) = 3.46
Measurement 7/24/2018 for location MW-4 is an outlier
```

```
Iteration i = 1
Mean of 49 measurements = 267.367
Std Dev = 69.8578
x(i+1) = 582 from measurement 1/27/2015 from location MW-4
Rosner Statistic R = |582 - 267.367|/69.8578 = 4.5039
Lambda(50, 2, 0.01) = 3.47
Measurement 1/27/2015 for location MW-4 is an outlier
```

```
Iteration i = 0
Mean of 50 measurements = 288.02
Std Dev = 161.577
x(i+1) = 1300 from measurement 1/30/2019 from location MW-4
Rosner Statistic R = |1300 - 288.02|/161.577 = 6.26314
Lambda(50, 1, 0.01) = 3.48
Measurement 1/30/2019 for location MW-4 is an outlier
```

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 295.479

10 most extreme of 63 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-5	1130	834.521
2	1/27/2015	MW-5	589	293.521
3	7/29/2019	MW-5	ND<3 U	-292.479
4	7/24/2018	MW-5	505	209.521
5	1/29/2018	MW-5	454	158.521
6	4/27/2017	MW-5	423	127.521
7	7/24/2017	MW-5	207	-88.4786
8	9/11/2012	MW-5	207	-88.4786
9	10/31/2016	MW-5	382	86.5214
10	3/4/2010	MW-5	211	-84.4786

Iteration i = 9

Mean of 54 measurements = 272.503
Std Dev = 36.0206
x(i+1) = 211 from measurement 3/4/2010 from location MW-5
Rosner Statistic R = |211 - 272.503|/36.0206 = 1.70743
Lambda(63, 10, 0.01) = 3.514
1.70743 < 3.514 -- No outliers detected for i = 9

Iteration i = 8

Mean of 55 measurements = 274.494
Std Dev = 38.6193
x(i+1) = 382 from measurement 10/31/2016 from location MW-5
Rosner Statistic R = |382 - 274.494|/38.6193 = 2.78375
Lambda(63, 9, 0.01) = 3.5214
2.78375 < 3.5214 -- No outliers detected for i = 8

Iteration i = 7

Mean of 56 measurements = 273.288
Std Dev = 39.3151
x(i+1) = 207 from measurement 9/11/2012 from location MW-5
Rosner Statistic R = |207 - 273.288|/39.3151 = 1.68608
Lambda(63, 8, 0.01) = 3.5288
1.68608 < 3.5288 -- No outliers detected for i = 7

Iteration i = 6

Mean of 57 measurements = 272.125
Std Dev = 39.9396
x(i+1) = 207 from measurement 7/24/2017 from location MW-5
Rosner Statistic R = |207 - 272.125|/39.9396 = 1.6306
Lambda(63, 7, 0.01) = 3.5362
1.6306 < 3.5362 -- No outliers detected for i = 6

Iteration i = 5

Mean of 58 measurements = 274.727
Std Dev = 44.2679
x(i+1) = 423 from measurement 4/27/2017 from location MW-5
Rosner Statistic R = |423 - 274.727|/44.2679 = 3.34945
Lambda(63, 6, 0.01) = 3.5436
3.34945 < 3.5436 -- No outliers detected for i = 5

Iteration i = 4

Mean of 59 measurements = 277.765
Std Dev = 49.705
x(i+1) = 454 from measurement 1/29/2018 from location MW-5
Rosner Statistic R = |454 - 277.765|/49.705 = 3.54561
Lambda(63, 5, 0.01) = 3.551
3.54561 < 3.551 -- No outliers detected for i = 4

Iteration i = 3

Mean of 60 measurements = 281.553
Std Dev = 57.3525
x(i+1) = 505 from measurement 7/24/2018 from location MW-5
Rosner Statistic R = |505 - 281.553|/57.3525 = 3.89604
Lambda(63, 4, 0.01) = 3.558
3.89604 > 3.558 -- Measurement 7/24/2018 for location MW-5 is an outlier

---

Iteration i = 2

Mean of 61 measurements = 276.986
Std Dev = 67.1303
x(i+1) = 3 from measurement 7/29/2019 from location MW-5
Rosner Statistic R = |3 - 276.986|/67.1303 = 4.08141
Lambda(63, 3, 0.01) = 3.568
Measurement 7/29/2019 for location MW-5 is an outlier

Iteration i = 1

Mean of 62 measurements = 282.019
Std Dev = 77.4778
x(i+1) = 589 from measurement 1/27/2015 from location MW-5
Rosner Statistic R = |589 - 282.019|/77.4778 = 3.96219
Lambda(63, 2, 0.01) = 3.571
Measurement 1/27/2015 for location MW-5 is an outlier

Iteration i = 0

Mean of 63 measurements = 295.479
Std Dev = 131.605
x(i+1) = 1130 from measurement 1/30/2019 from location MW-5
Rosner Statistic R = |1130 - 295.479|/131.605 = 6.34111
Lambda(63, 1, 0.01) = 3.578
Measurement 1/30/2019 for location MW-5 is an outlier

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 290.476

10 most extreme of 63 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-6	989	698.524
2	1/27/2015	MW-6	728	437.524
3	12/27/2010	MW-6	5.3	-285.176
4	1/29/2018	MW-6	526	235.524
5	10/31/2016	MW-6	60.1	-230.376
6	10/27/2017	MW-6	69	-221.476
7	7/24/2018	MW-6	451	160.524
8	4/12/2018	MW-6	390	99.5243
9	1/30/2017	MW-6	387	96.5243
10	9/11/2012	MW-6	205	-85.4757

Iteration i = 9

Mean of 54 measurements = 272.122
Std Dev = 35.8021
x(i+1) = 205 from measurement 9/11/2012 from location MW-6
Rosner Statistic R = |205 - 272.122|/35.8021 = 1.8748
Lambda(63, 10, 0.01) = 3.514
1.8748 < 3.514 -- No outliers detected for i = 9

Iteration i = 8

Mean of 55 measurements = 274.21
Std Dev = 38.704
x(i+1) = 387 from measurement 1/30/2017 from location MW-6
Rosner Statistic R = |387 - 274.21|/38.704 = 2.91416
Lambda(63, 9, 0.01) = 3.5214
2.91416 < 3.5214 -- No outliers detected for i = 8

Iteration i = 7

Mean of 56 measurements = 276.278
Std Dev = 41.3543
x(i+1) = 390 from measurement 4/12/2018 from location MW-6
Rosner Statistic R = |390 - 276.278|/41.3543 = 2.74994
Lambda(63, 8, 0.01) = 3.5288
2.74994 < 3.5288 -- No outliers detected for i = 7

Iteration i = 6

Mean of 57 measurements = 279.343
Std Dev = 47.066
x(i+1) = 451 from measurement 7/24/2018 from location MW-6
Rosner Statistic R = |451 - 279.343|/47.066 = 3.64714
Lambda(63, 7, 0.01) = 3.5362
3.64714 > 3.5362 -- Measurement 7/24/2018 for location MW-6 is an outlier

Iteration i = 5

Mean of 58 measurements = 275.717
Std Dev = 54.2142
x(i+1) = 69 from measurement 10/27/2017 from location MW-6
Rosner Statistic R = |69 - 275.717|/54.2142 = 3.81296
Lambda(63, 6, 0.01) = 3.5436
Measurement 10/27/2017 for location MW-6 is an outlier

Iteration i = 4

Mean of 59 measurements = 272.062
Std Dev = 60.634
x(i+1) = 60.1 from measurement 10/31/2016 from location MW-6
Rosner Statistic R = |60.1 - 272.062|/60.634 = 3.49576
Lambda(63, 5, 0.01) = 3.551
Measurement 10/31/2016 for location MW-6 is an outlier

Iteration i = 3

Mean of 60 measurements = 276.294
Std Dev = 68.4756
x(i+1) = 526 from measurement 1/29/2018 from location MW-6
Rosner Statistic R = |526 - 276.294|/68.4756 = 3.64663
Lambda(63, 4, 0.01) = 3.558
Measurement 1/29/2018 for location MW-6 is an outlier

Iteration i = 2

Mean of 61 measurements = 271.852
Std Dev = 76.2539
x(i+1) = 5.3 from measurement 12/27/2010 from location MW-6
Rosner Statistic R = |5.3 - 271.852|/76.2539 = 3.49558
Lambda(63, 3, 0.01) = 3.568
Measurement 12/27/2010 for location MW-6 is an outlier

Iteration i = 1

Mean of 62 measurements = 279.209
Std Dev = 95.2645
x(i+1) = 728 from measurement 1/27/2015 from location MW-6
Rosner Statistic R = |728 - 279.209|/95.2645 = 4.711
Lambda(63, 2, 0.01) = 3.571
Measurement 1/27/2015 for location MW-6 is an outlier

Iteration i = 0

Mean of 63 measurements = 290.476
Std Dev = 130.099
x(i+1) = 989 from measurement 1/30/2019 from location MW-6
Rosner Statistic R = |989 - 290.476|/130.099 = 5.36916
Lambda(63, 1, 0.01) = 3.578
Measurement 1/30/2019 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Chloride

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 331.885

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-7	835	503.115
2	1/29/2018	MW-7	576	244.115
3	7/29/2019	MW-7	210	-121.885
4	4/21/2011	MW-7	239	-92.8846
5	1/31/2014	MW-7	255	-76.8846
6	10/18/2012	MW-7	256	-75.8846
7	3/4/2010	MW-7	262	-69.8846
8	7/24/2018	MW-7	400	68.1154
9	7/24/2017	MW-7	267	-64.8846
10	10/31/2011	MW-7	271	-60.8846

Iteration i = 9

Mean of 17 measurements = 313.471
Std Dev = 33.1382
x(i+1) = 271 from measurement 10/31/2011 from location MW-7
Rosner Statistic R = |271 - 313.471|/33.1382 = 1.28162
Lambda(26, 10, 0.01) = 2.89
1.28162 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 310.889
Std Dev = 33.9635
x(i+1) = 267 from measurement 7/24/2017 from location MW-7
Rosner Statistic R = |267 - 310.889|/33.9635 = 1.29224
Lambda(26, 9, 0.01) = 2.924
1.29224 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 315.579
Std Dev = 38.8248
x(i+1) = 400 from measurement 7/24/2018 from location MW-7
Rosner Statistic R = |400 - 315.579|/38.8248 = 2.17441
Lambda(26, 8, 0.01) = 2.958
2.17441 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 312.9
Std Dev = 39.643
x(i+1) = 262 from measurement 3/4/2010 from location MW-7
Rosner Statistic R = |262 - 312.9|/39.643 = 1.28396
Lambda(26, 7, 0.01) = 2.992
1.28396 < 2.992 -- No outliers detected for i = 6

Iteration i = 5
Mean of 21 measurements = 310.19
Std Dev = 40.5852
x(i+1) = 256 from measurement 10/18/2012 from location MW-7
Rosner Statistic R = |256 - 310.19|/40.5852 = 1.33523
Lambda(26, 6, 0.01) = 3.026
1.33523 < 3.026 -- No outliers detected for i = 5

Iteration i = 4
Mean of 22 measurements = 307.682
Std Dev = 41.318
x(i+1) = 255 from measurement 1/31/2014 from location MW-7
Rosner Statistic R = |255 - 307.682|/41.318 = 1.27503
Lambda(26, 5, 0.01) = 3.06
1.27503 < 3.06 -- No outliers detected for i = 4

Iteration i = 3
Mean of 23 measurements = 304.696
Std Dev = 42.8331
x(i+1) = 239 from measurement 4/21/2011 from location MW-7
Rosner Statistic R = |239 - 304.696|/42.8331 = 1.53376
Lambda(26, 4, 0.01) = 3.09
1.53376 < 3.09 -- No outliers detected for i = 3

Iteration i = 2
Mean of 24 measurements = 300.75
Std Dev = 46.1361
x(i+1) = 210 from measurement 7/29/2019 from location MW-7
Rosner Statistic R = |210 - 300.75|/46.1361 = 1.967
Lambda(26, 3, 0.01) = 3.11
1.967 < 3.11 -- No outliers detected for i = 2

Iteration i = 1
Mean of 25 measurements = 311.76
Std Dev = 71.2064
x(i+1) = 576 from measurement 1/29/2018 from location MW-7
Rosner Statistic R = |576 - 311.76|/71.2064 = 3.7109
Lambda(26, 2, 0.01) = 3.14
3.7109 > 3.14 -- Measurement 1/29/2018 for location MW-7 is an outlier

---

Iteration i = 0
Mean of 26 measurements = 331.885
Std Dev = 124.087
x(i+1) = 835 from measurement 1/30/2019 from location MW-7
Rosner Statistic R = |835 - 331.885|/124.087 = 4.05454
Lambda(26, 1, 0.01) = 3.16
Measurement 1/30/2019 for location MW-7 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 913.037

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-1	3410	2496.96
2	7/21/2015	MW-1	1810	896.963
3	4/21/2011	MW-1	587	-326.037
4	10/18/2012	MW-1	590	-323.037
5	3/4/2010	MW-1	597	-316.037
6	7/24/2017	MW-1	617	-296.037
7	4/30/2010	MW-1	634	-279.037
8	7/29/2019	MW-1	670	-243.037
9	7/26/2012	MW-1	673	-240.037
10	1/31/2014	MW-1	684	-229.037

Iteration i = 9

Mean of 18 measurements = 836.889

Std Dev = 116.223

x(i+1) = 684 from measurement 1/31/2014 from location MW-1

Rosner Statistic R = |684 - 836.889|/116.223 = 1.31548

Lambda(27, 10, 0.01) = 2.93

1.31548 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 828.263

Std Dev = 119.042

x(i+1) = 673 from measurement 7/26/2012 from location MW-1

Rosner Statistic R = |673 - 828.263|/119.042 = 1.30427

Lambda(27, 9, 0.01) = 2.962

1.30427 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 820.35

Std Dev = 121.151

x(i+1) = 670 from measurement 7/29/2019 from location MW-1

Rosner Statistic R = |670 - 820.35|/121.151 = 1.24102

Lambda(27, 8, 0.01) = 2.994

1.24102 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 811.476

Std Dev = 124.889

x(i+1) = 634 from measurement 4/30/2010 from location MW-1

Rosner Statistic R = |634 - 811.476|/124.889 = 1.42107

Lambda(27, 7, 0.01) = 3.026

1.42107 < 3.026 -- No outliers detected for i = 6

Iteration i = 5

Mean of 22 measurements = 802.636
Std Dev = 128.739
x(i+1) = 617 from measurement 7/24/2017 from location MW-1
Rosner Statistic R = |617 - 802.636|/128.739 = 1.44196
Lambda(27, 6, 0.01) = 3.058
1.44196 < 3.058 -- No outliers detected for i = 5

Iteration i = 4

Mean of 23 measurements = 793.696
Std Dev = 132.887
x(i+1) = 597 from measurement 3/4/2010 from location MW-1
Rosner Statistic R = |597 - 793.696|/132.887 = 1.48018
Lambda(27, 5, 0.01) = 3.09
1.48018 < 3.09 -- No outliers detected for i = 4

Iteration i = 3

Mean of 24 measurements = 785.208
Std Dev = 136.455
x(i+1) = 590 from measurement 10/18/2012 from location MW-1
Rosner Statistic R = |590 - 785.208|/136.455 = 1.43057
Lambda(27, 4, 0.01) = 3.11
1.43057 < 3.11 -- No outliers detected for i = 3

Iteration i = 2

Mean of 25 measurements = 777.28
Std Dev = 139.34
x(i+1) = 587 from measurement 4/21/2011 from location MW-1
Rosner Statistic R = |587 - 777.28|/139.34 = 1.36558
Lambda(27, 3, 0.01) = 3.14
1.36558 < 3.14 -- No outliers detected for i = 2

Iteration i = 1

Mean of 26 measurements = 817
Std Dev = 244.251
x(i+1) = 1810 from measurement 7/21/2015 from location MW-1
Rosner Statistic R = |1810 - 817|/244.251 = 4.06549
Lambda(27, 2, 0.01) = 3.16
4.06549 > 3.16 -- Measurement 7/21/2015 for location MW-1 is an outlier

---

Iteration i = 0

Mean of 27 measurements = 913.037
Std Dev = 553.523
x(i+1) = 3410 from measurement 1/30/2019 from location MW-1
Rosner Statistic R = |3410 - 913.037|/553.523 = 4.51104
Lambda(27, 1, 0.01) = 3.18
Measurement 1/30/2019 for location MW-1 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 882

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-2	3230	2348
2	10/18/2012	MW-2	545	-337
3	1/30/2017	MW-2	1200	318
4	11/25/2009	MW-2	1185	303
5	1/31/2014	MW-2	579	-303
6	7/24/2017	MW-2	593	-289
7	7/29/2013	MW-2	630	-252
8	1/14/2011	MW-2	1130	248
9	4/30/2010	MW-2	670	-212
10	1/29/2018	MW-2	1090	208

Iteration i = 9

Mean of 18 measurements = 780.667

Std Dev = 103.775

x(i+1) = 1090 from measurement 1/29/2018 from location MW-2

Rosner Statistic R = |1090 - 780.667|/103.775 = 2.98082

Lambda(27, 10, 0.01) = 2.93

2.98082 > 2.93 -- Measurement 1/29/2018 for location MW-2 is an outlier

---

Iteration i = 8

Mean of 19 measurements = 774.842

Std Dev = 103.997

x(i+1) = 670 from measurement 4/30/2010 from location MW-2

Rosner Statistic R = |670 - 774.842|/103.997 = 1.00812

Lambda(27, 9, 0.01) = 2.962

Measurement 4/30/2010 for location MW-2 is an outlier

Iteration i = 7

Mean of 20 measurements = 792.6

Std Dev = 128.659

x(i+1) = 1130 from measurement 1/14/2011 from location MW-2

Rosner Statistic R = |1130 - 792.6|/128.659 = 2.62244

Lambda(27, 8, 0.01) = 2.994

Measurement 1/14/2011 for location MW-2 is an outlier

Iteration i = 6

Mean of 21 measurements = 784.857

Std Dev = 130.324

x(i+1) = 630 from measurement 7/29/2013 from location MW-2

Rosner Statistic R = |630 - 784.857|/130.324 = 1.18824

Lambda(27, 7, 0.01) = 3.026

Measurement 7/29/2013 for location MW-2 is an outlier

Iteration i = 5
Mean of 22 measurements = 776.136
Std Dev = 133.599
x(i+1) = 593 from measurement 7/24/2017 from location MW-2
Rosner Statistic R = |593 - 776.136|/133.599 = 1.37079
Lambda(27, 6, 0.01) = 3.058
Measurement 7/24/2017 for location MW-2 is an outlier

Iteration i = 4
Mean of 23 measurements = 767.565
Std Dev = 136.847
x(i+1) = 579 from measurement 1/31/2014 from location MW-2
Rosner Statistic R = |579 - 767.565|/136.847 = 1.37792
Lambda(27, 5, 0.01) = 3.09
Measurement 1/31/2014 for location MW-2 is an outlier

Iteration i = 3
Mean of 24 measurements = 784.958
Std Dev = 158.661
x(i+1) = 1185 from measurement 11/25/2009 from location MW-2
Rosner Statistic R = |1185 - 784.958|/158.661 = 2.52136
Lambda(27, 4, 0.01) = 3.11
Measurement 11/25/2009 for location MW-2 is an outlier

Iteration i = 2
Mean of 25 measurements = 801.56
Std Dev = 176.111
x(i+1) = 1200 from measurement 1/30/2017 from location MW-2
Rosner Statistic R = |1200 - 801.56|/176.111 = 2.26244
Lambda(27, 3, 0.01) = 3.14
Measurement 1/30/2017 for location MW-2 is an outlier

Iteration i = 1
Mean of 26 measurements = 791.692
Std Dev = 179.739
x(i+1) = 545 from measurement 10/18/2012 from location MW-2
Rosner Statistic R = |545 - 791.692|/179.739 = 1.37251
Lambda(27, 2, 0.01) = 3.16
Measurement 10/18/2012 for location MW-2 is an outlier

Iteration i = 0
Mean of 27 measurements = 882
Std Dev = 501.26
x(i+1) = 3230 from measurement 1/30/2019 from location MW-2
Rosner Statistic R = |3230 - 882|/501.26 = 4.6842
Lambda(27, 1, 0.01) = 3.18
Measurement 1/30/2019 for location MW-2 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 788.686

10 most extreme of 51 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-3	3180	2391.31
2	1/27/2015	MW-3	338	-450.686
3	1/29/2018	MW-3	1210	421.314
4	1/30/2017	MW-3	1090	301.314
5	1/14/2011	MW-3	1030	241.314
6	1/27/2010	MW-3	551	-237.686
7	9/11/2012	MW-3	581	-207.686
8	3/4/2010	MW-3	589	-199.686
9	1/31/2014	MW-3	590	-198.686
10	7/24/2017	MW-3	592	-196.686

Iteration i = 9

Mean of 42 measurements = 739.619
Std Dev = 83.5131
x(i+1) = 592 from measurement 7/24/2017 from location MW-3
Rosner Statistic R = |592 - 739.619|/83.5131 = 1.76762
Lambda(51, 10, 0.01) = 3.4
1.76762 < 3.4 -- No outliers detected for i = 9

Iteration i = 8

Mean of 43 measurements = 736.14
Std Dev = 85.6095
x(i+1) = 590 from measurement 1/31/2014 from location MW-3
Rosner Statistic R = |590 - 736.14|/85.6095 = 1.70705
Lambda(51, 9, 0.01) = 3.4116
1.70705 < 3.4116 -- No outliers detected for i = 8

Iteration i = 7

Mean of 44 measurements = 732.795
Std Dev = 87.4676
x(i+1) = 589 from measurement 3/4/2010 from location MW-3
Rosner Statistic R = |589 - 732.795|/87.4676 = 1.64398
Lambda(51, 8, 0.01) = 3.4232
1.64398 < 3.4232 -- No outliers detected for i = 7

Iteration i = 6

Mean of 45 measurements = 729.422
Std Dev = 89.3798
x(i+1) = 581 from measurement 9/11/2012 from location MW-3
Rosner Statistic R = |581 - 729.422|/89.3798 = 1.66058
Lambda(51, 7, 0.01) = 3.4348
1.66058 < 3.4348 -- No outliers detected for i = 6

Iteration i = 5

Mean of 46 measurements = 725.543
Std Dev = 92.2132
x(i+1) = 551 from measurement 1/27/2010 from location MW-3
Rosner Statistic R = |551 - 725.543|/92.2132 = 1.89283
Lambda(51, 6, 0.01) = 3.4464
1.89283 < 3.4464 -- No outliers detected for i = 5

Iteration i = 4

Mean of 47 measurements = 732.021
Std Dev = 101.443
x(i+1) = 1030 from measurement 1/14/2011 from location MW-3
Rosner Statistic R = |1030 - 732.021|/101.443 = 2.93741
Lambda(51, 5, 0.01) = 3.458
2.93741 < 3.458 -- No outliers detected for i = 4

Iteration i = 3

Mean of 48 measurements = 739.479
Std Dev = 112.878
x(i+1) = 1090 from measurement 1/30/2017 from location MW-3
Rosner Statistic R = |1090 - 739.479|/112.878 = 3.10531
Lambda(51, 4, 0.01) = 3.468
3.10531 < 3.468 -- No outliers detected for i = 3

Iteration i = 2

Mean of 49 measurements = 749.082
Std Dev = 130.362
x(i+1) = 1210 from measurement 1/29/2018 from location MW-3
Rosner Statistic R = |1210 - 749.082|/130.362 = 3.53569
Lambda(51, 3, 0.01) = 3.469
3.53569 > 3.469 -- Measurement 1/29/2018 for location MW-3 is an outlier

---

Iteration i = 1

Mean of 50 measurements = 740.86
Std Dev = 141.517
x(i+1) = 338 from measurement 1/27/2015 from location MW-3
Rosner Statistic R = |338 - 740.86|/141.517 = 2.84672
Lambda(51, 2, 0.01) = 3.478
Measurement 1/27/2015 for location MW-3 is an outlier

Iteration i = 0

Mean of 51 measurements = 788.686
Std Dev = 369.163
x(i+1) = 3180 from measurement 1/30/2019 from location MW-3
Rosner Statistic R = |3180 - 788.686|/369.163 = 6.47766
Lambda(51, 1, 0.01) = 3.488
Measurement 1/30/2019 for location MW-3 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 812.549

10 most extreme of 51 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-4	3340	2527.45
2	1/27/2015	MW-4	1440	627.451
3	1/13/2012	MW-4	1210	397.451
4	1/29/2018	MW-4	1180	367.451
5	1/31/2014	MW-4	458	-354.549
6	1/30/2017	MW-4	1100	287.451
7	7/21/2015	MW-4	1090	277.451
8	3/4/2010	MW-4	575	-237.549
9	9/11/2012	MW-4	588	-224.549
10	4/30/2010	MW-4	591	-221.549

Iteration i = 9

Mean of 42 measurements = 725.214
Std Dev = 85.1035
x(i+1) = 591 from measurement 4/30/2010 from location MW-4
Rosner Statistic R = |591 - 725.214|/85.1035 = 1.57707
Lambda(51, 10, 0.01) = 3.4
1.57707 < 3.4 -- No outliers detected for i = 9

Iteration i = 8

Mean of 43 measurements = 722.023
Std Dev = 86.6489
x(i+1) = 588 from measurement 9/11/2012 from location MW-4
Rosner Statistic R = |588 - 722.023|/86.6489 = 1.54674
Lambda(51, 9, 0.01) = 3.4116
1.54674 < 3.4116 -- No outliers detected for i = 8

Iteration i = 7

Mean of 44 measurements = 718.682
Std Dev = 88.4573
x(i+1) = 575 from measurement 3/4/2010 from location MW-4
Rosner Statistic R = |575 - 718.682|/88.4573 = 1.62431
Lambda(51, 8, 0.01) = 3.4232
1.62431 < 3.4232 -- No outliers detected for i = 7

Iteration i = 6

Mean of 45 measurements = 726.933
Std Dev = 103.493
x(i+1) = 1090 from measurement 7/21/2015 from location MW-4
Rosner Statistic R = |1090 - 726.933|/103.493 = 3.50813
Lambda(51, 7, 0.01) = 3.4348
3.50813 > 3.4348 -- Measurement 7/21/2015 for location MW-4 is an outlier

---

Iteration i = 5
Mean of 46 measurements = 735.043
Std Dev = 116.183
x(i+1) = 1100 from measurement 1/30/2017 from location MW-4
Rosner Statistic R = |1100 - 735.043|/116.183 = 3.14123
Lambda(51, 6, 0.01) = 3.4464
Measurement 1/30/2017 for location MW-4 is an outlier

Iteration i = 4
Mean of 47 measurements = 729.149
Std Dev = 121.811
x(i+1) = 458 from measurement 1/31/2014 from location MW-4
Rosner Statistic R = |458 - 729.149|/121.811 = 2.22597
Lambda(51, 5, 0.01) = 3.458
Measurement 1/31/2014 for location MW-4 is an outlier

Iteration i = 3
Mean of 48 measurements = 738.542
Std Dev = 136.956
x(i+1) = 1180 from measurement 1/29/2018 from location MW-4
Rosner Statistic R = |1180 - 738.542|/136.956 = 3.22335
Lambda(51, 4, 0.01) = 3.468
Measurement 1/29/2018 for location MW-4 is an outlier

Iteration i = 2
Mean of 49 measurements = 748.163
Std Dev = 151.335
x(i+1) = 1210 from measurement 1/13/2012 from location MW-4
Rosner Statistic R = |1210 - 748.163|/151.335 = 3.05174
Lambda(51, 3, 0.01) = 3.469
Measurement 1/13/2012 for location MW-4 is an outlier

Iteration i = 1
Mean of 50 measurements = 762
Std Dev = 178.907
x(i+1) = 1440 from measurement 1/27/2015 from location MW-4
Rosner Statistic R = |1440 - 762|/178.907 = 3.78967
Lambda(51, 2, 0.01) = 3.478
Measurement 1/27/2015 for location MW-4 is an outlier

Iteration i = 0
Mean of 51 measurements = 812.549
Std Dev = 402.098
x(i+1) = 3340 from measurement 1/30/2019 from location MW-4
Rosner Statistic R = |3340 - 812.549|/402.098 = 6.28566
Lambda(51, 1, 0.01) = 3.488
Measurement 1/30/2019 for location MW-4 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-5

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Data set mean = 782.106

10 most extreme of 64 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-5	2910	2127.89
2	1/29/2018	MW-5	1270	487.894
3	7/29/2019	MW-5	319	-463.106
4	1/27/2015	MW-5	349	-433.106
5	7/24/2018	MW-5	1160	377.894
6	4/12/2018	MW-5	1100	317.894
7	4/29/2019	MW-5	488	-294.106
8	1/30/2017	MW-5	1070	287.894
9	7/24/2017	MW-5	498	-284.106
10	4/13/2015	MW-5	498	-284.106

Iteration i = 9

Mean of 55 measurements = 743.469
Std Dev = 98.3879
x(i+1) = 498 from measurement 4/13/2015 from location MW-5
Rosner Statistic R = |498 - 743.469|/98.3879 = 2.49491
Lambda(64, 10, 0.01) = 3.522
2.49491 < 3.522 -- No outliers detected for i = 9

Iteration i = 8

Mean of 56 measurements = 739.086
Std Dev = 102.86
x(i+1) = 498 from measurement 7/24/2017 from location MW-5
Rosner Statistic R = |498 - 739.086|/102.86 = 2.34382
Lambda(64, 9, 0.01) = 3.5292
2.34382 < 3.5292 -- No outliers detected for i = 8

Iteration i = 7

Mean of 57 measurements = 744.891
Std Dev = 110.961
x(i+1) = 1070 from measurement 1/30/2017 from location MW-5
Rosner Statistic R = |1070 - 744.891|/110.961 = 2.92994
Lambda(64, 8, 0.01) = 3.5364
2.92994 < 3.5364 -- No outliers detected for i = 7

Iteration i = 6

Mean of 58 measurements = 740.462
Std Dev = 115.04
x(i+1) = 488 from measurement 4/29/2019 from location MW-5
Rosner Statistic R = |488 - 740.462|/115.04 = 2.19456
Lambda(64, 7, 0.01) = 3.5436
2.19456 < 3.5436 -- No outliers detected for i = 6

Iteration i = 5
Mean of 59 measurements = 746.556
Std Dev = 123.276
x(i+1) = 1100 from measurement 4/12/2018 from location MW-5
Rosner Statistic R = |1100 - 746.556|/123.276 = 2.8671
Lambda(64, 6, 0.01) = 3.5508
2.8671 < 3.5508 -- No outliers detected for i = 5

Iteration i = 4
Mean of 60 measurements = 753.447
Std Dev = 133.373
x(i+1) = 1160 from measurement 7/24/2018 from location MW-5
Rosner Statistic R = |1160 - 753.447|/133.373 = 3.04825
Lambda(64, 5, 0.01) = 3.558
3.04825 < 3.558 -- No outliers detected for i = 4

Iteration i = 3
Mean of 61 measurements = 746.816
Std Dev = 142.033
x(i+1) = 349 from measurement 1/27/2015 from location MW-5
Rosner Statistic R = |349 - 746.816|/142.033 = 2.80087
Lambda(64, 4, 0.01) = 3.564
2.80087 < 3.564 -- No outliers detected for i = 3

Iteration i = 2
Mean of 62 measurements = 739.916
Std Dev = 150.979
x(i+1) = 319 from measurement 7/29/2019 from location MW-5
Rosner Statistic R = |319 - 739.916|/150.979 = 2.7879
Lambda(64, 3, 0.01) = 3.574
2.7879 < 3.574 -- No outliers detected for i = 2

Iteration i = 1
Mean of 63 measurements = 748.33
Std Dev = 163.973
x(i+1) = 1270 from measurement 1/29/2018 from location MW-5
Rosner Statistic R = |1270 - 748.33|/163.973 = 3.18143
Lambda(64, 2, 0.01) = 3.578
3.18143 < 3.578 -- No outliers detected for i = 1

Iteration i = 0
Mean of 64 measurements = 782.106
Std Dev = 315.394
x(i+1) = 2910 from measurement 1/30/2019 from location MW-5
Rosner Statistic R = |2910 - 782.106|/315.394 = 6.74678
Lambda(64, 1, 0.01) = 3.584
6.74678 > 3.584 -- Measurement 1/30/2019 for location MW-5 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 787.605

10 most extreme of 64 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-6	2520	1732.4
2	12/6/2011	MW-6	2310	1522.4
3	12/27/2010	MW-6	16.3	-771.305
4	1/29/2018	MW-6	1470	682.395
5	10/27/2017	MW-6	167	-620.605
6	10/31/2016	MW-6	204	-583.605
7	1/27/2015	MW-6	356	-431.605
8	4/12/2018	MW-6	1130	342.395
9	1/30/2017	MW-6	1110	322.395
10	4/13/2015	MW-6	484	-303.605

Iteration i = 9

Mean of 55 measurements = 747.698
Std Dev = 121.52
x(i+1) = 484 from measurement 4/13/2015 from location MW-6
Rosner Statistic R = |484 - 747.698|/121.52 = 2.17
Lambda(64, 10, 0.01) = 3.522
2.17 < 3.522 -- No outliers detected for i = 9

Iteration i = 8

Mean of 56 measurements = 754.168
Std Dev = 129.779
x(i+1) = 1110 from measurement 1/30/2017 from location MW-6
Rosner Statistic R = |1110 - 754.168|/129.779 = 2.74184
Lambda(64, 9, 0.01) = 3.5292
2.74184 < 3.5292 -- No outliers detected for i = 8

Iteration i = 7

Mean of 57 measurements = 760.761
Std Dev = 137.912
x(i+1) = 1130 from measurement 4/12/2018 from location MW-6
Rosner Statistic R = |1130 - 760.761|/137.912 = 2.67734
Lambda(64, 8, 0.01) = 3.5364
2.67734 < 3.5364 -- No outliers detected for i = 7

Iteration i = 6

Mean of 58 measurements = 753.783
Std Dev = 146.666
x(i+1) = 356 from measurement 1/27/2015 from location MW-6
Rosner Statistic R = |356 - 753.783|/146.666 = 2.71217
Lambda(64, 7, 0.01) = 3.5436
2.71217 < 3.5436 -- No outliers detected for i = 6

Iteration i = 5

Mean of 59 measurements = 744.464
Std Dev = 162.059
x(i+1) = 204 from measurement 10/31/2016 from location MW-6
Rosner Statistic R = |204 - 744.464|/162.059 = 3.33499
Lambda(64, 6, 0.01) = 3.5508
3.33499 < 3.5508 -- No outliers detected for i = 5

Iteration i = 4

Mean of 60 measurements = 734.84
Std Dev = 177.132
x(i+1) = 167 from measurement 10/27/2017 from location MW-6
Rosner Statistic R = |167 - 734.84|/177.132 = 3.20575
Lambda(64, 5, 0.01) = 3.558
3.20575 < 3.558 -- No outliers detected for i = 4

Iteration i = 3

Mean of 61 measurements = 746.892
Std Dev = 199.281
x(i+1) = 1470 from measurement 1/29/2018 from location MW-6
Rosner Statistic R = |1470 - 746.892|/199.281 = 3.6286
Lambda(64, 4, 0.01) = 3.564
3.6286 > 3.564 -- Measurement 1/29/2018 for location MW-6 is an outlier

---

Iteration i = 2

Mean of 62 measurements = 735.108
Std Dev = 218.336
x(i+1) = 16.3 from measurement 12/27/2010 from location MW-6
Rosner Statistic R = |16.3 - 735.108|/218.336 = 3.2922
Lambda(64, 3, 0.01) = 3.574
Measurement 12/27/2010 for location MW-6 is an outlier

Iteration i = 1

Mean of 63 measurements = 760.106
Std Dev = 293.72
x(i+1) = 2310 from measurement 12/6/2011 from location MW-6
Rosner Statistic R = |2310 - 760.106|/293.72 = 5.27677
Lambda(64, 2, 0.01) = 3.578
Measurement 12/6/2011 for location MW-6 is an outlier

Iteration i = 0

Mean of 64 measurements = 787.605
Std Dev = 365.098
x(i+1) = 2520 from measurement 1/30/2019 from location MW-6
Rosner Statistic R = |2520 - 787.605|/365.098 = 4.74502
Lambda(64, 1, 0.01) = 3.584
Measurement 1/30/2019 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Sulfate

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 820.038

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	1/30/2019	MW-7	1900	1079.96
2	1/29/2018	MW-7	1440	619.962
3	1/13/2012	MW-7	529	-291.038
4	7/29/2019	MW-7	541	-279.038
5	4/21/2011	MW-7	562	-258.038
6	7/24/2017	MW-7	573	-247.038
7	1/31/2014	MW-7	618	-202.038
8	1/30/2017	MW-7	988	167.962
9	3/4/2010	MW-7	673	-147.038
10	7/26/2016	MW-7	674	-146.038

Iteration i = 9

Mean of 17 measurements = 793.941
Std Dev = 90.4886
x(i+1) = 674 from measurement 7/26/2016 from location MW-7
Rosner Statistic R = |674 - 793.941|/90.4886 = 1.32548
Lambda(26, 10, 0.01) = 2.89
1.32548 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 787.222
Std Dev = 92.2991
x(i+1) = 673 from measurement 3/4/2010 from location MW-7
Rosner Statistic R = |673 - 787.222|/92.2991 = 1.23752
Lambda(26, 9, 0.01) = 2.924
1.23752 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 797.789
Std Dev = 100.834
x(i+1) = 988 from measurement 1/30/2017 from location MW-7
Rosner Statistic R = |988 - 797.789|/100.834 = 1.88637
Lambda(26, 8, 0.01) = 2.958
1.88637 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 788.8
Std Dev = 106.059
x(i+1) = 618 from measurement 1/31/2014 from location MW-7
Rosner Statistic R = |618 - 788.8|/106.059 = 1.61042
Lambda(26, 7, 0.01) = 2.992
1.61042 < 2.992 -- No outliers detected for i = 6

Iteration i = 5
Mean of 21 measurements = 778.524
Std Dev = 113.595
x(i+1) = 573 from measurement 7/24/2017 from location MW-7
Rosner Statistic R = |573 - 778.524|/113.595 = 1.80927
Lambda(26, 6, 0.01) = 3.026
1.80927 < 3.026 -- No outliers detected for i = 5

Iteration i = 4
Mean of 22 measurements = 768.682
Std Dev = 120.085
x(i+1) = 562 from measurement 4/21/2011 from location MW-7
Rosner Statistic R = |562 - 768.682|/120.085 = 1.72113
Lambda(26, 5, 0.01) = 3.06
1.72113 < 3.06 -- No outliers detected for i = 4

Iteration i = 3
Mean of 23 measurements = 758.783
Std Dev = 126.565
x(i+1) = 541 from measurement 7/29/2019 from location MW-7
Rosner Statistic R = |541 - 758.783|/126.565 = 1.72072
Lambda(26, 4, 0.01) = 3.09
1.72072 < 3.09 -- No outliers detected for i = 3

Iteration i = 2
Mean of 24 measurements = 749.208
Std Dev = 132.372
x(i+1) = 529 from measurement 1/13/2012 from location MW-7
Rosner Statistic R = |529 - 749.208|/132.372 = 1.66356
Lambda(26, 3, 0.01) = 3.11
1.66356 < 3.11 -- No outliers detected for i = 2

Iteration i = 1
Mean of 25 measurements = 776.84
Std Dev = 189.42
x(i+1) = 1440 from measurement 1/29/2018 from location MW-7
Rosner Statistic R = |1440 - 776.84|/189.42 = 3.50101
Lambda(26, 2, 0.01) = 3.14
3.50101 > 3.14 -- Measurement 1/29/2018 for location MW-7 is an outlier

---

Iteration i = 0
Mean of 26 measurements = 820.038
Std Dev = 288.034
x(i+1) = 1900 from measurement 1/30/2019 from location MW-7
Rosner Statistic R = |1900 - 820.038|/288.034 = 3.74943
Lambda(26, 1, 0.01) = 3.16
Measurement 1/30/2019 for location MW-7 is an outlier

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 1805.93

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	7/26/2016	MW-1	2530	724.074
2	1/27/2015	MW-1	1090	-715.926
3	1/29/2018	MW-1	2320	514.074
4	1/29/2013	MW-1	1300	-505.926
5	7/29/2013	MW-1	1300	-505.926
6	1/27/2016	MW-1	2280	474.074
7	7/29/2019	MW-1	1440	-365.926
8	7/21/2015	MW-1	2140	334.074
9	1/30/2019	MW-1	1480	-325.926
10	7/17/2014	MW-1	1500	-305.926

Iteration i = 9

Mean of 18 measurements = 1826.67
Std Dev = 181.659
x(i+1) = 1500 from measurement 7/17/2014 from location MW-1
Rosner Statistic R = |1500 - 1826.67|/181.659 = 1.79824
Lambda(27, 10, 0.01) = 2.93
1.79824 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 1808.42
Std Dev = 193.628
x(i+1) = 1480 from measurement 1/30/2019 from location MW-1
Rosner Statistic R = |1480 - 1808.42|/193.628 = 1.69614
Lambda(27, 9, 0.01) = 2.962
1.69614 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 1825
Std Dev = 202.524
x(i+1) = 2140 from measurement 7/21/2015 from location MW-1
Rosner Statistic R = |2140 - 1825|/202.524 = 1.55537
Lambda(27, 8, 0.01) = 2.994
1.55537 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 1806.67
Std Dev = 214.53
x(i+1) = 1440 from measurement 7/29/2019 from location MW-1
Rosner Statistic R = |1440 - 1806.67|/214.53 = 1.70916
Lambda(27, 7, 0.01) = 3.026
1.70916 < 3.026 -- No outliers detected for i = 6

Iteration i = 5

Mean of 22 measurements = 1828.18
Std Dev = 232.413
x(i+1) = 2280 from measurement 1/27/2016 from location MW-1
Rosner Statistic R = |2280 - 1828.18|/232.413 = 1.94404
Lambda(27, 6, 0.01) = 3.058
1.94404 < 3.058 -- No outliers detected for i = 5

Iteration i = 4

Mean of 23 measurements = 1805.22
Std Dev = 252.368
x(i+1) = 1300 from measurement 7/29/2013 from location MW-1
Rosner Statistic R = |1300 - 1805.22|/252.368 = 2.00191
Lambda(27, 5, 0.01) = 3.09
2.00191 < 3.09 -- No outliers detected for i = 4

Iteration i = 3

Mean of 24 measurements = 1784.17
Std Dev = 267.499
x(i+1) = 1300 from measurement 1/29/2013 from location MW-1
Rosner Statistic R = |1300 - 1784.17|/267.499 = 1.80997
Lambda(27, 4, 0.01) = 3.11
1.80997 < 3.11 -- No outliers detected for i = 3

Iteration i = 2

Mean of 25 measurements = 1805.6
Std Dev = 282.947
x(i+1) = 2320 from measurement 1/29/2018 from location MW-1
Rosner Statistic R = |2320 - 1805.6|/282.947 = 1.81801
Lambda(27, 3, 0.01) = 3.14
1.81801 < 3.14 -- No outliers detected for i = 2

Iteration i = 1

Mean of 26 measurements = 1778.08
Std Dev = 310.728
x(i+1) = 1090 from measurement 1/27/2015 from location MW-1
Rosner Statistic R = |1090 - 1778.08|/310.728 = 2.2144
Lambda(27, 2, 0.01) = 3.16
2.2144 < 3.16 -- No outliers detected for i = 1

Iteration i = 0

Mean of 27 measurements = 1805.93
Std Dev = 337.311
x(i+1) = 2530 from measurement 7/26/2016 from location MW-1
Rosner Statistic R = |2530 - 1805.93|/337.311 = 2.1466
Lambda(27, 1, 0.01) = 3.18
2.1466 < 3.18 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 1790

10 most extreme of 27 measurements

by order of magnitude difference from the mean

1	1/29/2018	MW-2	2560	770
2	1/27/2015	MW-2	1170	-620
3	7/29/2013	MW-2	1200	-590
4	7/26/2016	MW-2	2330	540
5	11/25/2009	MW-2	2310	520
6	1/29/2013	MW-2	1300	-490
7	1/27/2016	MW-2	2250	460
8	7/17/2014	MW-2	1400	-390
9	7/29/2019	MW-2	1450	-340
10	1/30/2019	MW-2	1500	-290

Iteration i = 9

Mean of 18 measurements = 1797.78
Std Dev = 167.211
x(i+1) = 1500 from measurement 1/30/2019 from location MW-2
Rosner Statistic R = |1500 - 1797.78|/167.211 = 1.78085
Lambda(27, 10, 0.01) = 2.93
1.78085 < 2.93 -- No outliers detected for i = 9

Iteration i = 8

Mean of 19 measurements = 1779.47
Std Dev = 181.03
x(i+1) = 1450 from measurement 7/29/2019 from location MW-2
Rosner Statistic R = |1450 - 1779.47|/181.03 = 1.81999
Lambda(27, 9, 0.01) = 2.962
1.81999 < 2.962 -- No outliers detected for i = 8

Iteration i = 7

Mean of 20 measurements = 1760.5
Std Dev = 195.569
x(i+1) = 1400 from measurement 7/17/2014 from location MW-2
Rosner Statistic R = |1400 - 1760.5|/195.569 = 1.84334
Lambda(27, 8, 0.01) = 2.994
1.84334 < 2.994 -- No outliers detected for i = 7

Iteration i = 6

Mean of 21 measurements = 1783.81
Std Dev = 218.506
x(i+1) = 2250 from measurement 1/27/2016 from location MW-2
Rosner Statistic R = |2250 - 1783.81|/218.506 = 2.13354
Lambda(27, 7, 0.01) = 3.026
2.13354 < 3.026 -- No outliers detected for i = 6

Iteration i = 5
Mean of 22 measurements = 1761.82
Std Dev = 236.877
x(i+1) = 1300 from measurement 1/29/2013 from location MW-2
Rosner Statistic R = |1300 - 1761.82|/236.877 = 1.94961
Lambda(27, 6, 0.01) = 3.058
1.94961 < 3.058 -- No outliers detected for i = 5

Iteration i = 4
Mean of 23 measurements = 1785.65
Std Dev = 258.12
x(i+1) = 2310 from measurement 11/25/2009 from location MW-2
Rosner Statistic R = |2310 - 1785.65|/258.12 = 2.03141
Lambda(27, 5, 0.01) = 3.09
2.03141 < 3.09 -- No outliers detected for i = 4

Iteration i = 3
Mean of 24 measurements = 1808.33
Std Dev = 275.818
x(i+1) = 2330 from measurement 7/26/2016 from location MW-2
Rosner Statistic R = |2330 - 1808.33|/275.818 = 1.89135
Lambda(27, 4, 0.01) = 3.11
1.89135 < 3.11 -- No outliers detected for i = 3

Iteration i = 2
Mean of 25 measurements = 1784
Std Dev = 296.156
x(i+1) = 1200 from measurement 7/29/2013 from location MW-2
Rosner Statistic R = |1200 - 1784|/296.156 = 1.97193
Lambda(27, 3, 0.01) = 3.14
1.97193 < 3.14 -- No outliers detected for i = 2

Iteration i = 1
Mean of 26 measurements = 1760.38
Std Dev = 314.165
x(i+1) = 1170 from measurement 1/27/2015 from location MW-2
Rosner Statistic R = |1170 - 1760.38|/314.165 = 1.87922
Lambda(27, 2, 0.01) = 3.16
1.87922 < 3.16 -- No outliers detected for i = 1

Iteration i = 0
Mean of 27 measurements = 1790
Std Dev = 344.361
x(i+1) = 2560 from measurement 1/29/2018 from location MW-2
Rosner Statistic R = |2560 - 1790|/344.361 = 2.23602
Lambda(27, 1, 0.01) = 3.18
2.23602 < 3.18 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 1794.65

10 most extreme of 46 measurements

by order of magnitude difference from the mean

1	4/30/2010	MW-3	3850	2055.35
2	1/27/2015	MW-3	11.8	-1782.85
3	5/24/2012	MW-3	992	-802.648
4	7/26/2016	MW-3	2410	615.352
5	1/27/2016	MW-3	2310	515.352
6	12/5/2012	MW-3	1300	-494.648
7	1/29/2018	MW-3	2270	475.352
8	1/29/2013	MW-3	1400	-394.648
9	7/29/2013	MW-3	1400	-394.648
10	7/17/2014	MW-3	1400	-394.648

Iteration i = 9

Mean of 37 measurements = 1800.27
Std Dev = 136.656
x(i+1) = 1400 from measurement 7/17/2014 from location MW-3
Rosner Statistic R = |1400 - 1800.27|/136.656 = 2.92903
Lambda(46, 10, 0.01) = 3.34
2.92903 < 3.34 -- No outliers detected for i = 9

Iteration i = 8

Mean of 38 measurements = 1789.74
Std Dev = 149.621
x(i+1) = 1400 from measurement 7/29/2013 from location MW-3
Rosner Statistic R = |1400 - 1789.74|/149.621 = 2.60483
Lambda(46, 9, 0.01) = 3.352
2.60483 < 3.352 -- No outliers detected for i = 8

Iteration i = 7

Mean of 39 measurements = 1779.74
Std Dev = 160.287
x(i+1) = 1400 from measurement 1/29/2013 from location MW-3
Rosner Statistic R = |1400 - 1779.74|/160.287 = 2.36914
Lambda(46, 8, 0.01) = 3.364
2.36914 < 3.364 -- No outliers detected for i = 7

Iteration i = 6

Mean of 40 measurements = 1792
Std Dev = 176.188
x(i+1) = 2270 from measurement 1/29/2018 from location MW-3
Rosner Statistic R = |2270 - 1792|/176.188 = 2.71302
Lambda(46, 7, 0.01) = 3.376
2.71302 < 3.376 -- No outliers detected for i = 6

Iteration i = 5

Mean of 41 measurements = 1780
Std Dev = 190.184
x(i+1) = 1300 from measurement 12/5/2012 from location MW-3
Rosner Statistic R = |1300 - 1780|/190.184 = 2.52387
Lambda(46, 6, 0.01) = 3.388
2.52387 < 3.388 -- No outliers detected for i = 5

Iteration i = 4

Mean of 42 measurements = 1792.62
Std Dev = 204.88
x(i+1) = 2310 from measurement 1/27/2016 from location MW-3
Rosner Statistic R = |2310 - 1792.62|/204.88 = 2.52529
Lambda(46, 5, 0.01) = 3.4
2.52529 < 3.4 -- No outliers detected for i = 4

Iteration i = 3

Mean of 43 measurements = 1806.98
Std Dev = 223.25
x(i+1) = 2410 from measurement 7/26/2016 from location MW-3
Rosner Statistic R = |2410 - 1806.98|/223.25 = 2.70111
Lambda(46, 4, 0.01) = 3.41
2.70111 < 3.41 -- No outliers detected for i = 3

Iteration i = 2

Mean of 44 measurements = 1788.45
Std Dev = 252.541
x(i+1) = 992 from measurement 5/24/2012 from location MW-3
Rosner Statistic R = |992 - 1788.45|/252.541 = 3.15377
Lambda(46, 3, 0.01) = 3.43
3.15377 < 3.43 -- No outliers detected for i = 2

Iteration i = 1

Mean of 45 measurements = 1748.97
Std Dev = 363.967
x(i+1) = 11.8 from measurement 1/27/2015 from location MW-3
Rosner Statistic R = |11.8 - 1748.97|/363.967 = 4.77289
Lambda(46, 2, 0.01) = 3.44
4.77289 > 3.44 -- Measurement 1/27/2015 for location MW-3 is an outlier

---

Iteration i = 0

Mean of 46 measurements = 1794.65
Std Dev = 474.859
x(i+1) = 3850 from measurement 4/30/2010 from location MW-3
Rosner Statistic R = |3850 - 1794.65|/474.859 = 4.32834
Lambda(46, 1, 0.01) = 3.45
Measurement 4/30/2010 for location MW-3 is an outlier

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 1758.48

10 most extreme of 46 measurements

by order of magnitude difference from the mean

1	1/27/2015	MW-4	1090	-668.478
2	1/29/2018	MW-4	2400	641.522
3	4/30/2010	MW-4	1140	-618.478
4	1/27/2016	MW-4	2250	491.522
5	7/29/2013	MW-4	1300	-458.478
6	12/5/2012	MW-4	1300	-458.478
7	7/26/2016	MW-4	2190	431.522
8	1/29/2013	MW-4	1400	-358.478
9	7/17/2014	MW-4	1400	-358.478
10	7/29/2019	MW-4	1450	-308.478

Iteration i = 9

Mean of 37 measurements = 1795.14
Std Dev = 113.984
x(i+1) = 1450 from measurement 7/29/2019 from location MW-4
Rosner Statistic R = |1450 - 1795.14|/113.984 = 3.02793
Lambda(46, 10, 0.01) = 3.34
3.02793 < 3.34 -- No outliers detected for i = 9

Iteration i = 8

Mean of 38 measurements = 1784.74
Std Dev = 129.422
x(i+1) = 1400 from measurement 7/17/2014 from location MW-4
Rosner Statistic R = |1400 - 1784.74|/129.422 = 2.97274
Lambda(46, 9, 0.01) = 3.352
2.97274 < 3.352 -- No outliers detected for i = 8

Iteration i = 7

Mean of 39 measurements = 1774.87
Std Dev = 141.791
x(i+1) = 1400 from measurement 1/29/2013 from location MW-4
Rosner Statistic R = |1400 - 1774.87|/141.791 = 2.64384
Lambda(46, 8, 0.01) = 3.364
2.64384 < 3.364 -- No outliers detected for i = 7

Iteration i = 6

Mean of 40 measurements = 1785.25
Std Dev = 154.588
x(i+1) = 2190 from measurement 7/26/2016 from location MW-4
Rosner Statistic R = |2190 - 1785.25|/154.588 = 2.61825
Lambda(46, 7, 0.01) = 3.376
2.61825 < 3.376 -- No outliers detected for i = 6

Iteration i = 5

Mean of 41 measurements = 1773.41
Std Dev = 170.42
x(i+1) = 1300 from measurement 12/5/2012 from location MW-4
Rosner Statistic R = |1300 - 1773.41|/170.42 = 2.77793
Lambda(46, 6, 0.01) = 3.388
2.77793 < 3.388 -- No outliers detected for i = 5

Iteration i = 4

Mean of 42 measurements = 1762.14
Std Dev = 183.496
x(i+1) = 1300 from measurement 7/29/2013 from location MW-4
Rosner Statistic R = |1300 - 1762.14|/183.496 = 2.51854
Lambda(46, 5, 0.01) = 3.4
2.51854 < 3.4 -- No outliers detected for i = 4

Iteration i = 3

Mean of 43 measurements = 1773.49
Std Dev = 195.97
x(i+1) = 2250 from measurement 1/27/2016 from location MW-4
Rosner Statistic R = |2250 - 1773.49|/195.97 = 2.43155
Lambda(46, 4, 0.01) = 3.41
2.43155 < 3.41 -- No outliers detected for i = 3

Iteration i = 2

Mean of 44 measurements = 1759.09
Std Dev = 215.944
x(i+1) = 1140 from measurement 4/30/2010 from location MW-4
Rosner Statistic R = |1140 - 1759.09|/215.944 = 2.86691
Lambda(46, 3, 0.01) = 3.43
2.86691 < 3.43 -- No outliers detected for i = 2

Iteration i = 1

Mean of 45 measurements = 1773.33
Std Dev = 233.88
x(i+1) = 2400 from measurement 1/29/2018 from location MW-4
Rosner Statistic R = |2400 - 1773.33|/233.88 = 2.67943
Lambda(46, 2, 0.01) = 3.44
2.67943 < 3.44 -- No outliers detected for i = 1

Iteration i = 0

Mean of 46 measurements = 1758.48
Std Dev = 252.261
x(i+1) = 1090 from measurement 1/27/2015 from location MW-4
Rosner Statistic R = |1090 - 1758.48|/252.261 = 2.64995
Lambda(46, 1, 0.01) = 3.45
2.64995 < 3.45 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 1844.07

10 most extreme of 59 measurements

by order of magnitude difference from the mean

1	4/30/2010	MW-5	2740	895.932
2	10/20/2015	MW-5	1080	-764.068
3	4/12/2018	MW-5	2570	725.932
4	10/27/2017	MW-5	2510	665.932
5	1/29/2018	MW-5	2460	615.932
6	1/27/2015	MW-5	1260	-584.068
7	4/27/2017	MW-5	2410	565.932
8	1/29/2013	MW-5	1300	-544.068
9	12/5/2012	MW-5	1300	-544.068
10	10/30/2013	MW-5	1300	-544.068

Iteration i = 9

Mean of 50 measurements = 1823.4
Std Dev = 209.583
x(i+1) = 1300 from measurement 10/30/2013 from location MW-5
Rosner Statistic R = |1300 - 1823.4|/209.583 = 2.49734
Lambda(59, 10, 0.01) = 3.48
2.49734 < 3.48 -- No outliers detected for i = 9

Iteration i = 8

Mean of 51 measurements = 1813.14
Std Dev = 220.041
x(i+1) = 1300 from measurement 12/5/2012 from location MW-5
Rosner Statistic R = |1300 - 1813.14|/220.041 = 2.33201
Lambda(59, 9, 0.01) = 3.4884
2.33201 < 3.4884 -- No outliers detected for i = 8

Iteration i = 7

Mean of 52 measurements = 1803.27
Std Dev = 229.199
x(i+1) = 1300 from measurement 1/29/2013 from location MW-5
Rosner Statistic R = |1300 - 1803.27|/229.199 = 2.19577
Lambda(59, 8, 0.01) = 3.4968
2.19577 < 3.4968 -- No outliers detected for i = 7

Iteration i = 6

Mean of 53 measurements = 1814.72
Std Dev = 241.801
x(i+1) = 2410 from measurement 4/27/2017 from location MW-5
Rosner Statistic R = |2410 - 1814.72|/241.801 = 2.46187
Lambda(59, 7, 0.01) = 3.5052
2.46187 < 3.5052 -- No outliers detected for i = 6

Iteration i = 5

Mean of 54 measurements = 1804.44
Std Dev = 251.123
x(i+1) = 1260 from measurement 1/27/2015 from location MW-5
Rosner Statistic R = |1260 - 1804.44|/251.123 = 2.16804
Lambda(59, 6, 0.01) = 3.5136
2.16804 < 3.5136 -- No outliers detected for i = 5

Iteration i = 4

Mean of 55 measurements = 1816.36
Std Dev = 264.024
x(i+1) = 2460 from measurement 1/29/2018 from location MW-5
Rosner Statistic R = |2460 - 1816.36|/264.024 = 2.43779
Lambda(59, 5, 0.01) = 3.522
2.43779 < 3.522 -- No outliers detected for i = 4

Iteration i = 3

Mean of 56 measurements = 1828.75
Std Dev = 277.548
x(i+1) = 2510 from measurement 10/27/2017 from location MW-5
Rosner Statistic R = |2510 - 1828.75|/277.548 = 2.45453
Lambda(59, 4, 0.01) = 3.532
2.45453 < 3.532 -- No outliers detected for i = 3

Iteration i = 2

Mean of 57 measurements = 1841.75
Std Dev = 292.056
x(i+1) = 2570 from measurement 4/12/2018 from location MW-5
Rosner Statistic R = |2570 - 1841.75|/292.056 = 2.49351
Lambda(59, 3, 0.01) = 3.541
2.49351 < 3.541 -- No outliers detected for i = 2

Iteration i = 1

Mean of 58 measurements = 1828.62
Std Dev = 306.276
x(i+1) = 1080 from measurement 10/20/2015 from location MW-5
Rosner Statistic R = |1080 - 1828.62|/306.276 = 2.44427
Lambda(59, 2, 0.01) = 3.542
2.44427 < 3.542 -- No outliers detected for i = 1

Iteration i = 0

Mean of 59 measurements = 1844.07
Std Dev = 325.985
x(i+1) = 2740 from measurement 4/30/2010 from location MW-5
Rosner Statistic R = |2740 - 1844.07|/325.985 = 2.74839
Lambda(59, 1, 0.01) = 3.552
2.74839 < 3.552 -- No outliers detected for i = 0

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 1947.46

10 most extreme of 59 measurements

by order of magnitude difference from the mean

1	10/23/2014	MW-6	6160	4212.54
2	4/30/2010	MW-6	2820	872.542
3	10/20/2015	MW-6	1130	-817.458
4	1/27/2015	MW-6	1200	-747.458
5	10/30/2013	MW-6	1200	-747.458
6	12/5/2012	MW-6	1300	-647.458
7	4/12/2018	MW-6	2540	592.542
8	10/27/2017	MW-6	2510	562.542
9	1/29/2018	MW-6	2510	562.542
10	1/29/2013	MW-6	1400	-547.458

Iteration i = 9

Mean of 50 measurements = 1870.6
Std Dev = 220.486
x(i+1) = 1400 from measurement 1/29/2013 from location MW-6
Rosner Statistic R = |1400 - 1870.6|/220.486 = 2.13438
Lambda(59, 10, 0.01) = 3.48
2.13438 < 3.48 -- No outliers detected for i = 9

Iteration i = 8

Mean of 51 measurements = 1883.14
Std Dev = 235.919
x(i+1) = 2510 from measurement 1/29/2018 from location MW-6
Rosner Statistic R = |2510 - 1883.14|/235.919 = 2.65711
Lambda(59, 9, 0.01) = 3.4884
2.65711 < 3.4884 -- No outliers detected for i = 8

Iteration i = 7

Mean of 52 measurements = 1895.19
Std Dev = 249.246
x(i+1) = 2510 from measurement 10/27/2017 from location MW-6
Rosner Statistic R = |2510 - 1895.19|/249.246 = 2.46667
Lambda(59, 8, 0.01) = 3.4968
2.46667 < 3.4968 -- No outliers detected for i = 7

Iteration i = 6

Mean of 53 measurements = 1907.36
Std Dev = 262.247
x(i+1) = 2540 from measurement 4/12/2018 from location MW-6
Rosner Statistic R = |2540 - 1907.36|/262.247 = 2.41239
Lambda(59, 7, 0.01) = 3.5052
2.41239 < 3.5052 -- No outliers detected for i = 6

Iteration i = 5

Mean of 54 measurements = 1896.11
Std Dev = 272.594
x(i+1) = 1300 from measurement 12/5/2012 from location MW-6
Rosner Statistic R = |1300 - 1896.11|/272.594 = 2.18681
Lambda(59, 6, 0.01) = 3.5136
2.18681 < 3.5136 -- No outliers detected for i = 5

Iteration i = 4

Mean of 55 measurements = 1883.45
Std Dev = 285.905
x(i+1) = 1200 from measurement 10/30/2013 from location MW-6
Rosner Statistic R = |1200 - 1883.45|/285.905 = 2.3905
Lambda(59, 5, 0.01) = 3.522
2.3905 < 3.522 -- No outliers detected for i = 4

Iteration i = 3

Mean of 56 measurements = 1871.25
Std Dev = 297.652
x(i+1) = 1200 from measurement 1/27/2015 from location MW-6
Rosner Statistic R = |1200 - 1871.25|/297.652 = 2.25515
Lambda(59, 4, 0.01) = 3.532
2.25515 < 3.532 -- No outliers detected for i = 3

Iteration i = 2

Mean of 57 measurements = 1858.25
Std Dev = 310.892
x(i+1) = 1130 from measurement 10/20/2015 from location MW-6
Rosner Statistic R = |1130 - 1858.25|/310.892 = 2.34244
Lambda(59, 3, 0.01) = 3.541
2.34244 < 3.541 -- No outliers detected for i = 2

Iteration i = 1

Mean of 58 measurements = 1874.83
Std Dev = 333.026
x(i+1) = 2820 from measurement 4/30/2010 from location MW-6
Rosner Statistic R = |2820 - 1874.83|/333.026 = 2.83814
Lambda(59, 2, 0.01) = 3.542
2.83814 < 3.542 -- No outliers detected for i = 1

Iteration i = 0

Mean of 59 measurements = 1947.46
Std Dev = 648.249
x(i+1) = 6160 from measurement 10/23/2014 from location MW-6
Rosner Statistic R = |6160 - 1947.46|/648.249 = 6.49834
Lambda(59, 1, 0.01) = 3.552
6.49834 > 3.552 -- Measurement 10/23/2014 for location MW-6 is an outlier

Rosner's Test for Outliers

Parameter: Total Dissolved Solids

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 2045

10 most extreme of 26 measurements

by order of magnitude difference from the mean

1	4/30/2010	MW-7	5820	3775
2	1/27/2015	MW-7	1190	-855
3	7/17/2014	MW-7	1400	-645
4	1/29/2013	MW-7	1400	-645
5	7/26/2016	MW-7	2630	585
6	1/29/2018	MW-7	2610	565
7	7/29/2013	MW-7	1500	-545
8	7/29/2019	MW-7	1590	-455
9	1/30/2019	MW-7	1640	-405
10	1/30/2017	MW-7	1730	-315

Iteration i = 9

Mean of 17 measurements = 1964.12
Std Dev = 178.713
x(i+1) = 1730 from measurement 1/30/2017 from location MW-7
Rosner Statistic R = |1730 - 1964.12|/178.713 = 1.31002
Lambda(26, 10, 0.01) = 2.89
1.31002 < 2.89 -- No outliers detected for i = 9

Iteration i = 8

Mean of 18 measurements = 1946.11
Std Dev = 189.462
x(i+1) = 1640 from measurement 1/30/2019 from location MW-7
Rosner Statistic R = |1640 - 1946.11|/189.462 = 1.61569
Lambda(26, 9, 0.01) = 2.924
1.61569 < 2.924 -- No outliers detected for i = 8

Iteration i = 7

Mean of 19 measurements = 1927.37
Std Dev = 201.435
x(i+1) = 1590 from measurement 7/29/2019 from location MW-7
Rosner Statistic R = |1590 - 1927.37|/201.435 = 1.67483
Lambda(26, 8, 0.01) = 2.958
1.67483 < 2.958 -- No outliers detected for i = 7

Iteration i = 6

Mean of 20 measurements = 1906
Std Dev = 218.112
x(i+1) = 1500 from measurement 7/29/2013 from location MW-7
Rosner Statistic R = |1500 - 1906|/218.112 = 1.86143
Lambda(26, 7, 0.01) = 2.992
1.86143 < 2.992 -- No outliers detected for i = 6

Iteration i = 5

Mean of 21 measurements = 1939.52
Std Dev = 262.288
x(i+1) = 2610 from measurement 1/29/2018 from location MW-7
Rosner Statistic R = |2610 - 1939.52|/262.288 = 2.55626
Lambda(26, 6, 0.01) = 3.026
2.55626 < 3.026 -- No outliers detected for i = 5

Iteration i = 4

Mean of 22 measurements = 1970.91
Std Dev = 295.279
x(i+1) = 2630 from measurement 7/26/2016 from location MW-7
Rosner Statistic R = |2630 - 1970.91|/295.279 = 2.2321
Lambda(26, 5, 0.01) = 3.06
2.2321 < 3.06 -- No outliers detected for i = 4

Iteration i = 3

Mean of 23 measurements = 1946.09
Std Dev = 312.086
x(i+1) = 1400 from measurement 1/29/2013 from location MW-7
Rosner Statistic R = |1400 - 1946.09|/312.086 = 1.7498
Lambda(26, 4, 0.01) = 3.09
1.7498 < 3.09 -- No outliers detected for i = 3

Iteration i = 2

Mean of 24 measurements = 1923.33
Std Dev = 324.944
x(i+1) = 1400 from measurement 7/17/2014 from location MW-7
Rosner Statistic R = |1400 - 1923.33|/324.944 = 1.61054
Lambda(26, 3, 0.01) = 3.11
1.61054 < 3.11 -- No outliers detected for i = 2

Iteration i = 1

Mean of 25 measurements = 1894
Std Dev = 350.286
x(i+1) = 1190 from measurement 1/27/2015 from location MW-7
Rosner Statistic R = |1190 - 1894|/350.286 = 2.00979
Lambda(26, 2, 0.01) = 3.14
2.00979 < 3.14 -- No outliers detected for i = 1

Iteration i = 0

Mean of 26 measurements = 2045
Std Dev = 842.982
x(i+1) = 5820 from measurement 4/30/2010 from location MW-7
Rosner Statistic R = |5820 - 2045|/842.982 = 4.47815
Lambda(26, 1, 0.01) = 3.16
4.47815 > 3.16 -- Measurement 4/30/2010 for location MW-7 is an outlier

Theil-Sen Trend Test Analysis

User Selected Options	
Date/Time of Computation	8/9/2019 3:31:18 PM
From File	KerseyData_3Q19_a.xls
Full Precision	OFF
Average Replicates	Replicates at sampling events will be averaged!
Confidence Coefficient	0.99
Level of Significance	0.01

RESULT-Benzene (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	128.9
M2	222.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Benzene (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	128.9
M2	222.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Benzene (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	523.2
M2	802.8
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Benzene (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	523
M2	803
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Benzene (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	850.8
M2	1229
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Benzene (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	843.6
M2	1236
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Benzene (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	117.9
M2	207.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	128.7
M2	222.3
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	128.9
M2	222.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	521.5
M2	804.5
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	521.2
M2	804.8
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	850.1
M2	1230
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	839.8
M2	1240
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Toluene (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	117.9
M2	207.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	128.9
M2	222.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	128.9
M2	222.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	521.5
M2	804.5
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	523
M2	803
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	853.5
M2	1227
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	853.5
M2	1227
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Ethylbenzene (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	0
Theil-Sen Intercept	0.5
M1	117.9
M2	207.1
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	117
M2	234
99% LCL of Slope (0.005)	-1.854E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	117
M2	234
99% LCL of Slope (0.005)	-1.854E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	511.8
M2	814.2
99% LCL of Slope (0.005)	-1.357E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1326
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	510.1
M2	815.9
99% LCL of Slope (0.005)	-1.675E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	825.8
M2	1254
99% LCL of Slope (0.005)	-1.259E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2080
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	824.3
M2	1256
99% LCL of Slope (0.005)	-1.541E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total xylenes (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	0
Theil-Sen Intercept	0.75
M1	106.9
M2	218.1
99% LCL of Slope (0.005)	-1.954E-4
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Chloride (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0.0278
Theil-Sen Intercept	241.7
M1	113.7
M2	237.3
99% LCL of Slope (0.005)	-0.0076
99% UCL of Slope (0.995)	0.0637

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Chloride (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0.0299
Theil-Sen Intercept	225.2
M1	113.7
M2	237.3
99% LCL of Slope (0.005)	-0.0117
99% UCL of Slope (0.995)	0.072

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Chloride (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1225
Theil-Sen Slope	0.0216
Theil-Sen Intercept	244.3
M1'	473.5
One-sided 99% lower limit of Slope	0.00202
99% LCL of Slope (0.005)	0
99% UCL of Slope (0.995)	0.0443

Statistically significant evidence of an increasing trend at the specified level of significance.

RESULT-Chloride (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1225
Theil-Sen Slope	0.0293
Theil-Sen Intercept	232.1
M1'	473.5
One-sided 99% lower limit of Slope	0.0106
99% LCL of Slope (0.005)	0.00821
99% UCL of Slope (0.995)	0.0527

Statistically significant evidence of an increasing trend at the specified level of significance.

RESULT-Chloride (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1953
Theil-Sen Slope	0.0175
Theil-Sen Intercept	249.6
M1	759.4
M2	1194
99% LCL of Slope (0.005)	-2.360E-4
99% UCL of Slope (0.995)	0.0383

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Chloride (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1953
Theil-Sen Slope	0.00932
Theil-Sen Intercept	261.7
M1	759.4
M2	1194
99% LCL of Slope (0.005)	-0.0101
99% UCL of Slope (0.995)	0.0337

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Chloride (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	0.00945
Theil-Sen Intercept	295.5
M1	104.1
M2	220.9
99% LCL of Slope (0.005)	-0.0234
99% UCL of Slope (0.995)	0.0508

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0.0531
Theil-Sen Intercept	695.3
M1	113.7
M2	237.3
99% LCL of Slope (0.005)	-0.0366
99% UCL of Slope (0.995)	0.153

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	0.021
Theil-Sen Intercept	721.6
M1	113.7
M2	237.3
99% LCL of Slope (0.005)	-0.066
99% UCL of Slope (0.995)	0.119

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1275
Theil-Sen Slope	0.0248
Theil-Sen Intercept	722.7
M1	478.9
M2	796.1
99% LCL of Slope (0.005)	-0.0416
99% UCL of Slope (0.995)	0.109

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1275
Theil-Sen Slope	0.0573
Theil-Sen Intercept	683.3
M1	478.9
M2	796.1
99% LCL of Slope (0.005)	-0.0145
99% UCL of Slope (0.995)	0.147

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2016
Theil-Sen Slope	0.00741
Theil-Sen Intercept	737.7
M1	785.7
M2	1230
99% LCL of Slope (0.005)	-0.0483
99% UCL of Slope (0.995)	0.0751

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	2016
Theil-Sen Slope	-0.0267
Theil-Sen Intercept	761.8
M1	785.7
M2	1230
99% LCL of Slope (0.005)	-0.0878
99% UCL of Slope (0.995)	0.0388

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Sulfate (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	0.0295
Theil-Sen Intercept	724.7
M1	104.1
M2	220.9
99% LCL of Slope (0.005)	-0.0759
99% UCL of Slope (0.995)	0.149

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-1)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	-0.0626
Theil-Sen Intercept	1883
M1	113.7
M2	237.3
99% LCL of Slope (0.005)	-0.233
99% UCL of Slope (0.995)	0.152

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-2)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	351
Theil-Sen Slope	-0.0338
Theil-Sen Intercept	1829
M1	113.8
M2	237.2
99% LCL of Slope (0.005)	-0.201
99% UCL of Slope (0.995)	0.182

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-3)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1035
Theil-Sen Slope	-0.0864
Theil-Sen Intercept	1875
M1	381.7
M2	653.3
99% LCL of Slope (0.005)	-0.234
99% UCL of Slope (0.995)	0

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-4)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1035
Theil-Sen Slope	-0.0403
Theil-Sen Intercept	1850
M1	381.7
M2	653.3
99% LCL of Slope (0.005)	-0.118
99% UCL of Slope (0.995)	0.0432

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-5)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1711
Theil-Sen Slope	-0.0426
Theil-Sen Intercept	1865
M1	658.7
M2	1052
99% LCL of Slope (0.005)	-0.129
99% UCL of Slope (0.995)	0.0851

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-6)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	1711
Theil-Sen Slope	-0.0585
Theil-Sen Intercept	1962
M1	658.7
M2	1052
99% LCL of Slope (0.005)	-0.143
99% UCL of Slope (0.995)	0.0749

Insufficient evidence to identify a significant trend at the specified level of significance.

RESULT-Total dissolved solids (MW-7)

Approximate inference for Theil-Sen Trend Test

Number of Slopes	325
Theil-Sen Slope	-0.099
Theil-Sen Intercept	1990
M1	104.1
M2	220.9
99% LCL of Slope (0.005)	-0.359
99% UCL of Slope (0.995)	0.144

Insufficient evidence to identify a significant trend at the specified level of significance.

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30

ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34
ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35

ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35

ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35
ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35

ND<0.25 U	ND<0.25 U	0	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35

ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.25 U	0.25	99	35
ND<0.5 U	ND<0.25 U	0.25	100	35
ND<0.5 U	ND<0.25 U	0.25	101	35
ND<0.5 U	ND<0.25 U	0.25	102	35
ND<0.5 U	ND<0.25 U	0.25	103	35
ND<0.5 U	ND<0.25 U	0.25	104	35
ND<0.5 U	ND<0.25 U	0.25	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

S Statistic = 105 - 35 = 70

Tied Group	**Value**	**Members**
1	0.5	20
2	0.25	7

Time Period	**Observations**
11/24/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

```
10/13/2010                    1
1/14/2011                     1
4/21/2011                     1
7/21/2011                     1
10/31/2011                    1
1/13/2012                     1
4/27/2012                     1
7/26/2012                     1
10/18/2012                    1
1/29/2013                     1
7/29/2013                     1
1/31/2014                     1
7/17/2014                     1
1/27/2015                     1
7/21/2015                     1
1/27/2016                     1
7/26/2016                     1
1/30/2017                     1
7/24/2017                     1
1/29/2018                     1
7/24/2018                     1
1/30/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 17898
B = 0
C = 7050
D = 0
E = 422
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 1306.67
Z-Score = 1.90883
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.90883| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30

ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34
ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35

ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35

ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35
ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.25 U	ND<0.25 U	0	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.25 U	0.25	99	35
ND<0.5 U	ND<0.25 U	0.25	100	35
ND<0.5 U	ND<0.25 U	0.25	101	35
ND<0.5 U	ND<0.25 U	0.25	102	35
ND<0.5 U	ND<0.25 U	0.25	103	35
ND<0.5 U	ND<0.25 U	0.25	104	35
ND<0.5 U	ND<0.25 U	0.25	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

S Statistic = 105 - 35 = 70

Tied Group	**Value**	**Members**
1	0.5	20
2	0.25	7

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

```
10/13/2010          1
1/14/2011           1
4/21/2011           1
7/21/2011           1
10/31/2011          1
1/13/2012           1
4/27/2012           1
7/26/2012           1
10/18/2012          1
1/29/2013           1
7/29/2013           1
1/31/2014           1
7/17/2014           1
1/27/2015           1
7/21/2015           1
1/27/2016           1
7/26/2016           1
1/30/2017           1
7/24/2017           1
1/29/2018           1
7/24/2018           1
1/30/2019           1
7/29/2019           1
There are 0 time periods with multiple data
```

```
A = 17898
B = 0
C = 7050
D = 0
E = 422
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 1306.67
Z-Score = 1.90883
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.90883| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.5 U	ND<0.5 U	0	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23

ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.5 U	ND<0.5 U	0	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.5 U	ND<0.5 U	0	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30
ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34
ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.25 U	ND<0.5 U	-0.25	0	36
ND<0.25 U	ND<0.5 U	-0.25	0	37
ND<0.25 U	ND<0.5 U	-0.25	0	38
ND<0.25 U	ND<0.5 U	-0.25	0	39
ND<0.25 U	ND<0.5 U	-0.25	0	40
ND<0.25 U	ND<0.5 U	-0.25	0	41
ND<0.25 U	ND<0.5 U	-0.25	0	42
ND<0.25 U	ND<0.5 U	-0.25	0	43
ND<0.25 U	ND<0.5 U	-0.25	0	44
ND<0.25 U	ND<0.5 U	-0.25	0	45
ND<0.25 U	ND<0.5 U	-0.25	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46

ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.5 U	ND<0.5 U	0	0	46
ND<0.25 U	ND<0.5 U	-0.25	0	47
ND<0.25 U	ND<0.5 U	-0.25	0	48
ND<0.5 U	ND<0.5 U	0	0	48
ND<0.25 U	ND<0.5 U	-0.25	0	49
ND<0.25 U	ND<0.5 U	-0.25	0	50
ND<0.25 U	ND<0.5 U	-0.25	0	51
ND<0.25 U	ND<0.5 U	-0.25	0	52
ND<0.25 U	ND<0.5 U	-0.25	0	53
ND<0.25 U	ND<0.5 U	-0.25	0	54
ND<0.25 U	ND<0.5 U	-0.25	0	55
ND<0.25 U	ND<0.5 U	-0.25	0	56
ND<0.25 U	ND<0.5 U	-0.25	0	57
ND<0.25 U	ND<0.5 U	-0.25	0	58
ND<0.25 U	ND<0.5 U	-0.25	0	59
ND<0.25 U	ND<0.5 U	-0.25	0	60
ND<0.25 U	ND<0.5 U	-0.25	0	61
ND<0.25 U	ND<0.5 U	-0.25	0	62
ND<0.25 U	ND<0.5 U	-0.25	0	63
ND<0.25 U	ND<0.5 U	-0.25	0	64
ND<0.25 U	ND<0.5 U	-0.25	0	65
ND<0.25 U	ND<0.5 U	-0.25	0	66
ND<0.25 U	ND<0.5 U	-0.25	0	67
ND<0.25 U	ND<0.5 U	-0.25	0	68
ND<0.25 U	ND<0.5 U	-0.25	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.5 U	ND<0.5 U	0	0	69
ND<0.25 U	ND<0.5 U	-0.25	0	70
ND<0.25 U	ND<0.5 U	-0.25	0	71
ND<0.5 U	ND<0.5 U	0	0	71

ND<0.25 U	ND<0.5 U	-0.25	0	72
ND<0.25 U	ND<0.5 U	-0.25	0	73
ND<0.25 U	ND<0.5 U	-0.25	0	74
ND<0.25 U	ND<0.5 U	-0.25	0	75
ND<0.25 U	ND<0.5 U	-0.25	0	76
ND<0.25 U	ND<0.5 U	-0.25	0	77
ND<0.25 U	ND<0.5 U	-0.25	0	78
ND<0.25 U	ND<0.5 U	-0.25	0	79
ND<0.25 U	ND<0.5 U	-0.25	0	80
ND<0.25 U	ND<0.5 U	-0.25	0	81
ND<0.25 U	ND<0.5 U	-0.25	0	82
ND<0.25 U	ND<0.5 U	-0.25	0	83
ND<0.25 U	ND<0.5 U	-0.25	0	84
ND<0.25 U	ND<0.5 U	-0.25	0	85
ND<0.25 U	ND<0.5 U	-0.25	0	86
ND<0.25 U	ND<0.5 U	-0.25	0	87
ND<0.25 U	ND<0.5 U	-0.25	0	88
ND<0.25 U	ND<0.5 U	-0.25	0	89
ND<0.25 U	ND<0.5 U	-0.25	0	90
ND<0.25 U	ND<0.5 U	-0.25	0	91
ND<0.25 U	ND<0.5 U	-0.25	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.5 U	ND<0.5 U	0	0	92
ND<0.25 U	ND<0.5 U	-0.25	0	93
ND<0.25 U	ND<0.5 U	-0.25	0	94
ND<0.5 U	ND<0.5 U	0	0	94
ND<0.25 U	ND<0.5 U	-0.25	0	95
ND<0.25 U	ND<0.5 U	-0.25	0	96
ND<0.25 U	ND<0.5 U	-0.25	0	97
ND<0.25 U	ND<0.5 U	-0.25	0	98
ND<0.25 U	ND<0.5 U	-0.25	0	99
ND<0.25 U	ND<0.5 U	-0.25	0	100
ND<0.25 U	ND<0.5 U	-0.25	0	101
ND<0.25 U	ND<0.5 U	-0.25	0	102
ND<0.25 U	ND<0.5 U	-0.25	0	103

ND<0.25 U	ND<0.5 U	-0.25	0	104
ND<0.25 U	ND<0.5 U	-0.25	0	105
ND<0.25 U	ND<0.5 U	-0.25	0	106
ND<0.25 U	ND<0.5 U	-0.25	0	107
ND<0.25 U	ND<0.5 U	-0.25	0	108
ND<0.25 U	ND<0.5 U	-0.25	0	109
ND<0.25 U	ND<0.5 U	-0.25	0	110
ND<0.25 U	ND<0.5 U	-0.25	0	111
ND<0.25 U	ND<0.5 U	-0.25	0	112
ND<0.25 U	ND<0.5 U	-0.25	0	113
ND<0.25 U	ND<0.5 U	-0.25	0	114
ND<0.25 U	ND<0.5 U	-0.25	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.5 U	ND<0.5 U	0	0	115
ND<0.25 U	ND<0.5 U	-0.25	0	116
ND<0.25 U	ND<0.5 U	-0.25	0	117
ND<0.5 U	ND<0.5 U	0	0	117
ND<0.25 U	ND<0.5 U	-0.25	0	118
ND<0.25 U	ND<0.5 U	-0.25	0	119
ND<0.25 U	ND<0.5 U	-0.25	0	120
ND<0.25 U	ND<0.5 U	-0.25	0	121
ND<0.25 U	ND<0.5 U	-0.25	0	122
ND<0.25 U	ND<0.5 U	-0.25	0	123
ND<0.25 U	ND<0.5 U	-0.25	0	124
ND<0.25 U	ND<0.5 U	-0.25	0	125
ND<0.25 U	ND<0.5 U	-0.25	0	126
ND<0.25 U	ND<0.5 U	-0.25	0	127
ND<0.25 U	ND<0.5 U	-0.25	0	128
ND<0.25 U	ND<0.5 U	-0.25	0	129
ND<0.25 U	ND<0.5 U	-0.25	0	130
ND<0.25 U	ND<0.5 U	-0.25	0	131
ND<0.25 U	ND<0.5 U	-0.25	0	132
ND<0.25 U	ND<0.5 U	-0.25	0	133
ND<0.25 U	ND<0.5 U	-0.25	0	134
ND<0.25 U	ND<0.5 U	-0.25	0	135
ND<0.25 U	ND<0.5 U	-0.25	0	136

ND<0.25 U	ND<0.5 U	-0.25	0	137
ND<0.25 U	ND<0.5 U	-0.25	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.5 U	ND<0.5 U	0	0	138
ND<0.25 U	ND<0.5 U	-0.25	0	139
ND<0.25 U	ND<0.5 U	-0.25	0	140
ND<0.5 U	ND<0.5 U	0	0	140
ND<0.25 U	ND<0.5 U	-0.25	0	141
ND<0.25 U	ND<0.5 U	-0.25	0	142
ND<0.25 U	ND<0.5 U	-0.25	0	143
ND<0.25 U	ND<0.5 U	-0.25	0	144
ND<0.25 U	ND<0.5 U	-0.25	0	145
ND<0.25 U	ND<0.5 U	-0.25	0	146
ND<0.25 U	ND<0.5 U	-0.25	0	147
ND<0.25 U	ND<0.5 U	-0.25	0	148
ND<0.25 U	ND<0.5 U	-0.25	0	149
ND<0.25 U	ND<0.5 U	-0.25	0	150
ND<0.25 U	ND<0.5 U	-0.25	0	151
ND<0.25 U	ND<0.5 U	-0.25	0	152
ND<0.25 U	ND<0.5 U	-0.25	0	153
ND<0.25 U	ND<0.5 U	-0.25	0	154
ND<0.25 U	ND<0.5 U	-0.25	0	155
ND<0.25 U	ND<0.5 U	-0.25	0	156
ND<0.25 U	ND<0.5 U	-0.25	0	157
ND<0.25 U	ND<0.5 U	-0.25	0	158
ND<0.25 U	ND<0.5 U	-0.25	0	159
ND<0.25 U	ND<0.5 U	-0.25	0	160
ND<0.25 U	ND<0.5 U	-0.25	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161

ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.5 U	ND<0.5 U	0	0	161
ND<0.25 U	ND<0.5 U	-0.25	0	162
ND<0.25 U	ND<0.5 U	-0.25	0	163
ND<0.5 U	ND<0.5 U	0	0	163
ND<0.25 U	ND<0.5 U	-0.25	0	164
ND<0.25 U	ND<0.5 U	-0.25	0	165
ND<0.25 U	ND<0.5 U	-0.25	0	166
ND<0.25 U	ND<0.5 U	-0.25	0	167
ND<0.25 U	ND<0.5 U	-0.25	0	168
ND<0.25 U	ND<0.5 U	-0.25	0	169
ND<0.25 U	ND<0.5 U	-0.25	0	170
ND<0.25 U	ND<0.5 U	-0.25	0	171
ND<0.25 U	ND<0.5 U	-0.25	0	172
ND<0.25 U	ND<0.5 U	-0.25	0	173
ND<0.25 U	ND<0.5 U	-0.25	0	174
ND<0.25 U	ND<0.5 U	-0.25	0	175
ND<0.25 U	ND<0.5 U	-0.25	0	176
ND<0.25 U	ND<0.5 U	-0.25	0	177
ND<0.25 U	ND<0.5 U	-0.25	0	178
ND<0.25 U	ND<0.5 U	-0.25	0	179
ND<0.25 U	ND<0.5 U	-0.25	0	180
ND<0.25 U	ND<0.5 U	-0.25	0	181
ND<0.25 U	ND<0.5 U	-0.25	0	182
ND<0.25 U	ND<0.5 U	-0.25	0	183
ND<0.25 U	ND<0.5 U	-0.25	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.5 U	ND<0.5 U	0	0	184
ND<0.25 U	ND<0.5 U	-0.25	0	185

ND<0.25 U	ND<0.5 U	-0.25	0	186
ND<0.5 U	ND<0.5 U	0	0	186
ND<0.25 U	ND<0.5 U	-0.25	0	187
ND<0.25 U	ND<0.5 U	-0.25	0	188
ND<0.25 U	ND<0.5 U	-0.25	0	189
ND<0.25 U	ND<0.5 U	-0.25	0	190
ND<0.25 U	ND<0.5 U	-0.25	0	191
ND<0.25 U	ND<0.5 U	-0.25	0	192
ND<0.25 U	ND<0.5 U	-0.25	0	193
ND<0.25 U	ND<0.5 U	-0.25	0	194
ND<0.25 U	ND<0.5 U	-0.25	0	195
ND<0.25 U	ND<0.5 U	-0.25	0	196
ND<0.25 U	ND<0.5 U	-0.25	0	197
ND<0.25 U	ND<0.5 U	-0.25	0	198
ND<0.25 U	ND<0.5 U	-0.25	0	199
ND<0.25 U	ND<0.5 U	-0.25	0	200
ND<0.25 U	ND<0.5 U	-0.25	0	201
ND<0.25 U	ND<0.5 U	-0.25	0	202
ND<0.25 U	ND<0.5 U	-0.25	0	203
ND<0.25 U	ND<0.5 U	-0.25	0	204
ND<0.25 U	ND<0.5 U	-0.25	0	205
ND<0.25 U	ND<0.5 U	-0.25	0	206
ND<0.25 U	ND<0.5 U	-0.25	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.5 U	ND<0.5 U	0	0	207
ND<0.25 U	ND<0.25 U	0	0	207
ND<0.5 U	ND<0.25 U	0.25	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207

ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.25 U	ND<0.25 U	0	1	207
ND<0.5 U	ND<0.25 U	0.25	2	207
ND<0.5 U	ND<0.25 U	0.25	3	207
ND<0.5 U	ND<0.25 U	0.25	4	207
ND<0.5 U	ND<0.25 U	0.25	5	207
ND<0.5 U	ND<0.25 U	0.25	6	207
ND<0.5 U	ND<0.25 U	0.25	7	207
ND<0.5 U	ND<0.25 U	0.25	8	207
ND<0.5 U	ND<0.25 U	0.25	9	207
ND<0.5 U	ND<0.25 U	0.25	10	207
ND<0.5 U	ND<0.25 U	0.25	11	207
ND<0.5 U	ND<0.25 U	0.25	12	207
ND<0.5 U	ND<0.25 U	0.25	13	207
ND<0.5 U	ND<0.25 U	0.25	14	207
ND<0.5 U	ND<0.25 U	0.25	15	207
ND<0.5 U	ND<0.25 U	0.25	16	207
ND<0.5 U	ND<0.25 U	0.25	17	207
ND<0.5 U	ND<0.25 U	0.25	18	207
ND<0.5 U	ND<0.25 U	0.25	19	207
ND<0.5 U	ND<0.25 U	0.25	20	207
ND<0.5 U	ND<0.25 U	0.25	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.25 U	ND<0.25 U	0	21	207
ND<0.5 U	ND<0.25 U	0.25	22	207
ND<0.5 U	ND<0.25 U	0.25	23	207
ND<0.5 U	ND<0.25 U	0.25	24	207
ND<0.5 U	ND<0.25 U	0.25	25	207
ND<0.5 U	ND<0.25 U	0.25	26	207
ND<0.5 U	ND<0.25 U	0.25	27	207

ND<0.5 U	ND<0.25 U	0.25	28	207
ND<0.5 U	ND<0.25 U	0.25	29	207
ND<0.5 U	ND<0.25 U	0.25	30	207
ND<0.5 U	ND<0.25 U	0.25	31	207
ND<0.5 U	ND<0.25 U	0.25	32	207
ND<0.5 U	ND<0.25 U	0.25	33	207
ND<0.5 U	ND<0.25 U	0.25	34	207
ND<0.5 U	ND<0.25 U	0.25	35	207
ND<0.5 U	ND<0.25 U	0.25	36	207
ND<0.5 U	ND<0.25 U	0.25	37	207
ND<0.5 U	ND<0.25 U	0.25	38	207
ND<0.5 U	ND<0.25 U	0.25	39	207
ND<0.5 U	ND<0.25 U	0.25	40	207
ND<0.25 U	ND<0.5 U	-0.25	40	208
ND<0.25 U	ND<0.5 U	-0.25	40	209
ND<0.25 U	ND<0.5 U	-0.25	40	210
ND<0.25 U	ND<0.5 U	-0.25	40	211
ND<0.25 U	ND<0.5 U	-0.25	40	212
ND<0.25 U	ND<0.5 U	-0.25	40	213
ND<0.25 U	ND<0.5 U	-0.25	40	214
ND<0.25 U	ND<0.5 U	-0.25	40	215
ND<0.25 U	ND<0.5 U	-0.25	40	216
ND<0.25 U	ND<0.5 U	-0.25	40	217
ND<0.25 U	ND<0.5 U	-0.25	40	218
ND<0.25 U	ND<0.5 U	-0.25	40	219
ND<0.25 U	ND<0.5 U	-0.25	40	220
ND<0.25 U	ND<0.5 U	-0.25	40	221
ND<0.25 U	ND<0.5 U	-0.25	40	222
ND<0.25 U	ND<0.5 U	-0.25	40	223
ND<0.25 U	ND<0.5 U	-0.25	40	224
ND<0.25 U	ND<0.5 U	-0.25	40	225
ND<0.25 U	ND<0.5 U	-0.25	40	226
ND<0.25 U	ND<0.5 U	-0.25	40	227
ND<0.25 U	ND<0.5 U	-0.25	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.5 U	ND<0.5 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228

ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.25 U	ND<0.25 U	0	40	228
ND<0.5 U	ND<0.25 U	0.25	41	228
ND<0.5 U	ND<0.25 U	0.25	42	228
ND<0.5 U	ND<0.25 U	0.25	43	228
ND<0.5 U	ND<0.25 U	0.25	44	228
ND<0.5 U	ND<0.25 U	0.25	45	228
ND<0.5 U	ND<0.25 U	0.25	46	228
ND<0.5 U	ND<0.25 U	0.25	47	228
ND<0.5 U	ND<0.25 U	0.25	48	228
ND<0.5 U	ND<0.25 U	0.25	49	228
ND<0.5 U	ND<0.25 U	0.25	50	228
ND<0.5 U	ND<0.25 U	0.25	51	228
ND<0.5 U	ND<0.25 U	0.25	52	228
ND<0.5 U	ND<0.25 U	0.25	53	228
ND<0.5 U	ND<0.25 U	0.25	54	228
ND<0.5 U	ND<0.25 U	0.25	55	228
ND<0.5 U	ND<0.25 U	0.25	56	228
ND<0.5 U	ND<0.25 U	0.25	57	228
ND<0.5 U	ND<0.25 U	0.25	58	228
ND<0.5 U	ND<0.25 U	0.25	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228
ND<0.25 U	ND<0.25 U	0	59	228

ND<0.5 U	ND<0.25 U	0.25	60	228
ND<0.5 U	ND<0.25 U	0.25	61	228
ND<0.5 U	ND<0.25 U	0.25	62	228
ND<0.5 U	ND<0.25 U	0.25	63	228
ND<0.5 U	ND<0.25 U	0.25	64	228
ND<0.5 U	ND<0.25 U	0.25	65	228
ND<0.5 U	ND<0.25 U	0.25	66	228
ND<0.5 U	ND<0.25 U	0.25	67	228
ND<0.5 U	ND<0.25 U	0.25	68	228
ND<0.5 U	ND<0.25 U	0.25	69	228
ND<0.5 U	ND<0.25 U	0.25	70	228
ND<0.5 U	ND<0.25 U	0.25	71	228
ND<0.5 U	ND<0.25 U	0.25	72	228
ND<0.5 U	ND<0.25 U	0.25	73	228
ND<0.5 U	ND<0.25 U	0.25	74	228
ND<0.5 U	ND<0.25 U	0.25	75	228
ND<0.5 U	ND<0.25 U	0.25	76	228
ND<0.5 U	ND<0.25 U	0.25	77	228
ND<0.5 U	ND<0.25 U	0.25	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.25 U	ND<0.25 U	0	78	228
ND<0.5 U	ND<0.25 U	0.25	79	228
ND<0.5 U	ND<0.25 U	0.25	80	228
ND<0.5 U	ND<0.25 U	0.25	81	228
ND<0.5 U	ND<0.25 U	0.25	82	228
ND<0.5 U	ND<0.25 U	0.25	83	228
ND<0.5 U	ND<0.25 U	0.25	84	228
ND<0.5 U	ND<0.25 U	0.25	85	228
ND<0.5 U	ND<0.25 U	0.25	86	228
ND<0.5 U	ND<0.25 U	0.25	87	228
ND<0.5 U	ND<0.25 U	0.25	88	228
ND<0.5 U	ND<0.25 U	0.25	89	228
ND<0.5 U	ND<0.25 U	0.25	90	228
ND<0.5 U	ND<0.25 U	0.25	91	228
ND<0.5 U	ND<0.25 U	0.25	92	228
ND<0.5 U	ND<0.25 U	0.25	93	228
ND<0.5 U	ND<0.25 U	0.25	94	228
ND<0.5 U	ND<0.25 U	0.25	95	228
ND<0.5 U	ND<0.25 U	0.25	96	228
ND<0.5 U	ND<0.25 U	0.25	97	228

ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.25 U	ND<0.25 U	0	97	228
ND<0.5 U	ND<0.25 U	0.25	98	228
ND<0.5 U	ND<0.25 U	0.25	99	228
ND<0.5 U	ND<0.25 U	0.25	100	228
ND<0.5 U	ND<0.25 U	0.25	101	228
ND<0.5 U	ND<0.25 U	0.25	102	228
ND<0.5 U	ND<0.25 U	0.25	103	228
ND<0.5 U	ND<0.25 U	0.25	104	228
ND<0.5 U	ND<0.25 U	0.25	105	228
ND<0.5 U	ND<0.25 U	0.25	106	228
ND<0.5 U	ND<0.25 U	0.25	107	228
ND<0.5 U	ND<0.25 U	0.25	108	228
ND<0.5 U	ND<0.25 U	0.25	109	228
ND<0.5 U	ND<0.25 U	0.25	110	228
ND<0.5 U	ND<0.25 U	0.25	111	228
ND<0.5 U	ND<0.25 U	0.25	112	228
ND<0.5 U	ND<0.25 U	0.25	113	228
ND<0.5 U	ND<0.25 U	0.25	114	228
ND<0.5 U	ND<0.25 U	0.25	115	228
ND<0.5 U	ND<0.25 U	0.25	116	228

ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.25 U	ND<0.25 U	0	116	228
ND<0.5 U	ND<0.25 U	0.25	117	228
ND<0.5 U	ND<0.25 U	0.25	118	228
ND<0.5 U	ND<0.25 U	0.25	119	228

ND<0.5 U	ND<0.25 U	0.25	120	228
ND<0.5 U	ND<0.25 U	0.25	121	228
ND<0.5 U	ND<0.25 U	0.25	122	228
ND<0.5 U	ND<0.25 U	0.25	123	228
ND<0.5 U	ND<0.25 U	0.25	124	228
ND<0.5 U	ND<0.25 U	0.25	125	228
ND<0.5 U	ND<0.25 U	0.25	126	228
ND<0.5 U	ND<0.25 U	0.25	127	228
ND<0.5 U	ND<0.25 U	0.25	128	228
ND<0.5 U	ND<0.25 U	0.25	129	228
ND<0.5 U	ND<0.25 U	0.25	130	228
ND<0.5 U	ND<0.25 U	0.25	131	228
ND<0.5 U	ND<0.25 U	0.25	132	228
ND<0.5 U	ND<0.25 U	0.25	133	228
ND<0.5 U	ND<0.25 U	0.25	134	228
ND<0.5 U	ND<0.25 U	0.25	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.25 U	ND<0.25 U	0	135	228
ND<0.5 U	ND<0.25 U	0.25	136	228
ND<0.5 U	ND<0.25 U	0.25	137	228
ND<0.5 U	ND<0.25 U	0.25	138	228
ND<0.5 U	ND<0.25 U	0.25	139	228
ND<0.5 U	ND<0.25 U	0.25	140	228
ND<0.5 U	ND<0.25 U	0.25	141	228
ND<0.5 U	ND<0.25 U	0.25	142	228
ND<0.5 U	ND<0.25 U	0.25	143	228
ND<0.5 U	ND<0.25 U	0.25	144	228
ND<0.5 U	ND<0.25 U	0.25	145	228
ND<0.5 U	ND<0.25 U	0.25	146	228
ND<0.5 U	ND<0.25 U	0.25	147	228
ND<0.5 U	ND<0.25 U	0.25	148	228
ND<0.5 U	ND<0.25 U	0.25	149	228
ND<0.5 U	ND<0.25 U	0.25	150	228
ND<0.5 U	ND<0.25 U	0.25	151	228
ND<0.5 U	ND<0.25 U	0.25	152	228
ND<0.5 U	ND<0.25 U	0.25	153	228
ND<0.5 U	ND<0.25 U	0.25	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228

ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.25 U	ND<0.25 U	0	154	228
ND<0.5 U	ND<0.25 U	0.25	155	228
ND<0.5 U	ND<0.25 U	0.25	156	228
ND<0.5 U	ND<0.25 U	0.25	157	228
ND<0.5 U	ND<0.25 U	0.25	158	228
ND<0.5 U	ND<0.25 U	0.25	159	228
ND<0.5 U	ND<0.25 U	0.25	160	228
ND<0.5 U	ND<0.25 U	0.25	161	228
ND<0.5 U	ND<0.25 U	0.25	162	228
ND<0.5 U	ND<0.25 U	0.25	163	228
ND<0.5 U	ND<0.25 U	0.25	164	228
ND<0.5 U	ND<0.25 U	0.25	165	228
ND<0.5 U	ND<0.25 U	0.25	166	228
ND<0.5 U	ND<0.25 U	0.25	167	228
ND<0.5 U	ND<0.25 U	0.25	168	228
ND<0.5 U	ND<0.25 U	0.25	169	228
ND<0.5 U	ND<0.25 U	0.25	170	228
ND<0.5 U	ND<0.25 U	0.25	171	228
ND<0.5 U	ND<0.25 U	0.25	172	228
ND<0.5 U	ND<0.25 U	0.25	173	228

ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.25 U	ND<0.25 U	0	173	228
ND<0.5 U	ND<0.25 U	0.25	174	228
ND<0.5 U	ND<0.25 U	0.25	175	228
ND<0.5 U	ND<0.25 U	0.25	176	228
ND<0.5 U	ND<0.25 U	0.25	177	228
ND<0.5 U	ND<0.25 U	0.25	178	228
ND<0.5 U	ND<0.25 U	0.25	179	228
ND<0.5 U	ND<0.25 U	0.25	180	228
ND<0.5 U	ND<0.25 U	0.25	181	228
ND<0.5 U	ND<0.25 U	0.25	182	228
ND<0.5 U	ND<0.25 U	0.25	183	228
ND<0.5 U	ND<0.25 U	0.25	184	228
ND<0.5 U	ND<0.25 U	0.25	185	228
ND<0.5 U	ND<0.25 U	0.25	186	228
ND<0.5 U	ND<0.25 U	0.25	187	228
ND<0.5 U	ND<0.25 U	0.25	188	228

ND<0.5 U	ND<0.25 U	0.25	189	228
ND<0.5 U	ND<0.25 U	0.25	190	228
ND<0.5 U	ND<0.25 U	0.25	191	228
ND<0.5 U	ND<0.25 U	0.25	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.25 U	ND<0.25 U	0	192	228
ND<0.5 U	ND<0.25 U	0.25	193	228
ND<0.5 U	ND<0.25 U	0.25	194	228
ND<0.5 U	ND<0.25 U	0.25	195	228
ND<0.5 U	ND<0.25 U	0.25	196	228
ND<0.5 U	ND<0.25 U	0.25	197	228
ND<0.5 U	ND<0.25 U	0.25	198	228
ND<0.5 U	ND<0.25 U	0.25	199	228
ND<0.5 U	ND<0.25 U	0.25	200	228
ND<0.5 U	ND<0.25 U	0.25	201	228
ND<0.5 U	ND<0.25 U	0.25	202	228
ND<0.5 U	ND<0.25 U	0.25	203	228
ND<0.5 U	ND<0.25 U	0.25	204	228
ND<0.5 U	ND<0.25 U	0.25	205	228
ND<0.5 U	ND<0.25 U	0.25	206	228
ND<0.5 U	ND<0.25 U	0.25	207	228
ND<0.5 U	ND<0.25 U	0.25	208	228
ND<0.5 U	ND<0.25 U	0.25	209	228
ND<0.5 U	ND<0.25 U	0.25	210	228
ND<0.5 U	ND<0.25 U	0.25	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.25 U	ND<0.25 U	0	211	228
ND<0.5 U	ND<0.25 U	0.25	212	228
ND<0.5 U	ND<0.25 U	0.25	213	228
ND<0.5 U	ND<0.25 U	0.25	214	228
ND<0.5 U	ND<0.25 U	0.25	215	228
ND<0.5 U	ND<0.25 U	0.25	216	228
ND<0.5 U	ND<0.25 U	0.25	217	228
ND<0.5 U	ND<0.25 U	0.25	218	228
ND<0.5 U	ND<0.25 U	0.25	219	228
ND<0.5 U	ND<0.25 U	0.25	220	228

ND<0.5 U	ND<0.25 U	0.25	221	228
ND<0.5 U	ND<0.25 U	0.25	222	228
ND<0.5 U	ND<0.25 U	0.25	223	228
ND<0.5 U	ND<0.25 U	0.25	224	228
ND<0.5 U	ND<0.25 U	0.25	225	228
ND<0.5 U	ND<0.25 U	0.25	226	228
ND<0.5 U	ND<0.25 U	0.25	227	228
ND<0.5 U	ND<0.25 U	0.25	228	228
ND<0.5 U	ND<0.25 U	0.25	229	228
ND<0.5 U	ND<0.25 U	0.25	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.25 U	ND<0.25 U	0	230	228
ND<0.5 U	ND<0.25 U	0.25	231	228
ND<0.5 U	ND<0.25 U	0.25	232	228
ND<0.5 U	ND<0.25 U	0.25	233	228
ND<0.5 U	ND<0.25 U	0.25	234	228
ND<0.5 U	ND<0.25 U	0.25	235	228
ND<0.5 U	ND<0.25 U	0.25	236	228
ND<0.5 U	ND<0.25 U	0.25	237	228
ND<0.5 U	ND<0.25 U	0.25	238	228
ND<0.5 U	ND<0.25 U	0.25	239	228
ND<0.5 U	ND<0.25 U	0.25	240	228
ND<0.5 U	ND<0.25 U	0.25	241	228
ND<0.5 U	ND<0.25 U	0.25	242	228
ND<0.5 U	ND<0.25 U	0.25	243	228
ND<0.5 U	ND<0.25 U	0.25	244	228
ND<0.5 U	ND<0.25 U	0.25	245	228
ND<0.5 U	ND<0.25 U	0.25	246	228
ND<0.5 U	ND<0.25 U	0.25	247	228
ND<0.5 U	ND<0.25 U	0.25	248	228
ND<0.5 U	ND<0.25 U	0.25	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.25 U	ND<0.25 U	0	249	228
ND<0.5 U	ND<0.25 U	0.25	250	228
ND<0.5 U	ND<0.25 U	0.25	251	228
ND<0.5 U	ND<0.25 U	0.25	252	228
ND<0.5 U	ND<0.25 U	0.25	253	228
ND<0.5 U	ND<0.25 U	0.25	254	228
ND<0.5 U	ND<0.25 U	0.25	255	228
ND<0.5 U	ND<0.25 U	0.25	256	228

ND<0.5 U	ND<0.25 U	0.25	257	228
ND<0.5 U	ND<0.25 U	0.25	258	228
ND<0.5 U	ND<0.25 U	0.25	259	228
ND<0.5 U	ND<0.25 U	0.25	260	228
ND<0.5 U	ND<0.25 U	0.25	261	228
ND<0.5 U	ND<0.25 U	0.25	262	228
ND<0.5 U	ND<0.25 U	0.25	263	228
ND<0.5 U	ND<0.25 U	0.25	264	228
ND<0.5 U	ND<0.25 U	0.25	265	228
ND<0.5 U	ND<0.25 U	0.25	266	228
ND<0.5 U	ND<0.25 U	0.25	267	228
ND<0.5 U	ND<0.25 U	0.25	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.25 U	ND<0.25 U	0	268	228
ND<0.5 U	ND<0.25 U	0.25	269	228
ND<0.5 U	ND<0.25 U	0.25	270	228
ND<0.5 U	ND<0.25 U	0.25	271	228
ND<0.5 U	ND<0.25 U	0.25	272	228
ND<0.5 U	ND<0.25 U	0.25	273	228
ND<0.5 U	ND<0.25 U	0.25	274	228
ND<0.5 U	ND<0.25 U	0.25	275	228
ND<0.5 U	ND<0.25 U	0.25	276	228
ND<0.5 U	ND<0.25 U	0.25	277	228
ND<0.5 U	ND<0.25 U	0.25	278	228
ND<0.5 U	ND<0.25 U	0.25	279	228
ND<0.5 U	ND<0.25 U	0.25	280	228
ND<0.5 U	ND<0.25 U	0.25	281	228
ND<0.5 U	ND<0.25 U	0.25	282	228
ND<0.5 U	ND<0.25 U	0.25	283	228
ND<0.5 U	ND<0.25 U	0.25	284	228
ND<0.5 U	ND<0.25 U	0.25	285	228
ND<0.5 U	ND<0.25 U	0.25	286	228
ND<0.5 U	ND<0.25 U	0.25	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.25 U	ND<0.25 U	0	287	228
ND<0.5 U	ND<0.25 U	0.25	288	228
ND<0.5 U	ND<0.25 U	0.25	289	228
ND<0.5 U	ND<0.25 U	0.25	290	228
ND<0.5 U	ND<0.25 U	0.25	291	228
ND<0.5 U	ND<0.25 U	0.25	292	228
ND<0.5 U	ND<0.25 U	0.25	293	228
ND<0.5 U	ND<0.25 U	0.25	294	228
ND<0.5 U	ND<0.25 U	0.25	295	228
ND<0.5 U	ND<0.25 U	0.25	296	228

ND<0.5 U	ND<0.25 U	0.25	297	228
ND<0.5 U	ND<0.25 U	0.25	298	228
ND<0.5 U	ND<0.25 U	0.25	299	228
ND<0.5 U	ND<0.25 U	0.25	300	228
ND<0.5 U	ND<0.25 U	0.25	301	228
ND<0.5 U	ND<0.25 U	0.25	302	228
ND<0.5 U	ND<0.25 U	0.25	303	228
ND<0.5 U	ND<0.25 U	0.25	304	228
ND<0.5 U	ND<0.25 U	0.25	305	228
ND<0.5 U	ND<0.25 U	0.25	306	228
ND<0.25 U	ND<0.25 U	0	306	228
ND<0.25 U	ND<0.25 U	0	306	228
ND<0.25 U	ND<0.25 U	0	306	228
ND<0.25 U	ND<0.25 U	0	306	228
ND<0.25 U	ND<0.25 U	0	306	228
ND<0.25 U	ND<0.25 U	0	306	228
ND<0.5 U	ND<0.25 U	0.25	307	228
ND<0.5 U	ND<0.25 U	0.25	308	228
ND<0.5 U	ND<0.25 U	0.25	309	228
ND<0.5 U	ND<0.25 U	0.25	310	228
ND<0.5 U	ND<0.25 U	0.25	311	228
ND<0.5 U	ND<0.25 U	0.25	312	228
ND<0.5 U	ND<0.25 U	0.25	313	228
ND<0.5 U	ND<0.25 U	0.25	314	228
ND<0.5 U	ND<0.25 U	0.25	315	228
ND<0.5 U	ND<0.25 U	0.25	316	228
ND<0.5 U	ND<0.25 U	0.25	317	228
ND<0.5 U	ND<0.25 U	0.25	318	228
ND<0.5 U	ND<0.25 U	0.25	319	228
ND<0.5 U	ND<0.25 U	0.25	320	228
ND<0.5 U	ND<0.25 U	0.25	321	228
ND<0.5 U	ND<0.25 U	0.25	322	228
ND<0.5 U	ND<0.25 U	0.25	323	228
ND<0.5 U	ND<0.25 U	0.25	324	228
ND<0.5 U	ND<0.25 U	0.25	325	228
ND<0.25 U	ND<0.25 U	0	325	228
ND<0.25 U	ND<0.25 U	0	325	228
ND<0.25 U	ND<0.25 U	0	325	228
ND<0.25 U	ND<0.25 U	0	325	228
ND<0.25 U	ND<0.25 U	0	325	228
ND<0.5 U	ND<0.25 U	0.25	326	228
ND<0.5 U	ND<0.25 U	0.25	327	228
ND<0.5 U	ND<0.25 U	0.25	328	228
ND<0.5 U	ND<0.25 U	0.25	329	228
ND<0.5 U	ND<0.25 U	0.25	330	228
ND<0.5 U	ND<0.25 U	0.25	331	228
ND<0.5 U	ND<0.25 U	0.25	332	228
ND<0.5 U	ND<0.25 U	0.25	333	228
ND<0.5 U	ND<0.25 U	0.25	334	228
ND<0.5 U	ND<0.25 U	0.25	335	228
ND<0.5 U	ND<0.25 U	0.25	336	228
ND<0.5 U	ND<0.25 U	0.25	337	228
ND<0.5 U	ND<0.25 U	0.25	338	228
ND<0.5 U	ND<0.25 U	0.25	339	228
ND<0.5 U	ND<0.25 U	0.25	340	228

ND<0.5 U	ND<0.25 U	0.25	341	228
ND<0.5 U	ND<0.25 U	0.25	342	228
ND<0.5 U	ND<0.25 U	0.25	343	228
ND<0.5 U	ND<0.25 U	0.25	344	228
ND<0.25 U	ND<0.25 U	0	344	228
ND<0.25 U	ND<0.25 U	0	344	228
ND<0.25 U	ND<0.25 U	0	344	228
ND<0.25 U	ND<0.25 U	0	344	228
ND<0.5 U	ND<0.25 U	0.25	345	228
ND<0.5 U	ND<0.25 U	0.25	346	228
ND<0.5 U	ND<0.25 U	0.25	347	228
ND<0.5 U	ND<0.25 U	0.25	348	228
ND<0.5 U	ND<0.25 U	0.25	349	228
ND<0.5 U	ND<0.25 U	0.25	350	228
ND<0.5 U	ND<0.25 U	0.25	351	228
ND<0.5 U	ND<0.25 U	0.25	352	228
ND<0.5 U	ND<0.25 U	0.25	353	228
ND<0.5 U	ND<0.25 U	0.25	354	228
ND<0.5 U	ND<0.25 U	0.25	355	228
ND<0.5 U	ND<0.25 U	0.25	356	228
ND<0.5 U	ND<0.25 U	0.25	357	228
ND<0.5 U	ND<0.25 U	0.25	358	228
ND<0.5 U	ND<0.25 U	0.25	359	228
ND<0.5 U	ND<0.25 U	0.25	360	228
ND<0.5 U	ND<0.25 U	0.25	361	228
ND<0.5 U	ND<0.25 U	0.25	362	228
ND<0.5 U	ND<0.25 U	0.25	363	228
ND<0.25 U	ND<0.25 U	0	363	228
ND<0.25 U	ND<0.25 U	0	363	228
ND<0.25 U	ND<0.25 U	0	363	228
ND<0.5 U	ND<0.25 U	0.25	364	228
ND<0.5 U	ND<0.25 U	0.25	365	228
ND<0.5 U	ND<0.25 U	0.25	366	228
ND<0.5 U	ND<0.25 U	0.25	367	228
ND<0.5 U	ND<0.25 U	0.25	368	228
ND<0.5 U	ND<0.25 U	0.25	369	228
ND<0.5 U	ND<0.25 U	0.25	370	228
ND<0.5 U	ND<0.25 U	0.25	371	228
ND<0.5 U	ND<0.25 U	0.25	372	228
ND<0.5 U	ND<0.25 U	0.25	373	228
ND<0.5 U	ND<0.25 U	0.25	374	228
ND<0.5 U	ND<0.25 U	0.25	375	228
ND<0.5 U	ND<0.25 U	0.25	376	228
ND<0.5 U	ND<0.25 U	0.25	377	228
ND<0.5 U	ND<0.25 U	0.25	378	228
ND<0.5 U	ND<0.25 U	0.25	379	228
ND<0.5 U	ND<0.25 U	0.25	380	228
ND<0.5 U	ND<0.25 U	0.25	381	228
ND<0.5 U	ND<0.25 U	0.25	382	228
ND<0.25 U	ND<0.25 U	0	382	228
ND<0.25 U	ND<0.25 U	0	382	228
ND<0.5 U	ND<0.25 U	0.25	383	228
ND<0.5 U	ND<0.25 U	0.25	384	228
ND<0.5 U	ND<0.25 U	0.25	385	228

ND<0.5 U	ND<0.25 U	0.25	386	228
ND<0.5 U	ND<0.25 U	0.25	387	228
ND<0.5 U	ND<0.25 U	0.25	388	228
ND<0.5 U	ND<0.25 U	0.25	389	228
ND<0.5 U	ND<0.25 U	0.25	390	228
ND<0.5 U	ND<0.25 U	0.25	391	228
ND<0.5 U	ND<0.25 U	0.25	392	228
ND<0.5 U	ND<0.25 U	0.25	393	228
ND<0.5 U	ND<0.25 U	0.25	394	228
ND<0.5 U	ND<0.25 U	0.25	395	228
ND<0.5 U	ND<0.25 U	0.25	396	228
ND<0.5 U	ND<0.25 U	0.25	397	228
ND<0.5 U	ND<0.25 U	0.25	398	228
ND<0.5 U	ND<0.25 U	0.25	399	228
ND<0.5 U	ND<0.25 U	0.25	400	228
ND<0.5 U	ND<0.25 U	0.25	401	228
ND<0.25 U	ND<0.25 U	0	401	228
ND<0.5 U	ND<0.25 U	0.25	402	228
ND<0.5 U	ND<0.25 U	0.25	403	228
ND<0.5 U	ND<0.25 U	0.25	404	228
ND<0.5 U	ND<0.25 U	0.25	405	228
ND<0.5 U	ND<0.25 U	0.25	406	228
ND<0.5 U	ND<0.25 U	0.25	407	228
ND<0.5 U	ND<0.25 U	0.25	408	228
ND<0.5 U	ND<0.25 U	0.25	409	228
ND<0.5 U	ND<0.25 U	0.25	410	228
ND<0.5 U	ND<0.25 U	0.25	411	228
ND<0.5 U	ND<0.25 U	0.25	412	228
ND<0.5 U	ND<0.25 U	0.25	413	228
ND<0.5 U	ND<0.25 U	0.25	414	228
ND<0.5 U	ND<0.25 U	0.25	415	228
ND<0.5 U	ND<0.25 U	0.25	416	228
ND<0.5 U	ND<0.25 U	0.25	417	228
ND<0.5 U	ND<0.25 U	0.25	418	228
ND<0.5 U	ND<0.25 U	0.25	419	228
ND<0.5 U	ND<0.25 U	0.25	420	228
ND<0.5 U	ND<0.25 U	0.25	421	228
ND<0.5 U	ND<0.25 U	0.25	422	228
ND<0.5 U	ND<0.25 U	0.25	423	228
ND<0.5 U	ND<0.25 U	0.25	424	228
ND<0.5 U	ND<0.25 U	0.25	425	228
ND<0.5 U	ND<0.25 U	0.25	426	228
ND<0.5 U	ND<0.25 U	0.25	427	228
ND<0.5 U	ND<0.25 U	0.25	428	228
ND<0.5 U	ND<0.25 U	0.25	429	228
ND<0.5 U	ND<0.25 U	0.25	430	228
ND<0.5 U	ND<0.25 U	0.25	431	228
ND<0.5 U	ND<0.25 U	0.25	432	228
ND<0.5 U	ND<0.25 U	0.25	433	228
ND<0.5 U	ND<0.25 U	0.25	434	228
ND<0.5 U	ND<0.25 U	0.25	435	228
ND<0.5 U	ND<0.25 U	0.25	436	228
ND<0.5 U	ND<0.25 U	0.25	437	228
ND<0.5 U	ND<0.25 U	0.25	438	228
ND<0.5 U	ND<0.25 U	0.25	439	228

ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228

ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228

ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228

ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228
ND<0.5 U	ND<0.5 U	0	439	228

S Statistic = 439 - 228 = 211

Tied Group	**Value**	**Members**
1	0.5	29
2	0.25	23

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1

```
5/24/2012                    1
6/15/2012                    1
7/26/2012                    1
8/15/2012                    1
9/11/2012                    1
10/18/2012                   1
11/14/2012                   1
12/5/2012                    1
1/29/2013                    1
7/29/2013                    1
1/31/2014                    1
7/17/2014                    1
1/27/2015                    1
7/21/2015                    1
1/27/2016                    1
7/26/2016                    1
1/30/2017                    1
7/24/2017                    1
1/29/2018                    1
7/24/2018                    1
1/30/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 76962
B = 0
C = 32550
D = 0
E = 1318
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 11783.7
Z-Score = 1.93455
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.93455| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21

ND<0.5 U	ND<0.5 U	0	0	21
1.7	ND<0.5 U	1.2	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.25 U	ND<0.5 U	-0.25	1	22
ND<0.25 U	ND<0.5 U	-0.25	1	23
ND<0.25 U	ND<0.5 U	-0.25	1	24
ND<0.25 U	ND<0.5 U	-0.25	1	25
ND<0.25 U	ND<0.5 U	-0.25	1	26
ND<0.25 U	ND<0.5 U	-0.25	1	27
ND<0.25 U	ND<0.5 U	-0.25	1	28
ND<0.25 U	ND<0.5 U	-0.25	1	29
ND<0.25 U	ND<0.5 U	-0.25	1	30
ND<0.25 U	ND<0.5 U	-0.25	1	31
ND<0.25 U	ND<0.5 U	-0.25	1	32
ND<0.25 U	ND<0.5 U	-0.25	1	33
ND<0.25 U	ND<0.5 U	-0.25	1	34
ND<0.25 U	ND<0.5 U	-0.25	1	35
ND<0.25 U	ND<0.5 U	-0.25	1	36
ND<0.25 U	ND<0.5 U	-0.25	1	37
ND<0.25 U	ND<0.5 U	-0.25	1	38
ND<0.25 U	ND<0.5 U	-0.25	1	39
ND<0.25 U	ND<0.5 U	-0.25	1	40
ND<0.25 U	ND<0.5 U	-0.25	1	41
ND<0.25 U	ND<0.5 U	-0.25	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
ND<0.5 U	ND<0.5 U	0	1	42
1.7	ND<0.5 U	1.2	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42

ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.25 U	ND<0.5 U	-0.25	2	43
ND<0.25 U	ND<0.5 U	-0.25	2	44
ND<0.25 U	ND<0.5 U	-0.25	2	45
ND<0.25 U	ND<0.5 U	-0.25	2	46
ND<0.25 U	ND<0.5 U	-0.25	2	47
ND<0.25 U	ND<0.5 U	-0.25	2	48
ND<0.25 U	ND<0.5 U	-0.25	2	49
ND<0.25 U	ND<0.5 U	-0.25	2	50
ND<0.25 U	ND<0.5 U	-0.25	2	51
ND<0.25 U	ND<0.5 U	-0.25	2	52
ND<0.25 U	ND<0.5 U	-0.25	2	53
ND<0.25 U	ND<0.5 U	-0.25	2	54
ND<0.25 U	ND<0.5 U	-0.25	2	55
ND<0.25 U	ND<0.5 U	-0.25	2	56
ND<0.25 U	ND<0.5 U	-0.25	2	57
ND<0.25 U	ND<0.5 U	-0.25	2	58
ND<0.25 U	ND<0.5 U	-0.25	2	59
ND<0.25 U	ND<0.5 U	-0.25	2	60
ND<0.25 U	ND<0.5 U	-0.25	2	61
ND<0.25 U	ND<0.5 U	-0.25	2	62
ND<0.25 U	ND<0.5 U	-0.25	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
ND<0.5 U	ND<0.5 U	0	2	63
1.7	ND<0.5 U	1.2	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63
ND<0.5 U	ND<0.5 U	0	3	63

ND<0.25 U	ND<0.5 U	-0.25	3	64
ND<0.25 U	ND<0.5 U	-0.25	3	65
ND<0.25 U	ND<0.5 U	-0.25	3	66
ND<0.25 U	ND<0.5 U	-0.25	3	67
ND<0.25 U	ND<0.5 U	-0.25	3	68
ND<0.25 U	ND<0.5 U	-0.25	3	69
ND<0.25 U	ND<0.5 U	-0.25	3	70
ND<0.25 U	ND<0.5 U	-0.25	3	71
ND<0.25 U	ND<0.5 U	-0.25	3	72
ND<0.25 U	ND<0.5 U	-0.25	3	73
ND<0.25 U	ND<0.5 U	-0.25	3	74
ND<0.25 U	ND<0.5 U	-0.25	3	75
ND<0.25 U	ND<0.5 U	-0.25	3	76
ND<0.25 U	ND<0.5 U	-0.25	3	77
ND<0.25 U	ND<0.5 U	-0.25	3	78
ND<0.25 U	ND<0.5 U	-0.25	3	79
ND<0.25 U	ND<0.5 U	-0.25	3	80
ND<0.25 U	ND<0.5 U	-0.25	3	81
ND<0.25 U	ND<0.5 U	-0.25	3	82
ND<0.25 U	ND<0.5 U	-0.25	3	83
ND<0.25 U	ND<0.5 U	-0.25	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
ND<0.5 U	ND<0.5 U	0	3	84
1.7	ND<0.5 U	1.2	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.5 U	ND<0.5 U	0	4	84
ND<0.25 U	ND<0.5 U	-0.25	4	85
ND<0.25 U	ND<0.5 U	-0.25	4	86
ND<0.25 U	ND<0.5 U	-0.25	4	87
ND<0.25 U	ND<0.5 U	-0.25	4	88
ND<0.25 U	ND<0.5 U	-0.25	4	89
ND<0.25 U	ND<0.5 U	-0.25	4	90
ND<0.25 U	ND<0.5 U	-0.25	4	91
ND<0.25 U	ND<0.5 U	-0.25	4	92
ND<0.25 U	ND<0.5 U	-0.25	4	93

ND<0.25 U	ND<0.5 U	-0.25	4	94
ND<0.25 U	ND<0.5 U	-0.25	4	95
ND<0.25 U	ND<0.5 U	-0.25	4	96
ND<0.25 U	ND<0.5 U	-0.25	4	97
ND<0.25 U	ND<0.5 U	-0.25	4	98
ND<0.25 U	ND<0.5 U	-0.25	4	99
ND<0.25 U	ND<0.5 U	-0.25	4	100
ND<0.25 U	ND<0.5 U	-0.25	4	101
ND<0.25 U	ND<0.5 U	-0.25	4	102
ND<0.25 U	ND<0.5 U	-0.25	4	103
ND<0.25 U	ND<0.5 U	-0.25	4	104
ND<0.25 U	ND<0.5 U	-0.25	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
ND<0.5 U	ND<0.5 U	0	4	105
1.7	ND<0.5 U	1.2	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.5 U	ND<0.5 U	0	5	105
ND<0.25 U	ND<0.5 U	-0.25	5	106
ND<0.25 U	ND<0.5 U	-0.25	5	107
ND<0.25 U	ND<0.5 U	-0.25	5	108
ND<0.25 U	ND<0.5 U	-0.25	5	109
ND<0.25 U	ND<0.5 U	-0.25	5	110
ND<0.25 U	ND<0.5 U	-0.25	5	111
ND<0.25 U	ND<0.5 U	-0.25	5	112
ND<0.25 U	ND<0.5 U	-0.25	5	113
ND<0.25 U	ND<0.5 U	-0.25	5	114
ND<0.25 U	ND<0.5 U	-0.25	5	115
ND<0.25 U	ND<0.5 U	-0.25	5	116
ND<0.25 U	ND<0.5 U	-0.25	5	117
ND<0.25 U	ND<0.5 U	-0.25	5	118
ND<0.25 U	ND<0.5 U	-0.25	5	119
ND<0.25 U	ND<0.5 U	-0.25	5	120
ND<0.25 U	ND<0.5 U	-0.25	5	121
ND<0.25 U	ND<0.5 U	-0.25	5	122
ND<0.25 U	ND<0.5 U	-0.25	5	123
ND<0.25 U	ND<0.5 U	-0.25	5	124

ND<0.25 U	ND<0.5 U	-0.25	5	125
ND<0.25 U	ND<0.5 U	-0.25	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
ND<0.5 U	ND<0.5 U	0	5	126
1.7	ND<0.5 U	1.2	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.5 U	ND<0.5 U	0	6	126
ND<0.25 U	ND<0.5 U	-0.25	6	127
ND<0.25 U	ND<0.5 U	-0.25	6	128
ND<0.25 U	ND<0.5 U	-0.25	6	129
ND<0.25 U	ND<0.5 U	-0.25	6	130
ND<0.25 U	ND<0.5 U	-0.25	6	131
ND<0.25 U	ND<0.5 U	-0.25	6	132
ND<0.25 U	ND<0.5 U	-0.25	6	133
ND<0.25 U	ND<0.5 U	-0.25	6	134
ND<0.25 U	ND<0.5 U	-0.25	6	135
ND<0.25 U	ND<0.5 U	-0.25	6	136
ND<0.25 U	ND<0.5 U	-0.25	6	137
ND<0.25 U	ND<0.5 U	-0.25	6	138
ND<0.25 U	ND<0.5 U	-0.25	6	139
ND<0.25 U	ND<0.5 U	-0.25	6	140
ND<0.25 U	ND<0.5 U	-0.25	6	141
ND<0.25 U	ND<0.5 U	-0.25	6	142
ND<0.25 U	ND<0.5 U	-0.25	6	143
ND<0.25 U	ND<0.5 U	-0.25	6	144
ND<0.25 U	ND<0.5 U	-0.25	6	145
ND<0.25 U	ND<0.5 U	-0.25	6	146
ND<0.25 U	ND<0.5 U	-0.25	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147

ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
ND<0.5 U	ND<0.5 U	0	6	147
1.7	ND<0.5 U	1.2	7	147
ND<0.5 U	ND<0.5 U	0	7	147
ND<0.5 U	ND<0.5 U	0	7	147
ND<0.5 U	ND<0.5 U	0	7	147
ND<0.5 U	ND<0.5 U	0	7	147
ND<0.5 U	ND<0.5 U	0	7	147
ND<0.5 U	ND<0.5 U	0	7	147
ND<0.25 U	ND<0.5 U	-0.25	7	148
ND<0.25 U	ND<0.5 U	-0.25	7	149
ND<0.25 U	ND<0.5 U	-0.25	7	150
ND<0.25 U	ND<0.5 U	-0.25	7	151
ND<0.25 U	ND<0.5 U	-0.25	7	152
ND<0.25 U	ND<0.5 U	-0.25	7	153
ND<0.25 U	ND<0.5 U	-0.25	7	154
ND<0.25 U	ND<0.5 U	-0.25	7	155
ND<0.25 U	ND<0.5 U	-0.25	7	156
ND<0.25 U	ND<0.5 U	-0.25	7	157
ND<0.25 U	ND<0.5 U	-0.25	7	158
ND<0.25 U	ND<0.5 U	-0.25	7	159
ND<0.25 U	ND<0.5 U	-0.25	7	160
ND<0.25 U	ND<0.5 U	-0.25	7	161
ND<0.25 U	ND<0.5 U	-0.25	7	162
ND<0.25 U	ND<0.5 U	-0.25	7	163
ND<0.25 U	ND<0.5 U	-0.25	7	164
ND<0.25 U	ND<0.5 U	-0.25	7	165
ND<0.25 U	ND<0.5 U	-0.25	7	166
ND<0.25 U	ND<0.5 U	-0.25	7	167
ND<0.25 U	ND<0.5 U	-0.25	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
ND<0.5 U	ND<0.5 U	0	7	168
1.7	ND<0.5 U	1.2	8	168
ND<0.5 U	ND<0.5 U	0	8	168
ND<0.5 U	ND<0.5 U	0	8	168
ND<0.5 U	ND<0.5 U	0	8	168

ND<0.5 U	ND<0.5 U	0	8	168
ND<0.5 U	ND<0.5 U	0	8	168
ND<0.25 U	ND<0.5 U	-0.25	8	169
ND<0.25 U	ND<0.5 U	-0.25	8	170
ND<0.25 U	ND<0.5 U	-0.25	8	171
ND<0.25 U	ND<0.5 U	-0.25	8	172
ND<0.25 U	ND<0.5 U	-0.25	8	173
ND<0.25 U	ND<0.5 U	-0.25	8	174
ND<0.25 U	ND<0.5 U	-0.25	8	175
ND<0.25 U	ND<0.5 U	-0.25	8	176
ND<0.25 U	ND<0.5 U	-0.25	8	177
ND<0.25 U	ND<0.5 U	-0.25	8	178
ND<0.25 U	ND<0.5 U	-0.25	8	179
ND<0.25 U	ND<0.5 U	-0.25	8	180
ND<0.25 U	ND<0.5 U	-0.25	8	181
ND<0.25 U	ND<0.5 U	-0.25	8	182
ND<0.25 U	ND<0.5 U	-0.25	8	183
ND<0.25 U	ND<0.5 U	-0.25	8	184
ND<0.25 U	ND<0.5 U	-0.25	8	185
ND<0.25 U	ND<0.5 U	-0.25	8	186
ND<0.25 U	ND<0.5 U	-0.25	8	187
ND<0.25 U	ND<0.5 U	-0.25	8	188
ND<0.25 U	ND<0.5 U	-0.25	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
ND<0.5 U	ND<0.5 U	0	8	189
1.7	ND<0.5 U	1.2	9	189
ND<0.5 U	ND<0.5 U	0	9	189
ND<0.5 U	ND<0.5 U	0	9	189
ND<0.5 U	ND<0.5 U	0	9	189
ND<0.5 U	ND<0.5 U	0	9	189
ND<0.25 U	ND<0.5 U	-0.25	9	190
ND<0.25 U	ND<0.5 U	-0.25	9	191
ND<0.25 U	ND<0.5 U	-0.25	9	192
ND<0.25 U	ND<0.5 U	-0.25	9	193
ND<0.25 U	ND<0.5 U	-0.25	9	194
ND<0.25 U	ND<0.5 U	-0.25	9	195
ND<0.25 U	ND<0.5 U	-0.25	9	196
ND<0.25 U	ND<0.5 U	-0.25	9	197
ND<0.25 U	ND<0.5 U	-0.25	9	198
ND<0.25 U	ND<0.5 U	-0.25	9	199
ND<0.25 U	ND<0.5 U	-0.25	9	200
ND<0.25 U	ND<0.5 U	-0.25	9	201

ND<0.25 U	ND<0.5 U	-0.25	9	202
ND<0.25 U	ND<0.5 U	-0.25	9	203
ND<0.25 U	ND<0.5 U	-0.25	9	204
ND<0.25 U	ND<0.5 U	-0.25	9	205
ND<0.25 U	ND<0.5 U	-0.25	9	206
ND<0.25 U	ND<0.5 U	-0.25	9	207
ND<0.25 U	ND<0.5 U	-0.25	9	208
ND<0.25 U	ND<0.5 U	-0.25	9	209
ND<0.25 U	ND<0.5 U	-0.25	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
ND<0.5 U	ND<0.5 U	0	9	210
1.7	ND<0.5 U	1.2	10	210
ND<0.5 U	ND<0.5 U	0	10	210
ND<0.5 U	ND<0.5 U	0	10	210
ND<0.5 U	ND<0.5 U	0	10	210
ND<0.25 U	ND<0.5 U	-0.25	10	211
ND<0.25 U	ND<0.5 U	-0.25	10	212
ND<0.25 U	ND<0.5 U	-0.25	10	213
ND<0.25 U	ND<0.5 U	-0.25	10	214
ND<0.25 U	ND<0.5 U	-0.25	10	215
ND<0.25 U	ND<0.5 U	-0.25	10	216
ND<0.25 U	ND<0.5 U	-0.25	10	217
ND<0.25 U	ND<0.5 U	-0.25	10	218
ND<0.25 U	ND<0.5 U	-0.25	10	219
ND<0.25 U	ND<0.5 U	-0.25	10	220
ND<0.25 U	ND<0.5 U	-0.25	10	221
ND<0.25 U	ND<0.5 U	-0.25	10	222
ND<0.25 U	ND<0.5 U	-0.25	10	223
ND<0.25 U	ND<0.5 U	-0.25	10	224
ND<0.25 U	ND<0.5 U	-0.25	10	225
ND<0.25 U	ND<0.5 U	-0.25	10	226
ND<0.25 U	ND<0.5 U	-0.25	10	227
ND<0.25 U	ND<0.5 U	-0.25	10	228
ND<0.25 U	ND<0.5 U	-0.25	10	229
ND<0.25 U	ND<0.5 U	-0.25	10	230
ND<0.25 U	ND<0.5 U	-0.25	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231

ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
ND<0.5 U	ND<0.5 U	0	10	231
1.7	ND<0.5 U	1.2	11	231
ND<0.5 U	ND<0.5 U	0	11	231
ND<0.5 U	ND<0.5 U	0	11	231
ND<0.25 U	ND<0.5 U	-0.25	11	232
ND<0.25 U	ND<0.5 U	-0.25	11	233
ND<0.25 U	ND<0.5 U	-0.25	11	234
ND<0.25 U	ND<0.5 U	-0.25	11	235
ND<0.25 U	ND<0.5 U	-0.25	11	236
ND<0.25 U	ND<0.5 U	-0.25	11	237
ND<0.25 U	ND<0.5 U	-0.25	11	238
ND<0.25 U	ND<0.5 U	-0.25	11	239
ND<0.25 U	ND<0.5 U	-0.25	11	240
ND<0.25 U	ND<0.5 U	-0.25	11	241
ND<0.25 U	ND<0.5 U	-0.25	11	242
ND<0.25 U	ND<0.5 U	-0.25	11	243
ND<0.25 U	ND<0.5 U	-0.25	11	244
ND<0.25 U	ND<0.5 U	-0.25	11	245
ND<0.25 U	ND<0.5 U	-0.25	11	246
ND<0.25 U	ND<0.5 U	-0.25	11	247
ND<0.25 U	ND<0.5 U	-0.25	11	248
ND<0.25 U	ND<0.5 U	-0.25	11	249
ND<0.25 U	ND<0.5 U	-0.25	11	250
ND<0.25 U	ND<0.5 U	-0.25	11	251
ND<0.25 U	ND<0.5 U	-0.25	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
ND<0.5 U	ND<0.5 U	0	11	252
1.7	ND<0.5 U	1.2	12	252
ND<0.5 U	ND<0.5 U	0	12	252
ND<0.5 U	ND<0.5 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252

ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.25 U	ND<0.25 U	0	12	252
ND<0.5 U	ND<0.25 U	0.25	13	252
ND<0.5 U	ND<0.25 U	0.25	14	252
ND<0.5 U	ND<0.25 U	0.25	15	252
ND<0.5 U	ND<0.25 U	0.25	16	252
ND<0.5 U	ND<0.25 U	0.25	17	252
ND<0.5 U	ND<0.25 U	0.25	18	252
ND<0.5 U	ND<0.25 U	0.25	19	252
ND<0.5 U	ND<0.25 U	0.25	20	252
ND<0.5 U	ND<0.25 U	0.25	21	252
ND<0.5 U	ND<0.25 U	0.25	22	252
ND<0.5 U	ND<0.25 U	0.25	23	252
ND<0.5 U	ND<0.25 U	0.25	24	252
ND<0.5 U	ND<0.25 U	0.25	25	252
ND<0.5 U	ND<0.25 U	0.25	26	252
ND<0.5 U	ND<0.25 U	0.25	27	252
ND<0.5 U	ND<0.25 U	0.25	28	252
1.7	ND<0.25 U	1.45	29	252
ND<0.5 U	ND<0.25 U	0.25	30	252
ND<0.5 U	ND<0.25 U	0.25	31	252

ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252
ND<0.25 U	ND<0.25 U	0	31	252

ND<0.5 U	ND<0.25 U	0.25	32	252
ND<0.5 U	ND<0.25 U	0.25	33	252
ND<0.5 U	ND<0.25 U	0.25	34	252
ND<0.5 U	ND<0.25 U	0.25	35	252
ND<0.5 U	ND<0.25 U	0.25	36	252
ND<0.5 U	ND<0.25 U	0.25	37	252
ND<0.5 U	ND<0.25 U	0.25	38	252
ND<0.5 U	ND<0.25 U	0.25	39	252
ND<0.5 U	ND<0.25 U	0.25	40	252
ND<0.5 U	ND<0.25 U	0.25	41	252
ND<0.5 U	ND<0.25 U	0.25	42	252
ND<0.5 U	ND<0.25 U	0.25	43	252
ND<0.5 U	ND<0.25 U	0.25	44	252
ND<0.5 U	ND<0.25 U	0.25	45	252
ND<0.5 U	ND<0.25 U	0.25	46	252
ND<0.5 U	ND<0.25 U	0.25	47	252
1.7	ND<0.25 U	1.45	48	252
ND<0.5 U	ND<0.25 U	0.25	49	252
ND<0.5 U	ND<0.25 U	0.25	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.25 U	ND<0.25 U	0	50	252
ND<0.5 U	ND<0.25 U	0.25	51	252
ND<0.5 U	ND<0.25 U	0.25	52	252
ND<0.5 U	ND<0.25 U	0.25	53	252
ND<0.5 U	ND<0.25 U	0.25	54	252
ND<0.5 U	ND<0.25 U	0.25	55	252
ND<0.5 U	ND<0.25 U	0.25	56	252
ND<0.5 U	ND<0.25 U	0.25	57	252
ND<0.5 U	ND<0.25 U	0.25	58	252
ND<0.5 U	ND<0.25 U	0.25	59	252
ND<0.5 U	ND<0.25 U	0.25	60	252
ND<0.5 U	ND<0.25 U	0.25	61	252
ND<0.5 U	ND<0.25 U	0.25	62	252
ND<0.5 U	ND<0.25 U	0.25	63	252
ND<0.5 U	ND<0.25 U	0.25	64	252
ND<0.5 U	ND<0.25 U	0.25	65	252
ND<0.5 U	ND<0.25 U	0.25	66	252
1.7	ND<0.25 U	1.45	67	252
ND<0.5 U	ND<0.25 U	0.25	68	252
ND<0.5 U	ND<0.25 U	0.25	69	252

ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.25 U	ND<0.25 U	0	69	252
ND<0.5 U	ND<0.25 U	0.25	70	252
ND<0.5 U	ND<0.25 U	0.25	71	252
ND<0.5 U	ND<0.25 U	0.25	72	252
ND<0.5 U	ND<0.25 U	0.25	73	252
ND<0.5 U	ND<0.25 U	0.25	74	252
ND<0.5 U	ND<0.25 U	0.25	75	252
ND<0.5 U	ND<0.25 U	0.25	76	252
ND<0.5 U	ND<0.25 U	0.25	77	252
ND<0.5 U	ND<0.25 U	0.25	78	252
ND<0.5 U	ND<0.25 U	0.25	79	252
ND<0.5 U	ND<0.25 U	0.25	80	252
ND<0.5 U	ND<0.25 U	0.25	81	252
ND<0.5 U	ND<0.25 U	0.25	82	252
ND<0.5 U	ND<0.25 U	0.25	83	252
ND<0.5 U	ND<0.25 U	0.25	84	252
ND<0.5 U	ND<0.25 U	0.25	85	252
1.7	ND<0.25 U	1.45	86	252
ND<0.5 U	ND<0.25 U	0.25	87	252
ND<0.5 U	ND<0.25 U	0.25	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.5 U	ND<0.25 U	0.25	89	252
ND<0.5 U	ND<0.25 U	0.25	90	252
ND<0.5 U	ND<0.25 U	0.25	91	252

ND<0.5 U	ND<0.25 U	0.25	92	252
ND<0.5 U	ND<0.25 U	0.25	93	252
ND<0.5 U	ND<0.25 U	0.25	94	252
ND<0.5 U	ND<0.25 U	0.25	95	252
ND<0.5 U	ND<0.25 U	0.25	96	252
ND<0.5 U	ND<0.25 U	0.25	97	252
ND<0.5 U	ND<0.25 U	0.25	98	252
ND<0.5 U	ND<0.25 U	0.25	99	252
ND<0.5 U	ND<0.25 U	0.25	100	252
ND<0.5 U	ND<0.25 U	0.25	101	252
ND<0.5 U	ND<0.25 U	0.25	102	252
ND<0.5 U	ND<0.25 U	0.25	103	252
ND<0.5 U	ND<0.25 U	0.25	104	252
1.7	ND<0.25 U	1.45	105	252
ND<0.5 U	ND<0.25 U	0.25	106	252
ND<0.5 U	ND<0.25 U	0.25	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.25 U	ND<0.25 U	0	107	252
ND<0.5 U	ND<0.25 U	0.25	108	252
ND<0.5 U	ND<0.25 U	0.25	109	252
ND<0.5 U	ND<0.25 U	0.25	110	252
ND<0.5 U	ND<0.25 U	0.25	111	252
ND<0.5 U	ND<0.25 U	0.25	112	252
ND<0.5 U	ND<0.25 U	0.25	113	252
ND<0.5 U	ND<0.25 U	0.25	114	252
ND<0.5 U	ND<0.25 U	0.25	115	252
ND<0.5 U	ND<0.25 U	0.25	116	252
ND<0.5 U	ND<0.25 U	0.25	117	252
ND<0.5 U	ND<0.25 U	0.25	118	252
ND<0.5 U	ND<0.25 U	0.25	119	252
ND<0.5 U	ND<0.25 U	0.25	120	252
ND<0.5 U	ND<0.25 U	0.25	121	252
ND<0.5 U	ND<0.25 U	0.25	122	252
ND<0.5 U	ND<0.25 U	0.25	123	252
1.7	ND<0.25 U	1.45	124	252
ND<0.5 U	ND<0.25 U	0.25	125	252
ND<0.5 U	ND<0.25 U	0.25	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252

ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.25 U	ND<0.25 U	0	126	252
ND<0.5 U	ND<0.25 U	0.25	127	252
ND<0.5 U	ND<0.25 U	0.25	128	252
ND<0.5 U	ND<0.25 U	0.25	129	252
ND<0.5 U	ND<0.25 U	0.25	130	252
ND<0.5 U	ND<0.25 U	0.25	131	252
ND<0.5 U	ND<0.25 U	0.25	132	252
ND<0.5 U	ND<0.25 U	0.25	133	252
ND<0.5 U	ND<0.25 U	0.25	134	252
ND<0.5 U	ND<0.25 U	0.25	135	252
ND<0.5 U	ND<0.25 U	0.25	136	252
ND<0.5 U	ND<0.25 U	0.25	137	252
ND<0.5 U	ND<0.25 U	0.25	138	252
ND<0.5 U	ND<0.25 U	0.25	139	252
ND<0.5 U	ND<0.25 U	0.25	140	252
ND<0.5 U	ND<0.25 U	0.25	141	252
ND<0.5 U	ND<0.25 U	0.25	142	252
1.7	ND<0.25 U	1.45	143	252
ND<0.5 U	ND<0.25 U	0.25	144	252
ND<0.5 U	ND<0.25 U	0.25	145	252

ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.25 U	ND<0.25 U	0	145	252
ND<0.5 U	ND<0.25 U	0.25	146	252
ND<0.5 U	ND<0.25 U	0.25	147	252
ND<0.5 U	ND<0.25 U	0.25	148	252
ND<0.5 U	ND<0.25 U	0.25	149	252
ND<0.5 U	ND<0.25 U	0.25	150	252
ND<0.5 U	ND<0.25 U	0.25	151	252
ND<0.5 U	ND<0.25 U	0.25	152	252
ND<0.5 U	ND<0.25 U	0.25	153	252
ND<0.5 U	ND<0.25 U	0.25	154	252
ND<0.5 U	ND<0.25 U	0.25	155	252
ND<0.5 U	ND<0.25 U	0.25	156	252
ND<0.5 U	ND<0.25 U	0.25	157	252
ND<0.5 U	ND<0.25 U	0.25	158	252
ND<0.5 U	ND<0.25 U	0.25	159	252
ND<0.5 U	ND<0.25 U	0.25	160	252

ND<0.5 U	ND<0.25 U	0.25	161	252
1.7	ND<0.25 U	1.45	162	252
ND<0.5 U	ND<0.25 U	0.25	163	252
ND<0.5 U	ND<0.25 U	0.25	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.25 U	ND<0.25 U	0	164	252
ND<0.5 U	ND<0.25 U	0.25	165	252
ND<0.5 U	ND<0.25 U	0.25	166	252
ND<0.5 U	ND<0.25 U	0.25	167	252
ND<0.5 U	ND<0.25 U	0.25	168	252
ND<0.5 U	ND<0.25 U	0.25	169	252
ND<0.5 U	ND<0.25 U	0.25	170	252
ND<0.5 U	ND<0.25 U	0.25	171	252
ND<0.5 U	ND<0.25 U	0.25	172	252
ND<0.5 U	ND<0.25 U	0.25	173	252
ND<0.5 U	ND<0.25 U	0.25	174	252
ND<0.5 U	ND<0.25 U	0.25	175	252
ND<0.5 U	ND<0.25 U	0.25	176	252
ND<0.5 U	ND<0.25 U	0.25	177	252
ND<0.5 U	ND<0.25 U	0.25	178	252
ND<0.5 U	ND<0.25 U	0.25	179	252
ND<0.5 U	ND<0.25 U	0.25	180	252
1.7	ND<0.25 U	1.45	181	252
ND<0.5 U	ND<0.25 U	0.25	182	252
ND<0.5 U	ND<0.25 U	0.25	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.25 U	ND<0.25 U	0	183	252
ND<0.5 U	ND<0.25 U	0.25	184	252
ND<0.5 U	ND<0.25 U	0.25	185	252
ND<0.5 U	ND<0.25 U	0.25	186	252
ND<0.5 U	ND<0.25 U	0.25	187	252
ND<0.5 U	ND<0.25 U	0.25	188	252
ND<0.5 U	ND<0.25 U	0.25	189	252
ND<0.5 U	ND<0.25 U	0.25	190	252
ND<0.5 U	ND<0.25 U	0.25	191	252
ND<0.5 U	ND<0.25 U	0.25	192	252

ND<0.5 U	ND<0.25 U	0.25	193	252
ND<0.5 U	ND<0.25 U	0.25	194	252
ND<0.5 U	ND<0.25 U	0.25	195	252
ND<0.5 U	ND<0.25 U	0.25	196	252
ND<0.5 U	ND<0.25 U	0.25	197	252
ND<0.5 U	ND<0.25 U	0.25	198	252
ND<0.5 U	ND<0.25 U	0.25	199	252
1.7	ND<0.25 U	1.45	200	252
ND<0.5 U	ND<0.25 U	0.25	201	252
ND<0.5 U	ND<0.25 U	0.25	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.25 U	ND<0.25 U	0	202	252
ND<0.5 U	ND<0.25 U	0.25	203	252
ND<0.5 U	ND<0.25 U	0.25	204	252
ND<0.5 U	ND<0.25 U	0.25	205	252
ND<0.5 U	ND<0.25 U	0.25	206	252
ND<0.5 U	ND<0.25 U	0.25	207	252
ND<0.5 U	ND<0.25 U	0.25	208	252
ND<0.5 U	ND<0.25 U	0.25	209	252
ND<0.5 U	ND<0.25 U	0.25	210	252
ND<0.5 U	ND<0.25 U	0.25	211	252
ND<0.5 U	ND<0.25 U	0.25	212	252
ND<0.5 U	ND<0.25 U	0.25	213	252
ND<0.5 U	ND<0.25 U	0.25	214	252
ND<0.5 U	ND<0.25 U	0.25	215	252
ND<0.5 U	ND<0.25 U	0.25	216	252
ND<0.5 U	ND<0.25 U	0.25	217	252
ND<0.5 U	ND<0.25 U	0.25	218	252
1.7	ND<0.25 U	1.45	219	252
ND<0.5 U	ND<0.25 U	0.25	220	252
ND<0.5 U	ND<0.25 U	0.25	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.25 U	ND<0.25 U	0	221	252
ND<0.5 U	ND<0.25 U	0.25	222	252
ND<0.5 U	ND<0.25 U	0.25	223	252
ND<0.5 U	ND<0.25 U	0.25	224	252
ND<0.5 U	ND<0.25 U	0.25	225	252
ND<0.5 U	ND<0.25 U	0.25	226	252
ND<0.5 U	ND<0.25 U	0.25	227	252
ND<0.5 U	ND<0.25 U	0.25	228	252

ND<0.5 U	ND<0.25 U	0.25	229	252
ND<0.5 U	ND<0.25 U	0.25	230	252
ND<0.5 U	ND<0.25 U	0.25	231	252
ND<0.5 U	ND<0.25 U	0.25	232	252
ND<0.5 U	ND<0.25 U	0.25	233	252
ND<0.5 U	ND<0.25 U	0.25	234	252
ND<0.5 U	ND<0.25 U	0.25	235	252
ND<0.5 U	ND<0.25 U	0.25	236	252
ND<0.5 U	ND<0.25 U	0.25	237	252
1.7	ND<0.25 U	1.45	238	252
ND<0.5 U	ND<0.25 U	0.25	239	252
ND<0.5 U	ND<0.25 U	0.25	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.25 U	ND<0.25 U	0	240	252
ND<0.5 U	ND<0.25 U	0.25	241	252
ND<0.5 U	ND<0.25 U	0.25	242	252
ND<0.5 U	ND<0.25 U	0.25	243	252
ND<0.5 U	ND<0.25 U	0.25	244	252
ND<0.5 U	ND<0.25 U	0.25	245	252
ND<0.5 U	ND<0.25 U	0.25	246	252
ND<0.5 U	ND<0.25 U	0.25	247	252
ND<0.5 U	ND<0.25 U	0.25	248	252
ND<0.5 U	ND<0.25 U	0.25	249	252
ND<0.5 U	ND<0.25 U	0.25	250	252
ND<0.5 U	ND<0.25 U	0.25	251	252
ND<0.5 U	ND<0.25 U	0.25	252	252
ND<0.5 U	ND<0.25 U	0.25	253	252
ND<0.5 U	ND<0.25 U	0.25	254	252
ND<0.5 U	ND<0.25 U	0.25	255	252
ND<0.5 U	ND<0.25 U	0.25	256	252
1.7	ND<0.25 U	1.45	257	252
ND<0.5 U	ND<0.25 U	0.25	258	252
ND<0.5 U	ND<0.25 U	0.25	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.25 U	ND<0.25 U	0	259	252
ND<0.5 U	ND<0.25 U	0.25	260	252
ND<0.5 U	ND<0.25 U	0.25	261	252
ND<0.5 U	ND<0.25 U	0.25	262	252
ND<0.5 U	ND<0.25 U	0.25	263	252
ND<0.5 U	ND<0.25 U	0.25	264	252
ND<0.5 U	ND<0.25 U	0.25	265	252
ND<0.5 U	ND<0.25 U	0.25	266	252
ND<0.5 U	ND<0.25 U	0.25	267	252
ND<0.5 U	ND<0.25 U	0.25	268	252

ND<0.5 U	ND<0.25 U	0.25	269	252
ND<0.5 U	ND<0.25 U	0.25	270	252
ND<0.5 U	ND<0.25 U	0.25	271	252
ND<0.5 U	ND<0.25 U	0.25	272	252
ND<0.5 U	ND<0.25 U	0.25	273	252
ND<0.5 U	ND<0.25 U	0.25	274	252
ND<0.5 U	ND<0.25 U	0.25	275	252
1.7	ND<0.25 U	1.45	276	252
ND<0.5 U	ND<0.25 U	0.25	277	252
ND<0.5 U	ND<0.25 U	0.25	278	252
ND<0.25 U	ND<0.25 U	0	278	252
ND<0.25 U	ND<0.25 U	0	278	252
ND<0.25 U	ND<0.25 U	0	278	252
ND<0.25 U	ND<0.25 U	0	278	252
ND<0.25 U	ND<0.25 U	0	278	252
ND<0.25 U	ND<0.25 U	0	278	252
ND<0.5 U	ND<0.25 U	0.25	279	252
ND<0.5 U	ND<0.25 U	0.25	280	252
ND<0.5 U	ND<0.25 U	0.25	281	252
ND<0.5 U	ND<0.25 U	0.25	282	252
ND<0.5 U	ND<0.25 U	0.25	283	252
ND<0.5 U	ND<0.25 U	0.25	284	252
ND<0.5 U	ND<0.25 U	0.25	285	252
ND<0.5 U	ND<0.25 U	0.25	286	252
ND<0.5 U	ND<0.25 U	0.25	287	252
ND<0.5 U	ND<0.25 U	0.25	288	252
ND<0.5 U	ND<0.25 U	0.25	289	252
ND<0.5 U	ND<0.25 U	0.25	290	252
ND<0.5 U	ND<0.25 U	0.25	291	252
ND<0.5 U	ND<0.25 U	0.25	292	252
ND<0.5 U	ND<0.25 U	0.25	293	252
ND<0.5 U	ND<0.25 U	0.25	294	252
1.7	ND<0.25 U	1.45	295	252
ND<0.5 U	ND<0.25 U	0.25	296	252
ND<0.5 U	ND<0.25 U	0.25	297	252
ND<0.25 U	ND<0.25 U	0	297	252
ND<0.25 U	ND<0.25 U	0	297	252
ND<0.25 U	ND<0.25 U	0	297	252
ND<0.25 U	ND<0.25 U	0	297	252
ND<0.25 U	ND<0.25 U	0	297	252
ND<0.5 U	ND<0.25 U	0.25	298	252
ND<0.5 U	ND<0.25 U	0.25	299	252
ND<0.5 U	ND<0.25 U	0.25	300	252
ND<0.5 U	ND<0.25 U	0.25	301	252
ND<0.5 U	ND<0.25 U	0.25	302	252
ND<0.5 U	ND<0.25 U	0.25	303	252
ND<0.5 U	ND<0.25 U	0.25	304	252
ND<0.5 U	ND<0.25 U	0.25	305	252
ND<0.5 U	ND<0.25 U	0.25	306	252
ND<0.5 U	ND<0.25 U	0.25	307	252
ND<0.5 U	ND<0.25 U	0.25	308	252
ND<0.5 U	ND<0.25 U	0.25	309	252
ND<0.5 U	ND<0.25 U	0.25	310	252
ND<0.5 U	ND<0.25 U	0.25	311	252
ND<0.5 U	ND<0.25 U	0.25	312	252

ND<0.5 U	ND<0.25 U	0.25	313	252
1.7	ND<0.25 U	1.45	314	252
ND<0.5 U	ND<0.25 U	0.25	315	252
ND<0.5 U	ND<0.25 U	0.25	316	252
ND<0.25 U	ND<0.25 U	0	316	252
ND<0.25 U	ND<0.25 U	0	316	252
ND<0.25 U	ND<0.25 U	0	316	252
ND<0.25 U	ND<0.25 U	0	316	252
ND<0.5 U	ND<0.25 U	0.25	317	252
ND<0.5 U	ND<0.25 U	0.25	318	252
ND<0.5 U	ND<0.25 U	0.25	319	252
ND<0.5 U	ND<0.25 U	0.25	320	252
ND<0.5 U	ND<0.25 U	0.25	321	252
ND<0.5 U	ND<0.25 U	0.25	322	252
ND<0.5 U	ND<0.25 U	0.25	323	252
ND<0.5 U	ND<0.25 U	0.25	324	252
ND<0.5 U	ND<0.25 U	0.25	325	252
ND<0.5 U	ND<0.25 U	0.25	326	252
ND<0.5 U	ND<0.25 U	0.25	327	252
ND<0.5 U	ND<0.25 U	0.25	328	252
ND<0.5 U	ND<0.25 U	0.25	329	252
ND<0.5 U	ND<0.25 U	0.25	330	252
ND<0.5 U	ND<0.25 U	0.25	331	252
ND<0.5 U	ND<0.25 U	0.25	332	252
1.7	ND<0.25 U	1.45	333	252
ND<0.5 U	ND<0.25 U	0.25	334	252
ND<0.5 U	ND<0.25 U	0.25	335	252
ND<0.25 U	ND<0.25 U	0	335	252
ND<0.25 U	ND<0.25 U	0	335	252
ND<0.25 U	ND<0.25 U	0	335	252
ND<0.5 U	ND<0.25 U	0.25	336	252
ND<0.5 U	ND<0.25 U	0.25	337	252
ND<0.5 U	ND<0.25 U	0.25	338	252
ND<0.5 U	ND<0.25 U	0.25	339	252
ND<0.5 U	ND<0.25 U	0.25	340	252
ND<0.5 U	ND<0.25 U	0.25	341	252
ND<0.5 U	ND<0.25 U	0.25	342	252
ND<0.5 U	ND<0.25 U	0.25	343	252
ND<0.5 U	ND<0.25 U	0.25	344	252
ND<0.5 U	ND<0.25 U	0.25	345	252
ND<0.5 U	ND<0.25 U	0.25	346	252
ND<0.5 U	ND<0.25 U	0.25	347	252
ND<0.5 U	ND<0.25 U	0.25	348	252
ND<0.5 U	ND<0.25 U	0.25	349	252
ND<0.5 U	ND<0.25 U	0.25	350	252
ND<0.5 U	ND<0.25 U	0.25	351	252
1.7	ND<0.25 U	1.45	352	252
ND<0.5 U	ND<0.25 U	0.25	353	252
ND<0.5 U	ND<0.25 U	0.25	354	252
ND<0.25 U	ND<0.25 U	0	354	252
ND<0.25 U	ND<0.25 U	0	354	252
ND<0.5 U	ND<0.25 U	0.25	355	252
ND<0.5 U	ND<0.25 U	0.25	356	252
ND<0.5 U	ND<0.25 U	0.25	357	252

ND<0.5 U	ND<0.25 U	0.25	358	252
ND<0.5 U	ND<0.25 U	0.25	359	252
ND<0.5 U	ND<0.25 U	0.25	360	252
ND<0.5 U	ND<0.25 U	0.25	361	252
ND<0.5 U	ND<0.25 U	0.25	362	252
ND<0.5 U	ND<0.25 U	0.25	363	252
ND<0.5 U	ND<0.25 U	0.25	364	252
ND<0.5 U	ND<0.25 U	0.25	365	252
ND<0.5 U	ND<0.25 U	0.25	366	252
ND<0.5 U	ND<0.25 U	0.25	367	252
ND<0.5 U	ND<0.25 U	0.25	368	252
ND<0.5 U	ND<0.25 U	0.25	369	252
ND<0.5 U	ND<0.25 U	0.25	370	252
1.7	ND<0.25 U	1.45	371	252
ND<0.5 U	ND<0.25 U	0.25	372	252
ND<0.5 U	ND<0.25 U	0.25	373	252
ND<0.25 U	ND<0.25 U	0	373	252
ND<0.5 U	ND<0.25 U	0.25	374	252
ND<0.5 U	ND<0.25 U	0.25	375	252
ND<0.5 U	ND<0.25 U	0.25	376	252
ND<0.5 U	ND<0.25 U	0.25	377	252
ND<0.5 U	ND<0.25 U	0.25	378	252
ND<0.5 U	ND<0.25 U	0.25	379	252
ND<0.5 U	ND<0.25 U	0.25	380	252
ND<0.5 U	ND<0.25 U	0.25	381	252
ND<0.5 U	ND<0.25 U	0.25	382	252
ND<0.5 U	ND<0.25 U	0.25	383	252
ND<0.5 U	ND<0.25 U	0.25	384	252
ND<0.5 U	ND<0.25 U	0.25	385	252
ND<0.5 U	ND<0.25 U	0.25	386	252
ND<0.5 U	ND<0.25 U	0.25	387	252
ND<0.5 U	ND<0.25 U	0.25	388	252
ND<0.5 U	ND<0.25 U	0.25	389	252
1.7	ND<0.25 U	1.45	390	252
ND<0.5 U	ND<0.25 U	0.25	391	252
ND<0.5 U	ND<0.25 U	0.25	392	252
ND<0.5 U	ND<0.25 U	0.25	393	252
ND<0.5 U	ND<0.25 U	0.25	394	252
ND<0.5 U	ND<0.25 U	0.25	395	252
ND<0.5 U	ND<0.25 U	0.25	396	252
ND<0.5 U	ND<0.25 U	0.25	397	252
ND<0.5 U	ND<0.25 U	0.25	398	252
ND<0.5 U	ND<0.25 U	0.25	399	252
ND<0.5 U	ND<0.25 U	0.25	400	252
ND<0.5 U	ND<0.25 U	0.25	401	252
ND<0.5 U	ND<0.25 U	0.25	402	252
ND<0.5 U	ND<0.25 U	0.25	403	252
ND<0.5 U	ND<0.25 U	0.25	404	252
ND<0.5 U	ND<0.25 U	0.25	405	252
ND<0.5 U	ND<0.25 U	0.25	406	252
ND<0.5 U	ND<0.25 U	0.25	407	252
ND<0.5 U	ND<0.25 U	0.25	408	252
1.7	ND<0.25 U	1.45	409	252
ND<0.5 U	ND<0.25 U	0.25	410	252
ND<0.5 U	ND<0.25 U	0.25	411	252

ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
ND<0.5 U	ND<0.5 U	0	411	252
1.7	ND<0.5 U	1.2	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
ND<0.5 U	ND<0.5 U	0	412	252
1.7	ND<0.5 U	1.2	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
ND<0.5 U	ND<0.5 U	0	413	252
1.7	ND<0.5 U	1.2	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252

ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
ND<0.5 U	ND<0.5 U	0	414	252
1.7	ND<0.5 U	1.2	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
ND<0.5 U	ND<0.5 U	0	415	252
1.7	ND<0.5 U	1.2	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
ND<0.5 U	ND<0.5 U	0	416	252
1.7	ND<0.5 U	1.2	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
ND<0.5 U	ND<0.5 U	0	417	252
1.7	ND<0.5 U	1.2	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252

ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
ND<0.5 U	ND<0.5 U	0	418	252
1.7	ND<0.5 U	1.2	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
ND<0.5 U	ND<0.5 U	0	419	252
1.7	ND<0.5 U	1.2	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
ND<0.5 U	ND<0.5 U	0	420	252
1.7	ND<0.5 U	1.2	421	252
ND<0.5 U	ND<0.5 U	0	421	252
ND<0.5 U	ND<0.5 U	0	421	252
ND<0.5 U	ND<0.5 U	0	421	252
ND<0.5 U	ND<0.5 U	0	421	252
ND<0.5 U	ND<0.5 U	0	421	252
ND<0.5 U	ND<0.5 U	0	421	252
ND<0.5 U	ND<0.5 U	0	421	252
1.7	ND<0.5 U	1.2	422	252
ND<0.5 U	ND<0.5 U	0	422	252
ND<0.5 U	ND<0.5 U	0	422	252
ND<0.5 U	ND<0.5 U	0	422	252
ND<0.5 U	ND<0.5 U	0	422	252
ND<0.5 U	ND<0.5 U	0	422	252
ND<0.5 U	ND<0.5 U	0	422	252
1.7	ND<0.5 U	1.2	423	252
ND<0.5 U	ND<0.5 U	0	423	252
ND<0.5 U	ND<0.5 U	0	423	252
ND<0.5 U	ND<0.5 U	0	423	252
ND<0.5 U	ND<0.5 U	0	423	252
ND<0.5 U	ND<0.5 U	0	423	252
1.7	ND<0.5 U	1.2	424	252
ND<0.5 U	ND<0.5 U	0	424	252
ND<0.5 U	ND<0.5 U	0	424	252
ND<0.5 U	ND<0.5 U	0	424	252

ND<0.5 U	ND<0.5 U	0	424	252
1.7	ND<0.5 U	1.2	425	252
ND<0.5 U	ND<0.5 U	0	425	252
ND<0.5 U	ND<0.5 U	0	425	252
ND<0.5 U	ND<0.5 U	0	425	252
1.7	ND<0.5 U	1.2	426	252
ND<0.5 U	ND<0.5 U	0	426	252
ND<0.5 U	ND<0.5 U	0	426	252
1.7	ND<0.5 U	1.2	427	252
ND<0.5 U	ND<0.5 U	0	427	252
ND<0.5 U	ND<0.5 U	0	427	252
ND<0.5 U	1.7	-1.2	427	253
ND<0.5 U	1.7	-1.2	427	254
ND<0.5 U	ND<0.5 U	0	427	254

S Statistic = 427 - 254 = 173

Tied Group	**Value**	**Members**
1	0.5	30
2	0.25	21

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1

```
5/24/2012          1
6/15/2012          1
7/26/2012          1
8/15/2012          1
9/11/2012          1
10/18/2012         1
11/14/2012         1
12/5/2012          1
1/29/2013          1
7/29/2013          1
1/31/2014          1
7/17/2014          1
1/27/2015          1
7/21/2015          1
1/27/2016          1
7/26/2016          1
1/30/2017          1
7/24/2017          1
1/29/2018          1
7/24/2018          1
1/30/2019          1
7/29/2019          1
There are 0 time periods with multiple data
```

```
A = 76290
B = 0
C = 32340
D = 0
E = 1290
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 11821
Z-Score = 1.58198
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.58198| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21

ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
1.2	ND<0.5 U	0.7	1	21
ND<0.5 U	ND<0.5 U	0	1	21
1.9	ND<0.5 U	1.4	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.25 U	ND<0.5 U	-0.25	2	22
ND<0.25 U	ND<0.5 U	-0.25	2	23
ND<0.25 U	ND<0.5 U	-0.25	2	24
ND<0.25 U	ND<0.5 U	-0.25	2	25
ND<0.25 U	ND<0.5 U	-0.25	2	26
ND<0.25 U	ND<0.5 U	-0.25	2	27
ND<0.25 U	ND<0.5 U	-0.25	2	28
ND<0.25 U	ND<0.5 U	-0.25	2	29
ND<0.25 U	ND<0.5 U	-0.25	2	30
ND<0.25 U	ND<0.5 U	-0.25	2	31
ND<0.25 U	ND<0.5 U	-0.25	2	32
ND<0.25 U	ND<0.5 U	-0.25	2	33
ND<0.25 U	ND<0.5 U	-0.25	2	34
ND<0.25 U	ND<0.5 U	-0.25	2	35
ND<0.25 U	ND<0.5 U	-0.25	2	36
ND<0.25 U	ND<0.5 U	-0.25	2	37
ND<0.25 U	ND<0.5 U	-0.25	2	38
ND<0.25 U	ND<0.5 U	-0.25	2	39
ND<0.25 U	ND<0.5 U	-0.25	2	40
ND<0.25 U	ND<0.5 U	-0.25	2	41
ND<0.25 U	ND<0.5 U	-0.25	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42

ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
1.2	ND<0.5 U	0.7	3	42
ND<0.5 U	ND<0.5 U	0	3	42
1.9	ND<0.5 U	1.4	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.25 U	ND<0.5 U	-0.25	4	43
ND<0.25 U	ND<0.5 U	-0.25	4	44
ND<0.25 U	ND<0.5 U	-0.25	4	45
ND<0.25 U	ND<0.5 U	-0.25	4	46
ND<0.25 U	ND<0.5 U	-0.25	4	47
ND<0.25 U	ND<0.5 U	-0.25	4	48
ND<0.25 U	ND<0.5 U	-0.25	4	49
ND<0.25 U	ND<0.5 U	-0.25	4	50
ND<0.25 U	ND<0.5 U	-0.25	4	51
ND<0.25 U	ND<0.5 U	-0.25	4	52
ND<0.25 U	ND<0.5 U	-0.25	4	53
ND<0.25 U	ND<0.5 U	-0.25	4	54
ND<0.25 U	ND<0.5 U	-0.25	4	55
ND<0.25 U	ND<0.5 U	-0.25	4	56
ND<0.25 U	ND<0.5 U	-0.25	4	57
ND<0.25 U	ND<0.5 U	-0.25	4	58
ND<0.25 U	ND<0.5 U	-0.25	4	59
ND<0.25 U	ND<0.5 U	-0.25	4	60
ND<0.25 U	ND<0.5 U	-0.25	4	61
ND<0.25 U	ND<0.5 U	-0.25	4	62
ND<0.25 U	ND<0.5 U	-0.25	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63

ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
ND<0.5 U	ND<0.5 U	0	4	63
1.2	ND<0.5 U	0.7	5	63
ND<0.5 U	ND<0.5 U	0	5	63
1.9	ND<0.5 U	1.4	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.5 U	ND<0.5 U	0	6	63
ND<0.25 U	ND<0.5 U	-0.25	6	64
ND<0.25 U	ND<0.5 U	-0.25	6	65
ND<0.25 U	ND<0.5 U	-0.25	6	66
ND<0.25 U	ND<0.5 U	-0.25	6	67
ND<0.25 U	ND<0.5 U	-0.25	6	68
ND<0.25 U	ND<0.5 U	-0.25	6	69
ND<0.25 U	ND<0.5 U	-0.25	6	70
ND<0.25 U	ND<0.5 U	-0.25	6	71
ND<0.25 U	ND<0.5 U	-0.25	6	72
ND<0.25 U	ND<0.5 U	-0.25	6	73
ND<0.25 U	ND<0.5 U	-0.25	6	74
ND<0.25 U	ND<0.5 U	-0.25	6	75
ND<0.25 U	ND<0.5 U	-0.25	6	76
ND<0.25 U	ND<0.5 U	-0.25	6	77
ND<0.25 U	ND<0.5 U	-0.25	6	78
ND<0.25 U	ND<0.5 U	-0.25	6	79
ND<0.25 U	ND<0.5 U	-0.25	6	80
ND<0.25 U	ND<0.5 U	-0.25	6	81

ND<0.25 U	ND<0.5 U	-0.25	6	82
ND<0.25 U	ND<0.5 U	-0.25	6	83
ND<0.25 U	ND<0.5 U	-0.25	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
ND<0.5 U	ND<0.5 U	0	6	84
1.2	ND<0.5 U	0.7	7	84
ND<0.5 U	ND<0.5 U	0	7	84
1.9	ND<0.5 U	1.4	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.5 U	ND<0.5 U	0	8	84
ND<0.25 U	ND<0.5 U	-0.25	8	85
ND<0.25 U	ND<0.5 U	-0.25	8	86
ND<0.25 U	ND<0.5 U	-0.25	8	87
ND<0.25 U	ND<0.5 U	-0.25	8	88
ND<0.25 U	ND<0.5 U	-0.25	8	89
ND<0.25 U	ND<0.5 U	-0.25	8	90
ND<0.25 U	ND<0.5 U	-0.25	8	91
ND<0.25 U	ND<0.5 U	-0.25	8	92
ND<0.25 U	ND<0.5 U	-0.25	8	93
ND<0.25 U	ND<0.5 U	-0.25	8	94
ND<0.25 U	ND<0.5 U	-0.25	8	95
ND<0.25 U	ND<0.5 U	-0.25	8	96
ND<0.25 U	ND<0.5 U	-0.25	8	97
ND<0.25 U	ND<0.5 U	-0.25	8	98

ND<0.25 U	ND<0.5 U	-0.25	8	99
ND<0.25 U	ND<0.5 U	-0.25	8	100
ND<0.25 U	ND<0.5 U	-0.25	8	101
ND<0.25 U	ND<0.5 U	-0.25	8	102
ND<0.25 U	ND<0.5 U	-0.25	8	103
ND<0.25 U	ND<0.5 U	-0.25	8	104
ND<0.25 U	ND<0.5 U	-0.25	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
ND<0.5 U	ND<0.5 U	0	8	105
1.2	ND<0.5 U	0.7	9	105
ND<0.5 U	ND<0.5 U	0	9	105
1.9	ND<0.5 U	1.4	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.5 U	ND<0.5 U	0	10	105
ND<0.25 U	ND<0.5 U	-0.25	10	106
ND<0.25 U	ND<0.5 U	-0.25	10	107
ND<0.25 U	ND<0.5 U	-0.25	10	108
ND<0.25 U	ND<0.5 U	-0.25	10	109
ND<0.25 U	ND<0.5 U	-0.25	10	110
ND<0.25 U	ND<0.5 U	-0.25	10	111
ND<0.25 U	ND<0.5 U	-0.25	10	112
ND<0.25 U	ND<0.5 U	-0.25	10	113
ND<0.25 U	ND<0.5 U	-0.25	10	114
ND<0.25 U	ND<0.5 U	-0.25	10	115
ND<0.25 U	ND<0.5 U	-0.25	10	116

ND<0.25 U	ND<0.5 U	-0.25	10	117
ND<0.25 U	ND<0.5 U	-0.25	10	118
ND<0.25 U	ND<0.5 U	-0.25	10	119
ND<0.25 U	ND<0.5 U	-0.25	10	120
ND<0.25 U	ND<0.5 U	-0.25	10	121
ND<0.25 U	ND<0.5 U	-0.25	10	122
ND<0.25 U	ND<0.5 U	-0.25	10	123
ND<0.25 U	ND<0.5 U	-0.25	10	124
ND<0.25 U	ND<0.5 U	-0.25	10	125
ND<0.25 U	ND<0.5 U	-0.25	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
ND<0.5 U	ND<0.5 U	0	10	126
1.2	ND<0.5 U	0.7	11	126
ND<0.5 U	ND<0.5 U	0	11	126
1.9	ND<0.5 U	1.4	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.5 U	ND<0.5 U	0	12	126
ND<0.25 U	ND<0.5 U	-0.25	12	127
ND<0.25 U	ND<0.5 U	-0.25	12	128
ND<0.25 U	ND<0.5 U	-0.25	12	129
ND<0.25 U	ND<0.5 U	-0.25	12	130
ND<0.25 U	ND<0.5 U	-0.25	12	131
ND<0.25 U	ND<0.5 U	-0.25	12	132
ND<0.25 U	ND<0.5 U	-0.25	12	133
ND<0.25 U	ND<0.5 U	-0.25	12	134
ND<0.25 U	ND<0.5 U	-0.25	12	135

ND<0.25 U	ND<0.5 U	-0.25	12	136
ND<0.25 U	ND<0.5 U	-0.25	12	137
ND<0.25 U	ND<0.5 U	-0.25	12	138
ND<0.25 U	ND<0.5 U	-0.25	12	139
ND<0.25 U	ND<0.5 U	-0.25	12	140
ND<0.25 U	ND<0.5 U	-0.25	12	141
ND<0.25 U	ND<0.5 U	-0.25	12	142
ND<0.25 U	ND<0.5 U	-0.25	12	143
ND<0.25 U	ND<0.5 U	-0.25	12	144
ND<0.25 U	ND<0.5 U	-0.25	12	145
ND<0.25 U	ND<0.5 U	-0.25	12	146
ND<0.25 U	ND<0.5 U	-0.25	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
ND<0.5 U	ND<0.5 U	0	12	147
1.2	ND<0.5 U	0.7	13	147
ND<0.5 U	ND<0.5 U	0	13	147
1.9	ND<0.5 U	1.4	14	147
ND<0.5 U	ND<0.5 U	0	14	147
ND<0.5 U	ND<0.5 U	0	14	147
ND<0.5 U	ND<0.5 U	0	14	147
ND<0.5 U	ND<0.5 U	0	14	147
ND<0.5 U	ND<0.5 U	0	14	147
ND<0.5 U	ND<0.5 U	0	14	147
ND<0.25 U	ND<0.5 U	-0.25	14	148
ND<0.25 U	ND<0.5 U	-0.25	14	149
ND<0.25 U	ND<0.5 U	-0.25	14	150
ND<0.25 U	ND<0.5 U	-0.25	14	151
ND<0.25 U	ND<0.5 U	-0.25	14	152
ND<0.25 U	ND<0.5 U	-0.25	14	153
ND<0.25 U	ND<0.5 U	-0.25	14	154
ND<0.25 U	ND<0.5 U	-0.25	14	155

ND<0.25 U	ND<0.5 U	-0.25	14	156
ND<0.25 U	ND<0.5 U	-0.25	14	157
ND<0.25 U	ND<0.5 U	-0.25	14	158
ND<0.25 U	ND<0.5 U	-0.25	14	159
ND<0.25 U	ND<0.5 U	-0.25	14	160
ND<0.25 U	ND<0.5 U	-0.25	14	161
ND<0.25 U	ND<0.5 U	-0.25	14	162
ND<0.25 U	ND<0.5 U	-0.25	14	163
ND<0.25 U	ND<0.5 U	-0.25	14	164
ND<0.25 U	ND<0.5 U	-0.25	14	165
ND<0.25 U	ND<0.5 U	-0.25	14	166
ND<0.25 U	ND<0.5 U	-0.25	14	167
ND<0.25 U	ND<0.5 U	-0.25	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
ND<0.5 U	ND<0.5 U	0	14	168
1.2	ND<0.5 U	0.7	15	168
ND<0.5 U	ND<0.5 U	0	15	168
1.9	ND<0.5 U	1.4	16	168
ND<0.5 U	ND<0.5 U	0	16	168
ND<0.5 U	ND<0.5 U	0	16	168
ND<0.5 U	ND<0.5 U	0	16	168
ND<0.5 U	ND<0.5 U	0	16	168
ND<0.5 U	ND<0.5 U	0	16	168
ND<0.25 U	ND<0.5 U	-0.25	16	169
ND<0.25 U	ND<0.5 U	-0.25	16	170
ND<0.25 U	ND<0.5 U	-0.25	16	171
ND<0.25 U	ND<0.5 U	-0.25	16	172
ND<0.25 U	ND<0.5 U	-0.25	16	173
ND<0.25 U	ND<0.5 U	-0.25	16	174
ND<0.25 U	ND<0.5 U	-0.25	16	175
ND<0.25 U	ND<0.5 U	-0.25	16	176

ND<0.25 U	ND<0.5 U	-0.25	16	177
ND<0.25 U	ND<0.5 U	-0.25	16	178
ND<0.25 U	ND<0.5 U	-0.25	16	179
ND<0.25 U	ND<0.5 U	-0.25	16	180
ND<0.25 U	ND<0.5 U	-0.25	16	181
ND<0.25 U	ND<0.5 U	-0.25	16	182
ND<0.25 U	ND<0.5 U	-0.25	16	183
ND<0.25 U	ND<0.5 U	-0.25	16	184
ND<0.25 U	ND<0.5 U	-0.25	16	185
ND<0.25 U	ND<0.5 U	-0.25	16	186
ND<0.25 U	ND<0.5 U	-0.25	16	187
ND<0.25 U	ND<0.5 U	-0.25	16	188
ND<0.25 U	ND<0.5 U	-0.25	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
ND<0.5 U	ND<0.5 U	0	16	189
1.2	ND<0.5 U	0.7	17	189
ND<0.5 U	ND<0.5 U	0	17	189
1.9	ND<0.5 U	1.4	18	189
ND<0.5 U	ND<0.5 U	0	18	189
ND<0.5 U	ND<0.5 U	0	18	189
ND<0.5 U	ND<0.5 U	0	18	189
ND<0.5 U	ND<0.5 U	0	18	189
ND<0.25 U	ND<0.5 U	-0.25	18	190
ND<0.25 U	ND<0.5 U	-0.25	18	191
ND<0.25 U	ND<0.5 U	-0.25	18	192
ND<0.25 U	ND<0.5 U	-0.25	18	193
ND<0.25 U	ND<0.5 U	-0.25	18	194
ND<0.25 U	ND<0.5 U	-0.25	18	195
ND<0.25 U	ND<0.5 U	-0.25	18	196
ND<0.25 U	ND<0.5 U	-0.25	18	197
ND<0.25 U	ND<0.5 U	-0.25	18	198

ND<0.25 U	ND<0.5 U	-0.25	18	199
ND<0.25 U	ND<0.5 U	-0.25	18	200
ND<0.25 U	ND<0.5 U	-0.25	18	201
ND<0.25 U	ND<0.5 U	-0.25	18	202
ND<0.25 U	ND<0.5 U	-0.25	18	203
ND<0.25 U	ND<0.5 U	-0.25	18	204
ND<0.25 U	ND<0.5 U	-0.25	18	205
ND<0.25 U	ND<0.5 U	-0.25	18	206
ND<0.25 U	ND<0.5 U	-0.25	18	207
ND<0.25 U	ND<0.5 U	-0.25	18	208
ND<0.25 U	ND<0.5 U	-0.25	18	209
ND<0.25 U	ND<0.5 U	-0.25	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
ND<0.5 U	ND<0.5 U	0	18	210
1.2	ND<0.5 U	0.7	19	210
ND<0.5 U	ND<0.5 U	0	19	210
1.9	ND<0.5 U	1.4	20	210
ND<0.5 U	ND<0.5 U	0	20	210
ND<0.5 U	ND<0.5 U	0	20	210
ND<0.5 U	ND<0.5 U	0	20	210
ND<0.25 U	ND<0.5 U	-0.25	20	211
ND<0.25 U	ND<0.5 U	-0.25	20	212
ND<0.25 U	ND<0.5 U	-0.25	20	213
ND<0.25 U	ND<0.5 U	-0.25	20	214
ND<0.25 U	ND<0.5 U	-0.25	20	215
ND<0.25 U	ND<0.5 U	-0.25	20	216
ND<0.25 U	ND<0.5 U	-0.25	20	217
ND<0.25 U	ND<0.5 U	-0.25	20	218
ND<0.25 U	ND<0.5 U	-0.25	20	219
ND<0.25 U	ND<0.5 U	-0.25	20	220
ND<0.25 U	ND<0.5 U	-0.25	20	221

ND<0.25 U	ND<0.5 U	-0.25	20	222
ND<0.25 U	ND<0.5 U	-0.25	20	223
ND<0.25 U	ND<0.5 U	-0.25	20	224
ND<0.25 U	ND<0.5 U	-0.25	20	225
ND<0.25 U	ND<0.5 U	-0.25	20	226
ND<0.25 U	ND<0.5 U	-0.25	20	227
ND<0.25 U	ND<0.5 U	-0.25	20	228
ND<0.25 U	ND<0.5 U	-0.25	20	229
ND<0.25 U	ND<0.5 U	-0.25	20	230
ND<0.25 U	ND<0.5 U	-0.25	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
ND<0.5 U	ND<0.5 U	0	20	231
1.2	ND<0.5 U	0.7	21	231
ND<0.5 U	ND<0.5 U	0	21	231
1.9	ND<0.5 U	1.4	22	231
ND<0.5 U	ND<0.5 U	0	22	231
ND<0.5 U	ND<0.5 U	0	22	231
ND<0.25 U	ND<0.5 U	-0.25	22	232
ND<0.25 U	ND<0.5 U	-0.25	22	233
ND<0.25 U	ND<0.5 U	-0.25	22	234
ND<0.25 U	ND<0.5 U	-0.25	22	235
ND<0.25 U	ND<0.5 U	-0.25	22	236
ND<0.25 U	ND<0.5 U	-0.25	22	237
ND<0.25 U	ND<0.5 U	-0.25	22	238
ND<0.25 U	ND<0.5 U	-0.25	22	239
ND<0.25 U	ND<0.5 U	-0.25	22	240
ND<0.25 U	ND<0.5 U	-0.25	22	241
ND<0.25 U	ND<0.5 U	-0.25	22	242
ND<0.25 U	ND<0.5 U	-0.25	22	243
ND<0.25 U	ND<0.5 U	-0.25	22	244
ND<0.25 U	ND<0.5 U	-0.25	22	245

ND<0.25 U	ND<0.5 U	-0.25	22	246
ND<0.25 U	ND<0.5 U	-0.25	22	247
ND<0.25 U	ND<0.5 U	-0.25	22	248
ND<0.25 U	ND<0.5 U	-0.25	22	249
ND<0.25 U	ND<0.5 U	-0.25	22	250
ND<0.25 U	ND<0.5 U	-0.25	22	251
ND<0.25 U	ND<0.5 U	-0.25	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
ND<0.5 U	ND<0.5 U	0	22	252
1.2	ND<0.5 U	0.7	23	252
ND<0.5 U	ND<0.5 U	0	23	252
1.9	ND<0.5 U	1.4	24	252
ND<0.5 U	ND<0.5 U	0	24	252
ND<0.5 U	ND<0.5 U	0	24	252

ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252

ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.25 U	ND<0.25 U	0	24	252
ND<0.5 U	ND<0.25 U	0.25	25	252
ND<0.5 U	ND<0.25 U	0.25	26	252
ND<0.5 U	ND<0.25 U	0.25	27	252
ND<0.5 U	ND<0.25 U	0.25	28	252
ND<0.5 U	ND<0.25 U	0.25	29	252
ND<0.5 U	ND<0.25 U	0.25	30	252
ND<0.5 U	ND<0.25 U	0.25	31	252
ND<0.5 U	ND<0.25 U	0.25	32	252
ND<0.5 U	ND<0.25 U	0.25	33	252
ND<0.5 U	ND<0.25 U	0.25	34	252
ND<0.5 U	ND<0.25 U	0.25	35	252
ND<0.5 U	ND<0.25 U	0.25	36	252
ND<0.5 U	ND<0.25 U	0.25	37	252
ND<0.5 U	ND<0.25 U	0.25	38	252
ND<0.5 U	ND<0.25 U	0.25	39	252
ND<0.5 U	ND<0.25 U	0.25	40	252
ND<0.5 U	ND<0.25 U	0.25	41	252
ND<0.5 U	ND<0.25 U	0.25	42	252
ND<0.5 U	ND<0.25 U	0.25	43	252
ND<0.5 U	ND<0.25 U	0.25	44	252
ND<0.5 U	ND<0.25 U	0.25	45	252
ND<0.5 U	ND<0.25 U	0.25	46	252
ND<0.5 U	ND<0.25 U	0.25	47	252
ND<0.5 U	ND<0.25 U	0.25	48	252
ND<0.5 U	ND<0.25 U	0.25	49	252
ND<0.5 U	ND<0.25 U	0.25	50	252
ND<0.5 U	ND<0.25 U	0.25	51	252
1.2	ND<0.25 U	0.95	52	252
ND<0.5 U	ND<0.25 U	0.25	53	252
1.9	ND<0.25 U	1.65	54	252
ND<0.5 U	ND<0.25 U	0.25	55	252
ND<0.5 U	ND<0.25 U	0.25	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.25 U	ND<0.25 U	0	56	252
ND<0.5 U	ND<0.25 U	0.25	57	252
ND<0.5 U	ND<0.25 U	0.25	58	252

ND<0.5 U	ND<0.25 U	0.25	59	252
ND<0.5 U	ND<0.25 U	0.25	60	252
ND<0.5 U	ND<0.25 U	0.25	61	252
ND<0.5 U	ND<0.25 U	0.25	62	252
ND<0.5 U	ND<0.25 U	0.25	63	252
ND<0.5 U	ND<0.25 U	0.25	64	252
ND<0.5 U	ND<0.25 U	0.25	65	252
ND<0.5 U	ND<0.25 U	0.25	66	252
ND<0.5 U	ND<0.25 U	0.25	67	252
ND<0.5 U	ND<0.25 U	0.25	68	252
ND<0.5 U	ND<0.25 U	0.25	69	252
ND<0.5 U	ND<0.25 U	0.25	70	252
ND<0.5 U	ND<0.25 U	0.25	71	252
ND<0.5 U	ND<0.25 U	0.25	72	252
ND<0.5 U	ND<0.25 U	0.25	73	252
ND<0.5 U	ND<0.25 U	0.25	74	252
ND<0.5 U	ND<0.25 U	0.25	75	252
ND<0.5 U	ND<0.25 U	0.25	76	252
ND<0.5 U	ND<0.25 U	0.25	77	252
ND<0.5 U	ND<0.25 U	0.25	78	252
ND<0.5 U	ND<0.25 U	0.25	79	252
ND<0.5 U	ND<0.25 U	0.25	80	252
ND<0.5 U	ND<0.25 U	0.25	81	252
ND<0.5 U	ND<0.25 U	0.25	82	252
ND<0.5 U	ND<0.25 U	0.25	83	252
1.2	ND<0.25 U	0.95	84	252
ND<0.5 U	ND<0.25 U	0.25	85	252
1.9	ND<0.25 U	1.65	86	252
ND<0.5 U	ND<0.25 U	0.25	87	252
ND<0.5 U	ND<0.25 U	0.25	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.25 U	ND<0.25 U	0	88	252
ND<0.5 U	ND<0.25 U	0.25	89	252
ND<0.5 U	ND<0.25 U	0.25	90	252
ND<0.5 U	ND<0.25 U	0.25	91	252
ND<0.5 U	ND<0.25 U	0.25	92	252
ND<0.5 U	ND<0.25 U	0.25	93	252
ND<0.5 U	ND<0.25 U	0.25	94	252
ND<0.5 U	ND<0.25 U	0.25	95	252
ND<0.5 U	ND<0.25 U	0.25	96	252

ND<0.5 U	ND<0.25 U	0.25	97	252
ND<0.5 U	ND<0.25 U	0.25	98	252
ND<0.5 U	ND<0.25 U	0.25	99	252
ND<0.5 U	ND<0.25 U	0.25	100	252
ND<0.5 U	ND<0.25 U	0.25	101	252
ND<0.5 U	ND<0.25 U	0.25	102	252
ND<0.5 U	ND<0.25 U	0.25	103	252
ND<0.5 U	ND<0.25 U	0.25	104	252
ND<0.5 U	ND<0.25 U	0.25	105	252
ND<0.5 U	ND<0.25 U	0.25	106	252
ND<0.5 U	ND<0.25 U	0.25	107	252
ND<0.5 U	ND<0.25 U	0.25	108	252
ND<0.5 U	ND<0.25 U	0.25	109	252
ND<0.5 U	ND<0.25 U	0.25	110	252
ND<0.5 U	ND<0.25 U	0.25	111	252
ND<0.5 U	ND<0.25 U	0.25	112	252
ND<0.5 U	ND<0.25 U	0.25	113	252
ND<0.5 U	ND<0.25 U	0.25	114	252
ND<0.5 U	ND<0.25 U	0.25	115	252
1.2	ND<0.25 U	0.95	116	252
ND<0.5 U	ND<0.25 U	0.25	117	252
1.9	ND<0.25 U	1.65	118	252
ND<0.5 U	ND<0.25 U	0.25	119	252
ND<0.5 U	ND<0.25 U	0.25	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.25 U	ND<0.25 U	0	120	252
ND<0.5 U	ND<0.25 U	0.25	121	252
ND<0.5 U	ND<0.25 U	0.25	122	252
ND<0.5 U	ND<0.25 U	0.25	123	252
ND<0.5 U	ND<0.25 U	0.25	124	252
ND<0.5 U	ND<0.25 U	0.25	125	252
ND<0.5 U	ND<0.25 U	0.25	126	252
ND<0.5 U	ND<0.25 U	0.25	127	252
ND<0.5 U	ND<0.25 U	0.25	128	252
ND<0.5 U	ND<0.25 U	0.25	129	252
ND<0.5 U	ND<0.25 U	0.25	130	252
ND<0.5 U	ND<0.25 U	0.25	131	252
ND<0.5 U	ND<0.25 U	0.25	132	252
ND<0.5 U	ND<0.25 U	0.25	133	252
ND<0.5 U	ND<0.25 U	0.25	134	252
ND<0.5 U	ND<0.25 U	0.25	135	252

ND<0.5 U	ND<0.25 U	0.25	136	252
ND<0.5 U	ND<0.25 U	0.25	137	252
ND<0.5 U	ND<0.25 U	0.25	138	252
ND<0.5 U	ND<0.25 U	0.25	139	252
ND<0.5 U	ND<0.25 U	0.25	140	252
ND<0.5 U	ND<0.25 U	0.25	141	252
ND<0.5 U	ND<0.25 U	0.25	142	252
ND<0.5 U	ND<0.25 U	0.25	143	252
ND<0.5 U	ND<0.25 U	0.25	144	252
ND<0.5 U	ND<0.25 U	0.25	145	252
ND<0.5 U	ND<0.25 U	0.25	146	252
ND<0.5 U	ND<0.25 U	0.25	147	252
1.2	ND<0.25 U	0.95	148	252
ND<0.5 U	ND<0.25 U	0.25	149	252
1.9	ND<0.25 U	1.65	150	252
ND<0.5 U	ND<0.25 U	0.25	151	252
ND<0.5 U	ND<0.25 U	0.25	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.25 U	ND<0.25 U	0	152	252
ND<0.5 U	ND<0.25 U	0.25	153	252
ND<0.5 U	ND<0.25 U	0.25	154	252
ND<0.5 U	ND<0.25 U	0.25	155	252
ND<0.5 U	ND<0.25 U	0.25	156	252
ND<0.5 U	ND<0.25 U	0.25	157	252
ND<0.5 U	ND<0.25 U	0.25	158	252
ND<0.5 U	ND<0.25 U	0.25	159	252
ND<0.5 U	ND<0.25 U	0.25	160	252
ND<0.5 U	ND<0.25 U	0.25	161	252
ND<0.5 U	ND<0.25 U	0.25	162	252
ND<0.5 U	ND<0.25 U	0.25	163	252
ND<0.5 U	ND<0.25 U	0.25	164	252
ND<0.5 U	ND<0.25 U	0.25	165	252
ND<0.5 U	ND<0.25 U	0.25	166	252
ND<0.5 U	ND<0.25 U	0.25	167	252
ND<0.5 U	ND<0.25 U	0.25	168	252
ND<0.5 U	ND<0.25 U	0.25	169	252
ND<0.5 U	ND<0.25 U	0.25	170	252
ND<0.5 U	ND<0.25 U	0.25	171	252
ND<0.5 U	ND<0.25 U	0.25	172	252
ND<0.5 U	ND<0.25 U	0.25	173	252
ND<0.5 U	ND<0.25 U	0.25	174	252
ND<0.5 U	ND<0.25 U	0.25	175	252

ND<0.5 U	ND<0.25 U	0.25	176	252
ND<0.5 U	ND<0.25 U	0.25	177	252
ND<0.5 U	ND<0.25 U	0.25	178	252
ND<0.5 U	ND<0.25 U	0.25	179	252
1.2	ND<0.25 U	0.95	180	252
ND<0.5 U	ND<0.25 U	0.25	181	252
1.9	ND<0.25 U	1.65	182	252
ND<0.5 U	ND<0.25 U	0.25	183	252
ND<0.5 U	ND<0.25 U	0.25	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.25 U	ND<0.25 U	0	184	252
ND<0.5 U	ND<0.25 U	0.25	185	252
ND<0.5 U	ND<0.25 U	0.25	186	252
ND<0.5 U	ND<0.25 U	0.25	187	252
ND<0.5 U	ND<0.25 U	0.25	188	252
ND<0.5 U	ND<0.25 U	0.25	189	252
ND<0.5 U	ND<0.25 U	0.25	190	252
ND<0.5 U	ND<0.25 U	0.25	191	252
ND<0.5 U	ND<0.25 U	0.25	192	252
ND<0.5 U	ND<0.25 U	0.25	193	252
ND<0.5 U	ND<0.25 U	0.25	194	252
ND<0.5 U	ND<0.25 U	0.25	195	252
ND<0.5 U	ND<0.25 U	0.25	196	252
ND<0.5 U	ND<0.25 U	0.25	197	252
ND<0.5 U	ND<0.25 U	0.25	198	252
ND<0.5 U	ND<0.25 U	0.25	199	252
ND<0.5 U	ND<0.25 U	0.25	200	252
ND<0.5 U	ND<0.25 U	0.25	201	252
ND<0.5 U	ND<0.25 U	0.25	202	252
ND<0.5 U	ND<0.25 U	0.25	203	252
ND<0.5 U	ND<0.25 U	0.25	204	252
ND<0.5 U	ND<0.25 U	0.25	205	252
ND<0.5 U	ND<0.25 U	0.25	206	252
ND<0.5 U	ND<0.25 U	0.25	207	252
ND<0.5 U	ND<0.25 U	0.25	208	252
ND<0.5 U	ND<0.25 U	0.25	209	252
ND<0.5 U	ND<0.25 U	0.25	210	252
ND<0.5 U	ND<0.25 U	0.25	211	252
1.2	ND<0.25 U	0.95	212	252
ND<0.5 U	ND<0.25 U	0.25	213	252
1.9	ND<0.25 U	1.65	214	252
ND<0.5 U	ND<0.25 U	0.25	215	252
ND<0.5 U	ND<0.25 U	0.25	216	252

ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.25 U	ND<0.25 U	0	216	252
ND<0.5 U	ND<0.25 U	0.25	217	252
ND<0.5 U	ND<0.25 U	0.25	218	252
ND<0.5 U	ND<0.25 U	0.25	219	252
ND<0.5 U	ND<0.25 U	0.25	220	252
ND<0.5 U	ND<0.25 U	0.25	221	252
ND<0.5 U	ND<0.25 U	0.25	222	252
ND<0.5 U	ND<0.25 U	0.25	223	252
ND<0.5 U	ND<0.25 U	0.25	224	252
ND<0.5 U	ND<0.25 U	0.25	225	252
ND<0.5 U	ND<0.25 U	0.25	226	252
ND<0.5 U	ND<0.25 U	0.25	227	252
ND<0.5 U	ND<0.25 U	0.25	228	252
ND<0.5 U	ND<0.25 U	0.25	229	252
ND<0.5 U	ND<0.25 U	0.25	230	252
ND<0.5 U	ND<0.25 U	0.25	231	252
ND<0.5 U	ND<0.25 U	0.25	232	252
ND<0.5 U	ND<0.25 U	0.25	233	252
ND<0.5 U	ND<0.25 U	0.25	234	252
ND<0.5 U	ND<0.25 U	0.25	235	252
ND<0.5 U	ND<0.25 U	0.25	236	252
ND<0.5 U	ND<0.25 U	0.25	237	252
ND<0.5 U	ND<0.25 U	0.25	238	252
ND<0.5 U	ND<0.25 U	0.25	239	252
ND<0.5 U	ND<0.25 U	0.25	240	252
ND<0.5 U	ND<0.25 U	0.25	241	252
ND<0.5 U	ND<0.25 U	0.25	242	252
ND<0.5 U	ND<0.25 U	0.25	243	252
1.2	ND<0.25 U	0.95	244	252
ND<0.5 U	ND<0.25 U	0.25	245	252
1.9	ND<0.25 U	1.65	246	252
ND<0.5 U	ND<0.25 U	0.25	247	252
ND<0.5 U	ND<0.25 U	0.25	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252

ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.25 U	ND<0.25 U	0	248	252
ND<0.5 U	ND<0.25 U	0.25	249	252
ND<0.5 U	ND<0.25 U	0.25	250	252
ND<0.5 U	ND<0.25 U	0.25	251	252
ND<0.5 U	ND<0.25 U	0.25	252	252
ND<0.5 U	ND<0.25 U	0.25	253	252
ND<0.5 U	ND<0.25 U	0.25	254	252
ND<0.5 U	ND<0.25 U	0.25	255	252
ND<0.5 U	ND<0.25 U	0.25	256	252
ND<0.5 U	ND<0.25 U	0.25	257	252
ND<0.5 U	ND<0.25 U	0.25	258	252
ND<0.5 U	ND<0.25 U	0.25	259	252
ND<0.5 U	ND<0.25 U	0.25	260	252
ND<0.5 U	ND<0.25 U	0.25	261	252
ND<0.5 U	ND<0.25 U	0.25	262	252
ND<0.5 U	ND<0.25 U	0.25	263	252
ND<0.5 U	ND<0.25 U	0.25	264	252
ND<0.5 U	ND<0.25 U	0.25	265	252
ND<0.5 U	ND<0.25 U	0.25	266	252
ND<0.5 U	ND<0.25 U	0.25	267	252
ND<0.5 U	ND<0.25 U	0.25	268	252
ND<0.5 U	ND<0.25 U	0.25	269	252
ND<0.5 U	ND<0.25 U	0.25	270	252
ND<0.5 U	ND<0.25 U	0.25	271	252
ND<0.5 U	ND<0.25 U	0.25	272	252
ND<0.5 U	ND<0.25 U	0.25	273	252
ND<0.5 U	ND<0.25 U	0.25	274	252
ND<0.5 U	ND<0.25 U	0.25	275	252
1.2	ND<0.25 U	0.95	276	252
ND<0.5 U	ND<0.25 U	0.25	277	252
1.9	ND<0.25 U	1.65	278	252
ND<0.5 U	ND<0.25 U	0.25	279	252
ND<0.5 U	ND<0.25 U	0.25	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.25 U	ND<0.25 U	0	280	252
ND<0.5 U	ND<0.25 U	0.25	281	252
ND<0.5 U	ND<0.25 U	0.25	282	252
ND<0.5 U	ND<0.25 U	0.25	283	252
ND<0.5 U	ND<0.25 U	0.25	284	252
ND<0.5 U	ND<0.25 U	0.25	285	252
ND<0.5 U	ND<0.25 U	0.25	286	252
ND<0.5 U	ND<0.25 U	0.25	287	252
ND<0.5 U	ND<0.25 U	0.25	288	252

ND<0.5 U	ND<0.25 U	0.25	289	252
ND<0.5 U	ND<0.25 U	0.25	290	252
ND<0.5 U	ND<0.25 U	0.25	291	252
ND<0.5 U	ND<0.25 U	0.25	292	252
ND<0.5 U	ND<0.25 U	0.25	293	252
ND<0.5 U	ND<0.25 U	0.25	294	252
ND<0.5 U	ND<0.25 U	0.25	295	252
ND<0.5 U	ND<0.25 U	0.25	296	252
ND<0.5 U	ND<0.25 U	0.25	297	252
ND<0.5 U	ND<0.25 U	0.25	298	252
ND<0.5 U	ND<0.25 U	0.25	299	252
ND<0.5 U	ND<0.25 U	0.25	300	252
ND<0.5 U	ND<0.25 U	0.25	301	252
ND<0.5 U	ND<0.25 U	0.25	302	252
ND<0.5 U	ND<0.25 U	0.25	303	252
ND<0.5 U	ND<0.25 U	0.25	304	252
ND<0.5 U	ND<0.25 U	0.25	305	252
ND<0.5 U	ND<0.25 U	0.25	306	252
ND<0.5 U	ND<0.25 U	0.25	307	252
1.2	ND<0.25 U	0.95	308	252
ND<0.5 U	ND<0.25 U	0.25	309	252
1.9	ND<0.25 U	1.65	310	252
ND<0.5 U	ND<0.25 U	0.25	311	252
ND<0.5 U	ND<0.25 U	0.25	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.25 U	ND<0.25 U	0	312	252
ND<0.5 U	ND<0.25 U	0.25	313	252
ND<0.5 U	ND<0.25 U	0.25	314	252
ND<0.5 U	ND<0.25 U	0.25	315	252
ND<0.5 U	ND<0.25 U	0.25	316	252
ND<0.5 U	ND<0.25 U	0.25	317	252
ND<0.5 U	ND<0.25 U	0.25	318	252
ND<0.5 U	ND<0.25 U	0.25	319	252
ND<0.5 U	ND<0.25 U	0.25	320	252
ND<0.5 U	ND<0.25 U	0.25	321	252
ND<0.5 U	ND<0.25 U	0.25	322	252
ND<0.5 U	ND<0.25 U	0.25	323	252
ND<0.5 U	ND<0.25 U	0.25	324	252
ND<0.5 U	ND<0.25 U	0.25	325	252
ND<0.5 U	ND<0.25 U	0.25	326	252
ND<0.5 U	ND<0.25 U	0.25	327	252
ND<0.5 U	ND<0.25 U	0.25	328	252
ND<0.5 U	ND<0.25 U	0.25	329	252
ND<0.5 U	ND<0.25 U	0.25	330	252
ND<0.5 U	ND<0.25 U	0.25	331	252
ND<0.5 U	ND<0.25 U	0.25	332	252
ND<0.5 U	ND<0.25 U	0.25	333	252

ND<0.5 U	ND<0.25 U	0.25	334	252
ND<0.5 U	ND<0.25 U	0.25	335	252
ND<0.5 U	ND<0.25 U	0.25	336	252
ND<0.5 U	ND<0.25 U	0.25	337	252
ND<0.5 U	ND<0.25 U	0.25	338	252
ND<0.5 U	ND<0.25 U	0.25	339	252
1.2	ND<0.25 U	0.95	340	252
ND<0.5 U	ND<0.25 U	0.25	341	252
1.9	ND<0.25 U	1.65	342	252
ND<0.5 U	ND<0.25 U	0.25	343	252
ND<0.5 U	ND<0.25 U	0.25	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.25 U	ND<0.25 U	0	344	252
ND<0.5 U	ND<0.25 U	0.25	345	252
ND<0.5 U	ND<0.25 U	0.25	346	252
ND<0.5 U	ND<0.25 U	0.25	347	252
ND<0.5 U	ND<0.25 U	0.25	348	252
ND<0.5 U	ND<0.25 U	0.25	349	252
ND<0.5 U	ND<0.25 U	0.25	350	252
ND<0.5 U	ND<0.25 U	0.25	351	252
ND<0.5 U	ND<0.25 U	0.25	352	252
ND<0.5 U	ND<0.25 U	0.25	353	252
ND<0.5 U	ND<0.25 U	0.25	354	252
ND<0.5 U	ND<0.25 U	0.25	355	252
ND<0.5 U	ND<0.25 U	0.25	356	252
ND<0.5 U	ND<0.25 U	0.25	357	252
ND<0.5 U	ND<0.25 U	0.25	358	252
ND<0.5 U	ND<0.25 U	0.25	359	252
ND<0.5 U	ND<0.25 U	0.25	360	252
ND<0.5 U	ND<0.25 U	0.25	361	252
ND<0.5 U	ND<0.25 U	0.25	362	252
ND<0.5 U	ND<0.25 U	0.25	363	252
ND<0.5 U	ND<0.25 U	0.25	364	252
ND<0.5 U	ND<0.25 U	0.25	365	252
ND<0.5 U	ND<0.25 U	0.25	366	252
ND<0.5 U	ND<0.25 U	0.25	367	252
ND<0.5 U	ND<0.25 U	0.25	368	252
ND<0.5 U	ND<0.25 U	0.25	369	252
ND<0.5 U	ND<0.25 U	0.25	370	252
ND<0.5 U	ND<0.25 U	0.25	371	252
1.2	ND<0.25 U	0.95	372	252
ND<0.5 U	ND<0.25 U	0.25	373	252
1.9	ND<0.25 U	1.65	374	252
ND<0.5 U	ND<0.25 U	0.25	375	252
ND<0.5 U	ND<0.25 U	0.25	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252

ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.25 U	ND<0.25 U	0	376	252
ND<0.5 U	ND<0.25 U	0.25	377	252
ND<0.5 U	ND<0.25 U	0.25	378	252
ND<0.5 U	ND<0.25 U	0.25	379	252
ND<0.5 U	ND<0.25 U	0.25	380	252
ND<0.5 U	ND<0.25 U	0.25	381	252
ND<0.5 U	ND<0.25 U	0.25	382	252
ND<0.5 U	ND<0.25 U	0.25	383	252
ND<0.5 U	ND<0.25 U	0.25	384	252
ND<0.5 U	ND<0.25 U	0.25	385	252
ND<0.5 U	ND<0.25 U	0.25	386	252
ND<0.5 U	ND<0.25 U	0.25	387	252
ND<0.5 U	ND<0.25 U	0.25	388	252
ND<0.5 U	ND<0.25 U	0.25	389	252
ND<0.5 U	ND<0.25 U	0.25	390	252
ND<0.5 U	ND<0.25 U	0.25	391	252
ND<0.5 U	ND<0.25 U	0.25	392	252
ND<0.5 U	ND<0.25 U	0.25	393	252
ND<0.5 U	ND<0.25 U	0.25	394	252
ND<0.5 U	ND<0.25 U	0.25	395	252
ND<0.5 U	ND<0.25 U	0.25	396	252
ND<0.5 U	ND<0.25 U	0.25	397	252
ND<0.5 U	ND<0.25 U	0.25	398	252
ND<0.5 U	ND<0.25 U	0.25	399	252
ND<0.5 U	ND<0.25 U	0.25	400	252
ND<0.5 U	ND<0.25 U	0.25	401	252
ND<0.5 U	ND<0.25 U	0.25	402	252
ND<0.5 U	ND<0.25 U	0.25	403	252
1.2	ND<0.25 U	0.95	404	252
ND<0.5 U	ND<0.25 U	0.25	405	252
1.9	ND<0.25 U	1.65	406	252
ND<0.5 U	ND<0.25 U	0.25	407	252
ND<0.5 U	ND<0.25 U	0.25	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.25 U	ND<0.25 U	0	408	252
ND<0.5 U	ND<0.25 U	0.25	409	252
ND<0.5 U	ND<0.25 U	0.25	410	252
ND<0.5 U	ND<0.25 U	0.25	411	252
ND<0.5 U	ND<0.25 U	0.25	412	252
ND<0.5 U	ND<0.25 U	0.25	413	252
ND<0.5 U	ND<0.25 U	0.25	414	252
ND<0.5 U	ND<0.25 U	0.25	415	252
ND<0.5 U	ND<0.25 U	0.25	416	252
ND<0.5 U	ND<0.25 U	0.25	417	252

ND<0.5 U	ND<0.25 U	0.25	418	252
ND<0.5 U	ND<0.25 U	0.25	419	252
ND<0.5 U	ND<0.25 U	0.25	420	252
ND<0.5 U	ND<0.25 U	0.25	421	252
ND<0.5 U	ND<0.25 U	0.25	422	252
ND<0.5 U	ND<0.25 U	0.25	423	252
ND<0.5 U	ND<0.25 U	0.25	424	252
ND<0.5 U	ND<0.25 U	0.25	425	252
ND<0.5 U	ND<0.25 U	0.25	426	252
ND<0.5 U	ND<0.25 U	0.25	427	252
ND<0.5 U	ND<0.25 U	0.25	428	252
ND<0.5 U	ND<0.25 U	0.25	429	252
ND<0.5 U	ND<0.25 U	0.25	430	252
ND<0.5 U	ND<0.25 U	0.25	431	252
ND<0.5 U	ND<0.25 U	0.25	432	252
ND<0.5 U	ND<0.25 U	0.25	433	252
ND<0.5 U	ND<0.25 U	0.25	434	252
ND<0.5 U	ND<0.25 U	0.25	435	252
1.2	ND<0.25 U	0.95	436	252
ND<0.5 U	ND<0.25 U	0.25	437	252
1.9	ND<0.25 U	1.65	438	252
ND<0.5 U	ND<0.25 U	0.25	439	252
ND<0.5 U	ND<0.25 U	0.25	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.25 U	ND<0.25 U	0	440	252
ND<0.5 U	ND<0.25 U	0.25	441	252
ND<0.5 U	ND<0.25 U	0.25	442	252
ND<0.5 U	ND<0.25 U	0.25	443	252
ND<0.5 U	ND<0.25 U	0.25	444	252
ND<0.5 U	ND<0.25 U	0.25	445	252
ND<0.5 U	ND<0.25 U	0.25	446	252
ND<0.5 U	ND<0.25 U	0.25	447	252
ND<0.5 U	ND<0.25 U	0.25	448	252
ND<0.5 U	ND<0.25 U	0.25	449	252
ND<0.5 U	ND<0.25 U	0.25	450	252
ND<0.5 U	ND<0.25 U	0.25	451	252
ND<0.5 U	ND<0.25 U	0.25	452	252
ND<0.5 U	ND<0.25 U	0.25	453	252
ND<0.5 U	ND<0.25 U	0.25	454	252
ND<0.5 U	ND<0.25 U	0.25	455	252
ND<0.5 U	ND<0.25 U	0.25	456	252
ND<0.5 U	ND<0.25 U	0.25	457	252
ND<0.5 U	ND<0.25 U	0.25	458	252
ND<0.5 U	ND<0.25 U	0.25	459	252
ND<0.5 U	ND<0.25 U	0.25	460	252
ND<0.5 U	ND<0.25 U	0.25	461	252
ND<0.5 U	ND<0.25 U	0.25	462	252
ND<0.5 U	ND<0.25 U	0.25	463	252
ND<0.5 U	ND<0.25 U	0.25	464	252
ND<0.5 U	ND<0.25 U	0.25	465	252
ND<0.5 U	ND<0.25 U	0.25	466	252

ND<0.5 U	ND<0.25 U	0.25	467	252
1.2	ND<0.25 U	0.95	468	252
ND<0.5 U	ND<0.25 U	0.25	469	252
1.9	ND<0.25 U	1.65	470	252
ND<0.5 U	ND<0.25 U	0.25	471	252
ND<0.5 U	ND<0.25 U	0.25	472	252
ND<0.25 U	ND<0.25 U	0	472	252
ND<0.25 U	ND<0.25 U	0	472	252
ND<0.25 U	ND<0.25 U	0	472	252
ND<0.25 U	ND<0.25 U	0	472	252
ND<0.25 U	ND<0.25 U	0	472	252
ND<0.25 U	ND<0.25 U	0	472	252
ND<0.5 U	ND<0.25 U	0.25	473	252
ND<0.5 U	ND<0.25 U	0.25	474	252
ND<0.5 U	ND<0.25 U	0.25	475	252
ND<0.5 U	ND<0.25 U	0.25	476	252
ND<0.5 U	ND<0.25 U	0.25	477	252
ND<0.5 U	ND<0.25 U	0.25	478	252
ND<0.5 U	ND<0.25 U	0.25	479	252
ND<0.5 U	ND<0.25 U	0.25	480	252
ND<0.5 U	ND<0.25 U	0.25	481	252
ND<0.5 U	ND<0.25 U	0.25	482	252
ND<0.5 U	ND<0.25 U	0.25	483	252
ND<0.5 U	ND<0.25 U	0.25	484	252
ND<0.5 U	ND<0.25 U	0.25	485	252
ND<0.5 U	ND<0.25 U	0.25	486	252
ND<0.5 U	ND<0.25 U	0.25	487	252
ND<0.5 U	ND<0.25 U	0.25	488	252
ND<0.5 U	ND<0.25 U	0.25	489	252
ND<0.5 U	ND<0.25 U	0.25	490	252
ND<0.5 U	ND<0.25 U	0.25	491	252
ND<0.5 U	ND<0.25 U	0.25	492	252
ND<0.5 U	ND<0.25 U	0.25	493	252
ND<0.5 U	ND<0.25 U	0.25	494	252
ND<0.5 U	ND<0.25 U	0.25	495	252
ND<0.5 U	ND<0.25 U	0.25	496	252
ND<0.5 U	ND<0.25 U	0.25	497	252
ND<0.5 U	ND<0.25 U	0.25	498	252
ND<0.5 U	ND<0.25 U	0.25	499	252
1.2	ND<0.25 U	0.95	500	252
ND<0.5 U	ND<0.25 U	0.25	501	252
1.9	ND<0.25 U	1.65	502	252
ND<0.5 U	ND<0.25 U	0.25	503	252
ND<0.5 U	ND<0.25 U	0.25	504	252
ND<0.25 U	ND<0.25 U	0	504	252
ND<0.25 U	ND<0.25 U	0	504	252
ND<0.25 U	ND<0.25 U	0	504	252
ND<0.25 U	ND<0.25 U	0	504	252
ND<0.25 U	ND<0.25 U	0	504	252
ND<0.5 U	ND<0.25 U	0.25	505	252
ND<0.5 U	ND<0.25 U	0.25	506	252
ND<0.5 U	ND<0.25 U	0.25	507	252
ND<0.5 U	ND<0.25 U	0.25	508	252
ND<0.5 U	ND<0.25 U	0.25	509	252
ND<0.5 U	ND<0.25 U	0.25	510	252

ND<0.5 U	ND<0.25 U	0.25	511	252
ND<0.5 U	ND<0.25 U	0.25	512	252
ND<0.5 U	ND<0.25 U	0.25	513	252
ND<0.5 U	ND<0.25 U	0.25	514	252
ND<0.5 U	ND<0.25 U	0.25	515	252
ND<0.5 U	ND<0.25 U	0.25	516	252
ND<0.5 U	ND<0.25 U	0.25	517	252
ND<0.5 U	ND<0.25 U	0.25	518	252
ND<0.5 U	ND<0.25 U	0.25	519	252
ND<0.5 U	ND<0.25 U	0.25	520	252
ND<0.5 U	ND<0.25 U	0.25	521	252
ND<0.5 U	ND<0.25 U	0.25	522	252
ND<0.5 U	ND<0.25 U	0.25	523	252
ND<0.5 U	ND<0.25 U	0.25	524	252
ND<0.5 U	ND<0.25 U	0.25	525	252
ND<0.5 U	ND<0.25 U	0.25	526	252
ND<0.5 U	ND<0.25 U	0.25	527	252
ND<0.5 U	ND<0.25 U	0.25	528	252
ND<0.5 U	ND<0.25 U	0.25	529	252
ND<0.5 U	ND<0.25 U	0.25	530	252
ND<0.5 U	ND<0.25 U	0.25	531	252
1.2	ND<0.25 U	0.95	532	252
ND<0.5 U	ND<0.25 U	0.25	533	252
1.9	ND<0.25 U	1.65	534	252
ND<0.5 U	ND<0.25 U	0.25	535	252
ND<0.5 U	ND<0.25 U	0.25	536	252

ND<0.25 U	ND<0.25 U	0	536	252
ND<0.25 U	ND<0.25 U	0	536	252
ND<0.25 U	ND<0.25 U	0	536	252
ND<0.25 U	ND<0.25 U	0	536	252
ND<0.5 U	ND<0.25 U	0.25	537	252
ND<0.5 U	ND<0.25 U	0.25	538	252
ND<0.5 U	ND<0.25 U	0.25	539	252
ND<0.5 U	ND<0.25 U	0.25	540	252
ND<0.5 U	ND<0.25 U	0.25	541	252
ND<0.5 U	ND<0.25 U	0.25	542	252
ND<0.5 U	ND<0.25 U	0.25	543	252
ND<0.5 U	ND<0.25 U	0.25	544	252
ND<0.5 U	ND<0.25 U	0.25	545	252
ND<0.5 U	ND<0.25 U	0.25	546	252
ND<0.5 U	ND<0.25 U	0.25	547	252
ND<0.5 U	ND<0.25 U	0.25	548	252
ND<0.5 U	ND<0.25 U	0.25	549	252
ND<0.5 U	ND<0.25 U	0.25	550	252
ND<0.5 U	ND<0.25 U	0.25	551	252
ND<0.5 U	ND<0.25 U	0.25	552	252
ND<0.5 U	ND<0.25 U	0.25	553	252
ND<0.5 U	ND<0.25 U	0.25	554	252
ND<0.5 U	ND<0.25 U	0.25	555	252
ND<0.5 U	ND<0.25 U	0.25	556	252
ND<0.5 U	ND<0.25 U	0.25	557	252
ND<0.5 U	ND<0.25 U	0.25	558	252
ND<0.5 U	ND<0.25 U	0.25	559	252
ND<0.5 U	ND<0.25 U	0.25	560	252
ND<0.5 U	ND<0.25 U	0.25	561	252
ND<0.5 U	ND<0.25 U	0.25	562	252

ND<0.5 U	ND<0.25 U	0.25	563	252
1.2	ND<0.25 U	0.95	564	252
ND<0.5 U	ND<0.25 U	0.25	565	252
1.9	ND<0.25 U	1.65	566	252
ND<0.5 U	ND<0.25 U	0.25	567	252
ND<0.5 U	ND<0.25 U	0.25	568	252
ND<0.25 U	ND<0.25 U	0	568	252
ND<0.25 U	ND<0.25 U	0	568	252
ND<0.25 U	ND<0.25 U	0	568	252
ND<0.5 U	ND<0.25 U	0.25	569	252
ND<0.5 U	ND<0.25 U	0.25	570	252
ND<0.5 U	ND<0.25 U	0.25	571	252
ND<0.5 U	ND<0.25 U	0.25	572	252
ND<0.5 U	ND<0.25 U	0.25	573	252
ND<0.5 U	ND<0.25 U	0.25	574	252
ND<0.5 U	ND<0.25 U	0.25	575	252
ND<0.5 U	ND<0.25 U	0.25	576	252
ND<0.5 U	ND<0.25 U	0.25	577	252
ND<0.5 U	ND<0.25 U	0.25	578	252
ND<0.5 U	ND<0.25 U	0.25	579	252
ND<0.5 U	ND<0.25 U	0.25	580	252
ND<0.5 U	ND<0.25 U	0.25	581	252
ND<0.5 U	ND<0.25 U	0.25	582	252
ND<0.5 U	ND<0.25 U	0.25	583	252
ND<0.5 U	ND<0.25 U	0.25	584	252
ND<0.5 U	ND<0.25 U	0.25	585	252
ND<0.5 U	ND<0.25 U	0.25	586	252
ND<0.5 U	ND<0.25 U	0.25	587	252
ND<0.5 U	ND<0.25 U	0.25	588	252
ND<0.5 U	ND<0.25 U	0.25	589	252
ND<0.5 U	ND<0.25 U	0.25	590	252
ND<0.5 U	ND<0.25 U	0.25	591	252
ND<0.5 U	ND<0.25 U	0.25	592	252
ND<0.5 U	ND<0.25 U	0.25	593	252
ND<0.5 U	ND<0.25 U	0.25	594	252
ND<0.5 U	ND<0.25 U	0.25	595	252
1.2	ND<0.25 U	0.95	596	252
ND<0.5 U	ND<0.25 U	0.25	597	252
1.9	ND<0.25 U	1.65	598	252
ND<0.5 U	ND<0.25 U	0.25	599	252
ND<0.5 U	ND<0.25 U	0.25	600	252
ND<0.25 U	ND<0.25 U	0	600	252
ND<0.25 U	ND<0.25 U	0	600	252
ND<0.5 U	ND<0.25 U	0.25	601	252
ND<0.5 U	ND<0.25 U	0.25	602	252
ND<0.5 U	ND<0.25 U	0.25	603	252
ND<0.5 U	ND<0.25 U	0.25	604	252
ND<0.5 U	ND<0.25 U	0.25	605	252
ND<0.5 U	ND<0.25 U	0.25	606	252
ND<0.5 U	ND<0.25 U	0.25	607	252
ND<0.5 U	ND<0.25 U	0.25	608	252
ND<0.5 U	ND<0.25 U	0.25	609	252
ND<0.5 U	ND<0.25 U	0.25	610	252
ND<0.5 U	ND<0.25 U	0.25	611	252
ND<0.5 U	ND<0.25 U	0.25	612	252

ND<0.5 U	ND<0.25 U	0.25	613	252
ND<0.5 U	ND<0.25 U	0.25	614	252
ND<0.5 U	ND<0.25 U	0.25	615	252
ND<0.5 U	ND<0.25 U	0.25	616	252
ND<0.5 U	ND<0.25 U	0.25	617	252
ND<0.5 U	ND<0.25 U	0.25	618	252
ND<0.5 U	ND<0.25 U	0.25	619	252
ND<0.5 U	ND<0.25 U	0.25	620	252
ND<0.5 U	ND<0.25 U	0.25	621	252
ND<0.5 U	ND<0.25 U	0.25	622	252
ND<0.5 U	ND<0.25 U	0.25	623	252
ND<0.5 U	ND<0.25 U	0.25	624	252
ND<0.5 U	ND<0.25 U	0.25	625	252
ND<0.5 U	ND<0.25 U	0.25	626	252
ND<0.5 U	ND<0.25 U	0.25	627	252
1.2	ND<0.25 U	0.95	628	252
ND<0.5 U	ND<0.25 U	0.25	629	252
1.9	ND<0.25 U	1.65	630	252
ND<0.5 U	ND<0.25 U	0.25	631	252
ND<0.5 U	ND<0.25 U	0.25	632	252

ND<0.25 U	ND<0.25 U	0	632	252
ND<0.5 U	ND<0.25 U	0.25	633	252
ND<0.5 U	ND<0.25 U	0.25	634	252
ND<0.5 U	ND<0.25 U	0.25	635	252
ND<0.5 U	ND<0.25 U	0.25	636	252
ND<0.5 U	ND<0.25 U	0.25	637	252
ND<0.5 U	ND<0.25 U	0.25	638	252
ND<0.5 U	ND<0.25 U	0.25	639	252
ND<0.5 U	ND<0.25 U	0.25	640	252
ND<0.5 U	ND<0.25 U	0.25	641	252
ND<0.5 U	ND<0.25 U	0.25	642	252
ND<0.5 U	ND<0.25 U	0.25	643	252
ND<0.5 U	ND<0.25 U	0.25	644	252
ND<0.5 U	ND<0.25 U	0.25	645	252
ND<0.5 U	ND<0.25 U	0.25	646	252
ND<0.5 U	ND<0.25 U	0.25	647	252
ND<0.5 U	ND<0.25 U	0.25	648	252
ND<0.5 U	ND<0.25 U	0.25	649	252
ND<0.5 U	ND<0.25 U	0.25	650	252
ND<0.5 U	ND<0.25 U	0.25	651	252
ND<0.5 U	ND<0.25 U	0.25	652	252
ND<0.5 U	ND<0.25 U	0.25	653	252
ND<0.5 U	ND<0.25 U	0.25	654	252
ND<0.5 U	ND<0.25 U	0.25	655	252
ND<0.5 U	ND<0.25 U	0.25	656	252
ND<0.5 U	ND<0.25 U	0.25	657	252
ND<0.5 U	ND<0.25 U	0.25	658	252
ND<0.5 U	ND<0.25 U	0.25	659	252
1.2	ND<0.25 U	0.95	660	252
ND<0.5 U	ND<0.25 U	0.25	661	252
1.9	ND<0.25 U	1.65	662	252
ND<0.5 U	ND<0.25 U	0.25	663	252
ND<0.5 U	ND<0.25 U	0.25	664	252

ND<0.5 U	ND<0.25 U	0.25	665	252
ND<0.5 U	ND<0.25 U	0.25	666	252

ND<0.5 U	ND<0.25 U	0.25	667	252
ND<0.5 U	ND<0.25 U	0.25	668	252
ND<0.5 U	ND<0.25 U	0.25	669	252
ND<0.5 U	ND<0.25 U	0.25	670	252
ND<0.5 U	ND<0.25 U	0.25	671	252
ND<0.5 U	ND<0.25 U	0.25	672	252
ND<0.5 U	ND<0.25 U	0.25	673	252
ND<0.5 U	ND<0.25 U	0.25	674	252
ND<0.5 U	ND<0.25 U	0.25	675	252
ND<0.5 U	ND<0.25 U	0.25	676	252
ND<0.5 U	ND<0.25 U	0.25	677	252
ND<0.5 U	ND<0.25 U	0.25	678	252
ND<0.5 U	ND<0.25 U	0.25	679	252
ND<0.5 U	ND<0.25 U	0.25	680	252
ND<0.5 U	ND<0.25 U	0.25	681	252
ND<0.5 U	ND<0.25 U	0.25	682	252
ND<0.5 U	ND<0.25 U	0.25	683	252
ND<0.5 U	ND<0.25 U	0.25	684	252
ND<0.5 U	ND<0.25 U	0.25	685	252
ND<0.5 U	ND<0.25 U	0.25	686	252
ND<0.5 U	ND<0.25 U	0.25	687	252
ND<0.5 U	ND<0.25 U	0.25	688	252
ND<0.5 U	ND<0.25 U	0.25	689	252
ND<0.5 U	ND<0.25 U	0.25	690	252
ND<0.5 U	ND<0.25 U	0.25	691	252
1.2	ND<0.25 U	0.95	692	252
ND<0.5 U	ND<0.25 U	0.25	693	252
1.9	ND<0.25 U	1.65	694	252
ND<0.5 U	ND<0.25 U	0.25	695	252
ND<0.5 U	ND<0.25 U	0.25	696	252

ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252
ND<0.5 U	ND<0.5 U	0	696	252

1.2	ND<0.5 U	0.7	697	252
ND<0.5 U	ND<0.5 U	0	697	252
1.9	ND<0.5 U	1.4	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
ND<0.5 U	ND<0.5 U	0	698	252
1.2	ND<0.5 U	0.7	699	252
ND<0.5 U	ND<0.5 U	0	699	252
1.9	ND<0.5 U	1.4	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252

ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
ND<0.5 U	ND<0.5 U	0	700	252
1.2	ND<0.5 U	0.7	701	252
ND<0.5 U	ND<0.5 U	0	701	252
1.9	ND<0.5 U	1.4	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
ND<0.5 U	ND<0.5 U	0	702	252
1.2	ND<0.5 U	0.7	703	252
ND<0.5 U	ND<0.5 U	0	703	252
1.9	ND<0.5 U	1.4	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252

ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
ND<0.5 U	ND<0.5 U	0	704	252
1.2	ND<0.5 U	0.7	705	252
ND<0.5 U	ND<0.5 U	0	705	252
1.9	ND<0.5 U	1.4	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
ND<0.5 U	ND<0.5 U	0	706	252
1.2	ND<0.5 U	0.7	707	252
ND<0.5 U	ND<0.5 U	0	707	252
1.9	ND<0.5 U	1.4	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252
ND<0.5 U	ND<0.5 U	0	708	252

1.2	ND<0.5 U	0.7	709	252
ND<0.5 U	ND<0.5 U	0	709	252
1.9	ND<0.5 U	1.4	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
ND<0.5 U	ND<0.5 U	0	710	252
1.2	ND<0.5 U	0.7	711	252
ND<0.5 U	ND<0.5 U	0	711	252
1.9	ND<0.5 U	1.4	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
ND<0.5 U	ND<0.5 U	0	712	252
1.2	ND<0.5 U	0.7	713	252
ND<0.5 U	ND<0.5 U	0	713	252
1.9	ND<0.5 U	1.4	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252

ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
ND<0.5 U	ND<0.5 U	0	714	252
1.2	ND<0.5 U	0.7	715	252
ND<0.5 U	ND<0.5 U	0	715	252
1.9	ND<0.5 U	1.4	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
ND<0.5 U	ND<0.5 U	0	716	252
1.2	ND<0.5 U	0.7	717	252
ND<0.5 U	ND<0.5 U	0	717	252
1.9	ND<0.5 U	1.4	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252
ND<0.5 U	ND<0.5 U	0	718	252

ND<0.5 U	ND<0.5 U	0	718	252
1.2	ND<0.5 U	0.7	719	252
ND<0.5 U	ND<0.5 U	0	719	252
1.9	ND<0.5 U	1.4	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
ND<0.5 U	ND<0.5 U	0	720	252
1.2	ND<0.5 U	0.7	721	252
ND<0.5 U	ND<0.5 U	0	721	252
1.9	ND<0.5 U	1.4	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
ND<0.5 U	ND<0.5 U	0	722	252
1.2	ND<0.5 U	0.7	723	252
ND<0.5 U	ND<0.5 U	0	723	252
1.9	ND<0.5 U	1.4	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252
ND<0.5 U	ND<0.5 U	0	724	252

ND<0.5 U	ND<0.5 U	0	724	252
1.2	ND<0.5 U	0.7	725	252
ND<0.5 U	ND<0.5 U	0	725	252
1.9	ND<0.5 U	1.4	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
ND<0.5 U	ND<0.5 U	0	726	252
1.2	ND<0.5 U	0.7	727	252
ND<0.5 U	ND<0.5 U	0	727	252
1.9	ND<0.5 U	1.4	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
ND<0.5 U	ND<0.5 U	0	728	252
1.2	ND<0.5 U	0.7	729	252
ND<0.5 U	ND<0.5 U	0	729	252
1.9	ND<0.5 U	1.4	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
ND<0.5 U	ND<0.5 U	0	730	252
1.2	ND<0.5 U	0.7	731	252
ND<0.5 U	ND<0.5 U	0	731	252
1.9	ND<0.5 U	1.4	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252

ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
ND<0.5 U	ND<0.5 U	0	732	252
1.2	ND<0.5 U	0.7	733	252
ND<0.5 U	ND<0.5 U	0	733	252
1.9	ND<0.5 U	1.4	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
ND<0.5 U	ND<0.5 U	0	734	252
1.2	ND<0.5 U	0.7	735	252
ND<0.5 U	ND<0.5 U	0	735	252
1.9	ND<0.5 U	1.4	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
ND<0.5 U	ND<0.5 U	0	736	252
1.2	ND<0.5 U	0.7	737	252
ND<0.5 U	ND<0.5 U	0	737	252
1.9	ND<0.5 U	1.4	738	252
ND<0.5 U	ND<0.5 U	0	738	252
ND<0.5 U	ND<0.5 U	0	738	252
ND<0.5 U	ND<0.5 U	0	738	252
ND<0.5 U	ND<0.5 U	0	738	252
ND<0.5 U	ND<0.5 U	0	738	252
ND<0.5 U	ND<0.5 U	0	738	252
ND<0.5 U	ND<0.5 U	0	738	252
1.2	ND<0.5 U	0.7	739	252
ND<0.5 U	ND<0.5 U	0	739	252
1.9	ND<0.5 U	1.4	740	252
ND<0.5 U	ND<0.5 U	0	740	252
ND<0.5 U	ND<0.5 U	0	740	252
ND<0.5 U	ND<0.5 U	0	740	252
ND<0.5 U	ND<0.5 U	0	740	252
ND<0.5 U	ND<0.5 U	0	740	252
ND<0.5 U	ND<0.5 U	0	740	252
1.2	ND<0.5 U	0.7	741	252
ND<0.5 U	ND<0.5 U	0	741	252
1.9	ND<0.5 U	1.4	742	252
ND<0.5 U	ND<0.5 U	0	742	252
ND<0.5 U	ND<0.5 U	0	742	252

ND<0.5 U	ND<0.5 U	0	742	252
ND<0.5 U	ND<0.5 U	0	742	252
ND<0.5 U	ND<0.5 U	0	742	252
1.2	ND<0.5 U	0.7	743	252
ND<0.5 U	ND<0.5 U	0	743	252
1.9	ND<0.5 U	1.4	744	252
ND<0.5 U	ND<0.5 U	0	744	252
ND<0.5 U	ND<0.5 U	0	744	252
ND<0.5 U	ND<0.5 U	0	744	252
ND<0.5 U	ND<0.5 U	0	744	252
1.2	ND<0.5 U	0.7	745	252
ND<0.5 U	ND<0.5 U	0	745	252
1.9	ND<0.5 U	1.4	746	252
ND<0.5 U	ND<0.5 U	0	746	252
ND<0.5 U	ND<0.5 U	0	746	252
ND<0.5 U	ND<0.5 U	0	746	252
1.2	ND<0.5 U	0.7	747	252
ND<0.5 U	ND<0.5 U	0	747	252
1.9	ND<0.5 U	1.4	748	252
ND<0.5 U	ND<0.5 U	0	748	252
ND<0.5 U	ND<0.5 U	0	748	252
1.2	ND<0.5 U	0.7	749	252
ND<0.5 U	ND<0.5 U	0	749	252
1.9	ND<0.5 U	1.4	750	252
ND<0.5 U	ND<0.5 U	0	750	252
ND<0.5 U	ND<0.5 U	0	750	252
ND<0.5 U	1.2	-0.7	750	253
1.9	1.2	0.7	751	253
ND<0.5 U	1.2	-0.7	751	254
ND<0.5 U	1.2	-0.7	751	255
1.9	ND<0.5 U	1.4	752	255
ND<0.5 U	ND<0.5 U	0	752	255
ND<0.5 U	ND<0.5 U	0	752	255
ND<0.5 U	1.9	-1.4	752	256
ND<0.5 U	1.9	-1.4	752	257
ND<0.5 U	ND<0.5 U	0	752	257

S Statistic = 752 - 257 = 495

Tied Group	**Value**	**Members**
1	0.5	42
2	0.25	21

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1

4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1

```
10/29/2018                          1
1/30/2019                           1
4/29/2019                           1
7/29/2019                           1
There are 0 time periods with multiple data

A = 172998
B = 0
C = 76860
D = 0
E = 2142
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 21589
Z-Score = 3.3621
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|3.3621| > 2.32634 indicating a trend
```

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
1	ND<0.5 U	0.5	1	1
2	ND<0.5 U	1.5	2	1
3.5	ND<0.5 U	3	3	1
ND<0.25 U	ND<0.5 U	-0.25	3	2
ND<0.25 U	ND<0.5 U	-0.25	3	3
ND<0.25 U	ND<0.5 U	-0.25	3	4
ND<0.25 U	ND<0.5 U	-0.25	3	5
ND<0.25 U	ND<0.5 U	-0.25	3	6
ND<0.25 U	ND<0.5 U	-0.25	3	7
ND<0.25 U	ND<0.5 U	-0.25	3	8
ND<0.25 U	ND<0.5 U	-0.25	3	9
ND<0.25 U	ND<0.5 U	-0.25	3	10
ND<0.25 U	ND<0.5 U	-0.25	3	11
1.2	ND<0.5 U	0.7	4	11
ND<0.25 U	ND<0.5 U	-0.25	4	12
ND<0.25 U	ND<0.5 U	-0.25	4	13
ND<0.25 U	ND<0.5 U	-0.25	4	14
ND<0.25 U	ND<0.5 U	-0.25	4	15
ND<0.25 U	ND<0.5 U	-0.25	4	16
ND<0.25 U	ND<0.5 U	-0.25	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17

ND<0.5 U	ND<0.5 U	0	4	17
ND<0.5 U	ND<0.5 U	0	4	17
3.9	ND<0.5 U	3.4	5	17
ND<0.5 U	ND<0.5 U	0	5	17
ND<0.5 U	ND<0.5 U	0	5	17
ND<0.5 U	ND<0.5 U	0	5	17
1.8	ND<0.5 U	1.3	6	17
ND<0.5 U	ND<0.5 U	0	6	17
ND<0.5 U	ND<0.5 U	0	6	17
1.9	ND<0.5 U	1.4	7	17
ND<0.5 U	ND<0.5 U	0	7	17
ND<0.5 U	ND<0.5 U	0	7	17
15	ND<0.5 U	14.5	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.5 U	ND<0.5 U	0	8	17
ND<0.25 U	ND<0.5 U	-0.25	8	18
1	ND<0.5 U	0.5	9	18
2	ND<0.5 U	1.5	10	18
3.5	ND<0.5 U	3	11	18
ND<0.25 U	ND<0.5 U	-0.25	11	19
ND<0.25 U	ND<0.5 U	-0.25	11	20
ND<0.25 U	ND<0.5 U	-0.25	11	21
ND<0.25 U	ND<0.5 U	-0.25	11	22
ND<0.25 U	ND<0.5 U	-0.25	11	23
ND<0.25 U	ND<0.5 U	-0.25	11	24
ND<0.25 U	ND<0.5 U	-0.25	11	25
ND<0.25 U	ND<0.5 U	-0.25	11	26
ND<0.25 U	ND<0.5 U	-0.25	11	27
ND<0.25 U	ND<0.5 U	-0.25	11	28
1.2	ND<0.5 U	0.7	12	28
ND<0.25 U	ND<0.5 U	-0.25	12	29
ND<0.25 U	ND<0.5 U	-0.25	12	30
ND<0.25 U	ND<0.5 U	-0.25	12	31
ND<0.25 U	ND<0.5 U	-0.25	12	32
ND<0.25 U	ND<0.5 U	-0.25	12	33
ND<0.25 U	ND<0.5 U	-0.25	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34

ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
ND<0.5 U	ND<0.5 U	0	12	34
3.9	ND<0.5 U	3.4	13	34
ND<0.5 U	ND<0.5 U	0	13	34
ND<0.5 U	ND<0.5 U	0	13	34
ND<0.5 U	ND<0.5 U	0	13	34
1.8	ND<0.5 U	1.3	14	34
ND<0.5 U	ND<0.5 U	0	14	34
ND<0.5 U	ND<0.5 U	0	14	34
1.9	ND<0.5 U	1.4	15	34
ND<0.5 U	ND<0.5 U	0	15	34
ND<0.5 U	ND<0.5 U	0	15	34
15	ND<0.5 U	14.5	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.5 U	ND<0.5 U	0	16	34
ND<0.25 U	ND<0.5 U	-0.25	16	35
1	ND<0.5 U	0.5	17	35
2	ND<0.5 U	1.5	18	35
3.5	ND<0.5 U	3	19	35
ND<0.25 U	ND<0.5 U	-0.25	19	36
ND<0.25 U	ND<0.5 U	-0.25	19	37
ND<0.25 U	ND<0.5 U	-0.25	19	38
ND<0.25 U	ND<0.5 U	-0.25	19	39
ND<0.25 U	ND<0.5 U	-0.25	19	40
ND<0.25 U	ND<0.5 U	-0.25	19	41
ND<0.25 U	ND<0.5 U	-0.25	19	42
ND<0.25 U	ND<0.5 U	-0.25	19	43
ND<0.25 U	ND<0.5 U	-0.25	19	44
ND<0.25 U	ND<0.5 U	-0.25	19	45
1.2	ND<0.5 U	0.7	20	45
ND<0.25 U	ND<0.5 U	-0.25	20	46
ND<0.25 U	ND<0.5 U	-0.25	20	47
ND<0.25 U	ND<0.5 U	-0.25	20	48
ND<0.25 U	ND<0.5 U	-0.25	20	49
ND<0.25 U	ND<0.5 U	-0.25	20	50
ND<0.25 U	ND<0.5 U	-0.25	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51

ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
ND<0.5 U	ND<0.5 U	0	20	51
3.9	ND<0.5 U	3.4	21	51
ND<0.5 U	ND<0.5 U	0	21	51
ND<0.5 U	ND<0.5 U	0	21	51
ND<0.5 U	ND<0.5 U	0	21	51
1.8	ND<0.5 U	1.3	22	51
ND<0.5 U	ND<0.5 U	0	22	51
ND<0.5 U	ND<0.5 U	0	22	51
1.9	ND<0.5 U	1.4	23	51
ND<0.5 U	ND<0.5 U	0	23	51
ND<0.5 U	ND<0.5 U	0	23	51
15	ND<0.5 U	14.5	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.5 U	ND<0.5 U	0	24	51
ND<0.25 U	ND<0.5 U	-0.25	24	52
1	ND<0.5 U	0.5	25	52
2	ND<0.5 U	1.5	26	52
3.5	ND<0.5 U	3	27	52
ND<0.25 U	ND<0.5 U	-0.25	27	53
ND<0.25 U	ND<0.5 U	-0.25	27	54
ND<0.25 U	ND<0.5 U	-0.25	27	55
ND<0.25 U	ND<0.5 U	-0.25	27	56
ND<0.25 U	ND<0.5 U	-0.25	27	57
ND<0.25 U	ND<0.5 U	-0.25	27	58
ND<0.25 U	ND<0.5 U	-0.25	27	59
ND<0.25 U	ND<0.5 U	-0.25	27	60
ND<0.25 U	ND<0.5 U	-0.25	27	61
ND<0.25 U	ND<0.5 U	-0.25	27	62
1.2	ND<0.5 U	0.7	28	62
ND<0.25 U	ND<0.5 U	-0.25	28	63
ND<0.25 U	ND<0.5 U	-0.25	28	64
ND<0.25 U	ND<0.5 U	-0.25	28	65

ND<0.25 U	ND<0.5 U	-0.25	28	66
ND<0.25 U	ND<0.5 U	-0.25	28	67
ND<0.25 U	ND<0.5 U	-0.25	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
ND<0.5 U	ND<0.5 U	0	28	68
3.9	ND<0.5 U	3.4	29	68
ND<0.5 U	ND<0.5 U	0	29	68
ND<0.5 U	ND<0.5 U	0	29	68
ND<0.5 U	ND<0.5 U	0	29	68
1.8	ND<0.5 U	1.3	30	68
ND<0.5 U	ND<0.5 U	0	30	68
ND<0.5 U	ND<0.5 U	0	30	68
1.9	ND<0.5 U	1.4	31	68
ND<0.5 U	ND<0.5 U	0	31	68
ND<0.5 U	ND<0.5 U	0	31	68
15	ND<0.5 U	14.5	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.5 U	ND<0.5 U	0	32	68
ND<0.25 U	ND<0.5 U	-0.25	32	69
1	ND<0.5 U	0.5	33	69
2	ND<0.5 U	1.5	34	69
3.5	ND<0.5 U	3	35	69
ND<0.25 U	ND<0.5 U	-0.25	35	70
ND<0.25 U	ND<0.5 U	-0.25	35	71
ND<0.25 U	ND<0.5 U	-0.25	35	72
ND<0.25 U	ND<0.5 U	-0.25	35	73
ND<0.25 U	ND<0.5 U	-0.25	35	74
ND<0.25 U	ND<0.5 U	-0.25	35	75
ND<0.25 U	ND<0.5 U	-0.25	35	76
ND<0.25 U	ND<0.5 U	-0.25	35	77
ND<0.25 U	ND<0.5 U	-0.25	35	78
ND<0.25 U	ND<0.5 U	-0.25	35	79

1.2	ND<0.5 U	0.7	36	79
ND<0.25 U	ND<0.5 U	-0.25	36	80
ND<0.25 U	ND<0.5 U	-0.25	36	81
ND<0.25 U	ND<0.5 U	-0.25	36	82
ND<0.25 U	ND<0.5 U	-0.25	36	83
ND<0.25 U	ND<0.5 U	-0.25	36	84
ND<0.25 U	ND<0.5 U	-0.25	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
ND<0.5 U	ND<0.5 U	0	36	85
3.9	ND<0.5 U	3.4	37	85
ND<0.5 U	ND<0.5 U	0	37	85
ND<0.5 U	ND<0.5 U	0	37	85
ND<0.5 U	ND<0.5 U	0	37	85
1.8	ND<0.5 U	1.3	38	85
ND<0.5 U	ND<0.5 U	0	38	85
ND<0.5 U	ND<0.5 U	0	38	85
1.9	ND<0.5 U	1.4	39	85
ND<0.5 U	ND<0.5 U	0	39	85
ND<0.5 U	ND<0.5 U	0	39	85
15	ND<0.5 U	14.5	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.5 U	ND<0.5 U	0	40	85
ND<0.25 U	ND<0.5 U	-0.25	40	86
1	ND<0.5 U	0.5	41	86
2	ND<0.5 U	1.5	42	86
3.5	ND<0.5 U	3	43	86
ND<0.25 U	ND<0.5 U	-0.25	43	87
ND<0.25 U	ND<0.5 U	-0.25	43	88
ND<0.25 U	ND<0.5 U	-0.25	43	89
ND<0.25 U	ND<0.5 U	-0.25	43	90
ND<0.25 U	ND<0.5 U	-0.25	43	91
ND<0.25 U	ND<0.5 U	-0.25	43	92
ND<0.25 U	ND<0.5 U	-0.25	43	93

ND<0.25 U	ND<0.5 U	-0.25	43	94
ND<0.25 U	ND<0.5 U	-0.25	43	95
ND<0.25 U	ND<0.5 U	-0.25	43	96
1.2	ND<0.5 U	0.7	44	96
ND<0.25 U	ND<0.5 U	-0.25	44	97
ND<0.25 U	ND<0.5 U	-0.25	44	98
ND<0.25 U	ND<0.5 U	-0.25	44	99
ND<0.25 U	ND<0.5 U	-0.25	44	100
ND<0.25 U	ND<0.5 U	-0.25	44	101
ND<0.25 U	ND<0.5 U	-0.25	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
ND<0.5 U	ND<0.5 U	0	44	102
3.9	ND<0.5 U	3.4	45	102
ND<0.5 U	ND<0.5 U	0	45	102
ND<0.5 U	ND<0.5 U	0	45	102
ND<0.5 U	ND<0.5 U	0	45	102
1.8	ND<0.5 U	1.3	46	102
ND<0.5 U	ND<0.5 U	0	46	102
ND<0.5 U	ND<0.5 U	0	46	102
1.9	ND<0.5 U	1.4	47	102
ND<0.5 U	ND<0.5 U	0	47	102
ND<0.5 U	ND<0.5 U	0	47	102
15	ND<0.5 U	14.5	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.5 U	ND<0.5 U	0	48	102
ND<0.25 U	ND<0.5 U	-0.25	48	103
1	ND<0.5 U	0.5	49	103
2	ND<0.5 U	1.5	50	103
3.5	ND<0.5 U	3	51	103
ND<0.25 U	ND<0.5 U	-0.25	51	104
ND<0.25 U	ND<0.5 U	-0.25	51	105
ND<0.25 U	ND<0.5 U	-0.25	51	106
ND<0.25 U	ND<0.5 U	-0.25	51	107
ND<0.25 U	ND<0.5 U	-0.25	51	108

ND<0.25 U	ND<0.5 U	-0.25	51	109
ND<0.25 U	ND<0.5 U	-0.25	51	110
ND<0.25 U	ND<0.5 U	-0.25	51	111
ND<0.25 U	ND<0.5 U	-0.25	51	112
ND<0.25 U	ND<0.5 U	-0.25	51	113
1.2	ND<0.5 U	0.7	52	113
ND<0.25 U	ND<0.5 U	-0.25	52	114
ND<0.25 U	ND<0.5 U	-0.25	52	115
ND<0.25 U	ND<0.5 U	-0.25	52	116
ND<0.25 U	ND<0.5 U	-0.25	52	117
ND<0.25 U	ND<0.5 U	-0.25	52	118
ND<0.25 U	ND<0.5 U	-0.25	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
ND<0.5 U	ND<0.5 U	0	52	119
3.9	ND<0.5 U	3.4	53	119
ND<0.5 U	ND<0.5 U	0	53	119
ND<0.5 U	ND<0.5 U	0	53	119
ND<0.5 U	ND<0.5 U	0	53	119
1.8	ND<0.5 U	1.3	54	119
ND<0.5 U	ND<0.5 U	0	54	119
ND<0.5 U	ND<0.5 U	0	54	119
1.9	ND<0.5 U	1.4	55	119
ND<0.5 U	ND<0.5 U	0	55	119
ND<0.5 U	ND<0.5 U	0	55	119
15	ND<0.5 U	14.5	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.5 U	ND<0.5 U	0	56	119
ND<0.25 U	ND<0.5 U	-0.25	56	120
1	ND<0.5 U	0.5	57	120
2	ND<0.5 U	1.5	58	120
3.5	ND<0.5 U	3	59	120
ND<0.25 U	ND<0.5 U	-0.25	59	121
ND<0.25 U	ND<0.5 U	-0.25	59	122
ND<0.25 U	ND<0.5 U	-0.25	59	123
ND<0.25 U	ND<0.5 U	-0.25	59	124

ND<0.25 U	ND<0.5 U	-0.25	59	125
ND<0.25 U	ND<0.5 U	-0.25	59	126
ND<0.25 U	ND<0.5 U	-0.25	59	127
ND<0.25 U	ND<0.5 U	-0.25	59	128
ND<0.25 U	ND<0.5 U	-0.25	59	129
ND<0.25 U	ND<0.5 U	-0.25	59	130
1.2	ND<0.5 U	0.7	60	130
ND<0.25 U	ND<0.5 U	-0.25	60	131
ND<0.25 U	ND<0.5 U	-0.25	60	132
ND<0.25 U	ND<0.5 U	-0.25	60	133
ND<0.25 U	ND<0.5 U	-0.25	60	134
ND<0.25 U	ND<0.5 U	-0.25	60	135
ND<0.25 U	ND<0.5 U	-0.25	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
ND<0.5 U	ND<0.5 U	0	60	136
3.9	ND<0.5 U	3.4	61	136
ND<0.5 U	ND<0.5 U	0	61	136
ND<0.5 U	ND<0.5 U	0	61	136
ND<0.5 U	ND<0.5 U	0	61	136
1.8	ND<0.5 U	1.3	62	136
ND<0.5 U	ND<0.5 U	0	62	136
ND<0.5 U	ND<0.5 U	0	62	136
1.9	ND<0.5 U	1.4	63	136
ND<0.5 U	ND<0.5 U	0	63	136
ND<0.5 U	ND<0.5 U	0	63	136
15	ND<0.5 U	14.5	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.5 U	ND<0.5 U	0	64	136
ND<0.25 U	ND<0.5 U	-0.25	64	137
1	ND<0.5 U	0.5	65	137
2	ND<0.5 U	1.5	66	137
3.5	ND<0.5 U	3	67	137
ND<0.25 U	ND<0.5 U	-0.25	67	138
ND<0.25 U	ND<0.5 U	-0.25	67	139
ND<0.25 U	ND<0.5 U	-0.25	67	140
ND<0.25 U	ND<0.5 U	-0.25	67	141

ND<0.25 U	ND<0.5 U	-0.25	67	142
ND<0.25 U	ND<0.5 U	-0.25	67	143
ND<0.25 U	ND<0.5 U	-0.25	67	144
ND<0.25 U	ND<0.5 U	-0.25	67	145
ND<0.25 U	ND<0.5 U	-0.25	67	146
ND<0.25 U	ND<0.5 U	-0.25	67	147
1.2	ND<0.5 U	0.7	68	147
ND<0.25 U	ND<0.5 U	-0.25	68	148
ND<0.25 U	ND<0.5 U	-0.25	68	149
ND<0.25 U	ND<0.5 U	-0.25	68	150
ND<0.25 U	ND<0.5 U	-0.25	68	151
ND<0.25 U	ND<0.5 U	-0.25	68	152
ND<0.25 U	ND<0.5 U	-0.25	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
ND<0.5 U	ND<0.5 U	0	68	153
3.9	ND<0.5 U	3.4	69	153
ND<0.5 U	ND<0.5 U	0	69	153
ND<0.5 U	ND<0.5 U	0	69	153
ND<0.5 U	ND<0.5 U	0	69	153
1.8	ND<0.5 U	1.3	70	153
ND<0.5 U	ND<0.5 U	0	70	153
ND<0.5 U	ND<0.5 U	0	70	153
1.9	ND<0.5 U	1.4	71	153
ND<0.5 U	ND<0.5 U	0	71	153
ND<0.5 U	ND<0.5 U	0	71	153
15	ND<0.5 U	14.5	72	153
ND<0.5 U	ND<0.5 U	0	72	153
ND<0.5 U	ND<0.5 U	0	72	153
ND<0.5 U	ND<0.5 U	0	72	153
ND<0.5 U	ND<0.5 U	0	72	153
ND<0.5 U	ND<0.5 U	0	72	153
ND<0.5 U	ND<0.5 U	0	72	153
ND<0.25 U	ND<0.5 U	-0.25	72	154
1	ND<0.5 U	0.5	73	154
2	ND<0.5 U	1.5	74	154
3.5	ND<0.5 U	3	75	154
ND<0.25 U	ND<0.5 U	-0.25	75	155
ND<0.25 U	ND<0.5 U	-0.25	75	156
ND<0.25 U	ND<0.5 U	-0.25	75	157
ND<0.25 U	ND<0.5 U	-0.25	75	158
ND<0.25 U	ND<0.5 U	-0.25	75	159

ND<0.25 U	ND<0.5 U	-0.25	75	160
ND<0.25 U	ND<0.5 U	-0.25	75	161
ND<0.25 U	ND<0.5 U	-0.25	75	162
ND<0.25 U	ND<0.5 U	-0.25	75	163
ND<0.25 U	ND<0.5 U	-0.25	75	164
1.2	ND<0.5 U	0.7	76	164
ND<0.25 U	ND<0.5 U	-0.25	76	165
ND<0.25 U	ND<0.5 U	-0.25	76	166
ND<0.25 U	ND<0.5 U	-0.25	76	167
ND<0.25 U	ND<0.5 U	-0.25	76	168
ND<0.25 U	ND<0.5 U	-0.25	76	169
ND<0.25 U	ND<0.5 U	-0.25	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
ND<0.5 U	ND<0.5 U	0	76	170
3.9	ND<0.5 U	3.4	77	170
ND<0.5 U	ND<0.5 U	0	77	170
ND<0.5 U	ND<0.5 U	0	77	170
ND<0.5 U	ND<0.5 U	0	77	170
1.8	ND<0.5 U	1.3	78	170
ND<0.5 U	ND<0.5 U	0	78	170
ND<0.5 U	ND<0.5 U	0	78	170
1.9	ND<0.5 U	1.4	79	170
ND<0.5 U	ND<0.5 U	0	79	170
ND<0.5 U	ND<0.5 U	0	79	170
15	ND<0.5 U	14.5	80	170
ND<0.5 U	ND<0.5 U	0	80	170
ND<0.5 U	ND<0.5 U	0	80	170
ND<0.5 U	ND<0.5 U	0	80	170
ND<0.5 U	ND<0.5 U	0	80	170
ND<0.5 U	ND<0.5 U	0	80	170
ND<0.25 U	ND<0.5 U	-0.25	80	171
1	ND<0.5 U	0.5	81	171
2	ND<0.5 U	1.5	82	171
3.5	ND<0.5 U	3	83	171
ND<0.25 U	ND<0.5 U	-0.25	83	172
ND<0.25 U	ND<0.5 U	-0.25	83	173
ND<0.25 U	ND<0.5 U	-0.25	83	174
ND<0.25 U	ND<0.5 U	-0.25	83	175
ND<0.25 U	ND<0.5 U	-0.25	83	176
ND<0.25 U	ND<0.5 U	-0.25	83	177
ND<0.25 U	ND<0.5 U	-0.25	83	178

ND<0.25 U	ND<0.5 U	-0.25	83	179
ND<0.25 U	ND<0.5 U	-0.25	83	180
ND<0.25 U	ND<0.5 U	-0.25	83	181
1.2	ND<0.5 U	0.7	84	181
ND<0.25 U	ND<0.5 U	-0.25	84	182
ND<0.25 U	ND<0.5 U	-0.25	84	183
ND<0.25 U	ND<0.5 U	-0.25	84	184
ND<0.25 U	ND<0.5 U	-0.25	84	185
ND<0.25 U	ND<0.5 U	-0.25	84	186
ND<0.25 U	ND<0.5 U	-0.25	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
ND<0.5 U	ND<0.5 U	0	84	187
3.9	ND<0.5 U	3.4	85	187
ND<0.5 U	ND<0.5 U	0	85	187
ND<0.5 U	ND<0.5 U	0	85	187
ND<0.5 U	ND<0.5 U	0	85	187
1.8	ND<0.5 U	1.3	86	187
ND<0.5 U	ND<0.5 U	0	86	187
ND<0.5 U	ND<0.5 U	0	86	187
1.9	ND<0.5 U	1.4	87	187
ND<0.5 U	ND<0.5 U	0	87	187
ND<0.5 U	ND<0.5 U	0	87	187
15	ND<0.5 U	14.5	88	187
ND<0.5 U	ND<0.5 U	0	88	187
ND<0.5 U	ND<0.5 U	0	88	187
ND<0.5 U	ND<0.5 U	0	88	187
ND<0.5 U	ND<0.5 U	0	88	187
ND<0.25 U	ND<0.5 U	-0.25	88	188
1	ND<0.5 U	0.5	89	188
2	ND<0.5 U	1.5	90	188
3.5	ND<0.5 U	3	91	188
ND<0.25 U	ND<0.5 U	-0.25	91	189
ND<0.25 U	ND<0.5 U	-0.25	91	190
ND<0.25 U	ND<0.5 U	-0.25	91	191
ND<0.25 U	ND<0.5 U	-0.25	91	192
ND<0.25 U	ND<0.5 U	-0.25	91	193
ND<0.25 U	ND<0.5 U	-0.25	91	194
ND<0.25 U	ND<0.5 U	-0.25	91	195
ND<0.25 U	ND<0.5 U	-0.25	91	196
ND<0.25 U	ND<0.5 U	-0.25	91	197
ND<0.25 U	ND<0.5 U	-0.25	91	198

1.2	ND<0.5 U	0.7	92	198
ND<0.25 U	ND<0.5 U	-0.25	92	199
ND<0.25 U	ND<0.5 U	-0.25	92	200
ND<0.25 U	ND<0.5 U	-0.25	92	201
ND<0.25 U	ND<0.5 U	-0.25	92	202
ND<0.25 U	ND<0.5 U	-0.25	92	203
ND<0.25 U	ND<0.5 U	-0.25	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
ND<0.5 U	ND<0.5 U	0	92	204
3.9	ND<0.5 U	3.4	93	204
ND<0.5 U	ND<0.5 U	0	93	204
ND<0.5 U	ND<0.5 U	0	93	204
ND<0.5 U	ND<0.5 U	0	93	204
1.8	ND<0.5 U	1.3	94	204
ND<0.5 U	ND<0.5 U	0	94	204
ND<0.5 U	ND<0.5 U	0	94	204
1.9	ND<0.5 U	1.4	95	204
ND<0.5 U	ND<0.5 U	0	95	204
ND<0.5 U	ND<0.5 U	0	95	204
15	ND<0.5 U	14.5	96	204
ND<0.5 U	ND<0.5 U	0	96	204
ND<0.5 U	ND<0.5 U	0	96	204
ND<0.5 U	ND<0.5 U	0	96	204
ND<0.5 U	ND<0.5 U	0	96	204
1	ND<0.25 U	0.75	97	204
2	ND<0.25 U	1.75	98	204
3.5	ND<0.25 U	3.25	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
ND<0.25 U	ND<0.25 U	0	99	204
1.2	ND<0.25 U	0.95	100	204
ND<0.25 U	ND<0.25 U	0	100	204
ND<0.25 U	ND<0.25 U	0	100	204
ND<0.25 U	ND<0.25 U	0	100	204

ND<0.25 U	ND<0.25 U	0	100	204
ND<0.25 U	ND<0.25 U	0	100	204
ND<0.25 U	ND<0.25 U	0	100	204
ND<0.5 U	ND<0.25 U	0.25	101	204
ND<0.5 U	ND<0.25 U	0.25	102	204
ND<0.5 U	ND<0.25 U	0.25	103	204
ND<0.5 U	ND<0.25 U	0.25	104	204
ND<0.5 U	ND<0.25 U	0.25	105	204
ND<0.5 U	ND<0.25 U	0.25	106	204
ND<0.5 U	ND<0.25 U	0.25	107	204
ND<0.5 U	ND<0.25 U	0.25	108	204
ND<0.5 U	ND<0.25 U	0.25	109	204
ND<0.5 U	ND<0.25 U	0.25	110	204
ND<0.5 U	ND<0.25 U	0.25	111	204
ND<0.5 U	ND<0.25 U	0.25	112	204
ND<0.5 U	ND<0.25 U	0.25	113	204
ND<0.5 U	ND<0.25 U	0.25	114	204
ND<0.5 U	ND<0.25 U	0.25	115	204
ND<0.5 U	ND<0.25 U	0.25	116	204
ND<0.5 U	ND<0.25 U	0.25	117	204
3.9	ND<0.25 U	3.65	118	204
ND<0.5 U	ND<0.25 U	0.25	119	204
ND<0.5 U	ND<0.25 U	0.25	120	204
ND<0.5 U	ND<0.25 U	0.25	121	204
1.8	ND<0.25 U	1.55	122	204
ND<0.5 U	ND<0.25 U	0.25	123	204
ND<0.5 U	ND<0.25 U	0.25	124	204
1.9	ND<0.25 U	1.65	125	204
ND<0.5 U	ND<0.25 U	0.25	126	204
ND<0.5 U	ND<0.25 U	0.25	127	204
15	ND<0.25 U	14.75	128	204
ND<0.5 U	ND<0.25 U	0.25	129	204
ND<0.5 U	ND<0.25 U	0.25	130	204
ND<0.5 U	ND<0.25 U	0.25	131	204
ND<0.5 U	ND<0.25 U	0.25	132	204
2	1	1	133	204
3.5	1	2.5	134	204
ND<0.25 U	1	-0.75	134	205
ND<0.25 U	1	-0.75	134	206
ND<0.25 U	1	-0.75	134	207
ND<0.25 U	1	-0.75	134	208
ND<0.25 U	1	-0.75	134	209
ND<0.25 U	1	-0.75	134	210
ND<0.25 U	1	-0.75	134	211
ND<0.25 U	1	-0.75	134	212
ND<0.25 U	1	-0.75	134	213
ND<0.25 U	1	-0.75	134	214
1.2	1	0.2	135	214
ND<0.25 U	1	-0.75	135	215
ND<0.25 U	1	-0.75	135	216
ND<0.25 U	1	-0.75	135	217
ND<0.25 U	1	-0.75	135	218
ND<0.25 U	1	-0.75	135	219
ND<0.25 U	1	-0.75	135	220
ND<0.5 U	1	-0.5	135	221
ND<0.5 U	1	-0.5	135	222

ND<0.5 U	1	-0.5	135	223
ND<0.5 U	1	-0.5	135	224
ND<0.5 U	1	-0.5	135	225
ND<0.5 U	1	-0.5	135	226
ND<0.5 U	1	-0.5	135	227
ND<0.5 U	1	-0.5	135	228
ND<0.5 U	1	-0.5	135	229
ND<0.5 U	1	-0.5	135	230
ND<0.5 U	1	-0.5	135	231
ND<0.5 U	1	-0.5	135	232
ND<0.5 U	1	-0.5	135	233
ND<0.5 U	1	-0.5	135	234
ND<0.5 U	1	-0.5	135	235
ND<0.5 U	1	-0.5	135	236
ND<0.5 U	1	-0.5	135	237
3.9	1	2.9	136	237
ND<0.5 U	1	-0.5	136	238
ND<0.5 U	1	-0.5	136	239
ND<0.5 U	1	-0.5	136	240
1.8	1	0.8	137	240
ND<0.5 U	1	-0.5	137	241
ND<0.5 U	1	-0.5	137	242
1.9	1	0.9	138	242
ND<0.5 U	1	-0.5	138	243
ND<0.5 U	1	-0.5	138	244
15	1	14	139	244
ND<0.5 U	1	-0.5	139	245
ND<0.5 U	1	-0.5	139	246
ND<0.5 U	1	-0.5	139	247
ND<0.5 U	1	-0.5	139	248
3.5	2	1.5	140	248
ND<0.25 U	2	-1.75	140	249
ND<0.25 U	2	-1.75	140	250
ND<0.25 U	2	-1.75	140	251
ND<0.25 U	2	-1.75	140	252
ND<0.25 U	2	-1.75	140	253
ND<0.25 U	2	-1.75	140	254
ND<0.25 U	2	-1.75	140	255
ND<0.25 U	2	-1.75	140	256
ND<0.25 U	2	-1.75	140	257
ND<0.25 U	2	-1.75	140	258
1.2	2	-0.8	140	259
ND<0.25 U	2	-1.75	140	260
ND<0.25 U	2	-1.75	140	261
ND<0.25 U	2	-1.75	140	262
ND<0.25 U	2	-1.75	140	263
ND<0.25 U	2	-1.75	140	264
ND<0.25 U	2	-1.75	140	265
ND<0.5 U	2	-1.5	140	266
ND<0.5 U	2	-1.5	140	267
ND<0.5 U	2	-1.5	140	268
ND<0.5 U	2	-1.5	140	269
ND<0.5 U	2	-1.5	140	270
ND<0.5 U	2	-1.5	140	271
ND<0.5 U	2	-1.5	140	272
ND<0.5 U	2	-1.5	140	273

ND<0.5 U	2	-1.5	140	274
ND<0.5 U	2	-1.5	140	275
ND<0.5 U	2	-1.5	140	276
ND<0.5 U	2	-1.5	140	277
ND<0.5 U	2	-1.5	140	278
ND<0.5 U	2	-1.5	140	279
ND<0.5 U	2	-1.5	140	280
ND<0.5 U	2	-1.5	140	281
ND<0.5 U	2	-1.5	140	282
3.9	2	1.9	141	282
ND<0.5 U	2	-1.5	141	283
ND<0.5 U	2	-1.5	141	284
ND<0.5 U	2	-1.5	141	285
1.8	2	-0.2	141	286
ND<0.5 U	2	-1.5	141	287
ND<0.5 U	2	-1.5	141	288
1.9	2	-0.1	141	289
ND<0.5 U	2	-1.5	141	290
ND<0.5 U	2	-1.5	141	291
15	2	13	142	291
ND<0.5 U	2	-1.5	142	292
ND<0.5 U	2	-1.5	142	293
ND<0.5 U	2	-1.5	142	294
ND<0.5 U	2	-1.5	142	295
ND<0.25 U	3.5	-3.25	142	296
ND<0.25 U	3.5	-3.25	142	297
ND<0.25 U	3.5	-3.25	142	298
ND<0.25 U	3.5	-3.25	142	299
ND<0.25 U	3.5	-3.25	142	300
ND<0.25 U	3.5	-3.25	142	301
ND<0.25 U	3.5	-3.25	142	302
ND<0.25 U	3.5	-3.25	142	303
ND<0.25 U	3.5	-3.25	142	304
ND<0.25 U	3.5	-3.25	142	305
1.2	3.5	-2.3	142	306
ND<0.25 U	3.5	-3.25	142	307
ND<0.25 U	3.5	-3.25	142	308
ND<0.25 U	3.5	-3.25	142	309
ND<0.25 U	3.5	-3.25	142	310
ND<0.25 U	3.5	-3.25	142	311
ND<0.25 U	3.5	-3.25	142	312
ND<0.5 U	3.5	-3	142	313
ND<0.5 U	3.5	-3	142	314
ND<0.5 U	3.5	-3	142	315
ND<0.5 U	3.5	-3	142	316
ND<0.5 U	3.5	-3	142	317
ND<0.5 U	3.5	-3	142	318
ND<0.5 U	3.5	-3	142	319
ND<0.5 U	3.5	-3	142	320
ND<0.5 U	3.5	-3	142	321
ND<0.5 U	3.5	-3	142	322
ND<0.5 U	3.5	-3	142	323
ND<0.5 U	3.5	-3	142	324
ND<0.5 U	3.5	-3	142	325
ND<0.5 U	3.5	-3	142	326
ND<0.5 U	3.5	-3	142	327

ND<0.5 U	3.5	-3	142	328
ND<0.5 U	3.5	-3	142	329
3.9	3.5	0.4	143	329
ND<0.5 U	3.5	-3	143	330
ND<0.5 U	3.5	-3	143	331
ND<0.5 U	3.5	-3	143	332
1.8	3.5	-1.7	143	333
ND<0.5 U	3.5	-3	143	334
ND<0.5 U	3.5	-3	143	335
1.9	3.5	-1.6	143	336
ND<0.5 U	3.5	-3	143	337
ND<0.5 U	3.5	-3	143	338
15	3.5	11.5	144	338
ND<0.5 U	3.5	-3	144	339
ND<0.5 U	3.5	-3	144	340
ND<0.5 U	3.5	-3	144	341
ND<0.5 U	3.5	-3	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
ND<0.25 U	ND<0.25 U	0	144	342
1.2	ND<0.25 U	0.95	145	342
ND<0.25 U	ND<0.25 U	0	145	342
ND<0.25 U	ND<0.25 U	0	145	342
ND<0.25 U	ND<0.25 U	0	145	342
ND<0.25 U	ND<0.25 U	0	145	342
ND<0.25 U	ND<0.25 U	0	145	342
ND<0.25 U	ND<0.25 U	0	145	342
ND<0.5 U	ND<0.25 U	0.25	146	342
ND<0.5 U	ND<0.25 U	0.25	147	342
ND<0.5 U	ND<0.25 U	0.25	148	342
ND<0.5 U	ND<0.25 U	0.25	149	342
ND<0.5 U	ND<0.25 U	0.25	150	342
ND<0.5 U	ND<0.25 U	0.25	151	342
ND<0.5 U	ND<0.25 U	0.25	152	342
ND<0.5 U	ND<0.25 U	0.25	153	342
ND<0.5 U	ND<0.25 U	0.25	154	342
ND<0.5 U	ND<0.25 U	0.25	155	342
ND<0.5 U	ND<0.25 U	0.25	156	342
ND<0.5 U	ND<0.25 U	0.25	157	342
ND<0.5 U	ND<0.25 U	0.25	158	342
ND<0.5 U	ND<0.25 U	0.25	159	342
ND<0.5 U	ND<0.25 U	0.25	160	342
ND<0.5 U	ND<0.25 U	0.25	161	342
ND<0.5 U	ND<0.25 U	0.25	162	342
3.9	ND<0.25 U	3.65	163	342
ND<0.5 U	ND<0.25 U	0.25	164	342
ND<0.5 U	ND<0.25 U	0.25	165	342
ND<0.5 U	ND<0.25 U	0.25	166	342
1.8	ND<0.25 U	1.55	167	342
ND<0.5 U	ND<0.25 U	0.25	168	342

ND<0.5 U	ND<0.25 U	0.25	169	342
1.9	ND<0.25 U	1.65	170	342
ND<0.5 U	ND<0.25 U	0.25	171	342
ND<0.5 U	ND<0.25 U	0.25	172	342
15	ND<0.25 U	14.75	173	342
ND<0.5 U	ND<0.25 U	0.25	174	342
ND<0.5 U	ND<0.25 U	0.25	175	342
ND<0.5 U	ND<0.25 U	0.25	176	342
ND<0.5 U	ND<0.25 U	0.25	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
ND<0.25 U	ND<0.25 U	0	177	342
1.2	ND<0.25 U	0.95	178	342
ND<0.25 U	ND<0.25 U	0	178	342
ND<0.25 U	ND<0.25 U	0	178	342
ND<0.25 U	ND<0.25 U	0	178	342
ND<0.25 U	ND<0.25 U	0	178	342
ND<0.25 U	ND<0.25 U	0	178	342
ND<0.25 U	ND<0.25 U	0	178	342
ND<0.5 U	ND<0.25 U	0.25	179	342
ND<0.5 U	ND<0.25 U	0.25	180	342
ND<0.5 U	ND<0.25 U	0.25	181	342
ND<0.5 U	ND<0.25 U	0.25	182	342
ND<0.5 U	ND<0.25 U	0.25	183	342
ND<0.5 U	ND<0.25 U	0.25	184	342
ND<0.5 U	ND<0.25 U	0.25	185	342
ND<0.5 U	ND<0.25 U	0.25	186	342
ND<0.5 U	ND<0.25 U	0.25	187	342
ND<0.5 U	ND<0.25 U	0.25	188	342
ND<0.5 U	ND<0.25 U	0.25	189	342
ND<0.5 U	ND<0.25 U	0.25	190	342
ND<0.5 U	ND<0.25 U	0.25	191	342
ND<0.5 U	ND<0.25 U	0.25	192	342
ND<0.5 U	ND<0.25 U	0.25	193	342
ND<0.5 U	ND<0.25 U	0.25	194	342
ND<0.5 U	ND<0.25 U	0.25	195	342
3.9	ND<0.25 U	3.65	196	342
ND<0.5 U	ND<0.25 U	0.25	197	342
ND<0.5 U	ND<0.25 U	0.25	198	342
ND<0.5 U	ND<0.25 U	0.25	199	342
1.8	ND<0.25 U	1.55	200	342
ND<0.5 U	ND<0.25 U	0.25	201	342
ND<0.5 U	ND<0.25 U	0.25	202	342
1.9	ND<0.25 U	1.65	203	342
ND<0.5 U	ND<0.25 U	0.25	204	342
ND<0.5 U	ND<0.25 U	0.25	205	342
15	ND<0.25 U	14.75	206	342
ND<0.5 U	ND<0.25 U	0.25	207	342
ND<0.5 U	ND<0.25 U	0.25	208	342
ND<0.5 U	ND<0.25 U	0.25	209	342
ND<0.5 U	ND<0.25 U	0.25	210	342

ND<0.25 U	ND<0.25 U	0	210	342
ND<0.25 U	ND<0.25 U	0	210	342
ND<0.25 U	ND<0.25 U	0	210	342
ND<0.25 U	ND<0.25 U	0	210	342
ND<0.25 U	ND<0.25 U	0	210	342
ND<0.25 U	ND<0.25 U	0	210	342
ND<0.25 U	ND<0.25 U	0	210	342
1.2	ND<0.25 U	0.95	211	342
ND<0.25 U	ND<0.25 U	0	211	342
ND<0.25 U	ND<0.25 U	0	211	342
ND<0.25 U	ND<0.25 U	0	211	342
ND<0.25 U	ND<0.25 U	0	211	342
ND<0.25 U	ND<0.25 U	0	211	342
ND<0.25 U	ND<0.25 U	0	211	342
ND<0.5 U	ND<0.25 U	0.25	212	342
ND<0.5 U	ND<0.25 U	0.25	213	342
ND<0.5 U	ND<0.25 U	0.25	214	342
ND<0.5 U	ND<0.25 U	0.25	215	342
ND<0.5 U	ND<0.25 U	0.25	216	342
ND<0.5 U	ND<0.25 U	0.25	217	342
ND<0.5 U	ND<0.25 U	0.25	218	342
ND<0.5 U	ND<0.25 U	0.25	219	342
ND<0.5 U	ND<0.25 U	0.25	220	342
ND<0.5 U	ND<0.25 U	0.25	221	342
ND<0.5 U	ND<0.25 U	0.25	222	342
ND<0.5 U	ND<0.25 U	0.25	223	342
ND<0.5 U	ND<0.25 U	0.25	224	342
ND<0.5 U	ND<0.25 U	0.25	225	342
ND<0.5 U	ND<0.25 U	0.25	226	342
ND<0.5 U	ND<0.25 U	0.25	227	342
ND<0.5 U	ND<0.25 U	0.25	228	342
3.9	ND<0.25 U	3.65	229	342
ND<0.5 U	ND<0.25 U	0.25	230	342
ND<0.5 U	ND<0.25 U	0.25	231	342
ND<0.5 U	ND<0.25 U	0.25	232	342
1.8	ND<0.25 U	1.55	233	342
ND<0.5 U	ND<0.25 U	0.25	234	342
ND<0.5 U	ND<0.25 U	0.25	235	342
1.9	ND<0.25 U	1.65	236	342
ND<0.5 U	ND<0.25 U	0.25	237	342
ND<0.5 U	ND<0.25 U	0.25	238	342
15	ND<0.25 U	14.75	239	342
ND<0.5 U	ND<0.25 U	0.25	240	342
ND<0.5 U	ND<0.25 U	0.25	241	342
ND<0.5 U	ND<0.25 U	0.25	242	342
ND<0.5 U	ND<0.25 U	0.25	243	342
ND<0.25 U	ND<0.25 U	0	243	342
ND<0.25 U	ND<0.25 U	0	243	342
ND<0.25 U	ND<0.25 U	0	243	342
ND<0.25 U	ND<0.25 U	0	243	342
ND<0.25 U	ND<0.25 U	0	243	342
ND<0.25 U	ND<0.25 U	0	243	342
1.2	ND<0.25 U	0.95	244	342
ND<0.25 U	ND<0.25 U	0	244	342
ND<0.25 U	ND<0.25 U	0	244	342

ND<0.25 U	ND<0.25 U	0	244	342
ND<0.25 U	ND<0.25 U	0	244	342
ND<0.25 U	ND<0.25 U	0	244	342
ND<0.25 U	ND<0.25 U	0	244	342
ND<0.5 U	ND<0.25 U	0.25	245	342
ND<0.5 U	ND<0.25 U	0.25	246	342
ND<0.5 U	ND<0.25 U	0.25	247	342
ND<0.5 U	ND<0.25 U	0.25	248	342
ND<0.5 U	ND<0.25 U	0.25	249	342
ND<0.5 U	ND<0.25 U	0.25	250	342
ND<0.5 U	ND<0.25 U	0.25	251	342
ND<0.5 U	ND<0.25 U	0.25	252	342
ND<0.5 U	ND<0.25 U	0.25	253	342
ND<0.5 U	ND<0.25 U	0.25	254	342
ND<0.5 U	ND<0.25 U	0.25	255	342
ND<0.5 U	ND<0.25 U	0.25	256	342
ND<0.5 U	ND<0.25 U	0.25	257	342
ND<0.5 U	ND<0.25 U	0.25	258	342
ND<0.5 U	ND<0.25 U	0.25	259	342
ND<0.5 U	ND<0.25 U	0.25	260	342
ND<0.5 U	ND<0.25 U	0.25	261	342
3.9	ND<0.25 U	3.65	262	342
ND<0.5 U	ND<0.25 U	0.25	263	342
ND<0.5 U	ND<0.25 U	0.25	264	342
ND<0.5 U	ND<0.25 U	0.25	265	342
1.8	ND<0.25 U	1.55	266	342
ND<0.5 U	ND<0.25 U	0.25	267	342
ND<0.5 U	ND<0.25 U	0.25	268	342
1.9	ND<0.25 U	1.65	269	342
ND<0.5 U	ND<0.25 U	0.25	270	342
ND<0.5 U	ND<0.25 U	0.25	271	342
15	ND<0.25 U	14.75	272	342
ND<0.5 U	ND<0.25 U	0.25	273	342
ND<0.5 U	ND<0.25 U	0.25	274	342
ND<0.5 U	ND<0.25 U	0.25	275	342
ND<0.5 U	ND<0.25 U	0.25	276	342
ND<0.25 U	ND<0.25 U	0	276	342
ND<0.25 U	ND<0.25 U	0	276	342
ND<0.25 U	ND<0.25 U	0	276	342
ND<0.25 U	ND<0.25 U	0	276	342
ND<0.25 U	ND<0.25 U	0	276	342
1.2	ND<0.25 U	0.95	277	342
ND<0.25 U	ND<0.25 U	0	277	342
ND<0.25 U	ND<0.25 U	0	277	342
ND<0.25 U	ND<0.25 U	0	277	342
ND<0.25 U	ND<0.25 U	0	277	342
ND<0.25 U	ND<0.25 U	0	277	342
ND<0.25 U	ND<0.25 U	0	277	342
ND<0.5 U	ND<0.25 U	0.25	278	342
ND<0.5 U	ND<0.25 U	0.25	279	342
ND<0.5 U	ND<0.25 U	0.25	280	342
ND<0.5 U	ND<0.25 U	0.25	281	342
ND<0.5 U	ND<0.25 U	0.25	282	342
ND<0.5 U	ND<0.25 U	0.25	283	342
ND<0.5 U	ND<0.25 U	0.25	284	342
ND<0.5 U	ND<0.25 U	0.25	285	342

ND<0.5 U	ND<0.25 U	0.25	286	342
ND<0.5 U	ND<0.25 U	0.25	287	342
ND<0.5 U	ND<0.25 U	0.25	288	342
ND<0.5 U	ND<0.25 U	0.25	289	342
ND<0.5 U	ND<0.25 U	0.25	290	342
ND<0.5 U	ND<0.25 U	0.25	291	342
ND<0.5 U	ND<0.25 U	0.25	292	342
ND<0.5 U	ND<0.25 U	0.25	293	342
ND<0.5 U	ND<0.25 U	0.25	294	342
3.9	ND<0.25 U	3.65	295	342
ND<0.5 U	ND<0.25 U	0.25	296	342
ND<0.5 U	ND<0.25 U	0.25	297	342
ND<0.5 U	ND<0.25 U	0.25	298	342
1.8	ND<0.25 U	1.55	299	342
ND<0.5 U	ND<0.25 U	0.25	300	342
ND<0.5 U	ND<0.25 U	0.25	301	342
1.9	ND<0.25 U	1.65	302	342
ND<0.5 U	ND<0.25 U	0.25	303	342
ND<0.5 U	ND<0.25 U	0.25	304	342
15	ND<0.25 U	14.75	305	342
ND<0.5 U	ND<0.25 U	0.25	306	342
ND<0.5 U	ND<0.25 U	0.25	307	342
ND<0.5 U	ND<0.25 U	0.25	308	342
ND<0.5 U	ND<0.25 U	0.25	309	342

ND<0.25 U	ND<0.25 U	0	309	342
ND<0.25 U	ND<0.25 U	0	309	342
ND<0.25 U	ND<0.25 U	0	309	342
ND<0.25 U	ND<0.25 U	0	309	342
1.2	ND<0.25 U	0.95	310	342
ND<0.25 U	ND<0.25 U	0	310	342
ND<0.25 U	ND<0.25 U	0	310	342
ND<0.25 U	ND<0.25 U	0	310	342
ND<0.25 U	ND<0.25 U	0	310	342
ND<0.25 U	ND<0.25 U	0	310	342
ND<0.25 U	ND<0.25 U	0	310	342
ND<0.5 U	ND<0.25 U	0.25	311	342
ND<0.5 U	ND<0.25 U	0.25	312	342
ND<0.5 U	ND<0.25 U	0.25	313	342
ND<0.5 U	ND<0.25 U	0.25	314	342
ND<0.5 U	ND<0.25 U	0.25	315	342
ND<0.5 U	ND<0.25 U	0.25	316	342
ND<0.5 U	ND<0.25 U	0.25	317	342
ND<0.5 U	ND<0.25 U	0.25	318	342
ND<0.5 U	ND<0.25 U	0.25	319	342
ND<0.5 U	ND<0.25 U	0.25	320	342
ND<0.5 U	ND<0.25 U	0.25	321	342
ND<0.5 U	ND<0.25 U	0.25	322	342
ND<0.5 U	ND<0.25 U	0.25	323	342
ND<0.5 U	ND<0.25 U	0.25	324	342
ND<0.5 U	ND<0.25 U	0.25	325	342
ND<0.5 U	ND<0.25 U	0.25	326	342
ND<0.5 U	ND<0.25 U	0.25	327	342
3.9	ND<0.25 U	3.65	328	342
ND<0.5 U	ND<0.25 U	0.25	329	342
ND<0.5 U	ND<0.25 U	0.25	330	342
ND<0.5 U	ND<0.25 U	0.25	331	342

1.8	ND<0.25 U	1.55	332	342
ND<0.5 U	ND<0.25 U	0.25	333	342
ND<0.5 U	ND<0.25 U	0.25	334	342
1.9	ND<0.25 U	1.65	335	342
ND<0.5 U	ND<0.25 U	0.25	336	342
ND<0.5 U	ND<0.25 U	0.25	337	342
15	ND<0.25 U	14.75	338	342
ND<0.5 U	ND<0.25 U	0.25	339	342
ND<0.5 U	ND<0.25 U	0.25	340	342
ND<0.5 U	ND<0.25 U	0.25	341	342
ND<0.5 U	ND<0.25 U	0.25	342	342
ND<0.25 U	ND<0.25 U	0	342	342
ND<0.25 U	ND<0.25 U	0	342	342
ND<0.25 U	ND<0.25 U	0	342	342
1.2	ND<0.25 U	0.95	343	342
ND<0.25 U	ND<0.25 U	0	343	342
ND<0.25 U	ND<0.25 U	0	343	342
ND<0.25 U	ND<0.25 U	0	343	342
ND<0.25 U	ND<0.25 U	0	343	342
ND<0.25 U	ND<0.25 U	0	343	342
ND<0.25 U	ND<0.25 U	0	343	342
ND<0.5 U	ND<0.25 U	0.25	344	342
ND<0.5 U	ND<0.25 U	0.25	345	342
ND<0.5 U	ND<0.25 U	0.25	346	342
ND<0.5 U	ND<0.25 U	0.25	347	342
ND<0.5 U	ND<0.25 U	0.25	348	342
ND<0.5 U	ND<0.25 U	0.25	349	342
ND<0.5 U	ND<0.25 U	0.25	350	342
ND<0.5 U	ND<0.25 U	0.25	351	342
ND<0.5 U	ND<0.25 U	0.25	352	342
ND<0.5 U	ND<0.25 U	0.25	353	342
ND<0.5 U	ND<0.25 U	0.25	354	342
ND<0.5 U	ND<0.25 U	0.25	355	342
ND<0.5 U	ND<0.25 U	0.25	356	342
ND<0.5 U	ND<0.25 U	0.25	357	342
ND<0.5 U	ND<0.25 U	0.25	358	342
ND<0.5 U	ND<0.25 U	0.25	359	342
ND<0.5 U	ND<0.25 U	0.25	360	342
3.9	ND<0.25 U	3.65	361	342
ND<0.5 U	ND<0.25 U	0.25	362	342
ND<0.5 U	ND<0.25 U	0.25	363	342
ND<0.5 U	ND<0.25 U	0.25	364	342
1.8	ND<0.25 U	1.55	365	342
ND<0.5 U	ND<0.25 U	0.25	366	342
ND<0.5 U	ND<0.25 U	0.25	367	342
1.9	ND<0.25 U	1.65	368	342
ND<0.5 U	ND<0.25 U	0.25	369	342
ND<0.5 U	ND<0.25 U	0.25	370	342
15	ND<0.25 U	14.75	371	342
ND<0.5 U	ND<0.25 U	0.25	372	342
ND<0.5 U	ND<0.25 U	0.25	373	342
ND<0.5 U	ND<0.25 U	0.25	374	342
ND<0.5 U	ND<0.25 U	0.25	375	342
ND<0.25 U	ND<0.25 U	0	375	342
ND<0.25 U	ND<0.25 U	0	375	342

1.2	ND<0.25 U	0.95	376	342
ND<0.25 U	ND<0.25 U	0	376	342
ND<0.25 U	ND<0.25 U	0	376	342
ND<0.25 U	ND<0.25 U	0	376	342
ND<0.25 U	ND<0.25 U	0	376	342
ND<0.25 U	ND<0.25 U	0	376	342
ND<0.25 U	ND<0.25 U	0	376	342
ND<0.5 U	ND<0.25 U	0.25	377	342
ND<0.5 U	ND<0.25 U	0.25	378	342
ND<0.5 U	ND<0.25 U	0.25	379	342
ND<0.5 U	ND<0.25 U	0.25	380	342
ND<0.5 U	ND<0.25 U	0.25	381	342
ND<0.5 U	ND<0.25 U	0.25	382	342
ND<0.5 U	ND<0.25 U	0.25	383	342
ND<0.5 U	ND<0.25 U	0.25	384	342
ND<0.5 U	ND<0.25 U	0.25	385	342
ND<0.5 U	ND<0.25 U	0.25	386	342
ND<0.5 U	ND<0.25 U	0.25	387	342
ND<0.5 U	ND<0.25 U	0.25	388	342
ND<0.5 U	ND<0.25 U	0.25	389	342
ND<0.5 U	ND<0.25 U	0.25	390	342
ND<0.5 U	ND<0.25 U	0.25	391	342
ND<0.5 U	ND<0.25 U	0.25	392	342
ND<0.5 U	ND<0.25 U	0.25	393	342
3.9	ND<0.25 U	3.65	394	342
ND<0.5 U	ND<0.25 U	0.25	395	342
ND<0.5 U	ND<0.25 U	0.25	396	342
ND<0.5 U	ND<0.25 U	0.25	397	342
1.8	ND<0.25 U	1.55	398	342
ND<0.5 U	ND<0.25 U	0.25	399	342
ND<0.5 U	ND<0.25 U	0.25	400	342
1.9	ND<0.25 U	1.65	401	342
ND<0.5 U	ND<0.25 U	0.25	402	342
ND<0.5 U	ND<0.25 U	0.25	403	342
15	ND<0.25 U	14.75	404	342
ND<0.5 U	ND<0.25 U	0.25	405	342
ND<0.5 U	ND<0.25 U	0.25	406	342
ND<0.5 U	ND<0.25 U	0.25	407	342
ND<0.5 U	ND<0.25 U	0.25	408	342

ND<0.25 U	ND<0.25 U	0	408	342
1.2	ND<0.25 U	0.95	409	342
ND<0.25 U	ND<0.25 U	0	409	342
ND<0.25 U	ND<0.25 U	0	409	342
ND<0.25 U	ND<0.25 U	0	409	342
ND<0.25 U	ND<0.25 U	0	409	342
ND<0.25 U	ND<0.25 U	0	409	342
ND<0.25 U	ND<0.25 U	0	409	342
ND<0.5 U	ND<0.25 U	0.25	410	342
ND<0.5 U	ND<0.25 U	0.25	411	342
ND<0.5 U	ND<0.25 U	0.25	412	342
ND<0.5 U	ND<0.25 U	0.25	413	342
ND<0.5 U	ND<0.25 U	0.25	414	342
ND<0.5 U	ND<0.25 U	0.25	415	342
ND<0.5 U	ND<0.25 U	0.25	416	342
ND<0.5 U	ND<0.25 U	0.25	417	342
ND<0.5 U	ND<0.25 U	0.25	418	342

ND<0.5 U	ND<0.25 U	0.25	419	342
ND<0.5 U	ND<0.25 U	0.25	420	342
ND<0.5 U	ND<0.25 U	0.25	421	342
ND<0.5 U	ND<0.25 U	0.25	422	342
ND<0.5 U	ND<0.25 U	0.25	423	342
ND<0.5 U	ND<0.25 U	0.25	424	342
ND<0.5 U	ND<0.25 U	0.25	425	342
ND<0.5 U	ND<0.25 U	0.25	426	342
3.9	ND<0.25 U	3.65	427	342
ND<0.5 U	ND<0.25 U	0.25	428	342
ND<0.5 U	ND<0.25 U	0.25	429	342
ND<0.5 U	ND<0.25 U	0.25	430	342
1.8	ND<0.25 U	1.55	431	342
ND<0.5 U	ND<0.25 U	0.25	432	342
ND<0.5 U	ND<0.25 U	0.25	433	342
1.9	ND<0.25 U	1.65	434	342
ND<0.5 U	ND<0.25 U	0.25	435	342
ND<0.5 U	ND<0.25 U	0.25	436	342
15	ND<0.25 U	14.75	437	342
ND<0.5 U	ND<0.25 U	0.25	438	342
ND<0.5 U	ND<0.25 U	0.25	439	342
ND<0.5 U	ND<0.25 U	0.25	440	342
ND<0.5 U	ND<0.25 U	0.25	441	342
1.2	ND<0.25 U	0.95	442	342
ND<0.25 U	ND<0.25 U	0	442	342
ND<0.25 U	ND<0.25 U	0	442	342
ND<0.25 U	ND<0.25 U	0	442	342
ND<0.25 U	ND<0.25 U	0	442	342
ND<0.25 U	ND<0.25 U	0	442	342
ND<0.25 U	ND<0.25 U	0	442	342
ND<0.5 U	ND<0.25 U	0.25	443	342
ND<0.5 U	ND<0.25 U	0.25	444	342
ND<0.5 U	ND<0.25 U	0.25	445	342
ND<0.5 U	ND<0.25 U	0.25	446	342
ND<0.5 U	ND<0.25 U	0.25	447	342
ND<0.5 U	ND<0.25 U	0.25	448	342
ND<0.5 U	ND<0.25 U	0.25	449	342
ND<0.5 U	ND<0.25 U	0.25	450	342
ND<0.5 U	ND<0.25 U	0.25	451	342
ND<0.5 U	ND<0.25 U	0.25	452	342
ND<0.5 U	ND<0.25 U	0.25	453	342
ND<0.5 U	ND<0.25 U	0.25	454	342
ND<0.5 U	ND<0.25 U	0.25	455	342
ND<0.5 U	ND<0.25 U	0.25	456	342
ND<0.5 U	ND<0.25 U	0.25	457	342
ND<0.5 U	ND<0.25 U	0.25	458	342
ND<0.5 U	ND<0.25 U	0.25	459	342
3.9	ND<0.25 U	3.65	460	342
ND<0.5 U	ND<0.25 U	0.25	461	342
ND<0.5 U	ND<0.25 U	0.25	462	342
ND<0.5 U	ND<0.25 U	0.25	463	342
1.8	ND<0.25 U	1.55	464	342
ND<0.5 U	ND<0.25 U	0.25	465	342
ND<0.5 U	ND<0.25 U	0.25	466	342
1.9	ND<0.25 U	1.65	467	342
ND<0.5 U	ND<0.25 U	0.25	468	342

ND<0.5 U	ND<0.25 U	0.25	469	342
15	ND<0.25 U	14.75	470	342
ND<0.5 U	ND<0.25 U	0.25	471	342
ND<0.5 U	ND<0.25 U	0.25	472	342
ND<0.5 U	ND<0.25 U	0.25	473	342
ND<0.5 U	ND<0.25 U	0.25	474	342

ND<0.25 U	1.2	-0.95	474	343
ND<0.25 U	1.2	-0.95	474	344
ND<0.25 U	1.2	-0.95	474	345
ND<0.25 U	1.2	-0.95	474	346
ND<0.25 U	1.2	-0.95	474	347
ND<0.25 U	1.2	-0.95	474	348
ND<0.5 U	1.2	-0.7	474	349
ND<0.5 U	1.2	-0.7	474	350
ND<0.5 U	1.2	-0.7	474	351
ND<0.5 U	1.2	-0.7	474	352
ND<0.5 U	1.2	-0.7	474	353
ND<0.5 U	1.2	-0.7	474	354
ND<0.5 U	1.2	-0.7	474	355
ND<0.5 U	1.2	-0.7	474	356
ND<0.5 U	1.2	-0.7	474	357
ND<0.5 U	1.2	-0.7	474	358
ND<0.5 U	1.2	-0.7	474	359
ND<0.5 U	1.2	-0.7	474	360
ND<0.5 U	1.2	-0.7	474	361
ND<0.5 U	1.2	-0.7	474	362
ND<0.5 U	1.2	-0.7	474	363
ND<0.5 U	1.2	-0.7	474	364
ND<0.5 U	1.2	-0.7	474	365
3.9	1.2	2.7	475	365
ND<0.5 U	1.2	-0.7	475	366
ND<0.5 U	1.2	-0.7	475	367
ND<0.5 U	1.2	-0.7	475	368
1.8	1.2	0.6	476	368
ND<0.5 U	1.2	-0.7	476	369
ND<0.5 U	1.2	-0.7	476	370
1.9	1.2	0.7	477	370
ND<0.5 U	1.2	-0.7	477	371
ND<0.5 U	1.2	-0.7	477	372
15	1.2	13.8	478	372
ND<0.5 U	1.2	-0.7	478	373
ND<0.5 U	1.2	-0.7	478	374
ND<0.5 U	1.2	-0.7	478	375
ND<0.5 U	1.2	-0.7	478	376

ND<0.25 U	ND<0.25 U	0	478	376
ND<0.25 U	ND<0.25 U	0	478	376
ND<0.25 U	ND<0.25 U	0	478	376
ND<0.25 U	ND<0.25 U	0	478	376
ND<0.25 U	ND<0.25 U	0	478	376
ND<0.5 U	ND<0.25 U	0.25	479	376
ND<0.5 U	ND<0.25 U	0.25	480	376
ND<0.5 U	ND<0.25 U	0.25	481	376
ND<0.5 U	ND<0.25 U	0.25	482	376
ND<0.5 U	ND<0.25 U	0.25	483	376
ND<0.5 U	ND<0.25 U	0.25	484	376

ND<0.5 U	ND<0.25 U	0.25	485	376
ND<0.5 U	ND<0.25 U	0.25	486	376
ND<0.5 U	ND<0.25 U	0.25	487	376
ND<0.5 U	ND<0.25 U	0.25	488	376
ND<0.5 U	ND<0.25 U	0.25	489	376
ND<0.5 U	ND<0.25 U	0.25	490	376
ND<0.5 U	ND<0.25 U	0.25	491	376
ND<0.5 U	ND<0.25 U	0.25	492	376
ND<0.5 U	ND<0.25 U	0.25	493	376
ND<0.5 U	ND<0.25 U	0.25	494	376
ND<0.5 U	ND<0.25 U	0.25	495	376
3.9	ND<0.25 U	3.65	496	376
ND<0.5 U	ND<0.25 U	0.25	497	376
ND<0.5 U	ND<0.25 U	0.25	498	376
ND<0.5 U	ND<0.25 U	0.25	499	376
1.8	ND<0.25 U	1.55	500	376
ND<0.5 U	ND<0.25 U	0.25	501	376
ND<0.5 U	ND<0.25 U	0.25	502	376
1.9	ND<0.25 U	1.65	503	376
ND<0.5 U	ND<0.25 U	0.25	504	376
ND<0.5 U	ND<0.25 U	0.25	505	376
15	ND<0.25 U	14.75	506	376
ND<0.5 U	ND<0.25 U	0.25	507	376
ND<0.5 U	ND<0.25 U	0.25	508	376
ND<0.5 U	ND<0.25 U	0.25	509	376
ND<0.5 U	ND<0.25 U	0.25	510	376
ND<0.25 U	ND<0.25 U	0	510	376
ND<0.25 U	ND<0.25 U	0	510	376
ND<0.25 U	ND<0.25 U	0	510	376
ND<0.25 U	ND<0.25 U	0	510	376
ND<0.5 U	ND<0.25 U	0.25	511	376
ND<0.5 U	ND<0.25 U	0.25	512	376
ND<0.5 U	ND<0.25 U	0.25	513	376
ND<0.5 U	ND<0.25 U	0.25	514	376
ND<0.5 U	ND<0.25 U	0.25	515	376
ND<0.5 U	ND<0.25 U	0.25	516	376
ND<0.5 U	ND<0.25 U	0.25	517	376
ND<0.5 U	ND<0.25 U	0.25	518	376
ND<0.5 U	ND<0.25 U	0.25	519	376
ND<0.5 U	ND<0.25 U	0.25	520	376
ND<0.5 U	ND<0.25 U	0.25	521	376
ND<0.5 U	ND<0.25 U	0.25	522	376
ND<0.5 U	ND<0.25 U	0.25	523	376
ND<0.5 U	ND<0.25 U	0.25	524	376
ND<0.5 U	ND<0.25 U	0.25	525	376
ND<0.5 U	ND<0.25 U	0.25	526	376
ND<0.5 U	ND<0.25 U	0.25	527	376
3.9	ND<0.25 U	3.65	528	376
ND<0.5 U	ND<0.25 U	0.25	529	376
ND<0.5 U	ND<0.25 U	0.25	530	376
ND<0.5 U	ND<0.25 U	0.25	531	376
1.8	ND<0.25 U	1.55	532	376
ND<0.5 U	ND<0.25 U	0.25	533	376
ND<0.5 U	ND<0.25 U	0.25	534	376
1.9	ND<0.25 U	1.65	535	376
ND<0.5 U	ND<0.25 U	0.25	536	376

ND<0.5 U	ND<0.25 U	0.25	537	376
15	ND<0.25 U	14.75	538	376
ND<0.5 U	ND<0.25 U	0.25	539	376
ND<0.5 U	ND<0.25 U	0.25	540	376
ND<0.5 U	ND<0.25 U	0.25	541	376
ND<0.5 U	ND<0.25 U	0.25	542	376
ND<0.25 U	ND<0.25 U	0	542	376
ND<0.25 U	ND<0.25 U	0	542	376
ND<0.25 U	ND<0.25 U	0	542	376
ND<0.5 U	ND<0.25 U	0.25	543	376
ND<0.5 U	ND<0.25 U	0.25	544	376
ND<0.5 U	ND<0.25 U	0.25	545	376
ND<0.5 U	ND<0.25 U	0.25	546	376
ND<0.5 U	ND<0.25 U	0.25	547	376
ND<0.5 U	ND<0.25 U	0.25	548	376
ND<0.5 U	ND<0.25 U	0.25	549	376
ND<0.5 U	ND<0.25 U	0.25	550	376
ND<0.5 U	ND<0.25 U	0.25	551	376
ND<0.5 U	ND<0.25 U	0.25	552	376
ND<0.5 U	ND<0.25 U	0.25	553	376
ND<0.5 U	ND<0.25 U	0.25	554	376
ND<0.5 U	ND<0.25 U	0.25	555	376
ND<0.5 U	ND<0.25 U	0.25	556	376
ND<0.5 U	ND<0.25 U	0.25	557	376
ND<0.5 U	ND<0.25 U	0.25	558	376
ND<0.5 U	ND<0.25 U	0.25	559	376
3.9	ND<0.25 U	3.65	560	376
ND<0.5 U	ND<0.25 U	0.25	561	376
ND<0.5 U	ND<0.25 U	0.25	562	376
ND<0.5 U	ND<0.25 U	0.25	563	376
1.8	ND<0.25 U	1.55	564	376
ND<0.5 U	ND<0.25 U	0.25	565	376
ND<0.5 U	ND<0.25 U	0.25	566	376
1.9	ND<0.25 U	1.65	567	376
ND<0.5 U	ND<0.25 U	0.25	568	376
ND<0.5 U	ND<0.25 U	0.25	569	376
15	ND<0.25 U	14.75	570	376
ND<0.5 U	ND<0.25 U	0.25	571	376
ND<0.5 U	ND<0.25 U	0.25	572	376
ND<0.5 U	ND<0.25 U	0.25	573	376
ND<0.5 U	ND<0.25 U	0.25	574	376
ND<0.25 U	ND<0.25 U	0	574	376
ND<0.25 U	ND<0.25 U	0	574	376
ND<0.5 U	ND<0.25 U	0.25	575	376
ND<0.5 U	ND<0.25 U	0.25	576	376
ND<0.5 U	ND<0.25 U	0.25	577	376
ND<0.5 U	ND<0.25 U	0.25	578	376
ND<0.5 U	ND<0.25 U	0.25	579	376
ND<0.5 U	ND<0.25 U	0.25	580	376
ND<0.5 U	ND<0.25 U	0.25	581	376
ND<0.5 U	ND<0.25 U	0.25	582	376
ND<0.5 U	ND<0.25 U	0.25	583	376
ND<0.5 U	ND<0.25 U	0.25	584	376
ND<0.5 U	ND<0.25 U	0.25	585	376
ND<0.5 U	ND<0.25 U	0.25	586	376

ND<0.5 U	ND<0.25 U	0.25	587	376
ND<0.5 U	ND<0.25 U	0.25	588	376
ND<0.5 U	ND<0.25 U	0.25	589	376
ND<0.5 U	ND<0.25 U	0.25	590	376
ND<0.5 U	ND<0.25 U	0.25	591	376
3.9	ND<0.25 U	3.65	592	376
ND<0.5 U	ND<0.25 U	0.25	593	376
ND<0.5 U	ND<0.25 U	0.25	594	376
ND<0.5 U	ND<0.25 U	0.25	595	376
1.8	ND<0.25 U	1.55	596	376
ND<0.5 U	ND<0.25 U	0.25	597	376
ND<0.5 U	ND<0.25 U	0.25	598	376
1.9	ND<0.25 U	1.65	599	376
ND<0.5 U	ND<0.25 U	0.25	600	376
ND<0.5 U	ND<0.25 U	0.25	601	376
15	ND<0.25 U	14.75	602	376
ND<0.5 U	ND<0.25 U	0.25	603	376
ND<0.5 U	ND<0.25 U	0.25	604	376
ND<0.5 U	ND<0.25 U	0.25	605	376
ND<0.5 U	ND<0.25 U	0.25	606	376
ND<0.25 U	ND<0.25 U	0	606	376
ND<0.5 U	ND<0.25 U	0.25	607	376
ND<0.5 U	ND<0.25 U	0.25	608	376
ND<0.5 U	ND<0.25 U	0.25	609	376
ND<0.5 U	ND<0.25 U	0.25	610	376
ND<0.5 U	ND<0.25 U	0.25	611	376
ND<0.5 U	ND<0.25 U	0.25	612	376
ND<0.5 U	ND<0.25 U	0.25	613	376
ND<0.5 U	ND<0.25 U	0.25	614	376
ND<0.5 U	ND<0.25 U	0.25	615	376
ND<0.5 U	ND<0.25 U	0.25	616	376
ND<0.5 U	ND<0.25 U	0.25	617	376
ND<0.5 U	ND<0.25 U	0.25	618	376
ND<0.5 U	ND<0.25 U	0.25	619	376
ND<0.5 U	ND<0.25 U	0.25	620	376
ND<0.5 U	ND<0.25 U	0.25	621	376
ND<0.5 U	ND<0.25 U	0.25	622	376
ND<0.5 U	ND<0.25 U	0.25	623	376
3.9	ND<0.25 U	3.65	624	376
ND<0.5 U	ND<0.25 U	0.25	625	376
ND<0.5 U	ND<0.25 U	0.25	626	376
ND<0.5 U	ND<0.25 U	0.25	627	376
1.8	ND<0.25 U	1.55	628	376
ND<0.5 U	ND<0.25 U	0.25	629	376
ND<0.5 U	ND<0.25 U	0.25	630	376
1.9	ND<0.25 U	1.65	631	376
ND<0.5 U	ND<0.25 U	0.25	632	376
ND<0.5 U	ND<0.25 U	0.25	633	376
15	ND<0.25 U	14.75	634	376
ND<0.5 U	ND<0.25 U	0.25	635	376
ND<0.5 U	ND<0.25 U	0.25	636	376
ND<0.5 U	ND<0.25 U	0.25	637	376
ND<0.5 U	ND<0.25 U	0.25	638	376
ND<0.5 U	ND<0.25 U	0.25	639	376
ND<0.5 U	ND<0.25 U	0.25	640	376

ND<0.5 U	ND<0.25 U	0.25	641	376
ND<0.5 U	ND<0.25 U	0.25	642	376
ND<0.5 U	ND<0.25 U	0.25	643	376
ND<0.5 U	ND<0.25 U	0.25	644	376
ND<0.5 U	ND<0.25 U	0.25	645	376
ND<0.5 U	ND<0.25 U	0.25	646	376
ND<0.5 U	ND<0.25 U	0.25	647	376
ND<0.5 U	ND<0.25 U	0.25	648	376
ND<0.5 U	ND<0.25 U	0.25	649	376
ND<0.5 U	ND<0.25 U	0.25	650	376
ND<0.5 U	ND<0.25 U	0.25	651	376
ND<0.5 U	ND<0.25 U	0.25	652	376
ND<0.5 U	ND<0.25 U	0.25	653	376
ND<0.5 U	ND<0.25 U	0.25	654	376
ND<0.5 U	ND<0.25 U	0.25	655	376
3.9	ND<0.25 U	3.65	656	376
ND<0.5 U	ND<0.25 U	0.25	657	376
ND<0.5 U	ND<0.25 U	0.25	658	376
ND<0.5 U	ND<0.25 U	0.25	659	376
1.8	ND<0.25 U	1.55	660	376
ND<0.5 U	ND<0.25 U	0.25	661	376
ND<0.5 U	ND<0.25 U	0.25	662	376
1.9	ND<0.25 U	1.65	663	376
ND<0.5 U	ND<0.25 U	0.25	664	376
ND<0.5 U	ND<0.25 U	0.25	665	376
15	ND<0.25 U	14.75	666	376
ND<0.5 U	ND<0.25 U	0.25	667	376
ND<0.5 U	ND<0.25 U	0.25	668	376
ND<0.5 U	ND<0.25 U	0.25	669	376
ND<0.5 U	ND<0.25 U	0.25	670	376

ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
ND<0.5 U	ND<0.5 U	0	670	376
3.9	ND<0.5 U	3.4	671	376
ND<0.5 U	ND<0.5 U	0	671	376
ND<0.5 U	ND<0.5 U	0	671	376
ND<0.5 U	ND<0.5 U	0	671	376
1.8	ND<0.5 U	1.3	672	376
ND<0.5 U	ND<0.5 U	0	672	376
ND<0.5 U	ND<0.5 U	0	672	376
1.9	ND<0.5 U	1.4	673	376
ND<0.5 U	ND<0.5 U	0	673	376
ND<0.5 U	ND<0.5 U	0	673	376

15	ND<0.5 U	14.5	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
ND<0.5 U	ND<0.5 U	0	674	376
3.9	ND<0.5 U	3.4	675	376
ND<0.5 U	ND<0.5 U	0	675	376
ND<0.5 U	ND<0.5 U	0	675	376
ND<0.5 U	ND<0.5 U	0	675	376
1.8	ND<0.5 U	1.3	676	376
ND<0.5 U	ND<0.5 U	0	676	376
ND<0.5 U	ND<0.5 U	0	676	376
1.9	ND<0.5 U	1.4	677	376
ND<0.5 U	ND<0.5 U	0	677	376
ND<0.5 U	ND<0.5 U	0	677	376
15	ND<0.5 U	14.5	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
ND<0.5 U	ND<0.5 U	0	678	376
3.9	ND<0.5 U	3.4	679	376
ND<0.5 U	ND<0.5 U	0	679	376
ND<0.5 U	ND<0.5 U	0	679	376
ND<0.5 U	ND<0.5 U	0	679	376
1.8	ND<0.5 U	1.3	680	376
ND<0.5 U	ND<0.5 U	0	680	376

ND<0.5 U	ND<0.5 U	0	680	376
1.9	ND<0.5 U	1.4	681	376
ND<0.5 U	ND<0.5 U	0	681	376
ND<0.5 U	ND<0.5 U	0	681	376
15	ND<0.5 U	14.5	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
ND<0.5 U	ND<0.5 U	0	682	376
3.9	ND<0.5 U	3.4	683	376
ND<0.5 U	ND<0.5 U	0	683	376
ND<0.5 U	ND<0.5 U	0	683	376
ND<0.5 U	ND<0.5 U	0	683	376
1.8	ND<0.5 U	1.3	684	376
ND<0.5 U	ND<0.5 U	0	684	376
ND<0.5 U	ND<0.5 U	0	684	376
1.9	ND<0.5 U	1.4	685	376
ND<0.5 U	ND<0.5 U	0	685	376
ND<0.5 U	ND<0.5 U	0	685	376
15	ND<0.5 U	14.5	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
ND<0.5 U	ND<0.5 U	0	686	376
3.9	ND<0.5 U	3.4	687	376
ND<0.5 U	ND<0.5 U	0	687	376
ND<0.5 U	ND<0.5 U	0	687	376
ND<0.5 U	ND<0.5 U	0	687	376
1.8	ND<0.5 U	1.3	688	376
ND<0.5 U	ND<0.5 U	0	688	376

ND<0.5 U	ND<0.5 U	0	688	376
1.9	ND<0.5 U	1.4	689	376
ND<0.5 U	ND<0.5 U	0	689	376
ND<0.5 U	ND<0.5 U	0	689	376
15	ND<0.5 U	14.5	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
ND<0.5 U	ND<0.5 U	0	690	376
3.9	ND<0.5 U	3.4	691	376
ND<0.5 U	ND<0.5 U	0	691	376
ND<0.5 U	ND<0.5 U	0	691	376
ND<0.5 U	ND<0.5 U	0	691	376
1.8	ND<0.5 U	1.3	692	376
ND<0.5 U	ND<0.5 U	0	692	376
ND<0.5 U	ND<0.5 U	0	692	376
1.9	ND<0.5 U	1.4	693	376
ND<0.5 U	ND<0.5 U	0	693	376
ND<0.5 U	ND<0.5 U	0	693	376
15	ND<0.5 U	14.5	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
ND<0.5 U	ND<0.5 U	0	694	376
3.9	ND<0.5 U	3.4	695	376
ND<0.5 U	ND<0.5 U	0	695	376
ND<0.5 U	ND<0.5 U	0	695	376
ND<0.5 U	ND<0.5 U	0	695	376
1.8	ND<0.5 U	1.3	696	376
ND<0.5 U	ND<0.5 U	0	696	376
ND<0.5 U	ND<0.5 U	0	696	376
1.9	ND<0.5 U	1.4	697	376
ND<0.5 U	ND<0.5 U	0	697	376
ND<0.5 U	ND<0.5 U	0	697	376

15	ND<0.5 U	14.5	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
ND<0.5 U	ND<0.5 U	0	698	376
3.9	ND<0.5 U	3.4	699	376
ND<0.5 U	ND<0.5 U	0	699	376
ND<0.5 U	ND<0.5 U	0	699	376
ND<0.5 U	ND<0.5 U	0	699	376
1.8	ND<0.5 U	1.3	700	376
ND<0.5 U	ND<0.5 U	0	700	376
ND<0.5 U	ND<0.5 U	0	700	376
1.9	ND<0.5 U	1.4	701	376
ND<0.5 U	ND<0.5 U	0	701	376
ND<0.5 U	ND<0.5 U	0	701	376
15	ND<0.5 U	14.5	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
ND<0.5 U	ND<0.5 U	0	702	376
3.9	ND<0.5 U	3.4	703	376
ND<0.5 U	ND<0.5 U	0	703	376
ND<0.5 U	ND<0.5 U	0	703	376
ND<0.5 U	ND<0.5 U	0	703	376
1.8	ND<0.5 U	1.3	704	376
ND<0.5 U	ND<0.5 U	0	704	376
ND<0.5 U	ND<0.5 U	0	704	376
1.9	ND<0.5 U	1.4	705	376
ND<0.5 U	ND<0.5 U	0	705	376
ND<0.5 U	ND<0.5 U	0	705	376
15	ND<0.5 U	14.5	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376

ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
ND<0.5 U	ND<0.5 U	0	706	376
3.9	ND<0.5 U	3.4	707	376
ND<0.5 U	ND<0.5 U	0	707	376
ND<0.5 U	ND<0.5 U	0	707	376
ND<0.5 U	ND<0.5 U	0	707	376
1.8	ND<0.5 U	1.3	708	376
ND<0.5 U	ND<0.5 U	0	708	376
ND<0.5 U	ND<0.5 U	0	708	376
1.9	ND<0.5 U	1.4	709	376
ND<0.5 U	ND<0.5 U	0	709	376
ND<0.5 U	ND<0.5 U	0	709	376
15	ND<0.5 U	14.5	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
ND<0.5 U	ND<0.5 U	0	710	376
3.9	ND<0.5 U	3.4	711	376
ND<0.5 U	ND<0.5 U	0	711	376
ND<0.5 U	ND<0.5 U	0	711	376
ND<0.5 U	ND<0.5 U	0	711	376
1.8	ND<0.5 U	1.3	712	376
ND<0.5 U	ND<0.5 U	0	712	376
ND<0.5 U	ND<0.5 U	0	712	376
1.9	ND<0.5 U	1.4	713	376
ND<0.5 U	ND<0.5 U	0	713	376
ND<0.5 U	ND<0.5 U	0	713	376
15	ND<0.5 U	14.5	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
ND<0.5 U	ND<0.5 U	0	714	376
3.9	ND<0.5 U	3.4	715	376
ND<0.5 U	ND<0.5 U	0	715	376
ND<0.5 U	ND<0.5 U	0	715	376
ND<0.5 U	ND<0.5 U	0	715	376
1.8	ND<0.5 U	1.3	716	376
ND<0.5 U	ND<0.5 U	0	716	376
ND<0.5 U	ND<0.5 U	0	716	376
1.9	ND<0.5 U	1.4	717	376
ND<0.5 U	ND<0.5 U	0	717	376

ND<0.5 U	ND<0.5 U	0	717	376
15	ND<0.5 U	14.5	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
ND<0.5 U	ND<0.5 U	0	718	376
3.9	ND<0.5 U	3.4	719	376
ND<0.5 U	ND<0.5 U	0	719	376
ND<0.5 U	ND<0.5 U	0	719	376
ND<0.5 U	ND<0.5 U	0	719	376
1.8	ND<0.5 U	1.3	720	376
ND<0.5 U	ND<0.5 U	0	720	376
ND<0.5 U	ND<0.5 U	0	720	376
1.9	ND<0.5 U	1.4	721	376
ND<0.5 U	ND<0.5 U	0	721	376
ND<0.5 U	ND<0.5 U	0	721	376
15	ND<0.5 U	14.5	722	376
ND<0.5 U	ND<0.5 U	0	722	376
ND<0.5 U	ND<0.5 U	0	722	376
ND<0.5 U	ND<0.5 U	0	722	376
ND<0.5 U	ND<0.5 U	0	722	376
ND<0.5 U	ND<0.5 U	0	722	376
ND<0.5 U	ND<0.5 U	0	722	376
ND<0.5 U	ND<0.5 U	0	722	376
3.9	ND<0.5 U	3.4	723	376
ND<0.5 U	ND<0.5 U	0	723	376
ND<0.5 U	ND<0.5 U	0	723	376
ND<0.5 U	ND<0.5 U	0	723	376
1.8	ND<0.5 U	1.3	724	376
ND<0.5 U	ND<0.5 U	0	724	376
ND<0.5 U	ND<0.5 U	0	724	376
1.9	ND<0.5 U	1.4	725	376
ND<0.5 U	ND<0.5 U	0	725	376
ND<0.5 U	ND<0.5 U	0	725	376
15	ND<0.5 U	14.5	726	376
ND<0.5 U	ND<0.5 U	0	726	376
ND<0.5 U	ND<0.5 U	0	726	376
ND<0.5 U	ND<0.5 U	0	726	376
ND<0.5 U	ND<0.5 U	0	726	376
ND<0.5 U	ND<0.5 U	0	726	376
ND<0.5 U	ND<0.5 U	0	726	376
3.9	ND<0.5 U	3.4	727	376
ND<0.5 U	ND<0.5 U	0	727	376
ND<0.5 U	ND<0.5 U	0	727	376
ND<0.5 U	ND<0.5 U	0	727	376
1.8	ND<0.5 U	1.3	728	376
ND<0.5 U	ND<0.5 U	0	728	376
ND<0.5 U	ND<0.5 U	0	728	376
1.9	ND<0.5 U	1.4	729	376
ND<0.5 U	ND<0.5 U	0	729	376

ND<0.5 U	ND<0.5 U	0	729	376
15	ND<0.5 U	14.5	730	376
ND<0.5 U	ND<0.5 U	0	730	376
ND<0.5 U	ND<0.5 U	0	730	376
ND<0.5 U	ND<0.5 U	0	730	376
ND<0.5 U	ND<0.5 U	0	730	376
ND<0.5 U	ND<0.5 U	0	730	376
3.9	ND<0.5 U	3.4	731	376
ND<0.5 U	ND<0.5 U	0	731	376
ND<0.5 U	ND<0.5 U	0	731	376
ND<0.5 U	ND<0.5 U	0	731	376
1.8	ND<0.5 U	1.3	732	376
ND<0.5 U	ND<0.5 U	0	732	376
ND<0.5 U	ND<0.5 U	0	732	376
1.9	ND<0.5 U	1.4	733	376
ND<0.5 U	ND<0.5 U	0	733	376
ND<0.5 U	ND<0.5 U	0	733	376
15	ND<0.5 U	14.5	734	376
ND<0.5 U	ND<0.5 U	0	734	376
ND<0.5 U	ND<0.5 U	0	734	376
ND<0.5 U	ND<0.5 U	0	734	376
ND<0.5 U	ND<0.5 U	0	734	376
3.9	ND<0.5 U	3.4	735	376
ND<0.5 U	ND<0.5 U	0	735	376
ND<0.5 U	ND<0.5 U	0	735	376
ND<0.5 U	ND<0.5 U	0	735	376
1.8	ND<0.5 U	1.3	736	376
ND<0.5 U	ND<0.5 U	0	736	376
ND<0.5 U	ND<0.5 U	0	736	376
1.9	ND<0.5 U	1.4	737	376
ND<0.5 U	ND<0.5 U	0	737	376
ND<0.5 U	ND<0.5 U	0	737	376
15	ND<0.5 U	14.5	738	376
ND<0.5 U	ND<0.5 U	0	738	376
ND<0.5 U	ND<0.5 U	0	738	376
ND<0.5 U	ND<0.5 U	0	738	376
ND<0.5 U	ND<0.5 U	0	738	376
ND<0.5 U	3.9	-3.4	738	377
ND<0.5 U	3.9	-3.4	738	378
ND<0.5 U	3.9	-3.4	738	379
1.8	3.9	-2.1	738	380
ND<0.5 U	3.9	-3.4	738	381
ND<0.5 U	3.9	-3.4	738	382
1.9	3.9	-2	738	383
ND<0.5 U	3.9	-3.4	738	384
ND<0.5 U	3.9	-3.4	738	385
15	3.9	11.1	739	385
ND<0.5 U	3.9	-3.4	739	386
ND<0.5 U	3.9	-3.4	739	387
ND<0.5 U	3.9	-3.4	739	388
ND<0.5 U	3.9	-3.4	739	389
ND<0.5 U	ND<0.5 U	0	739	389
ND<0.5 U	ND<0.5 U	0	739	389

1.8	ND<0.5 U	1.3	740	389
ND<0.5 U	ND<0.5 U	0	740	389
ND<0.5 U	ND<0.5 U	0	740	389
1.9	ND<0.5 U	1.4	741	389
ND<0.5 U	ND<0.5 U	0	741	389
ND<0.5 U	ND<0.5 U	0	741	389
15	ND<0.5 U	14.5	742	389
ND<0.5 U	ND<0.5 U	0	742	389
ND<0.5 U	ND<0.5 U	0	742	389
ND<0.5 U	ND<0.5 U	0	742	389
ND<0.5 U	ND<0.5 U	0	742	389
ND<0.5 U	ND<0.5 U	0	742	389
1.8	ND<0.5 U	1.3	743	389
ND<0.5 U	ND<0.5 U	0	743	389
ND<0.5 U	ND<0.5 U	0	743	389
1.9	ND<0.5 U	1.4	744	389
ND<0.5 U	ND<0.5 U	0	744	389
ND<0.5 U	ND<0.5 U	0	744	389
15	ND<0.5 U	14.5	745	389
ND<0.5 U	ND<0.5 U	0	745	389
ND<0.5 U	ND<0.5 U	0	745	389
ND<0.5 U	ND<0.5 U	0	745	389
ND<0.5 U	ND<0.5 U	0	745	389
1.8	ND<0.5 U	1.3	746	389
ND<0.5 U	ND<0.5 U	0	746	389
ND<0.5 U	ND<0.5 U	0	746	389
1.9	ND<0.5 U	1.4	747	389
ND<0.5 U	ND<0.5 U	0	747	389
ND<0.5 U	ND<0.5 U	0	747	389
15	ND<0.5 U	14.5	748	389
ND<0.5 U	ND<0.5 U	0	748	389
ND<0.5 U	ND<0.5 U	0	748	389
ND<0.5 U	ND<0.5 U	0	748	389
ND<0.5 U	ND<0.5 U	0	748	389
ND<0.5 U	1.8	-1.3	748	390
ND<0.5 U	1.8	-1.3	748	391
1.9	1.8	0.1	749	391
ND<0.5 U	1.8	-1.3	749	392
ND<0.5 U	1.8	-1.3	749	393
15	1.8	13.2	750	393
ND<0.5 U	1.8	-1.3	750	394
ND<0.5 U	1.8	-1.3	750	395
ND<0.5 U	1.8	-1.3	750	396
ND<0.5 U	1.8	-1.3	750	397
ND<0.5 U	ND<0.5 U	0	750	397
1.9	ND<0.5 U	1.4	751	397
ND<0.5 U	ND<0.5 U	0	751	397
ND<0.5 U	ND<0.5 U	0	751	397
15	ND<0.5 U	14.5	752	397
ND<0.5 U	ND<0.5 U	0	752	397
ND<0.5 U	ND<0.5 U	0	752	397
ND<0.5 U	ND<0.5 U	0	752	397
ND<0.5 U	ND<0.5 U	0	752	397

1.9	ND<0.5 U	1.4	753	397
ND<0.5 U	ND<0.5 U	0	753	397
ND<0.5 U	ND<0.5 U	0	753	397
15	ND<0.5 U	14.5	754	397
ND<0.5 U	ND<0.5 U	0	754	397
ND<0.5 U	ND<0.5 U	0	754	397
ND<0.5 U	ND<0.5 U	0	754	397
ND<0.5 U	ND<0.5 U	0	754	397
ND<0.5 U	1.9	-1.4	754	398
ND<0.5 U	1.9	-1.4	754	399
15	1.9	13.1	755	399
ND<0.5 U	1.9	-1.4	755	400
ND<0.5 U	1.9	-1.4	755	401
ND<0.5 U	1.9	-1.4	755	402
ND<0.5 U	1.9	-1.4	755	403
ND<0.5 U	ND<0.5 U	0	755	403
15	ND<0.5 U	14.5	756	403
ND<0.5 U	ND<0.5 U	0	756	403
ND<0.5 U	ND<0.5 U	0	756	403
ND<0.5 U	ND<0.5 U	0	756	403
ND<0.5 U	ND<0.5 U	0	756	403
15	ND<0.5 U	14.5	757	403
ND<0.5 U	ND<0.5 U	0	757	403
ND<0.5 U	ND<0.5 U	0	757	403
ND<0.5 U	ND<0.5 U	0	757	403
ND<0.5 U	ND<0.5 U	0	757	403
ND<0.5 U	15	-14.5	757	404
ND<0.5 U	15	-14.5	757	405
ND<0.5 U	15	-14.5	757	406
ND<0.5 U	15	-14.5	757	407
ND<0.5 U	ND<0.5 U	0	757	407
ND<0.5 U	ND<0.5 U	0	757	407
ND<0.5 U	ND<0.5 U	0	757	407
ND<0.5 U	ND<0.5 U	0	757	407
ND<0.5 U	ND<0.5 U	0	757	407
ND<0.5 U	ND<0.5 U	0	757	407

S Statistic = 757 - 407 = 350

Tied Group	**Value**	**Members**
1	0.5	40
2	0.25	17

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1

4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1

```
10/29/2018                    1
1/30/2019                     1
4/29/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 143208
B = 0
C = 63360
D = 0
E = 1832
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 23244
Z-Score = 2.28913
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.28913| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30
ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34

ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35

ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35

ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35
ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35

ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.25 U	ND<0.25 U	0	56	35
ND<0.25 U	ND<0.25 U	0	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35
ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.25 U	ND<0.25 U	0	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35

ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

S Statistic = 98 - 35 = 63

Tied Group	Value	Members
1	0.5	19
2	0.25	7

Time Period	Observations
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 15504
B = 0
C = 6024

D = 0
E = 384
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 1197
Z-Score = 1.79203
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.79203| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
0.56	ND<0.5 U	0.06	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.5 U	ND<0.5 U	0	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
0.56	ND<0.5 U	0.06	2	11
ND<0.25 U	ND<0.5 U	-0.25	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12

ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.5 U	ND<0.5 U	0	2	12
ND<0.25 U	ND<0.5 U	-0.25	2	13
ND<0.25 U	ND<0.5 U	-0.25	2	14
ND<0.25 U	ND<0.5 U	-0.25	2	15
ND<0.25 U	ND<0.5 U	-0.25	2	16
ND<0.25 U	ND<0.5 U	-0.25	2	17
0.56	ND<0.5 U	0.06	3	17
ND<0.25 U	ND<0.5 U	-0.25	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.5 U	ND<0.5 U	0	3	18
ND<0.25 U	ND<0.5 U	-0.25	3	19
ND<0.25 U	ND<0.5 U	-0.25	3	20
ND<0.25 U	ND<0.5 U	-0.25	3	21
ND<0.25 U	ND<0.5 U	-0.25	3	22
ND<0.25 U	ND<0.5 U	-0.25	3	23
0.56	ND<0.5 U	0.06	4	23
ND<0.25 U	ND<0.5 U	-0.25	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.5 U	ND<0.5 U	0	4	24
ND<0.25 U	ND<0.5 U	-0.25	4	25
ND<0.25 U	ND<0.5 U	-0.25	4	26

ND<0.25 U	ND<0.5 U	-0.25	4	27
ND<0.25 U	ND<0.5 U	-0.25	4	28
ND<0.25 U	ND<0.5 U	-0.25	4	29
0.56	ND<0.5 U	0.06	5	29
ND<0.25 U	ND<0.5 U	-0.25	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30
ND<0.5 U	ND<0.5 U	0	5	30

ND<0.25 U	ND<0.25 U	0	5	30
ND<0.25 U	ND<0.25 U	0	5	30
ND<0.25 U	ND<0.25 U	0	5	30
ND<0.25 U	ND<0.25 U	0	5	30
0.56	ND<0.25 U	0.31	6	30
ND<0.25 U	ND<0.25 U	0	6	30
ND<0.5 U	ND<0.25 U	0.25	7	30
ND<0.5 U	ND<0.25 U	0.25	8	30
ND<0.5 U	ND<0.25 U	0.25	9	30
ND<0.5 U	ND<0.25 U	0.25	10	30
ND<0.5 U	ND<0.25 U	0.25	11	30
ND<0.5 U	ND<0.25 U	0.25	12	30
ND<0.5 U	ND<0.25 U	0.25	13	30
ND<0.5 U	ND<0.25 U	0.25	14	30
ND<0.5 U	ND<0.25 U	0.25	15	30
ND<0.5 U	ND<0.25 U	0.25	16	30
ND<0.5 U	ND<0.25 U	0.25	17	30
ND<0.5 U	ND<0.25 U	0.25	18	30
ND<0.5 U	ND<0.25 U	0.25	19	30
ND<0.5 U	ND<0.25 U	0.25	20	30
ND<0.5 U	ND<0.25 U	0.25	21	30

ND<0.25 U	ND<0.25 U	0	21	30
ND<0.25 U	ND<0.25 U	0	21	30
ND<0.25 U	ND<0.25 U	0	21	30
0.56	ND<0.25 U	0.31	22	30
ND<0.25 U	ND<0.25 U	0	22	30
ND<0.5 U	ND<0.25 U	0.25	23	30
ND<0.5 U	ND<0.25 U	0.25	24	30
ND<0.5 U	ND<0.25 U	0.25	25	30
ND<0.5 U	ND<0.25 U	0.25	26	30
ND<0.5 U	ND<0.25 U	0.25	27	30
ND<0.5 U	ND<0.25 U	0.25	28	30
ND<0.5 U	ND<0.25 U	0.25	29	30
ND<0.5 U	ND<0.25 U	0.25	30	30
ND<0.5 U	ND<0.25 U	0.25	31	30

ND<0.5 U	ND<0.25 U	0.25	32	30
ND<0.5 U	ND<0.25 U	0.25	33	30
ND<0.5 U	ND<0.25 U	0.25	34	30
ND<0.5 U	ND<0.25 U	0.25	35	30
ND<0.5 U	ND<0.25 U	0.25	36	30
ND<0.5 U	ND<0.25 U	0.25	37	30
ND<0.25 U	ND<0.25 U	0	37	30
ND<0.25 U	ND<0.25 U	0	37	30
0.56	ND<0.25 U	0.31	38	30
ND<0.25 U	ND<0.25 U	0	38	30
ND<0.5 U	ND<0.25 U	0.25	39	30
ND<0.5 U	ND<0.25 U	0.25	40	30
ND<0.5 U	ND<0.25 U	0.25	41	30
ND<0.5 U	ND<0.25 U	0.25	42	30
ND<0.5 U	ND<0.25 U	0.25	43	30
ND<0.5 U	ND<0.25 U	0.25	44	30
ND<0.5 U	ND<0.25 U	0.25	45	30
ND<0.5 U	ND<0.25 U	0.25	46	30
ND<0.5 U	ND<0.25 U	0.25	47	30
ND<0.5 U	ND<0.25 U	0.25	48	30
ND<0.5 U	ND<0.25 U	0.25	49	30
ND<0.5 U	ND<0.25 U	0.25	50	30
ND<0.5 U	ND<0.25 U	0.25	51	30
ND<0.5 U	ND<0.25 U	0.25	52	30
ND<0.5 U	ND<0.25 U	0.25	53	30
ND<0.25 U	ND<0.25 U	0	53	30
0.56	ND<0.25 U	0.31	54	30
ND<0.25 U	ND<0.25 U	0	54	30
ND<0.5 U	ND<0.25 U	0.25	55	30
ND<0.5 U	ND<0.25 U	0.25	56	30
ND<0.5 U	ND<0.25 U	0.25	57	30
ND<0.5 U	ND<0.25 U	0.25	58	30
ND<0.5 U	ND<0.25 U	0.25	59	30
ND<0.5 U	ND<0.25 U	0.25	60	30
ND<0.5 U	ND<0.25 U	0.25	61	30
ND<0.5 U	ND<0.25 U	0.25	62	30
ND<0.5 U	ND<0.25 U	0.25	63	30
ND<0.5 U	ND<0.25 U	0.25	64	30
ND<0.5 U	ND<0.25 U	0.25	65	30
ND<0.5 U	ND<0.25 U	0.25	66	30
ND<0.5 U	ND<0.25 U	0.25	67	30
ND<0.5 U	ND<0.25 U	0.25	68	30
ND<0.5 U	ND<0.25 U	0.25	69	30
0.56	ND<0.25 U	0.31	70	30
ND<0.25 U	ND<0.25 U	0	70	30
ND<0.5 U	ND<0.25 U	0.25	71	30
ND<0.5 U	ND<0.25 U	0.25	72	30
ND<0.5 U	ND<0.25 U	0.25	73	30
ND<0.5 U	ND<0.25 U	0.25	74	30
ND<0.5 U	ND<0.25 U	0.25	75	30
ND<0.5 U	ND<0.25 U	0.25	76	30
ND<0.5 U	ND<0.25 U	0.25	77	30
ND<0.5 U	ND<0.25 U	0.25	78	30
ND<0.5 U	ND<0.25 U	0.25	79	30

ND<0.5 U	ND<0.25 U	0.25	80	30
ND<0.5 U	ND<0.25 U	0.25	81	30
ND<0.5 U	ND<0.25 U	0.25	82	30
ND<0.5 U	ND<0.25 U	0.25	83	30
ND<0.5 U	ND<0.25 U	0.25	84	30
ND<0.5 U	ND<0.25 U	0.25	85	30
ND<0.25 U	0.56	-0.31	85	31
ND<0.5 U	0.56	-0.06	85	32
ND<0.5 U	0.56	-0.06	85	33
ND<0.5 U	0.56	-0.06	85	34
ND<0.5 U	0.56	-0.06	85	35
ND<0.5 U	0.56	-0.06	85	36
ND<0.5 U	0.56	-0.06	85	37
ND<0.5 U	0.56	-0.06	85	38
ND<0.5 U	0.56	-0.06	85	39
ND<0.5 U	0.56	-0.06	85	40
ND<0.5 U	0.56	-0.06	85	41
ND<0.5 U	0.56	-0.06	85	42
ND<0.5 U	0.56	-0.06	85	43
ND<0.5 U	0.56	-0.06	85	44
ND<0.5 U	0.56	-0.06	85	45
ND<0.5 U	0.56	-0.06	85	46
ND<0.5 U	ND<0.25 U	0.25	86	46
ND<0.5 U	ND<0.25 U	0.25	87	46
ND<0.5 U	ND<0.25 U	0.25	88	46
ND<0.5 U	ND<0.25 U	0.25	89	46
ND<0.5 U	ND<0.25 U	0.25	90	46
ND<0.5 U	ND<0.25 U	0.25	91	46
ND<0.5 U	ND<0.25 U	0.25	92	46
ND<0.5 U	ND<0.25 U	0.25	93	46
ND<0.5 U	ND<0.25 U	0.25	94	46
ND<0.5 U	ND<0.25 U	0.25	95	46
ND<0.5 U	ND<0.25 U	0.25	96	46
ND<0.5 U	ND<0.25 U	0.25	97	46
ND<0.5 U	ND<0.25 U	0.25	98	46
ND<0.5 U	ND<0.25 U	0.25	99	46
ND<0.5 U	ND<0.25 U	0.25	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46
ND<0.5 U	ND<0.5 U	0	100	46

ND<0.5 U	ND<0.5 U	0	100	46

S Statistic = 100 - 46 = 54

Tied Group	Value	Members
1	0.5	20
2	0.25	6

Time Period	Observations
11/24/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 17610
B = 0
C = 6960
D = 0
E = 410
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 1322.67
Z-Score = 1.45731
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.45731| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30

ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34
ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35

ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35

ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35
ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.25 U	ND<0.25 U	0	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.25 U	0.25	99	35
ND<0.5 U	ND<0.25 U	0.25	100	35
ND<0.5 U	ND<0.25 U	0.25	101	35
ND<0.5 U	ND<0.25 U	0.25	102	35
ND<0.5 U	ND<0.25 U	0.25	103	35
ND<0.5 U	ND<0.25 U	0.25	104	35
ND<0.5 U	ND<0.25 U	0.25	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

S Statistic = 105 - 35 = 70

Tied Group	Value	Members
1	0.5	20
2	0.25	7

Time Period	Observations
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 17898
B = 0
C = 7050
D = 0
E = 422
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 1306.67
Z-Score = 1.90883
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.90883| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.5 U	ND<0.5 U	0	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
ND<0.25 U	ND<0.5 U	-0.25	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
ND<0.25 U	ND<0.5 U	-0.25	1	12
ND<0.25 U	ND<0.5 U	-0.25	1	13
ND<0.25 U	ND<0.5 U	-0.25	1	14
ND<0.25 U	ND<0.5 U	-0.25	1	15
ND<0.25 U	ND<0.5 U	-0.25	1	16
ND<0.25 U	ND<0.5 U	-0.25	1	17
ND<0.25 U	ND<0.5 U	-0.25	1	18
ND<0.25 U	ND<0.5 U	-0.25	1	19
ND<0.25 U	ND<0.5 U	-0.25	1	20
ND<0.25 U	ND<0.5 U	-0.25	1	21
ND<0.25 U	ND<0.5 U	-0.25	1	22
ND<0.25 U	ND<0.5 U	-0.25	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23

ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<1 U	ND<0.5 U	0.5	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.25 U	ND<0.5 U	-0.25	2	24
ND<0.25 U	ND<0.5 U	-0.25	2	25
ND<0.5 U	ND<0.5 U	0	2	25
ND<0.25 U	ND<0.5 U	-0.25	2	26
ND<0.25 U	ND<0.5 U	-0.25	2	27
ND<0.25 U	ND<0.5 U	-0.25	2	28
ND<0.25 U	ND<0.5 U	-0.25	2	29
ND<0.25 U	ND<0.5 U	-0.25	2	30
ND<0.25 U	ND<0.5 U	-0.25	2	31
ND<0.25 U	ND<0.5 U	-0.25	2	32
ND<0.25 U	ND<0.5 U	-0.25	2	33
ND<0.25 U	ND<0.5 U	-0.25	2	34
ND<0.25 U	ND<0.5 U	-0.25	2	35
ND<0.25 U	ND<0.5 U	-0.25	2	36
ND<0.25 U	ND<0.5 U	-0.25	2	37
ND<0.25 U	ND<0.5 U	-0.25	2	38
ND<0.25 U	ND<0.5 U	-0.25	2	39
ND<0.25 U	ND<0.5 U	-0.25	2	40
ND<0.25 U	ND<0.5 U	-0.25	2	41
ND<0.25 U	ND<0.5 U	-0.25	2	42
ND<0.25 U	ND<0.5 U	-0.25	2	43
ND<0.25 U	ND<0.5 U	-0.25	2	44
ND<0.25 U	ND<0.5 U	-0.25	2	45
ND<0.25 U	ND<0.5 U	-0.25	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<1 U	-0.5	2	47

ND<0.5 U	ND<1 U	-0.5	2	48
ND<0.5 U	ND<1 U	-0.5	2	49
ND<0.5 U	ND<1 U	-0.5	2	50
ND<0.5 U	ND<1 U	-0.5	2	51
ND<0.5 U	ND<1 U	-0.5	2	52
ND<0.25 U	ND<1 U	-0.75	2	53
ND<0.25 U	ND<1 U	-0.75	2	54
ND<0.5 U	ND<1 U	-0.5	2	55
ND<0.25 U	ND<1 U	-0.75	2	56
ND<0.25 U	ND<1 U	-0.75	2	57
ND<0.25 U	ND<1 U	-0.75	2	58
ND<0.25 U	ND<1 U	-0.75	2	59
ND<0.25 U	ND<1 U	-0.75	2	60
ND<0.25 U	ND<1 U	-0.75	2	61
ND<0.25 U	ND<1 U	-0.75	2	62
ND<0.25 U	ND<1 U	-0.75	2	63
ND<0.25 U	ND<1 U	-0.75	2	64
ND<0.25 U	ND<1 U	-0.75	2	65
ND<0.25 U	ND<1 U	-0.75	2	66
ND<0.25 U	ND<1 U	-0.75	2	67
ND<0.25 U	ND<1 U	-0.75	2	68
ND<0.25 U	ND<1 U	-0.75	2	69
ND<0.25 U	ND<1 U	-0.75	2	70
ND<0.25 U	ND<1 U	-0.75	2	71
ND<0.25 U	ND<1 U	-0.75	2	72
ND<0.25 U	ND<1 U	-0.75	2	73
ND<0.25 U	ND<1 U	-0.75	2	74
ND<0.25 U	ND<1 U	-0.75	2	75
ND<0.25 U	ND<1 U	-0.75	2	76
ND<0.5 U	ND<1 U	-0.5	2	77
ND<0.5 U	ND<1 U	-0.5	2	78
ND<0.5 U	ND<1 U	-0.5	2	79
ND<0.5 U	ND<1 U	-0.5	2	80
ND<0.5 U	ND<1 U	-0.5	2	81
ND<0.5 U	ND<1 U	-0.5	2	82
ND<0.5 U	ND<1 U	-0.5	2	83
ND<0.5 U	ND<1 U	-0.5	2	84
ND<0.5 U	ND<1 U	-0.5	2	85
ND<0.5 U	ND<1 U	-0.5	2	86
ND<0.5 U	ND<1 U	-0.5	2	87
ND<0.5 U	ND<1 U	-0.5	2	88
ND<0.5 U	ND<1 U	-0.5	2	89
ND<0.5 U	ND<1 U	-0.5	2	90
ND<0.5 U	ND<1 U	-0.5	2	91
ND<0.5 U	ND<1 U	-0.5	2	92
ND<0.5 U	ND<1 U	-0.5	2	93
ND<0.5 U	ND<1 U	-0.5	2	94
ND<0.5 U	ND<1 U	-0.5	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.25 U	ND<0.5 U	-0.25	2	96
ND<0.25 U	ND<0.5 U	-0.25	2	97
ND<0.5 U	ND<0.5 U	0	2	97

ND<0.25 U	ND<0.5 U	-0.25	2	98
ND<0.25 U	ND<0.5 U	-0.25	2	99
ND<0.25 U	ND<0.5 U	-0.25	2	100
ND<0.25 U	ND<0.5 U	-0.25	2	101
ND<0.25 U	ND<0.5 U	-0.25	2	102
ND<0.25 U	ND<0.5 U	-0.25	2	103
ND<0.25 U	ND<0.5 U	-0.25	2	104
ND<0.25 U	ND<0.5 U	-0.25	2	105
ND<0.25 U	ND<0.5 U	-0.25	2	106
ND<0.25 U	ND<0.5 U	-0.25	2	107
ND<0.25 U	ND<0.5 U	-0.25	2	108
ND<0.25 U	ND<0.5 U	-0.25	2	109
ND<0.25 U	ND<0.5 U	-0.25	2	110
ND<0.25 U	ND<0.5 U	-0.25	2	111
ND<0.25 U	ND<0.5 U	-0.25	2	112
ND<0.25 U	ND<0.5 U	-0.25	2	113
ND<0.25 U	ND<0.5 U	-0.25	2	114
ND<0.25 U	ND<0.5 U	-0.25	2	115
ND<0.25 U	ND<0.5 U	-0.25	2	116
ND<0.25 U	ND<0.5 U	-0.25	2	117
ND<0.25 U	ND<0.5 U	-0.25	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118

ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.25 U	ND<0.5 U	-0.25	2	119
ND<0.25 U	ND<0.5 U	-0.25	2	120
ND<0.5 U	ND<0.5 U	0	2	120
ND<0.25 U	ND<0.5 U	-0.25	2	121
ND<0.25 U	ND<0.5 U	-0.25	2	122
ND<0.25 U	ND<0.5 U	-0.25	2	123
ND<0.25 U	ND<0.5 U	-0.25	2	124
ND<0.25 U	ND<0.5 U	-0.25	2	125
ND<0.25 U	ND<0.5 U	-0.25	2	126
ND<0.25 U	ND<0.5 U	-0.25	2	127
ND<0.25 U	ND<0.5 U	-0.25	2	128
ND<0.25 U	ND<0.5 U	-0.25	2	129

ND<0.25 U	ND<0.5 U	-0.25	2	130
ND<0.25 U	ND<0.5 U	-0.25	2	131
ND<0.25 U	ND<0.5 U	-0.25	2	132
ND<0.25 U	ND<0.5 U	-0.25	2	133
ND<0.25 U	ND<0.5 U	-0.25	2	134
ND<0.25 U	ND<0.5 U	-0.25	2	135
ND<0.25 U	ND<0.5 U	-0.25	2	136
ND<0.25 U	ND<0.5 U	-0.25	2	137
ND<0.25 U	ND<0.5 U	-0.25	2	138
ND<0.25 U	ND<0.5 U	-0.25	2	139
ND<0.25 U	ND<0.5 U	-0.25	2	140
ND<0.25 U	ND<0.5 U	-0.25	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.25 U	ND<0.5 U	-0.25	2	142
ND<0.25 U	ND<0.5 U	-0.25	2	143
ND<0.5 U	ND<0.5 U	0	2	143
ND<0.25 U	ND<0.5 U	-0.25	2	144
ND<0.25 U	ND<0.5 U	-0.25	2	145
ND<0.25 U	ND<0.5 U	-0.25	2	146
ND<0.25 U	ND<0.5 U	-0.25	2	147
ND<0.25 U	ND<0.5 U	-0.25	2	148
ND<0.25 U	ND<0.5 U	-0.25	2	149
ND<0.25 U	ND<0.5 U	-0.25	2	150
ND<0.25 U	ND<0.5 U	-0.25	2	151
ND<0.25 U	ND<0.5 U	-0.25	2	152
ND<0.25 U	ND<0.5 U	-0.25	2	153
ND<0.25 U	ND<0.5 U	-0.25	2	154
ND<0.25 U	ND<0.5 U	-0.25	2	155
ND<0.25 U	ND<0.5 U	-0.25	2	156
ND<0.25 U	ND<0.5 U	-0.25	2	157
ND<0.25 U	ND<0.5 U	-0.25	2	158
ND<0.25 U	ND<0.5 U	-0.25	2	159
ND<0.25 U	ND<0.5 U	-0.25	2	160
ND<0.25 U	ND<0.5 U	-0.25	2	161
ND<0.25 U	ND<0.5 U	-0.25	2	162

ND<0.25 U	ND<0.5 U	-0.25	2	163
ND<0.25 U	ND<0.5 U	-0.25	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.25 U	ND<0.5 U	-0.25	2	165
ND<0.25 U	ND<0.5 U	-0.25	2	166
ND<0.5 U	ND<0.5 U	0	2	166
ND<0.25 U	ND<0.5 U	-0.25	2	167
ND<0.25 U	ND<0.5 U	-0.25	2	168
ND<0.25 U	ND<0.5 U	-0.25	2	169
ND<0.25 U	ND<0.5 U	-0.25	2	170
ND<0.25 U	ND<0.5 U	-0.25	2	171
ND<0.25 U	ND<0.5 U	-0.25	2	172
ND<0.25 U	ND<0.5 U	-0.25	2	173
ND<0.25 U	ND<0.5 U	-0.25	2	174
ND<0.25 U	ND<0.5 U	-0.25	2	175
ND<0.25 U	ND<0.5 U	-0.25	2	176
ND<0.25 U	ND<0.5 U	-0.25	2	177
ND<0.25 U	ND<0.5 U	-0.25	2	178
ND<0.25 U	ND<0.5 U	-0.25	2	179
ND<0.25 U	ND<0.5 U	-0.25	2	180
ND<0.25 U	ND<0.5 U	-0.25	2	181
ND<0.25 U	ND<0.5 U	-0.25	2	182
ND<0.25 U	ND<0.5 U	-0.25	2	183
ND<0.25 U	ND<0.5 U	-0.25	2	184
ND<0.25 U	ND<0.5 U	-0.25	2	185
ND<0.25 U	ND<0.5 U	-0.25	2	186
ND<0.25 U	ND<0.5 U	-0.25	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187

ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.25 U	ND<0.5 U	-0.25	2	188
ND<0.25 U	ND<0.5 U	-0.25	2	189
ND<0.5 U	ND<0.5 U	0	2	189
ND<0.25 U	ND<0.5 U	-0.25	2	190
ND<0.25 U	ND<0.5 U	-0.25	2	191
ND<0.25 U	ND<0.5 U	-0.25	2	192
ND<0.25 U	ND<0.5 U	-0.25	2	193
ND<0.25 U	ND<0.5 U	-0.25	2	194
ND<0.25 U	ND<0.5 U	-0.25	2	195
ND<0.25 U	ND<0.5 U	-0.25	2	196
ND<0.25 U	ND<0.5 U	-0.25	2	197
ND<0.25 U	ND<0.5 U	-0.25	2	198
ND<0.25 U	ND<0.5 U	-0.25	2	199
ND<0.25 U	ND<0.5 U	-0.25	2	200
ND<0.25 U	ND<0.5 U	-0.25	2	201
ND<0.25 U	ND<0.5 U	-0.25	2	202
ND<0.25 U	ND<0.5 U	-0.25	2	203
ND<0.25 U	ND<0.5 U	-0.25	2	204
ND<0.25 U	ND<0.5 U	-0.25	2	205
ND<0.25 U	ND<0.5 U	-0.25	2	206
ND<0.25 U	ND<0.5 U	-0.25	2	207
ND<0.25 U	ND<0.5 U	-0.25	2	208
ND<0.25 U	ND<0.5 U	-0.25	2	209
ND<0.25 U	ND<0.5 U	-0.25	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.25 U	ND<0.5 U	-0.25	2	211

ND<0.25 U	ND<0.5 U	-0.25	2	212
ND<0.5 U	ND<0.5 U	0	2	212
ND<0.25 U	ND<0.5 U	-0.25	2	213
ND<0.25 U	ND<0.5 U	-0.25	2	214
ND<0.25 U	ND<0.5 U	-0.25	2	215
ND<0.25 U	ND<0.5 U	-0.25	2	216
ND<0.25 U	ND<0.5 U	-0.25	2	217
ND<0.25 U	ND<0.5 U	-0.25	2	218
ND<0.25 U	ND<0.5 U	-0.25	2	219
ND<0.25 U	ND<0.5 U	-0.25	2	220
ND<0.25 U	ND<0.5 U	-0.25	2	221
ND<0.25 U	ND<0.5 U	-0.25	2	222
ND<0.25 U	ND<0.5 U	-0.25	2	223
ND<0.25 U	ND<0.5 U	-0.25	2	224
ND<0.25 U	ND<0.5 U	-0.25	2	225
ND<0.25 U	ND<0.5 U	-0.25	2	226
ND<0.25 U	ND<0.5 U	-0.25	2	227
ND<0.25 U	ND<0.5 U	-0.25	2	228
ND<0.25 U	ND<0.5 U	-0.25	2	229
ND<0.25 U	ND<0.5 U	-0.25	2	230
ND<0.25 U	ND<0.5 U	-0.25	2	231
ND<0.25 U	ND<0.5 U	-0.25	2	232
ND<0.25 U	ND<0.5 U	-0.25	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233

ND<0.25 U	ND<0.25 U	0	2	233
ND<0.5 U	ND<0.25 U	0.25	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233

ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.5 U	ND<0.25 U	0.25	4	233
ND<0.5 U	ND<0.25 U	0.25	5	233
ND<0.5 U	ND<0.25 U	0.25	6	233
ND<0.5 U	ND<0.25 U	0.25	7	233
ND<0.5 U	ND<0.25 U	0.25	8	233
ND<0.5 U	ND<0.25 U	0.25	9	233
ND<0.5 U	ND<0.25 U	0.25	10	233
ND<0.5 U	ND<0.25 U	0.25	11	233
ND<0.5 U	ND<0.25 U	0.25	12	233
ND<0.5 U	ND<0.25 U	0.25	13	233
ND<0.5 U	ND<0.25 U	0.25	14	233
ND<0.5 U	ND<0.25 U	0.25	15	233
ND<0.5 U	ND<0.25 U	0.25	16	233
ND<0.5 U	ND<0.25 U	0.25	17	233
ND<0.5 U	ND<0.25 U	0.25	18	233
ND<0.5 U	ND<0.25 U	0.25	19	233
ND<0.5 U	ND<0.25 U	0.25	20	233
ND<0.5 U	ND<0.25 U	0.25	21	233
ND<0.5 U	ND<0.25 U	0.25	22	233
ND<0.5 U	ND<0.25 U	0.25	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.5 U	ND<0.25 U	0.25	24	233
ND<0.5 U	ND<0.25 U	0.25	25	233
ND<0.5 U	ND<0.25 U	0.25	26	233
ND<0.5 U	ND<0.25 U	0.25	27	233
ND<0.5 U	ND<0.25 U	0.25	28	233
ND<0.5 U	ND<0.25 U	0.25	29	233

ND<0.5 U	ND<0.25 U	0.25	30	233
ND<0.5 U	ND<0.25 U	0.25	31	233
ND<0.5 U	ND<0.25 U	0.25	32	233
ND<0.5 U	ND<0.25 U	0.25	33	233
ND<0.5 U	ND<0.25 U	0.25	34	233
ND<0.5 U	ND<0.25 U	0.25	35	233
ND<0.5 U	ND<0.25 U	0.25	36	233
ND<0.5 U	ND<0.25 U	0.25	37	233
ND<0.5 U	ND<0.25 U	0.25	38	233
ND<0.5 U	ND<0.25 U	0.25	39	233
ND<0.5 U	ND<0.25 U	0.25	40	233
ND<0.5 U	ND<0.25 U	0.25	41	233
ND<0.5 U	ND<0.25 U	0.25	42	233

ND<0.25 U	ND<0.5 U	-0.25	42	234
ND<0.25 U	ND<0.5 U	-0.25	42	235
ND<0.25 U	ND<0.5 U	-0.25	42	236
ND<0.25 U	ND<0.5 U	-0.25	42	237
ND<0.25 U	ND<0.5 U	-0.25	42	238
ND<0.25 U	ND<0.5 U	-0.25	42	239
ND<0.25 U	ND<0.5 U	-0.25	42	240
ND<0.25 U	ND<0.5 U	-0.25	42	241
ND<0.25 U	ND<0.5 U	-0.25	42	242
ND<0.25 U	ND<0.5 U	-0.25	42	243
ND<0.25 U	ND<0.5 U	-0.25	42	244
ND<0.25 U	ND<0.5 U	-0.25	42	245
ND<0.25 U	ND<0.5 U	-0.25	42	246
ND<0.25 U	ND<0.5 U	-0.25	42	247
ND<0.25 U	ND<0.5 U	-0.25	42	248
ND<0.25 U	ND<0.5 U	-0.25	42	249
ND<0.25 U	ND<0.5 U	-0.25	42	250
ND<0.25 U	ND<0.5 U	-0.25	42	251
ND<0.25 U	ND<0.5 U	-0.25	42	252
ND<0.25 U	ND<0.5 U	-0.25	42	253
ND<0.25 U	ND<0.5 U	-0.25	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254

ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254

ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.5 U	ND<0.25 U	0.25	43	254
ND<0.5 U	ND<0.25 U	0.25	44	254
ND<0.5 U	ND<0.25 U	0.25	45	254
ND<0.5 U	ND<0.25 U	0.25	46	254
ND<0.5 U	ND<0.25 U	0.25	47	254
ND<0.5 U	ND<0.25 U	0.25	48	254
ND<0.5 U	ND<0.25 U	0.25	49	254
ND<0.5 U	ND<0.25 U	0.25	50	254
ND<0.5 U	ND<0.25 U	0.25	51	254
ND<0.5 U	ND<0.25 U	0.25	52	254
ND<0.5 U	ND<0.25 U	0.25	53	254
ND<0.5 U	ND<0.25 U	0.25	54	254
ND<0.5 U	ND<0.25 U	0.25	55	254
ND<0.5 U	ND<0.25 U	0.25	56	254
ND<0.5 U	ND<0.25 U	0.25	57	254
ND<0.5 U	ND<0.25 U	0.25	58	254
ND<0.5 U	ND<0.25 U	0.25	59	254
ND<0.5 U	ND<0.25 U	0.25	60	254
ND<0.5 U	ND<0.25 U	0.25	61	254

ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254

ND<0.5 U	ND<0.25 U	0.25	62	254
ND<0.5 U	ND<0.25 U	0.25	63	254
ND<0.5 U	ND<0.25 U	0.25	64	254
ND<0.5 U	ND<0.25 U	0.25	65	254
ND<0.5 U	ND<0.25 U	0.25	66	254
ND<0.5 U	ND<0.25 U	0.25	67	254
ND<0.5 U	ND<0.25 U	0.25	68	254
ND<0.5 U	ND<0.25 U	0.25	69	254
ND<0.5 U	ND<0.25 U	0.25	70	254
ND<0.5 U	ND<0.25 U	0.25	71	254
ND<0.5 U	ND<0.25 U	0.25	72	254
ND<0.5 U	ND<0.25 U	0.25	73	254
ND<0.5 U	ND<0.25 U	0.25	74	254
ND<0.5 U	ND<0.25 U	0.25	75	254
ND<0.5 U	ND<0.25 U	0.25	76	254
ND<0.5 U	ND<0.25 U	0.25	77	254
ND<0.5 U	ND<0.25 U	0.25	78	254
ND<0.5 U	ND<0.25 U	0.25	79	254
ND<0.5 U	ND<0.25 U	0.25	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.5 U	ND<0.25 U	0.25	81	254
ND<0.5 U	ND<0.25 U	0.25	82	254
ND<0.5 U	ND<0.25 U	0.25	83	254
ND<0.5 U	ND<0.25 U	0.25	84	254
ND<0.5 U	ND<0.25 U	0.25	85	254
ND<0.5 U	ND<0.25 U	0.25	86	254
ND<0.5 U	ND<0.25 U	0.25	87	254
ND<0.5 U	ND<0.25 U	0.25	88	254
ND<0.5 U	ND<0.25 U	0.25	89	254
ND<0.5 U	ND<0.25 U	0.25	90	254
ND<0.5 U	ND<0.25 U	0.25	91	254
ND<0.5 U	ND<0.25 U	0.25	92	254
ND<0.5 U	ND<0.25 U	0.25	93	254
ND<0.5 U	ND<0.25 U	0.25	94	254
ND<0.5 U	ND<0.25 U	0.25	95	254
ND<0.5 U	ND<0.25 U	0.25	96	254
ND<0.5 U	ND<0.25 U	0.25	97	254
ND<0.5 U	ND<0.25 U	0.25	98	254
ND<0.5 U	ND<0.25 U	0.25	99	254

ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.5 U	ND<0.25 U	0.25	100	254
ND<0.5 U	ND<0.25 U	0.25	101	254
ND<0.5 U	ND<0.25 U	0.25	102	254
ND<0.5 U	ND<0.25 U	0.25	103	254
ND<0.5 U	ND<0.25 U	0.25	104	254
ND<0.5 U	ND<0.25 U	0.25	105	254
ND<0.5 U	ND<0.25 U	0.25	106	254
ND<0.5 U	ND<0.25 U	0.25	107	254
ND<0.5 U	ND<0.25 U	0.25	108	254
ND<0.5 U	ND<0.25 U	0.25	109	254
ND<0.5 U	ND<0.25 U	0.25	110	254
ND<0.5 U	ND<0.25 U	0.25	111	254
ND<0.5 U	ND<0.25 U	0.25	112	254
ND<0.5 U	ND<0.25 U	0.25	113	254
ND<0.5 U	ND<0.25 U	0.25	114	254
ND<0.5 U	ND<0.25 U	0.25	115	254
ND<0.5 U	ND<0.25 U	0.25	116	254
ND<0.5 U	ND<0.25 U	0.25	117	254
ND<0.5 U	ND<0.25 U	0.25	118	254

ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.5 U	ND<0.25 U	0.25	119	254
ND<0.5 U	ND<0.25 U	0.25	120	254
ND<0.5 U	ND<0.25 U	0.25	121	254

ND<0.5 U	ND<0.25 U	0.25	122	254
ND<0.5 U	ND<0.25 U	0.25	123	254
ND<0.5 U	ND<0.25 U	0.25	124	254
ND<0.5 U	ND<0.25 U	0.25	125	254
ND<0.5 U	ND<0.25 U	0.25	126	254
ND<0.5 U	ND<0.25 U	0.25	127	254
ND<0.5 U	ND<0.25 U	0.25	128	254
ND<0.5 U	ND<0.25 U	0.25	129	254
ND<0.5 U	ND<0.25 U	0.25	130	254
ND<0.5 U	ND<0.25 U	0.25	131	254
ND<0.5 U	ND<0.25 U	0.25	132	254
ND<0.5 U	ND<0.25 U	0.25	133	254
ND<0.5 U	ND<0.25 U	0.25	134	254
ND<0.5 U	ND<0.25 U	0.25	135	254
ND<0.5 U	ND<0.25 U	0.25	136	254
ND<0.5 U	ND<0.25 U	0.25	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.5 U	ND<0.25 U	0.25	138	254
ND<0.5 U	ND<0.25 U	0.25	139	254
ND<0.5 U	ND<0.25 U	0.25	140	254
ND<0.5 U	ND<0.25 U	0.25	141	254
ND<0.5 U	ND<0.25 U	0.25	142	254
ND<0.5 U	ND<0.25 U	0.25	143	254
ND<0.5 U	ND<0.25 U	0.25	144	254
ND<0.5 U	ND<0.25 U	0.25	145	254
ND<0.5 U	ND<0.25 U	0.25	146	254
ND<0.5 U	ND<0.25 U	0.25	147	254
ND<0.5 U	ND<0.25 U	0.25	148	254
ND<0.5 U	ND<0.25 U	0.25	149	254
ND<0.5 U	ND<0.25 U	0.25	150	254
ND<0.5 U	ND<0.25 U	0.25	151	254
ND<0.5 U	ND<0.25 U	0.25	152	254
ND<0.5 U	ND<0.25 U	0.25	153	254
ND<0.5 U	ND<0.25 U	0.25	154	254
ND<0.5 U	ND<0.25 U	0.25	155	254
ND<0.5 U	ND<0.25 U	0.25	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254

ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.5 U	ND<0.25 U	0.25	157	254
ND<0.5 U	ND<0.25 U	0.25	158	254
ND<0.5 U	ND<0.25 U	0.25	159	254
ND<0.5 U	ND<0.25 U	0.25	160	254
ND<0.5 U	ND<0.25 U	0.25	161	254
ND<0.5 U	ND<0.25 U	0.25	162	254
ND<0.5 U	ND<0.25 U	0.25	163	254
ND<0.5 U	ND<0.25 U	0.25	164	254
ND<0.5 U	ND<0.25 U	0.25	165	254
ND<0.5 U	ND<0.25 U	0.25	166	254
ND<0.5 U	ND<0.25 U	0.25	167	254
ND<0.5 U	ND<0.25 U	0.25	168	254
ND<0.5 U	ND<0.25 U	0.25	169	254
ND<0.5 U	ND<0.25 U	0.25	170	254
ND<0.5 U	ND<0.25 U	0.25	171	254
ND<0.5 U	ND<0.25 U	0.25	172	254
ND<0.5 U	ND<0.25 U	0.25	173	254
ND<0.5 U	ND<0.25 U	0.25	174	254
ND<0.5 U	ND<0.25 U	0.25	175	254

ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.5 U	ND<0.25 U	0.25	176	254
ND<0.5 U	ND<0.25 U	0.25	177	254
ND<0.5 U	ND<0.25 U	0.25	178	254
ND<0.5 U	ND<0.25 U	0.25	179	254
ND<0.5 U	ND<0.25 U	0.25	180	254
ND<0.5 U	ND<0.25 U	0.25	181	254
ND<0.5 U	ND<0.25 U	0.25	182	254
ND<0.5 U	ND<0.25 U	0.25	183	254
ND<0.5 U	ND<0.25 U	0.25	184	254
ND<0.5 U	ND<0.25 U	0.25	185	254
ND<0.5 U	ND<0.25 U	0.25	186	254
ND<0.5 U	ND<0.25 U	0.25	187	254
ND<0.5 U	ND<0.25 U	0.25	188	254
ND<0.5 U	ND<0.25 U	0.25	189	254
ND<0.5 U	ND<0.25 U	0.25	190	254

ND<0.5 U	ND<0.25 U	0.25	191	254
ND<0.5 U	ND<0.25 U	0.25	192	254
ND<0.5 U	ND<0.25 U	0.25	193	254
ND<0.5 U	ND<0.25 U	0.25	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.5 U	ND<0.25 U	0.25	195	254
ND<0.5 U	ND<0.25 U	0.25	196	254
ND<0.5 U	ND<0.25 U	0.25	197	254
ND<0.5 U	ND<0.25 U	0.25	198	254
ND<0.5 U	ND<0.25 U	0.25	199	254
ND<0.5 U	ND<0.25 U	0.25	200	254
ND<0.5 U	ND<0.25 U	0.25	201	254
ND<0.5 U	ND<0.25 U	0.25	202	254
ND<0.5 U	ND<0.25 U	0.25	203	254
ND<0.5 U	ND<0.25 U	0.25	204	254
ND<0.5 U	ND<0.25 U	0.25	205	254
ND<0.5 U	ND<0.25 U	0.25	206	254
ND<0.5 U	ND<0.25 U	0.25	207	254
ND<0.5 U	ND<0.25 U	0.25	208	254
ND<0.5 U	ND<0.25 U	0.25	209	254
ND<0.5 U	ND<0.25 U	0.25	210	254
ND<0.5 U	ND<0.25 U	0.25	211	254
ND<0.5 U	ND<0.25 U	0.25	212	254
ND<0.5 U	ND<0.25 U	0.25	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.5 U	ND<0.25 U	0.25	214	254
ND<0.5 U	ND<0.25 U	0.25	215	254
ND<0.5 U	ND<0.25 U	0.25	216	254
ND<0.5 U	ND<0.25 U	0.25	217	254
ND<0.5 U	ND<0.25 U	0.25	218	254
ND<0.5 U	ND<0.25 U	0.25	219	254
ND<0.5 U	ND<0.25 U	0.25	220	254
ND<0.5 U	ND<0.25 U	0.25	221	254
ND<0.5 U	ND<0.25 U	0.25	222	254

ND<0.5 U	ND<0.25 U	0.25	223	254
ND<0.5 U	ND<0.25 U	0.25	224	254
ND<0.5 U	ND<0.25 U	0.25	225	254
ND<0.5 U	ND<0.25 U	0.25	226	254
ND<0.5 U	ND<0.25 U	0.25	227	254
ND<0.5 U	ND<0.25 U	0.25	228	254
ND<0.5 U	ND<0.25 U	0.25	229	254
ND<0.5 U	ND<0.25 U	0.25	230	254
ND<0.5 U	ND<0.25 U	0.25	231	254
ND<0.5 U	ND<0.25 U	0.25	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.5 U	ND<0.25 U	0.25	233	254
ND<0.5 U	ND<0.25 U	0.25	234	254
ND<0.5 U	ND<0.25 U	0.25	235	254
ND<0.5 U	ND<0.25 U	0.25	236	254
ND<0.5 U	ND<0.25 U	0.25	237	254
ND<0.5 U	ND<0.25 U	0.25	238	254
ND<0.5 U	ND<0.25 U	0.25	239	254
ND<0.5 U	ND<0.25 U	0.25	240	254
ND<0.5 U	ND<0.25 U	0.25	241	254
ND<0.5 U	ND<0.25 U	0.25	242	254
ND<0.5 U	ND<0.25 U	0.25	243	254
ND<0.5 U	ND<0.25 U	0.25	244	254
ND<0.5 U	ND<0.25 U	0.25	245	254
ND<0.5 U	ND<0.25 U	0.25	246	254
ND<0.5 U	ND<0.25 U	0.25	247	254
ND<0.5 U	ND<0.25 U	0.25	248	254
ND<0.5 U	ND<0.25 U	0.25	249	254
ND<0.5 U	ND<0.25 U	0.25	250	254
ND<0.5 U	ND<0.25 U	0.25	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.5 U	ND<0.25 U	0.25	252	254
ND<0.5 U	ND<0.25 U	0.25	253	254
ND<0.5 U	ND<0.25 U	0.25	254	254
ND<0.5 U	ND<0.25 U	0.25	255	254
ND<0.5 U	ND<0.25 U	0.25	256	254
ND<0.5 U	ND<0.25 U	0.25	257	254
ND<0.5 U	ND<0.25 U	0.25	258	254

ND<0.5 U	ND<0.25 U	0.25	259	254
ND<0.5 U	ND<0.25 U	0.25	260	254
ND<0.5 U	ND<0.25 U	0.25	261	254
ND<0.5 U	ND<0.25 U	0.25	262	254
ND<0.5 U	ND<0.25 U	0.25	263	254
ND<0.5 U	ND<0.25 U	0.25	264	254
ND<0.5 U	ND<0.25 U	0.25	265	254
ND<0.5 U	ND<0.25 U	0.25	266	254
ND<0.5 U	ND<0.25 U	0.25	267	254
ND<0.5 U	ND<0.25 U	0.25	268	254
ND<0.5 U	ND<0.25 U	0.25	269	254
ND<0.5 U	ND<0.25 U	0.25	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.5 U	ND<0.25 U	0.25	271	254
ND<0.5 U	ND<0.25 U	0.25	272	254
ND<0.5 U	ND<0.25 U	0.25	273	254
ND<0.5 U	ND<0.25 U	0.25	274	254
ND<0.5 U	ND<0.25 U	0.25	275	254
ND<0.5 U	ND<0.25 U	0.25	276	254
ND<0.5 U	ND<0.25 U	0.25	277	254
ND<0.5 U	ND<0.25 U	0.25	278	254
ND<0.5 U	ND<0.25 U	0.25	279	254
ND<0.5 U	ND<0.25 U	0.25	280	254
ND<0.5 U	ND<0.25 U	0.25	281	254
ND<0.5 U	ND<0.25 U	0.25	282	254
ND<0.5 U	ND<0.25 U	0.25	283	254
ND<0.5 U	ND<0.25 U	0.25	284	254
ND<0.5 U	ND<0.25 U	0.25	285	254
ND<0.5 U	ND<0.25 U	0.25	286	254
ND<0.5 U	ND<0.25 U	0.25	287	254
ND<0.5 U	ND<0.25 U	0.25	288	254
ND<0.5 U	ND<0.25 U	0.25	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.5 U	ND<0.25 U	0.25	290	254
ND<0.5 U	ND<0.25 U	0.25	291	254
ND<0.5 U	ND<0.25 U	0.25	292	254
ND<0.5 U	ND<0.25 U	0.25	293	254
ND<0.5 U	ND<0.25 U	0.25	294	254
ND<0.5 U	ND<0.25 U	0.25	295	254
ND<0.5 U	ND<0.25 U	0.25	296	254
ND<0.5 U	ND<0.25 U	0.25	297	254
ND<0.5 U	ND<0.25 U	0.25	298	254

ND<0.5 U	ND<0.25 U	0.25	299	254
ND<0.5 U	ND<0.25 U	0.25	300	254
ND<0.5 U	ND<0.25 U	0.25	301	254
ND<0.5 U	ND<0.25 U	0.25	302	254
ND<0.5 U	ND<0.25 U	0.25	303	254
ND<0.5 U	ND<0.25 U	0.25	304	254
ND<0.5 U	ND<0.25 U	0.25	305	254
ND<0.5 U	ND<0.25 U	0.25	306	254
ND<0.5 U	ND<0.25 U	0.25	307	254
ND<0.5 U	ND<0.25 U	0.25	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.5 U	ND<0.25 U	0.25	309	254
ND<0.5 U	ND<0.25 U	0.25	310	254
ND<0.5 U	ND<0.25 U	0.25	311	254
ND<0.5 U	ND<0.25 U	0.25	312	254
ND<0.5 U	ND<0.25 U	0.25	313	254
ND<0.5 U	ND<0.25 U	0.25	314	254
ND<0.5 U	ND<0.25 U	0.25	315	254
ND<0.5 U	ND<0.25 U	0.25	316	254
ND<0.5 U	ND<0.25 U	0.25	317	254
ND<0.5 U	ND<0.25 U	0.25	318	254
ND<0.5 U	ND<0.25 U	0.25	319	254
ND<0.5 U	ND<0.25 U	0.25	320	254
ND<0.5 U	ND<0.25 U	0.25	321	254
ND<0.5 U	ND<0.25 U	0.25	322	254
ND<0.5 U	ND<0.25 U	0.25	323	254
ND<0.5 U	ND<0.25 U	0.25	324	254
ND<0.5 U	ND<0.25 U	0.25	325	254
ND<0.5 U	ND<0.25 U	0.25	326	254
ND<0.5 U	ND<0.25 U	0.25	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.5 U	ND<0.25 U	0.25	328	254
ND<0.5 U	ND<0.25 U	0.25	329	254
ND<0.5 U	ND<0.25 U	0.25	330	254
ND<0.5 U	ND<0.25 U	0.25	331	254
ND<0.5 U	ND<0.25 U	0.25	332	254
ND<0.5 U	ND<0.25 U	0.25	333	254
ND<0.5 U	ND<0.25 U	0.25	334	254
ND<0.5 U	ND<0.25 U	0.25	335	254
ND<0.5 U	ND<0.25 U	0.25	336	254
ND<0.5 U	ND<0.25 U	0.25	337	254
ND<0.5 U	ND<0.25 U	0.25	338	254
ND<0.5 U	ND<0.25 U	0.25	339	254
ND<0.5 U	ND<0.25 U	0.25	340	254
ND<0.5 U	ND<0.25 U	0.25	341	254
ND<0.5 U	ND<0.25 U	0.25	342	254

ND<0.5 U	ND<0.25 U	0.25	343	254
ND<0.5 U	ND<0.25 U	0.25	344	254
ND<0.5 U	ND<0.25 U	0.25	345	254
ND<0.5 U	ND<0.25 U	0.25	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.5 U	ND<0.25 U	0.25	347	254
ND<0.5 U	ND<0.25 U	0.25	348	254
ND<0.5 U	ND<0.25 U	0.25	349	254
ND<0.5 U	ND<0.25 U	0.25	350	254
ND<0.5 U	ND<0.25 U	0.25	351	254
ND<0.5 U	ND<0.25 U	0.25	352	254
ND<0.5 U	ND<0.25 U	0.25	353	254
ND<0.5 U	ND<0.25 U	0.25	354	254
ND<0.5 U	ND<0.25 U	0.25	355	254
ND<0.5 U	ND<0.25 U	0.25	356	254
ND<0.5 U	ND<0.25 U	0.25	357	254
ND<0.5 U	ND<0.25 U	0.25	358	254
ND<0.5 U	ND<0.25 U	0.25	359	254
ND<0.5 U	ND<0.25 U	0.25	360	254
ND<0.5 U	ND<0.25 U	0.25	361	254
ND<0.5 U	ND<0.25 U	0.25	362	254
ND<0.5 U	ND<0.25 U	0.25	363	254
ND<0.5 U	ND<0.25 U	0.25	364	254
ND<0.5 U	ND<0.25 U	0.25	365	254
ND<0.25 U	ND<0.25 U	0	365	254
ND<0.25 U	ND<0.25 U	0	365	254
ND<0.25 U	ND<0.25 U	0	365	254
ND<0.5 U	ND<0.25 U	0.25	366	254
ND<0.5 U	ND<0.25 U	0.25	367	254
ND<0.5 U	ND<0.25 U	0.25	368	254
ND<0.5 U	ND<0.25 U	0.25	369	254
ND<0.5 U	ND<0.25 U	0.25	370	254
ND<0.5 U	ND<0.25 U	0.25	371	254
ND<0.5 U	ND<0.25 U	0.25	372	254
ND<0.5 U	ND<0.25 U	0.25	373	254
ND<0.5 U	ND<0.25 U	0.25	374	254
ND<0.5 U	ND<0.25 U	0.25	375	254
ND<0.5 U	ND<0.25 U	0.25	376	254
ND<0.5 U	ND<0.25 U	0.25	377	254
ND<0.5 U	ND<0.25 U	0.25	378	254
ND<0.5 U	ND<0.25 U	0.25	379	254
ND<0.5 U	ND<0.25 U	0.25	380	254
ND<0.5 U	ND<0.25 U	0.25	381	254
ND<0.5 U	ND<0.25 U	0.25	382	254
ND<0.5 U	ND<0.25 U	0.25	383	254
ND<0.5 U	ND<0.25 U	0.25	384	254
ND<0.25 U	ND<0.25 U	0	384	254
ND<0.25 U	ND<0.25 U	0	384	254
ND<0.5 U	ND<0.25 U	0.25	385	254
ND<0.5 U	ND<0.25 U	0.25	386	254
ND<0.5 U	ND<0.25 U	0.25	387	254

ND<0.5 U	ND<0.25 U	0.25	388	254
ND<0.5 U	ND<0.25 U	0.25	389	254
ND<0.5 U	ND<0.25 U	0.25	390	254
ND<0.5 U	ND<0.25 U	0.25	391	254
ND<0.5 U	ND<0.25 U	0.25	392	254
ND<0.5 U	ND<0.25 U	0.25	393	254
ND<0.5 U	ND<0.25 U	0.25	394	254
ND<0.5 U	ND<0.25 U	0.25	395	254
ND<0.5 U	ND<0.25 U	0.25	396	254
ND<0.5 U	ND<0.25 U	0.25	397	254
ND<0.5 U	ND<0.25 U	0.25	398	254
ND<0.5 U	ND<0.25 U	0.25	399	254
ND<0.5 U	ND<0.25 U	0.25	400	254
ND<0.5 U	ND<0.25 U	0.25	401	254
ND<0.5 U	ND<0.25 U	0.25	402	254
ND<0.5 U	ND<0.25 U	0.25	403	254
ND<0.25 U	ND<0.25 U	0	403	254
ND<0.5 U	ND<0.25 U	0.25	404	254
ND<0.5 U	ND<0.25 U	0.25	405	254
ND<0.5 U	ND<0.25 U	0.25	406	254
ND<0.5 U	ND<0.25 U	0.25	407	254
ND<0.5 U	ND<0.25 U	0.25	408	254
ND<0.5 U	ND<0.25 U	0.25	409	254
ND<0.5 U	ND<0.25 U	0.25	410	254
ND<0.5 U	ND<0.25 U	0.25	411	254
ND<0.5 U	ND<0.25 U	0.25	412	254
ND<0.5 U	ND<0.25 U	0.25	413	254
ND<0.5 U	ND<0.25 U	0.25	414	254
ND<0.5 U	ND<0.25 U	0.25	415	254
ND<0.5 U	ND<0.25 U	0.25	416	254
ND<0.5 U	ND<0.25 U	0.25	417	254
ND<0.5 U	ND<0.25 U	0.25	418	254
ND<0.5 U	ND<0.25 U	0.25	419	254
ND<0.5 U	ND<0.25 U	0.25	420	254
ND<0.5 U	ND<0.25 U	0.25	421	254
ND<0.5 U	ND<0.25 U	0.25	422	254
ND<0.5 U	ND<0.25 U	0.25	423	254
ND<0.5 U	ND<0.25 U	0.25	424	254
ND<0.5 U	ND<0.25 U	0.25	425	254
ND<0.5 U	ND<0.25 U	0.25	426	254
ND<0.5 U	ND<0.25 U	0.25	427	254
ND<0.5 U	ND<0.25 U	0.25	428	254
ND<0.5 U	ND<0.25 U	0.25	429	254
ND<0.5 U	ND<0.25 U	0.25	430	254
ND<0.5 U	ND<0.25 U	0.25	431	254
ND<0.5 U	ND<0.25 U	0.25	432	254
ND<0.5 U	ND<0.25 U	0.25	433	254
ND<0.5 U	ND<0.25 U	0.25	434	254
ND<0.5 U	ND<0.25 U	0.25	435	254
ND<0.5 U	ND<0.25 U	0.25	436	254
ND<0.5 U	ND<0.25 U	0.25	437	254
ND<0.5 U	ND<0.25 U	0.25	438	254
ND<0.5 U	ND<0.25 U	0.25	439	254
ND<0.5 U	ND<0.25 U	0.25	440	254
ND<0.5 U	ND<0.25 U	0.25	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

S Statistic = 441 - 254 = 187

Tied Group	**Value**	**Members**
1	0.5	28
2	0.25	23

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1

```
5/24/2012                    1
6/15/2012                    1
7/26/2012                    1
8/15/2012                    1
9/11/2012                    1
10/18/2012                   1
11/14/2012                   1
12/5/2012                    1
1/29/2013                    1
7/29/2013                    1
1/31/2014                    1
7/17/2014                    1
1/27/2015                    1
7/21/2015                    1
1/27/2016                    1
7/26/2016                    1
1/30/2017                    1
7/24/2017                    1
1/29/2018                    1
7/24/2018                    1
1/30/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 71922
B = 0
C = 30282
D = 0
E = 1262
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 12063.7
Z-Score = 1.69345
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.69345| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
ND<0.25 U	ND<0.5 U	-0.25	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
ND<0.25 U	ND<0.5 U	-0.25	1	12
ND<0.25 U	ND<0.5 U	-0.25	1	13
ND<0.25 U	ND<0.5 U	-0.25	1	14
ND<0.25 U	ND<0.5 U	-0.25	1	15
ND<0.25 U	ND<0.5 U	-0.25	1	16
ND<0.25 U	ND<0.5 U	-0.25	1	17
ND<0.25 U	ND<0.5 U	-0.25	1	18
ND<0.25 U	ND<0.5 U	-0.25	1	19
ND<0.25 U	ND<0.5 U	-0.25	1	20
ND<0.25 U	ND<0.5 U	-0.25	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21

ND<0.5 U	ND<0.5 U	0	1	21
1.5	ND<0.5 U	1	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<1 U	ND<0.5 U	0.5	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.5 U	ND<0.5 U	0	3	21
ND<0.25 U	ND<0.5 U	-0.25	3	22
ND<0.25 U	ND<0.5 U	-0.25	3	23
ND<0.25 U	ND<0.5 U	-0.25	3	24
ND<0.25 U	ND<0.5 U	-0.25	3	25
ND<0.25 U	ND<0.5 U	-0.25	3	26
ND<0.25 U	ND<0.5 U	-0.25	3	27
ND<0.25 U	ND<0.5 U	-0.25	3	28
ND<0.25 U	ND<0.5 U	-0.25	3	29
ND<0.25 U	ND<0.5 U	-0.25	3	30
ND<0.25 U	ND<0.5 U	-0.25	3	31
ND<0.25 U	ND<0.5 U	-0.25	3	32
ND<0.25 U	ND<0.5 U	-0.25	3	33
ND<0.25 U	ND<0.5 U	-0.25	3	34
ND<0.25 U	ND<0.5 U	-0.25	3	35
ND<0.25 U	ND<0.5 U	-0.25	3	36
ND<0.25 U	ND<0.5 U	-0.25	3	37
ND<0.25 U	ND<0.5 U	-0.25	3	38
ND<0.25 U	ND<0.5 U	-0.25	3	39
ND<0.25 U	ND<0.5 U	-0.25	3	40
ND<0.25 U	ND<0.5 U	-0.25	3	41
ND<0.25 U	ND<0.5 U	-0.25	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
ND<0.5 U	ND<0.5 U	0	3	42
1.5	ND<0.5 U	1	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<0.5 U	0	4	42
ND<0.5 U	ND<1 U	-0.5	4	43

ND<0.5 U	ND<1 U	-0.5	4	44
ND<0.5 U	ND<1 U	-0.5	4	45
ND<0.5 U	ND<1 U	-0.5	4	46
ND<0.5 U	ND<1 U	-0.5	4	47
ND<0.5 U	ND<1 U	-0.5	4	48
ND<0.5 U	ND<1 U	-0.5	4	49
ND<0.5 U	ND<1 U	-0.5	4	50
ND<0.5 U	ND<1 U	-0.5	4	51
ND<0.25 U	ND<1 U	-0.75	4	52
ND<0.25 U	ND<1 U	-0.75	4	53
ND<0.25 U	ND<1 U	-0.75	4	54
ND<0.25 U	ND<1 U	-0.75	4	55
ND<0.25 U	ND<1 U	-0.75	4	56
ND<0.25 U	ND<1 U	-0.75	4	57
ND<0.25 U	ND<1 U	-0.75	4	58
ND<0.25 U	ND<1 U	-0.75	4	59
ND<0.25 U	ND<1 U	-0.75	4	60
ND<0.25 U	ND<1 U	-0.75	4	61
ND<0.25 U	ND<1 U	-0.75	4	62
ND<0.25 U	ND<1 U	-0.75	4	63
ND<0.25 U	ND<1 U	-0.75	4	64
ND<0.25 U	ND<1 U	-0.75	4	65
ND<0.25 U	ND<1 U	-0.75	4	66
ND<0.25 U	ND<1 U	-0.75	4	67
ND<0.25 U	ND<1 U	-0.75	4	68
ND<0.25 U	ND<1 U	-0.75	4	69
ND<0.25 U	ND<1 U	-0.75	4	70
ND<0.25 U	ND<1 U	-0.75	4	71
ND<0.25 U	ND<1 U	-0.75	4	72
ND<0.5 U	ND<1 U	-0.5	4	73
ND<0.5 U	ND<1 U	-0.5	4	74
ND<0.5 U	ND<1 U	-0.5	4	75
ND<0.5 U	ND<1 U	-0.5	4	76
ND<0.5 U	ND<1 U	-0.5	4	77
ND<0.5 U	ND<1 U	-0.5	4	78
ND<0.5 U	ND<1 U	-0.5	4	79
ND<0.5 U	ND<1 U	-0.5	4	80
ND<0.5 U	ND<1 U	-0.5	4	81
ND<0.5 U	ND<1 U	-0.5	4	82
ND<0.5 U	ND<1 U	-0.5	4	83
ND<0.5 U	ND<1 U	-0.5	4	84
ND<0.5 U	ND<1 U	-0.5	4	85
ND<0.5 U	ND<1 U	-0.5	4	86
ND<0.5 U	ND<1 U	-0.5	4	87
ND<0.5 U	ND<1 U	-0.5	4	88
1.5	ND<1 U	0.5	5	88
ND<0.5 U	ND<1 U	-0.5	5	89
ND<0.5 U	ND<1 U	-0.5	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90
ND<0.5 U	ND<0.5 U	0	5	90

ND<0.25 U	ND<0.5 U	-0.25	5	91
ND<0.25 U	ND<0.5 U	-0.25	5	92
ND<0.25 U	ND<0.5 U	-0.25	5	93
ND<0.25 U	ND<0.5 U	-0.25	5	94
ND<0.25 U	ND<0.5 U	-0.25	5	95
ND<0.25 U	ND<0.5 U	-0.25	5	96
ND<0.25 U	ND<0.5 U	-0.25	5	97
ND<0.25 U	ND<0.5 U	-0.25	5	98
ND<0.25 U	ND<0.5 U	-0.25	5	99
ND<0.25 U	ND<0.5 U	-0.25	5	100
ND<0.25 U	ND<0.5 U	-0.25	5	101
ND<0.25 U	ND<0.5 U	-0.25	5	102
ND<0.25 U	ND<0.5 U	-0.25	5	103
ND<0.25 U	ND<0.5 U	-0.25	5	104
ND<0.25 U	ND<0.5 U	-0.25	5	105
ND<0.25 U	ND<0.5 U	-0.25	5	106
ND<0.25 U	ND<0.5 U	-0.25	5	107
ND<0.25 U	ND<0.5 U	-0.25	5	108
ND<0.25 U	ND<0.5 U	-0.25	5	109
ND<0.25 U	ND<0.5 U	-0.25	5	110
ND<0.25 U	ND<0.5 U	-0.25	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
ND<0.5 U	ND<0.5 U	0	5	111
1.5	ND<0.5 U	1	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.5 U	ND<0.5 U	0	6	111
ND<0.25 U	ND<0.5 U	-0.25	6	112
ND<0.25 U	ND<0.5 U	-0.25	6	113
ND<0.25 U	ND<0.5 U	-0.25	6	114
ND<0.25 U	ND<0.5 U	-0.25	6	115
ND<0.25 U	ND<0.5 U	-0.25	6	116
ND<0.25 U	ND<0.5 U	-0.25	6	117
ND<0.25 U	ND<0.5 U	-0.25	6	118
ND<0.25 U	ND<0.5 U	-0.25	6	119
ND<0.25 U	ND<0.5 U	-0.25	6	120

ND<0.25 U	ND<0.5 U	-0.25	6	121
ND<0.25 U	ND<0.5 U	-0.25	6	122
ND<0.25 U	ND<0.5 U	-0.25	6	123
ND<0.25 U	ND<0.5 U	-0.25	6	124
ND<0.25 U	ND<0.5 U	-0.25	6	125
ND<0.25 U	ND<0.5 U	-0.25	6	126
ND<0.25 U	ND<0.5 U	-0.25	6	127
ND<0.25 U	ND<0.5 U	-0.25	6	128
ND<0.25 U	ND<0.5 U	-0.25	6	129
ND<0.25 U	ND<0.5 U	-0.25	6	130
ND<0.25 U	ND<0.5 U	-0.25	6	131
ND<0.25 U	ND<0.5 U	-0.25	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
ND<0.5 U	ND<0.5 U	0	6	132
1.5	ND<0.5 U	1	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.5 U	ND<0.5 U	0	7	132
ND<0.25 U	ND<0.5 U	-0.25	7	133
ND<0.25 U	ND<0.5 U	-0.25	7	134
ND<0.25 U	ND<0.5 U	-0.25	7	135
ND<0.25 U	ND<0.5 U	-0.25	7	136
ND<0.25 U	ND<0.5 U	-0.25	7	137
ND<0.25 U	ND<0.5 U	-0.25	7	138
ND<0.25 U	ND<0.5 U	-0.25	7	139
ND<0.25 U	ND<0.5 U	-0.25	7	140
ND<0.25 U	ND<0.5 U	-0.25	7	141
ND<0.25 U	ND<0.5 U	-0.25	7	142
ND<0.25 U	ND<0.5 U	-0.25	7	143
ND<0.25 U	ND<0.5 U	-0.25	7	144
ND<0.25 U	ND<0.5 U	-0.25	7	145
ND<0.25 U	ND<0.5 U	-0.25	7	146
ND<0.25 U	ND<0.5 U	-0.25	7	147
ND<0.25 U	ND<0.5 U	-0.25	7	148
ND<0.25 U	ND<0.5 U	-0.25	7	149
ND<0.25 U	ND<0.5 U	-0.25	7	150
ND<0.25 U	ND<0.5 U	-0.25	7	151

ND<0.25 U	ND<0.5 U	-0.25	7	152
ND<0.25 U	ND<0.5 U	-0.25	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
ND<0.5 U	ND<0.5 U	0	7	153
1.5	ND<0.5 U	1	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.5 U	ND<0.5 U	0	8	153
ND<0.25 U	ND<0.5 U	-0.25	8	154
ND<0.25 U	ND<0.5 U	-0.25	8	155
ND<0.25 U	ND<0.5 U	-0.25	8	156
ND<0.25 U	ND<0.5 U	-0.25	8	157
ND<0.25 U	ND<0.5 U	-0.25	8	158
ND<0.25 U	ND<0.5 U	-0.25	8	159
ND<0.25 U	ND<0.5 U	-0.25	8	160
ND<0.25 U	ND<0.5 U	-0.25	8	161
ND<0.25 U	ND<0.5 U	-0.25	8	162
ND<0.25 U	ND<0.5 U	-0.25	8	163
ND<0.25 U	ND<0.5 U	-0.25	8	164
ND<0.25 U	ND<0.5 U	-0.25	8	165
ND<0.25 U	ND<0.5 U	-0.25	8	166
ND<0.25 U	ND<0.5 U	-0.25	8	167
ND<0.25 U	ND<0.5 U	-0.25	8	168
ND<0.25 U	ND<0.5 U	-0.25	8	169
ND<0.25 U	ND<0.5 U	-0.25	8	170
ND<0.25 U	ND<0.5 U	-0.25	8	171
ND<0.25 U	ND<0.5 U	-0.25	8	172
ND<0.25 U	ND<0.5 U	-0.25	8	173
ND<0.25 U	ND<0.5 U	-0.25	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174

ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
ND<0.5 U	ND<0.5 U	0	8	174
1.5	ND<0.5 U	1	9	174
ND<0.5 U	ND<0.5 U	0	9	174
ND<0.5 U	ND<0.5 U	0	9	174
ND<0.5 U	ND<0.5 U	0	9	174
ND<0.5 U	ND<0.5 U	0	9	174
ND<0.5 U	ND<0.5 U	0	9	174
ND<0.5 U	ND<0.5 U	0	9	174
ND<0.25 U	ND<0.5 U	-0.25	9	175
ND<0.25 U	ND<0.5 U	-0.25	9	176
ND<0.25 U	ND<0.5 U	-0.25	9	177
ND<0.25 U	ND<0.5 U	-0.25	9	178
ND<0.25 U	ND<0.5 U	-0.25	9	179
ND<0.25 U	ND<0.5 U	-0.25	9	180
ND<0.25 U	ND<0.5 U	-0.25	9	181
ND<0.25 U	ND<0.5 U	-0.25	9	182
ND<0.25 U	ND<0.5 U	-0.25	9	183
ND<0.25 U	ND<0.5 U	-0.25	9	184
ND<0.25 U	ND<0.5 U	-0.25	9	185
ND<0.25 U	ND<0.5 U	-0.25	9	186
ND<0.25 U	ND<0.5 U	-0.25	9	187
ND<0.25 U	ND<0.5 U	-0.25	9	188
ND<0.25 U	ND<0.5 U	-0.25	9	189
ND<0.25 U	ND<0.5 U	-0.25	9	190
ND<0.25 U	ND<0.5 U	-0.25	9	191
ND<0.25 U	ND<0.5 U	-0.25	9	192
ND<0.25 U	ND<0.5 U	-0.25	9	193
ND<0.25 U	ND<0.5 U	-0.25	9	194
ND<0.25 U	ND<0.5 U	-0.25	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
ND<0.5 U	ND<0.5 U	0	9	195
1.5	ND<0.5 U	1	10	195
ND<0.5 U	ND<0.5 U	0	10	195
ND<0.5 U	ND<0.5 U	0	10	195
ND<0.5 U	ND<0.5 U	0	10	195

ND<0.5 U	ND<0.5 U	0	10	195
ND<0.5 U	ND<0.5 U	0	10	195
ND<0.25 U	ND<0.5 U	-0.25	10	196
ND<0.25 U	ND<0.5 U	-0.25	10	197
ND<0.25 U	ND<0.5 U	-0.25	10	198
ND<0.25 U	ND<0.5 U	-0.25	10	199
ND<0.25 U	ND<0.5 U	-0.25	10	200
ND<0.25 U	ND<0.5 U	-0.25	10	201
ND<0.25 U	ND<0.5 U	-0.25	10	202
ND<0.25 U	ND<0.5 U	-0.25	10	203
ND<0.25 U	ND<0.5 U	-0.25	10	204
ND<0.25 U	ND<0.5 U	-0.25	10	205
ND<0.25 U	ND<0.5 U	-0.25	10	206
ND<0.25 U	ND<0.5 U	-0.25	10	207
ND<0.25 U	ND<0.5 U	-0.25	10	208
ND<0.25 U	ND<0.5 U	-0.25	10	209
ND<0.25 U	ND<0.5 U	-0.25	10	210
ND<0.25 U	ND<0.5 U	-0.25	10	211
ND<0.25 U	ND<0.5 U	-0.25	10	212
ND<0.25 U	ND<0.5 U	-0.25	10	213
ND<0.25 U	ND<0.5 U	-0.25	10	214
ND<0.25 U	ND<0.5 U	-0.25	10	215
ND<0.25 U	ND<0.5 U	-0.25	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
ND<0.5 U	ND<0.5 U	0	10	216
1.5	ND<0.5 U	1	11	216
ND<0.5 U	ND<0.5 U	0	11	216
ND<0.5 U	ND<0.5 U	0	11	216
ND<0.5 U	ND<0.5 U	0	11	216
ND<0.5 U	ND<0.5 U	0	11	216
ND<0.25 U	ND<0.5 U	-0.25	11	217
ND<0.25 U	ND<0.5 U	-0.25	11	218
ND<0.25 U	ND<0.5 U	-0.25	11	219
ND<0.25 U	ND<0.5 U	-0.25	11	220
ND<0.25 U	ND<0.5 U	-0.25	11	221
ND<0.25 U	ND<0.5 U	-0.25	11	222
ND<0.25 U	ND<0.5 U	-0.25	11	223
ND<0.25 U	ND<0.5 U	-0.25	11	224
ND<0.25 U	ND<0.5 U	-0.25	11	225
ND<0.25 U	ND<0.5 U	-0.25	11	226
ND<0.25 U	ND<0.5 U	-0.25	11	227
ND<0.25 U	ND<0.5 U	-0.25	11	228

ND<0.25 U	ND<0.5 U	-0.25	11	229
ND<0.25 U	ND<0.5 U	-0.25	11	230
ND<0.25 U	ND<0.5 U	-0.25	11	231
ND<0.25 U	ND<0.5 U	-0.25	11	232
ND<0.25 U	ND<0.5 U	-0.25	11	233
ND<0.25 U	ND<0.5 U	-0.25	11	234
ND<0.25 U	ND<0.5 U	-0.25	11	235
ND<0.25 U	ND<0.5 U	-0.25	11	236
ND<0.25 U	ND<0.5 U	-0.25	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
ND<0.5 U	ND<0.5 U	0	11	237
1.5	ND<0.5 U	1	12	237
ND<0.5 U	ND<0.5 U	0	12	237
ND<0.5 U	ND<0.5 U	0	12	237
ND<0.5 U	ND<0.5 U	0	12	237
ND<0.25 U	ND<0.5 U	-0.25	12	238
ND<0.25 U	ND<0.5 U	-0.25	12	239
ND<0.25 U	ND<0.5 U	-0.25	12	240
ND<0.25 U	ND<0.5 U	-0.25	12	241
ND<0.25 U	ND<0.5 U	-0.25	12	242
ND<0.25 U	ND<0.5 U	-0.25	12	243
ND<0.25 U	ND<0.5 U	-0.25	12	244
ND<0.25 U	ND<0.5 U	-0.25	12	245
ND<0.25 U	ND<0.5 U	-0.25	12	246
ND<0.25 U	ND<0.5 U	-0.25	12	247
ND<0.25 U	ND<0.5 U	-0.25	12	248
ND<0.25 U	ND<0.5 U	-0.25	12	249
ND<0.25 U	ND<0.5 U	-0.25	12	250
ND<0.25 U	ND<0.5 U	-0.25	12	251
ND<0.25 U	ND<0.5 U	-0.25	12	252
ND<0.25 U	ND<0.5 U	-0.25	12	253
ND<0.25 U	ND<0.5 U	-0.25	12	254
ND<0.25 U	ND<0.5 U	-0.25	12	255
ND<0.25 U	ND<0.5 U	-0.25	12	256
ND<0.25 U	ND<0.5 U	-0.25	12	257
ND<0.25 U	ND<0.5 U	-0.25	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258

ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
ND<0.5 U	ND<0.5 U	0	12	258
1.5	ND<0.5 U	1	13	258
ND<0.5 U	ND<0.5 U	0	13	258
ND<0.5 U	ND<0.5 U	0	13	258
ND<0.25 U	ND<0.5 U	-0.25	13	259
ND<0.25 U	ND<0.5 U	-0.25	13	260
ND<0.25 U	ND<0.5 U	-0.25	13	261
ND<0.25 U	ND<0.5 U	-0.25	13	262
ND<0.25 U	ND<0.5 U	-0.25	13	263
ND<0.25 U	ND<0.5 U	-0.25	13	264
ND<0.25 U	ND<0.5 U	-0.25	13	265
ND<0.25 U	ND<0.5 U	-0.25	13	266
ND<0.25 U	ND<0.5 U	-0.25	13	267
ND<0.25 U	ND<0.5 U	-0.25	13	268
ND<0.25 U	ND<0.5 U	-0.25	13	269
ND<0.25 U	ND<0.5 U	-0.25	13	270
ND<0.25 U	ND<0.5 U	-0.25	13	271
ND<0.25 U	ND<0.5 U	-0.25	13	272
ND<0.25 U	ND<0.5 U	-0.25	13	273
ND<0.25 U	ND<0.5 U	-0.25	13	274
ND<0.25 U	ND<0.5 U	-0.25	13	275
ND<0.25 U	ND<0.5 U	-0.25	13	276
ND<0.25 U	ND<0.5 U	-0.25	13	277
ND<0.25 U	ND<0.5 U	-0.25	13	278
ND<0.25 U	ND<0.5 U	-0.25	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
ND<0.5 U	ND<0.5 U	0	13	279
1.5	ND<0.5 U	1	14	279
ND<0.5 U	ND<0.5 U	0	14	279
ND<0.5 U	ND<0.5 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279

ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.25 U	ND<0.25 U	0	14	279
ND<0.5 U	ND<0.25 U	0.25	15	279
ND<0.5 U	ND<0.25 U	0.25	16	279
ND<0.5 U	ND<0.25 U	0.25	17	279
ND<0.5 U	ND<0.25 U	0.25	18	279
ND<0.5 U	ND<0.25 U	0.25	19	279
ND<0.5 U	ND<0.25 U	0.25	20	279
ND<0.5 U	ND<0.25 U	0.25	21	279
ND<0.5 U	ND<0.25 U	0.25	22	279
ND<0.5 U	ND<0.25 U	0.25	23	279
ND<0.5 U	ND<0.25 U	0.25	24	279
ND<0.5 U	ND<0.25 U	0.25	25	279
ND<0.5 U	ND<0.25 U	0.25	26	279
ND<0.5 U	ND<0.25 U	0.25	27	279
ND<0.5 U	ND<0.25 U	0.25	28	279
ND<0.5 U	ND<0.25 U	0.25	29	279
ND<0.5 U	ND<0.25 U	0.25	30	279
1.5	ND<0.25 U	1.25	31	279
ND<0.5 U	ND<0.25 U	0.25	32	279
ND<0.5 U	ND<0.25 U	0.25	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279
ND<0.25 U	ND<0.25 U	0	33	279

ND<0.5 U	ND<0.25 U	0.25	34	279
ND<0.5 U	ND<0.25 U	0.25	35	279
ND<0.5 U	ND<0.25 U	0.25	36	279
ND<0.5 U	ND<0.25 U	0.25	37	279
ND<0.5 U	ND<0.25 U	0.25	38	279
ND<0.5 U	ND<0.25 U	0.25	39	279
ND<0.5 U	ND<0.25 U	0.25	40	279
ND<0.5 U	ND<0.25 U	0.25	41	279
ND<0.5 U	ND<0.25 U	0.25	42	279
ND<0.5 U	ND<0.25 U	0.25	43	279
ND<0.5 U	ND<0.25 U	0.25	44	279
ND<0.5 U	ND<0.25 U	0.25	45	279
ND<0.5 U	ND<0.25 U	0.25	46	279
ND<0.5 U	ND<0.25 U	0.25	47	279
ND<0.5 U	ND<0.25 U	0.25	48	279
ND<0.5 U	ND<0.25 U	0.25	49	279
1.5	ND<0.25 U	1.25	50	279
ND<0.5 U	ND<0.25 U	0.25	51	279
ND<0.5 U	ND<0.25 U	0.25	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.25 U	ND<0.25 U	0	52	279
ND<0.5 U	ND<0.25 U	0.25	53	279
ND<0.5 U	ND<0.25 U	0.25	54	279
ND<0.5 U	ND<0.25 U	0.25	55	279
ND<0.5 U	ND<0.25 U	0.25	56	279
ND<0.5 U	ND<0.25 U	0.25	57	279
ND<0.5 U	ND<0.25 U	0.25	58	279
ND<0.5 U	ND<0.25 U	0.25	59	279
ND<0.5 U	ND<0.25 U	0.25	60	279
ND<0.5 U	ND<0.25 U	0.25	61	279
ND<0.5 U	ND<0.25 U	0.25	62	279
ND<0.5 U	ND<0.25 U	0.25	63	279
ND<0.5 U	ND<0.25 U	0.25	64	279
ND<0.5 U	ND<0.25 U	0.25	65	279
ND<0.5 U	ND<0.25 U	0.25	66	279
ND<0.5 U	ND<0.25 U	0.25	67	279
ND<0.5 U	ND<0.25 U	0.25	68	279
1.5	ND<0.25 U	1.25	69	279
ND<0.5 U	ND<0.25 U	0.25	70	279
ND<0.5 U	ND<0.25 U	0.25	71	279

ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.25 U	ND<0.25 U	0	71	279
ND<0.5 U	ND<0.25 U	0.25	72	279
ND<0.5 U	ND<0.25 U	0.25	73	279
ND<0.5 U	ND<0.25 U	0.25	74	279
ND<0.5 U	ND<0.25 U	0.25	75	279
ND<0.5 U	ND<0.25 U	0.25	76	279
ND<0.5 U	ND<0.25 U	0.25	77	279
ND<0.5 U	ND<0.25 U	0.25	78	279
ND<0.5 U	ND<0.25 U	0.25	79	279
ND<0.5 U	ND<0.25 U	0.25	80	279
ND<0.5 U	ND<0.25 U	0.25	81	279
ND<0.5 U	ND<0.25 U	0.25	82	279
ND<0.5 U	ND<0.25 U	0.25	83	279
ND<0.5 U	ND<0.25 U	0.25	84	279
ND<0.5 U	ND<0.25 U	0.25	85	279
ND<0.5 U	ND<0.25 U	0.25	86	279
ND<0.5 U	ND<0.25 U	0.25	87	279
1.5	ND<0.25 U	1.25	88	279
ND<0.5 U	ND<0.25 U	0.25	89	279
ND<0.5 U	ND<0.25 U	0.25	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.25 U	ND<0.25 U	0	90	279
ND<0.5 U	ND<0.25 U	0.25	91	279
ND<0.5 U	ND<0.25 U	0.25	92	279
ND<0.5 U	ND<0.25 U	0.25	93	279

ND<0.5 U	ND<0.25 U	0.25	94	279
ND<0.5 U	ND<0.25 U	0.25	95	279
ND<0.5 U	ND<0.25 U	0.25	96	279
ND<0.5 U	ND<0.25 U	0.25	97	279
ND<0.5 U	ND<0.25 U	0.25	98	279
ND<0.5 U	ND<0.25 U	0.25	99	279
ND<0.5 U	ND<0.25 U	0.25	100	279
ND<0.5 U	ND<0.25 U	0.25	101	279
ND<0.5 U	ND<0.25 U	0.25	102	279
ND<0.5 U	ND<0.25 U	0.25	103	279
ND<0.5 U	ND<0.25 U	0.25	104	279
ND<0.5 U	ND<0.25 U	0.25	105	279
ND<0.5 U	ND<0.25 U	0.25	106	279
1.5	ND<0.25 U	1.25	107	279
ND<0.5 U	ND<0.25 U	0.25	108	279
ND<0.5 U	ND<0.25 U	0.25	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.25 U	ND<0.25 U	0	109	279
ND<0.5 U	ND<0.25 U	0.25	110	279
ND<0.5 U	ND<0.25 U	0.25	111	279
ND<0.5 U	ND<0.25 U	0.25	112	279
ND<0.5 U	ND<0.25 U	0.25	113	279
ND<0.5 U	ND<0.25 U	0.25	114	279
ND<0.5 U	ND<0.25 U	0.25	115	279
ND<0.5 U	ND<0.25 U	0.25	116	279
ND<0.5 U	ND<0.25 U	0.25	117	279
ND<0.5 U	ND<0.25 U	0.25	118	279
ND<0.5 U	ND<0.25 U	0.25	119	279
ND<0.5 U	ND<0.25 U	0.25	120	279
ND<0.5 U	ND<0.25 U	0.25	121	279
ND<0.5 U	ND<0.25 U	0.25	122	279
ND<0.5 U	ND<0.25 U	0.25	123	279
ND<0.5 U	ND<0.25 U	0.25	124	279
ND<0.5 U	ND<0.25 U	0.25	125	279
1.5	ND<0.25 U	1.25	126	279
ND<0.5 U	ND<0.25 U	0.25	127	279
ND<0.5 U	ND<0.25 U	0.25	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279

ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.25 U	ND<0.25 U	0	128	279
ND<0.5 U	ND<0.25 U	0.25	129	279
ND<0.5 U	ND<0.25 U	0.25	130	279
ND<0.5 U	ND<0.25 U	0.25	131	279
ND<0.5 U	ND<0.25 U	0.25	132	279
ND<0.5 U	ND<0.25 U	0.25	133	279
ND<0.5 U	ND<0.25 U	0.25	134	279
ND<0.5 U	ND<0.25 U	0.25	135	279
ND<0.5 U	ND<0.25 U	0.25	136	279
ND<0.5 U	ND<0.25 U	0.25	137	279
ND<0.5 U	ND<0.25 U	0.25	138	279
ND<0.5 U	ND<0.25 U	0.25	139	279
ND<0.5 U	ND<0.25 U	0.25	140	279
ND<0.5 U	ND<0.25 U	0.25	141	279
ND<0.5 U	ND<0.25 U	0.25	142	279
ND<0.5 U	ND<0.25 U	0.25	143	279
ND<0.5 U	ND<0.25 U	0.25	144	279
1.5	ND<0.25 U	1.25	145	279
ND<0.5 U	ND<0.25 U	0.25	146	279
ND<0.5 U	ND<0.25 U	0.25	147	279

ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.25 U	ND<0.25 U	0	147	279
ND<0.5 U	ND<0.25 U	0.25	148	279
ND<0.5 U	ND<0.25 U	0.25	149	279
ND<0.5 U	ND<0.25 U	0.25	150	279
ND<0.5 U	ND<0.25 U	0.25	151	279
ND<0.5 U	ND<0.25 U	0.25	152	279
ND<0.5 U	ND<0.25 U	0.25	153	279
ND<0.5 U	ND<0.25 U	0.25	154	279
ND<0.5 U	ND<0.25 U	0.25	155	279
ND<0.5 U	ND<0.25 U	0.25	156	279
ND<0.5 U	ND<0.25 U	0.25	157	279
ND<0.5 U	ND<0.25 U	0.25	158	279
ND<0.5 U	ND<0.25 U	0.25	159	279
ND<0.5 U	ND<0.25 U	0.25	160	279
ND<0.5 U	ND<0.25 U	0.25	161	279
ND<0.5 U	ND<0.25 U	0.25	162	279

ND<0.5 U	ND<0.25 U	0.25	163	279
1.5	ND<0.25 U	1.25	164	279
ND<0.5 U	ND<0.25 U	0.25	165	279
ND<0.5 U	ND<0.25 U	0.25	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.25 U	ND<0.25 U	0	166	279
ND<0.5 U	ND<0.25 U	0.25	167	279
ND<0.5 U	ND<0.25 U	0.25	168	279
ND<0.5 U	ND<0.25 U	0.25	169	279
ND<0.5 U	ND<0.25 U	0.25	170	279
ND<0.5 U	ND<0.25 U	0.25	171	279
ND<0.5 U	ND<0.25 U	0.25	172	279
ND<0.5 U	ND<0.25 U	0.25	173	279
ND<0.5 U	ND<0.25 U	0.25	174	279
ND<0.5 U	ND<0.25 U	0.25	175	279
ND<0.5 U	ND<0.25 U	0.25	176	279
ND<0.5 U	ND<0.25 U	0.25	177	279
ND<0.5 U	ND<0.25 U	0.25	178	279
ND<0.5 U	ND<0.25 U	0.25	179	279
ND<0.5 U	ND<0.25 U	0.25	180	279
ND<0.5 U	ND<0.25 U	0.25	181	279
ND<0.5 U	ND<0.25 U	0.25	182	279
1.5	ND<0.25 U	1.25	183	279
ND<0.5 U	ND<0.25 U	0.25	184	279
ND<0.5 U	ND<0.25 U	0.25	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.25 U	ND<0.25 U	0	185	279
ND<0.5 U	ND<0.25 U	0.25	186	279
ND<0.5 U	ND<0.25 U	0.25	187	279
ND<0.5 U	ND<0.25 U	0.25	188	279
ND<0.5 U	ND<0.25 U	0.25	189	279
ND<0.5 U	ND<0.25 U	0.25	190	279
ND<0.5 U	ND<0.25 U	0.25	191	279
ND<0.5 U	ND<0.25 U	0.25	192	279
ND<0.5 U	ND<0.25 U	0.25	193	279
ND<0.5 U	ND<0.25 U	0.25	194	279

ND<0.5 U	ND<0.25 U	0.25	195	279
ND<0.5 U	ND<0.25 U	0.25	196	279
ND<0.5 U	ND<0.25 U	0.25	197	279
ND<0.5 U	ND<0.25 U	0.25	198	279
ND<0.5 U	ND<0.25 U	0.25	199	279
ND<0.5 U	ND<0.25 U	0.25	200	279
ND<0.5 U	ND<0.25 U	0.25	201	279
1.5	ND<0.25 U	1.25	202	279
ND<0.5 U	ND<0.25 U	0.25	203	279
ND<0.5 U	ND<0.25 U	0.25	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.25 U	ND<0.25 U	0	204	279
ND<0.5 U	ND<0.25 U	0.25	205	279
ND<0.5 U	ND<0.25 U	0.25	206	279
ND<0.5 U	ND<0.25 U	0.25	207	279
ND<0.5 U	ND<0.25 U	0.25	208	279
ND<0.5 U	ND<0.25 U	0.25	209	279
ND<0.5 U	ND<0.25 U	0.25	210	279
ND<0.5 U	ND<0.25 U	0.25	211	279
ND<0.5 U	ND<0.25 U	0.25	212	279
ND<0.5 U	ND<0.25 U	0.25	213	279
ND<0.5 U	ND<0.25 U	0.25	214	279
ND<0.5 U	ND<0.25 U	0.25	215	279
ND<0.5 U	ND<0.25 U	0.25	216	279
ND<0.5 U	ND<0.25 U	0.25	217	279
ND<0.5 U	ND<0.25 U	0.25	218	279
ND<0.5 U	ND<0.25 U	0.25	219	279
ND<0.5 U	ND<0.25 U	0.25	220	279
1.5	ND<0.25 U	1.25	221	279
ND<0.5 U	ND<0.25 U	0.25	222	279
ND<0.5 U	ND<0.25 U	0.25	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.25 U	ND<0.25 U	0	223	279
ND<0.5 U	ND<0.25 U	0.25	224	279
ND<0.5 U	ND<0.25 U	0.25	225	279
ND<0.5 U	ND<0.25 U	0.25	226	279
ND<0.5 U	ND<0.25 U	0.25	227	279
ND<0.5 U	ND<0.25 U	0.25	228	279
ND<0.5 U	ND<0.25 U	0.25	229	279
ND<0.5 U	ND<0.25 U	0.25	230	279

ND<0.5 U	ND<0.25 U	0.25	231	279
ND<0.5 U	ND<0.25 U	0.25	232	279
ND<0.5 U	ND<0.25 U	0.25	233	279
ND<0.5 U	ND<0.25 U	0.25	234	279
ND<0.5 U	ND<0.25 U	0.25	235	279
ND<0.5 U	ND<0.25 U	0.25	236	279
ND<0.5 U	ND<0.25 U	0.25	237	279
ND<0.5 U	ND<0.25 U	0.25	238	279
ND<0.5 U	ND<0.25 U	0.25	239	279
1.5	ND<0.25 U	1.25	240	279
ND<0.5 U	ND<0.25 U	0.25	241	279
ND<0.5 U	ND<0.25 U	0.25	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.25 U	ND<0.25 U	0	242	279
ND<0.5 U	ND<0.25 U	0.25	243	279
ND<0.5 U	ND<0.25 U	0.25	244	279
ND<0.5 U	ND<0.25 U	0.25	245	279
ND<0.5 U	ND<0.25 U	0.25	246	279
ND<0.5 U	ND<0.25 U	0.25	247	279
ND<0.5 U	ND<0.25 U	0.25	248	279
ND<0.5 U	ND<0.25 U	0.25	249	279
ND<0.5 U	ND<0.25 U	0.25	250	279
ND<0.5 U	ND<0.25 U	0.25	251	279
ND<0.5 U	ND<0.25 U	0.25	252	279
ND<0.5 U	ND<0.25 U	0.25	253	279
ND<0.5 U	ND<0.25 U	0.25	254	279
ND<0.5 U	ND<0.25 U	0.25	255	279
ND<0.5 U	ND<0.25 U	0.25	256	279
ND<0.5 U	ND<0.25 U	0.25	257	279
ND<0.5 U	ND<0.25 U	0.25	258	279
1.5	ND<0.25 U	1.25	259	279
ND<0.5 U	ND<0.25 U	0.25	260	279
ND<0.5 U	ND<0.25 U	0.25	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.25 U	ND<0.25 U	0	261	279
ND<0.5 U	ND<0.25 U	0.25	262	279
ND<0.5 U	ND<0.25 U	0.25	263	279
ND<0.5 U	ND<0.25 U	0.25	264	279
ND<0.5 U	ND<0.25 U	0.25	265	279
ND<0.5 U	ND<0.25 U	0.25	266	279
ND<0.5 U	ND<0.25 U	0.25	267	279
ND<0.5 U	ND<0.25 U	0.25	268	279
ND<0.5 U	ND<0.25 U	0.25	269	279
ND<0.5 U	ND<0.25 U	0.25	270	279

ND<0.5 U	ND<0.25 U	0.25	271	279
ND<0.5 U	ND<0.25 U	0.25	272	279
ND<0.5 U	ND<0.25 U	0.25	273	279
ND<0.5 U	ND<0.25 U	0.25	274	279
ND<0.5 U	ND<0.25 U	0.25	275	279
ND<0.5 U	ND<0.25 U	0.25	276	279
ND<0.5 U	ND<0.25 U	0.25	277	279
1.5	ND<0.25 U	1.25	278	279
ND<0.5 U	ND<0.25 U	0.25	279	279
ND<0.5 U	ND<0.25 U	0.25	280	279
ND<0.25 U	ND<0.25 U	0	280	279
ND<0.25 U	ND<0.25 U	0	280	279
ND<0.25 U	ND<0.25 U	0	280	279
ND<0.25 U	ND<0.25 U	0	280	279
ND<0.25 U	ND<0.25 U	0	280	279
ND<0.25 U	ND<0.25 U	0	280	279
ND<0.5 U	ND<0.25 U	0.25	281	279
ND<0.5 U	ND<0.25 U	0.25	282	279
ND<0.5 U	ND<0.25 U	0.25	283	279
ND<0.5 U	ND<0.25 U	0.25	284	279
ND<0.5 U	ND<0.25 U	0.25	285	279
ND<0.5 U	ND<0.25 U	0.25	286	279
ND<0.5 U	ND<0.25 U	0.25	287	279
ND<0.5 U	ND<0.25 U	0.25	288	279
ND<0.5 U	ND<0.25 U	0.25	289	279
ND<0.5 U	ND<0.25 U	0.25	290	279
ND<0.5 U	ND<0.25 U	0.25	291	279
ND<0.5 U	ND<0.25 U	0.25	292	279
ND<0.5 U	ND<0.25 U	0.25	293	279
ND<0.5 U	ND<0.25 U	0.25	294	279
ND<0.5 U	ND<0.25 U	0.25	295	279
ND<0.5 U	ND<0.25 U	0.25	296	279
1.5	ND<0.25 U	1.25	297	279
ND<0.5 U	ND<0.25 U	0.25	298	279
ND<0.5 U	ND<0.25 U	0.25	299	279
ND<0.25 U	ND<0.25 U	0	299	279
ND<0.25 U	ND<0.25 U	0	299	279
ND<0.25 U	ND<0.25 U	0	299	279
ND<0.25 U	ND<0.25 U	0	299	279
ND<0.25 U	ND<0.25 U	0	299	279
ND<0.5 U	ND<0.25 U	0.25	300	279
ND<0.5 U	ND<0.25 U	0.25	301	279
ND<0.5 U	ND<0.25 U	0.25	302	279
ND<0.5 U	ND<0.25 U	0.25	303	279
ND<0.5 U	ND<0.25 U	0.25	304	279
ND<0.5 U	ND<0.25 U	0.25	305	279
ND<0.5 U	ND<0.25 U	0.25	306	279
ND<0.5 U	ND<0.25 U	0.25	307	279
ND<0.5 U	ND<0.25 U	0.25	308	279
ND<0.5 U	ND<0.25 U	0.25	309	279
ND<0.5 U	ND<0.25 U	0.25	310	279
ND<0.5 U	ND<0.25 U	0.25	311	279
ND<0.5 U	ND<0.25 U	0.25	312	279
ND<0.5 U	ND<0.25 U	0.25	313	279
ND<0.5 U	ND<0.25 U	0.25	314	279

ND<0.5 U	ND<0.25 U	0.25	315	279
1.5	ND<0.25 U	1.25	316	279
ND<0.5 U	ND<0.25 U	0.25	317	279
ND<0.5 U	ND<0.25 U	0.25	318	279
ND<0.25 U	ND<0.25 U	0	318	279
ND<0.25 U	ND<0.25 U	0	318	279
ND<0.25 U	ND<0.25 U	0	318	279
ND<0.25 U	ND<0.25 U	0	318	279
ND<0.5 U	ND<0.25 U	0.25	319	279
ND<0.5 U	ND<0.25 U	0.25	320	279
ND<0.5 U	ND<0.25 U	0.25	321	279
ND<0.5 U	ND<0.25 U	0.25	322	279
ND<0.5 U	ND<0.25 U	0.25	323	279
ND<0.5 U	ND<0.25 U	0.25	324	279
ND<0.5 U	ND<0.25 U	0.25	325	279
ND<0.5 U	ND<0.25 U	0.25	326	279
ND<0.5 U	ND<0.25 U	0.25	327	279
ND<0.5 U	ND<0.25 U	0.25	328	279
ND<0.5 U	ND<0.25 U	0.25	329	279
ND<0.5 U	ND<0.25 U	0.25	330	279
ND<0.5 U	ND<0.25 U	0.25	331	279
ND<0.5 U	ND<0.25 U	0.25	332	279
ND<0.5 U	ND<0.25 U	0.25	333	279
ND<0.5 U	ND<0.25 U	0.25	334	279
1.5	ND<0.25 U	1.25	335	279
ND<0.5 U	ND<0.25 U	0.25	336	279
ND<0.5 U	ND<0.25 U	0.25	337	279
ND<0.25 U	ND<0.25 U	0	337	279
ND<0.25 U	ND<0.25 U	0	337	279
ND<0.25 U	ND<0.25 U	0	337	279
ND<0.5 U	ND<0.25 U	0.25	338	279
ND<0.5 U	ND<0.25 U	0.25	339	279
ND<0.5 U	ND<0.25 U	0.25	340	279
ND<0.5 U	ND<0.25 U	0.25	341	279
ND<0.5 U	ND<0.25 U	0.25	342	279
ND<0.5 U	ND<0.25 U	0.25	343	279
ND<0.5 U	ND<0.25 U	0.25	344	279
ND<0.5 U	ND<0.25 U	0.25	345	279
ND<0.5 U	ND<0.25 U	0.25	346	279
ND<0.5 U	ND<0.25 U	0.25	347	279
ND<0.5 U	ND<0.25 U	0.25	348	279
ND<0.5 U	ND<0.25 U	0.25	349	279
ND<0.5 U	ND<0.25 U	0.25	350	279
ND<0.5 U	ND<0.25 U	0.25	351	279
ND<0.5 U	ND<0.25 U	0.25	352	279
ND<0.5 U	ND<0.25 U	0.25	353	279
1.5	ND<0.25 U	1.25	354	279
ND<0.5 U	ND<0.25 U	0.25	355	279
ND<0.5 U	ND<0.25 U	0.25	356	279
ND<0.25 U	ND<0.25 U	0	356	279
ND<0.25 U	ND<0.25 U	0	356	279
ND<0.5 U	ND<0.25 U	0.25	357	279
ND<0.5 U	ND<0.25 U	0.25	358	279
ND<0.5 U	ND<0.25 U	0.25	359	279

ND<0.5 U	ND<0.25 U	0.25	360	279
ND<0.5 U	ND<0.25 U	0.25	361	279
ND<0.5 U	ND<0.25 U	0.25	362	279
ND<0.5 U	ND<0.25 U	0.25	363	279
ND<0.5 U	ND<0.25 U	0.25	364	279
ND<0.5 U	ND<0.25 U	0.25	365	279
ND<0.5 U	ND<0.25 U	0.25	366	279
ND<0.5 U	ND<0.25 U	0.25	367	279
ND<0.5 U	ND<0.25 U	0.25	368	279
ND<0.5 U	ND<0.25 U	0.25	369	279
ND<0.5 U	ND<0.25 U	0.25	370	279
ND<0.5 U	ND<0.25 U	0.25	371	279
ND<0.5 U	ND<0.25 U	0.25	372	279
1.5	ND<0.25 U	1.25	373	279
ND<0.5 U	ND<0.25 U	0.25	374	279
ND<0.5 U	ND<0.25 U	0.25	375	279
ND<0.25 U	ND<0.25 U	0	375	279
ND<0.5 U	ND<0.25 U	0.25	376	279
ND<0.5 U	ND<0.25 U	0.25	377	279
ND<0.5 U	ND<0.25 U	0.25	378	279
ND<0.5 U	ND<0.25 U	0.25	379	279
ND<0.5 U	ND<0.25 U	0.25	380	279
ND<0.5 U	ND<0.25 U	0.25	381	279
ND<0.5 U	ND<0.25 U	0.25	382	279
ND<0.5 U	ND<0.25 U	0.25	383	279
ND<0.5 U	ND<0.25 U	0.25	384	279
ND<0.5 U	ND<0.25 U	0.25	385	279
ND<0.5 U	ND<0.25 U	0.25	386	279
ND<0.5 U	ND<0.25 U	0.25	387	279
ND<0.5 U	ND<0.25 U	0.25	388	279
ND<0.5 U	ND<0.25 U	0.25	389	279
ND<0.5 U	ND<0.25 U	0.25	390	279
ND<0.5 U	ND<0.25 U	0.25	391	279
1.5	ND<0.25 U	1.25	392	279
ND<0.5 U	ND<0.25 U	0.25	393	279
ND<0.5 U	ND<0.25 U	0.25	394	279
ND<0.5 U	ND<0.25 U	0.25	395	279
ND<0.5 U	ND<0.25 U	0.25	396	279
ND<0.5 U	ND<0.25 U	0.25	397	279
ND<0.5 U	ND<0.25 U	0.25	398	279
ND<0.5 U	ND<0.25 U	0.25	399	279
ND<0.5 U	ND<0.25 U	0.25	400	279
ND<0.5 U	ND<0.25 U	0.25	401	279
ND<0.5 U	ND<0.25 U	0.25	402	279
ND<0.5 U	ND<0.25 U	0.25	403	279
ND<0.5 U	ND<0.25 U	0.25	404	279
ND<0.5 U	ND<0.25 U	0.25	405	279
ND<0.5 U	ND<0.25 U	0.25	406	279
ND<0.5 U	ND<0.25 U	0.25	407	279
ND<0.5 U	ND<0.25 U	0.25	408	279
ND<0.5 U	ND<0.25 U	0.25	409	279
ND<0.5 U	ND<0.25 U	0.25	410	279
1.5	ND<0.25 U	1.25	411	279
ND<0.5 U	ND<0.25 U	0.25	412	279
ND<0.5 U	ND<0.25 U	0.25	413	279

ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
ND<0.5 U	ND<0.5 U	0	413	279
1.5	ND<0.5 U	1	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
ND<0.5 U	ND<0.5 U	0	414	279
1.5	ND<0.5 U	1	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
ND<0.5 U	ND<0.5 U	0	415	279
1.5	ND<0.5 U	1	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279

ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
ND<0.5 U	ND<0.5 U	0	416	279
1.5	ND<0.5 U	1	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
ND<0.5 U	ND<0.5 U	0	417	279
1.5	ND<0.5 U	1	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
ND<0.5 U	ND<0.5 U	0	418	279
1.5	ND<0.5 U	1	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
ND<0.5 U	ND<0.5 U	0	419	279
1.5	ND<0.5 U	1	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279

ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
ND<0.5 U	ND<0.5 U	0	420	279
1.5	ND<0.5 U	1	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
ND<0.5 U	ND<0.5 U	0	421	279
1.5	ND<0.5 U	1	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
ND<0.5 U	ND<0.5 U	0	422	279
1.5	ND<0.5 U	1	423	279
ND<0.5 U	ND<0.5 U	0	423	279
ND<0.5 U	ND<0.5 U	0	423	279
ND<0.5 U	ND<0.5 U	0	423	279
ND<0.5 U	ND<0.5 U	0	423	279
ND<0.5 U	ND<0.5 U	0	423	279
ND<0.5 U	ND<0.5 U	0	423	279
ND<0.5 U	ND<0.5 U	0	423	279
1.5	ND<0.5 U	1	424	279
ND<0.5 U	ND<0.5 U	0	424	279
ND<0.5 U	ND<0.5 U	0	424	279
ND<0.5 U	ND<0.5 U	0	424	279
ND<0.5 U	ND<0.5 U	0	424	279
ND<0.5 U	ND<0.5 U	0	424	279
ND<0.5 U	ND<0.5 U	0	424	279
1.5	ND<0.5 U	1	425	279
ND<0.5 U	ND<0.5 U	0	425	279
ND<0.5 U	ND<0.5 U	0	425	279
ND<0.5 U	ND<0.5 U	0	425	279
ND<0.5 U	ND<0.5 U	0	425	279
ND<0.5 U	ND<0.5 U	0	425	279
1.5	ND<0.5 U	1	426	279
ND<0.5 U	ND<0.5 U	0	426	279
ND<0.5 U	ND<0.5 U	0	426	279
ND<0.5 U	ND<0.5 U	0	426	279

ND<0.5 U	ND<0.5 U	0	426	279
1.5	ND<0.5 U	1	427	279
ND<0.5 U	ND<0.5 U	0	427	279
ND<0.5 U	ND<0.5 U	0	427	279
ND<0.5 U	ND<0.5 U	0	427	279
1.5	ND<0.5 U	1	428	279
ND<0.5 U	ND<0.5 U	0	428	279
ND<0.5 U	ND<0.5 U	0	428	279
1.5	ND<0.5 U	1	429	279
ND<0.5 U	ND<0.5 U	0	429	279
ND<0.5 U	ND<0.5 U	0	429	279
ND<0.5 U	1.5	-1	429	280
ND<0.5 U	1.5	-1	429	281
ND<0.5 U	ND<0.5 U	0	429	281

S Statistic = 429 - 281 = 148

Tied Group	**Value**	**Members**
1	0.5	29
2	0.25	21

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1

```
5/24/2012                       1
6/15/2012                       1
7/26/2012                       1
8/15/2012                       1
9/11/2012                       1
10/18/2012                      1
11/14/2012                      1
12/5/2012                       1
1/29/2013                       1
7/29/2013                       1
1/31/2014                       1
7/17/2014                       1
1/27/2015                       1
7/21/2015                       1
1/27/2016                       1
7/26/2016                       1
1/30/2017                       1
7/24/2017                       1
1/29/2018                       1
7/24/2018                       1
1/30/2019                       1
7/29/2019                       1
There are 0 time periods with multiple data
```

```
A = 70896
B = 0
C = 29904
D = 0
E = 1232
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 12120.7
Z-Score = 1.33522
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.33522| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
0.71	ND<0.5 U	0.21	2	4
ND<0.25 U	ND<0.5 U	-0.25	2	5
ND<0.25 U	ND<0.5 U	-0.25	2	6
ND<0.25 U	ND<0.5 U	-0.25	2	7
ND<0.25 U	ND<0.5 U	-0.25	2	8
ND<0.25 U	ND<0.5 U	-0.25	2	9
ND<0.25 U	ND<0.5 U	-0.25	2	10
ND<0.25 U	ND<0.5 U	-0.25	2	11
ND<0.25 U	ND<0.5 U	-0.25	2	12
ND<0.25 U	ND<0.5 U	-0.25	2	13
ND<0.25 U	ND<0.5 U	-0.25	2	14
ND<0.25 U	ND<0.5 U	-0.25	2	15
ND<0.25 U	ND<0.5 U	-0.25	2	16
ND<0.25 U	ND<0.5 U	-0.25	2	17
ND<0.25 U	ND<0.5 U	-0.25	2	18
ND<0.25 U	ND<0.5 U	-0.25	2	19
ND<0.25 U	ND<0.5 U	-0.25	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20

ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
ND<0.5 U	ND<0.5 U	0	2	20
2.1	ND<0.5 U	1.6	3	20
ND<0.5 U	ND<0.5 U	0	3	20
ND<0.5 U	ND<0.5 U	0	3	20
ND<1 U	ND<0.5 U	0.5	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.5 U	ND<0.5 U	0	4	20
ND<0.25 U	ND<0.5 U	-0.25	4	21
ND<0.25 U	ND<0.5 U	-0.25	4	22
ND<0.25 U	ND<0.5 U	-0.25	4	23
ND<0.25 U	ND<0.5 U	-0.25	4	24
0.71	ND<0.5 U	0.21	5	24
ND<0.25 U	ND<0.5 U	-0.25	5	25
ND<0.25 U	ND<0.5 U	-0.25	5	26
ND<0.25 U	ND<0.5 U	-0.25	5	27
ND<0.25 U	ND<0.5 U	-0.25	5	28
ND<0.25 U	ND<0.5 U	-0.25	5	29
ND<0.25 U	ND<0.5 U	-0.25	5	30
ND<0.25 U	ND<0.5 U	-0.25	5	31
ND<0.25 U	ND<0.5 U	-0.25	5	32
ND<0.25 U	ND<0.5 U	-0.25	5	33
ND<0.25 U	ND<0.5 U	-0.25	5	34
ND<0.25 U	ND<0.5 U	-0.25	5	35
ND<0.25 U	ND<0.5 U	-0.25	5	36
ND<0.25 U	ND<0.5 U	-0.25	5	37
ND<0.25 U	ND<0.5 U	-0.25	5	38
ND<0.25 U	ND<0.5 U	-0.25	5	39
ND<0.25 U	ND<0.5 U	-0.25	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40

ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
ND<0.5 U	ND<0.5 U	0	5	40
2.1	ND<0.5 U	1.6	6	40
ND<0.5 U	ND<0.5 U	0	6	40
ND<0.5 U	ND<0.5 U	0	6	40

ND<0.5 U	ND<1 U	-0.5	6	41
ND<0.5 U	ND<1 U	-0.5	6	42
ND<0.5 U	ND<1 U	-0.5	6	43
ND<0.5 U	ND<1 U	-0.5	6	44
ND<0.5 U	ND<1 U	-0.5	6	45
ND<0.5 U	ND<1 U	-0.5	6	46
ND<0.5 U	ND<1 U	-0.5	6	47
ND<0.5 U	ND<1 U	-0.5	6	48
ND<0.5 U	ND<1 U	-0.5	6	49
ND<0.25 U	ND<1 U	-0.75	6	50
ND<0.25 U	ND<1 U	-0.75	6	51
ND<0.25 U	ND<1 U	-0.75	6	52
ND<0.25 U	ND<1 U	-0.75	6	53
0.71	ND<1 U	-0.29	6	54
ND<0.25 U	ND<1 U	-0.75	6	55
ND<0.25 U	ND<1 U	-0.75	6	56
ND<0.25 U	ND<1 U	-0.75	6	57
ND<0.25 U	ND<1 U	-0.75	6	58
ND<0.25 U	ND<1 U	-0.75	6	59
ND<0.25 U	ND<1 U	-0.75	6	60
ND<0.25 U	ND<1 U	-0.75	6	61
ND<0.25 U	ND<1 U	-0.75	6	62
ND<0.25 U	ND<1 U	-0.75	6	63
ND<0.25 U	ND<1 U	-0.75	6	64
ND<0.25 U	ND<1 U	-0.75	6	65
ND<0.25 U	ND<1 U	-0.75	6	66
ND<0.25 U	ND<1 U	-0.75	6	67
ND<0.25 U	ND<1 U	-0.75	6	68
ND<0.25 U	ND<1 U	-0.75	6	69
ND<0.25 U	ND<1 U	-0.75	6	70
ND<0.5 U	ND<1 U	-0.5	6	71
ND<0.5 U	ND<1 U	-0.5	6	72

ND<0.5 U	ND<1 U	-0.5	6	73
ND<0.5 U	ND<1 U	-0.5	6	74
ND<0.5 U	ND<1 U	-0.5	6	75
ND<0.5 U	ND<1 U	-0.5	6	76
ND<0.5 U	ND<1 U	-0.5	6	77
ND<0.5 U	ND<1 U	-0.5	6	78
ND<0.5 U	ND<1 U	-0.5	6	79
ND<0.5 U	ND<1 U	-0.5	6	80
ND<0.5 U	ND<1 U	-0.5	6	81
ND<0.5 U	ND<1 U	-0.5	6	82
ND<0.5 U	ND<1 U	-0.5	6	83
ND<0.5 U	ND<1 U	-0.5	6	84
ND<0.5 U	ND<1 U	-0.5	6	85
ND<0.5 U	ND<1 U	-0.5	6	86
ND<0.5 U	ND<1 U	-0.5	6	87
ND<0.5 U	ND<1 U	-0.5	6	88
ND<0.5 U	ND<1 U	-0.5	6	89
ND<0.5 U	ND<1 U	-0.5	6	90
ND<0.5 U	ND<1 U	-0.5	6	91
ND<0.5 U	ND<1 U	-0.5	6	92
ND<0.5 U	ND<1 U	-0.5	6	93
ND<0.5 U	ND<1 U	-0.5	6	94
ND<0.5 U	ND<1 U	-0.5	6	95
ND<0.5 U	ND<1 U	-0.5	6	96
ND<0.5 U	ND<1 U	-0.5	6	97
ND<0.5 U	ND<1 U	-0.5	6	98
ND<0.5 U	ND<1 U	-0.5	6	99
2.1	ND<1 U	1.1	7	99
ND<0.5 U	ND<1 U	-0.5	7	100
ND<0.5 U	ND<1 U	-0.5	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.5 U	ND<0.5 U	0	7	101
ND<0.25 U	ND<0.5 U	-0.25	7	102
ND<0.25 U	ND<0.5 U	-0.25	7	103
ND<0.25 U	ND<0.5 U	-0.25	7	104
ND<0.25 U	ND<0.5 U	-0.25	7	105
0.71	ND<0.5 U	0.21	8	105
ND<0.25 U	ND<0.5 U	-0.25	8	106
ND<0.25 U	ND<0.5 U	-0.25	8	107
ND<0.25 U	ND<0.5 U	-0.25	8	108
ND<0.25 U	ND<0.5 U	-0.25	8	109
ND<0.25 U	ND<0.5 U	-0.25	8	110
ND<0.25 U	ND<0.5 U	-0.25	8	111
ND<0.25 U	ND<0.5 U	-0.25	8	112
ND<0.25 U	ND<0.5 U	-0.25	8	113
ND<0.25 U	ND<0.5 U	-0.25	8	114
ND<0.25 U	ND<0.5 U	-0.25	8	115
ND<0.25 U	ND<0.5 U	-0.25	8	116
ND<0.25 U	ND<0.5 U	-0.25	8	117
ND<0.25 U	ND<0.5 U	-0.25	8	118

ND<0.25 U	ND<0.5 U	-0.25	8	119
ND<0.25 U	ND<0.5 U	-0.25	8	120
ND<0.25 U	ND<0.5 U	-0.25	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
ND<0.5 U	ND<0.5 U	0	8	121
2.1	ND<0.5 U	1.6	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.5 U	ND<0.5 U	0	9	121
ND<0.25 U	ND<0.5 U	-0.25	9	122
ND<0.25 U	ND<0.5 U	-0.25	9	123
ND<0.25 U	ND<0.5 U	-0.25	9	124
ND<0.25 U	ND<0.5 U	-0.25	9	125
0.71	ND<0.5 U	0.21	10	125
ND<0.25 U	ND<0.5 U	-0.25	10	126
ND<0.25 U	ND<0.5 U	-0.25	10	127
ND<0.25 U	ND<0.5 U	-0.25	10	128
ND<0.25 U	ND<0.5 U	-0.25	10	129
ND<0.25 U	ND<0.5 U	-0.25	10	130
ND<0.25 U	ND<0.5 U	-0.25	10	131
ND<0.25 U	ND<0.5 U	-0.25	10	132
ND<0.25 U	ND<0.5 U	-0.25	10	133
ND<0.25 U	ND<0.5 U	-0.25	10	134

ND<0.25 U	ND<0.5 U	-0.25	10	135
ND<0.25 U	ND<0.5 U	-0.25	10	136
ND<0.25 U	ND<0.5 U	-0.25	10	137
ND<0.25 U	ND<0.5 U	-0.25	10	138
ND<0.25 U	ND<0.5 U	-0.25	10	139
ND<0.25 U	ND<0.5 U	-0.25	10	140
ND<0.25 U	ND<0.5 U	-0.25	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
ND<0.5 U	ND<0.5 U	0	10	141
2.1	ND<0.5 U	1.6	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.5 U	ND<0.5 U	0	11	141
ND<0.25 U	ND<0.5 U	-0.25	11	142
ND<0.25 U	ND<0.5 U	-0.25	11	143
ND<0.25 U	ND<0.5 U	-0.25	11	144
ND<0.25 U	ND<0.5 U	-0.25	11	145
0.71	ND<0.5 U	0.21	12	145
ND<0.25 U	ND<0.5 U	-0.25	12	146
ND<0.25 U	ND<0.5 U	-0.25	12	147
ND<0.25 U	ND<0.5 U	-0.25	12	148
ND<0.25 U	ND<0.5 U	-0.25	12	149
ND<0.25 U	ND<0.5 U	-0.25	12	150
ND<0.25 U	ND<0.5 U	-0.25	12	151

ND<0.25 U	ND<0.5 U	-0.25	12	152
ND<0.25 U	ND<0.5 U	-0.25	12	153
ND<0.25 U	ND<0.5 U	-0.25	12	154
ND<0.25 U	ND<0.5 U	-0.25	12	155
ND<0.25 U	ND<0.5 U	-0.25	12	156
ND<0.25 U	ND<0.5 U	-0.25	12	157
ND<0.25 U	ND<0.5 U	-0.25	12	158
ND<0.25 U	ND<0.5 U	-0.25	12	159
ND<0.25 U	ND<0.5 U	-0.25	12	160
ND<0.25 U	ND<0.5 U	-0.25	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
ND<0.5 U	ND<0.5 U	0	12	161
2.1	ND<0.5 U	1.6	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.5 U	ND<0.5 U	0	13	161
ND<0.25 U	ND<0.5 U	-0.25	13	162
ND<0.25 U	ND<0.5 U	-0.25	13	163
ND<0.25 U	ND<0.5 U	-0.25	13	164
ND<0.25 U	ND<0.5 U	-0.25	13	165
0.71	ND<0.5 U	0.21	14	165
ND<0.25 U	ND<0.5 U	-0.25	14	166
ND<0.25 U	ND<0.5 U	-0.25	14	167
ND<0.25 U	ND<0.5 U	-0.25	14	168
ND<0.25 U	ND<0.5 U	-0.25	14	169

ND<0.25 U	ND<0.5 U	-0.25	14	170
ND<0.25 U	ND<0.5 U	-0.25	14	171
ND<0.25 U	ND<0.5 U	-0.25	14	172
ND<0.25 U	ND<0.5 U	-0.25	14	173
ND<0.25 U	ND<0.5 U	-0.25	14	174
ND<0.25 U	ND<0.5 U	-0.25	14	175
ND<0.25 U	ND<0.5 U	-0.25	14	176
ND<0.25 U	ND<0.5 U	-0.25	14	177
ND<0.25 U	ND<0.5 U	-0.25	14	178
ND<0.25 U	ND<0.5 U	-0.25	14	179
ND<0.25 U	ND<0.5 U	-0.25	14	180
ND<0.25 U	ND<0.5 U	-0.25	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
ND<0.5 U	ND<0.5 U	0	14	181
2.1	ND<0.5 U	1.6	15	181
ND<0.5 U	ND<0.5 U	0	15	181
ND<0.5 U	ND<0.5 U	0	15	181
ND<0.5 U	ND<0.5 U	0	15	181
ND<0.5 U	ND<0.5 U	0	15	181
ND<0.5 U	ND<0.5 U	0	15	181
ND<0.5 U	ND<0.5 U	0	15	181
ND<0.25 U	ND<0.5 U	-0.25	15	182
ND<0.25 U	ND<0.5 U	-0.25	15	183
ND<0.25 U	ND<0.5 U	-0.25	15	184
ND<0.25 U	ND<0.5 U	-0.25	15	185
0.71	ND<0.5 U	0.21	16	185
ND<0.25 U	ND<0.5 U	-0.25	16	186
ND<0.25 U	ND<0.5 U	-0.25	16	187
ND<0.25 U	ND<0.5 U	-0.25	16	188

ND<0.25 U	ND<0.5 U	-0.25	16	189
ND<0.25 U	ND<0.5 U	-0.25	16	190
ND<0.25 U	ND<0.5 U	-0.25	16	191
ND<0.25 U	ND<0.5 U	-0.25	16	192
ND<0.25 U	ND<0.5 U	-0.25	16	193
ND<0.25 U	ND<0.5 U	-0.25	16	194
ND<0.25 U	ND<0.5 U	-0.25	16	195
ND<0.25 U	ND<0.5 U	-0.25	16	196
ND<0.25 U	ND<0.5 U	-0.25	16	197
ND<0.25 U	ND<0.5 U	-0.25	16	198
ND<0.25 U	ND<0.5 U	-0.25	16	199
ND<0.25 U	ND<0.5 U	-0.25	16	200
ND<0.25 U	ND<0.5 U	-0.25	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
ND<0.5 U	ND<0.5 U	0	16	201
2.1	ND<0.5 U	1.6	17	201
ND<0.5 U	ND<0.5 U	0	17	201
ND<0.5 U	ND<0.5 U	0	17	201
ND<0.5 U	ND<0.5 U	0	17	201
ND<0.5 U	ND<0.5 U	0	17	201
ND<0.5 U	ND<0.5 U	0	17	201
ND<0.25 U	ND<0.5 U	-0.25	17	202
ND<0.25 U	ND<0.5 U	-0.25	17	203
ND<0.25 U	ND<0.5 U	-0.25	17	204
ND<0.25 U	ND<0.5 U	-0.25	17	205
0.71	ND<0.5 U	0.21	18	205
ND<0.25 U	ND<0.5 U	-0.25	18	206
ND<0.25 U	ND<0.5 U	-0.25	18	207
ND<0.25 U	ND<0.5 U	-0.25	18	208

ND<0.25 U	ND<0.5 U	-0.25	18	209
ND<0.25 U	ND<0.5 U	-0.25	18	210
ND<0.25 U	ND<0.5 U	-0.25	18	211
ND<0.25 U	ND<0.5 U	-0.25	18	212
ND<0.25 U	ND<0.5 U	-0.25	18	213
ND<0.25 U	ND<0.5 U	-0.25	18	214
ND<0.25 U	ND<0.5 U	-0.25	18	215
ND<0.25 U	ND<0.5 U	-0.25	18	216
ND<0.25 U	ND<0.5 U	-0.25	18	217
ND<0.25 U	ND<0.5 U	-0.25	18	218
ND<0.25 U	ND<0.5 U	-0.25	18	219
ND<0.25 U	ND<0.5 U	-0.25	18	220
ND<0.25 U	ND<0.5 U	-0.25	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
ND<0.5 U	ND<0.5 U	0	18	221
2.1	ND<0.5 U	1.6	19	221
ND<0.5 U	ND<0.5 U	0	19	221
ND<0.5 U	ND<0.5 U	0	19	221
ND<0.5 U	ND<0.5 U	0	19	221
ND<0.5 U	ND<0.5 U	0	19	221
ND<0.25 U	ND<0.5 U	-0.25	19	222
ND<0.25 U	ND<0.5 U	-0.25	19	223
ND<0.25 U	ND<0.5 U	-0.25	19	224
ND<0.25 U	ND<0.5 U	-0.25	19	225
0.71	ND<0.5 U	0.21	20	225
ND<0.25 U	ND<0.5 U	-0.25	20	226
ND<0.25 U	ND<0.5 U	-0.25	20	227
ND<0.25 U	ND<0.5 U	-0.25	20	228
ND<0.25 U	ND<0.5 U	-0.25	20	229

ND<0.25 U	ND<0.5 U	-0.25	20	230
ND<0.25 U	ND<0.5 U	-0.25	20	231
ND<0.25 U	ND<0.5 U	-0.25	20	232
ND<0.25 U	ND<0.5 U	-0.25	20	233
ND<0.25 U	ND<0.5 U	-0.25	20	234
ND<0.25 U	ND<0.5 U	-0.25	20	235
ND<0.25 U	ND<0.5 U	-0.25	20	236
ND<0.25 U	ND<0.5 U	-0.25	20	237
ND<0.25 U	ND<0.5 U	-0.25	20	238
ND<0.25 U	ND<0.5 U	-0.25	20	239
ND<0.25 U	ND<0.5 U	-0.25	20	240
ND<0.25 U	ND<0.5 U	-0.25	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
ND<0.5 U	ND<0.5 U	0	20	241
2.1	ND<0.5 U	1.6	21	241
ND<0.5 U	ND<0.5 U	0	21	241
ND<0.5 U	ND<0.5 U	0	21	241
ND<0.5 U	ND<0.5 U	0	21	241
ND<0.25 U	ND<0.5 U	-0.25	21	242
ND<0.25 U	ND<0.5 U	-0.25	21	243
ND<0.25 U	ND<0.5 U	-0.25	21	244
ND<0.25 U	ND<0.5 U	-0.25	21	245
0.71	ND<0.5 U	0.21	22	245
ND<0.25 U	ND<0.5 U	-0.25	22	246
ND<0.25 U	ND<0.5 U	-0.25	22	247
ND<0.25 U	ND<0.5 U	-0.25	22	248
ND<0.25 U	ND<0.5 U	-0.25	22	249
ND<0.25 U	ND<0.5 U	-0.25	22	250
ND<0.25 U	ND<0.5 U	-0.25	22	251

ND<0.25 U	ND<0.5 U	-0.25	22	252
ND<0.25 U	ND<0.5 U	-0.25	22	253
ND<0.25 U	ND<0.5 U	-0.25	22	254
ND<0.25 U	ND<0.5 U	-0.25	22	255
ND<0.25 U	ND<0.5 U	-0.25	22	256
ND<0.25 U	ND<0.5 U	-0.25	22	257
ND<0.25 U	ND<0.5 U	-0.25	22	258
ND<0.25 U	ND<0.5 U	-0.25	22	259
ND<0.25 U	ND<0.5 U	-0.25	22	260
ND<0.25 U	ND<0.5 U	-0.25	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
ND<0.5 U	ND<0.5 U	0	22	261
2.1	ND<0.5 U	1.6	23	261
ND<0.5 U	ND<0.5 U	0	23	261
ND<0.5 U	ND<0.5 U	0	23	261
ND<0.25 U	ND<0.5 U	-0.25	23	262
ND<0.25 U	ND<0.5 U	-0.25	23	263
ND<0.25 U	ND<0.5 U	-0.25	23	264
ND<0.25 U	ND<0.5 U	-0.25	23	265
0.71	ND<0.5 U	0.21	24	265
ND<0.25 U	ND<0.5 U	-0.25	24	266
ND<0.25 U	ND<0.5 U	-0.25	24	267
ND<0.25 U	ND<0.5 U	-0.25	24	268
ND<0.25 U	ND<0.5 U	-0.25	24	269
ND<0.25 U	ND<0.5 U	-0.25	24	270
ND<0.25 U	ND<0.5 U	-0.25	24	271
ND<0.25 U	ND<0.5 U	-0.25	24	272
ND<0.25 U	ND<0.5 U	-0.25	24	273
ND<0.25 U	ND<0.5 U	-0.25	24	274

ND<0.25 U	ND<0.5 U	-0.25	24	275
ND<0.25 U	ND<0.5 U	-0.25	24	276
ND<0.25 U	ND<0.5 U	-0.25	24	277
ND<0.25 U	ND<0.5 U	-0.25	24	278
ND<0.25 U	ND<0.5 U	-0.25	24	279
ND<0.25 U	ND<0.5 U	-0.25	24	280
ND<0.25 U	ND<0.5 U	-0.25	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
ND<0.5 U	ND<0.5 U	0	24	281
2.1	ND<0.5 U	1.6	25	281
ND<0.5 U	ND<0.5 U	0	25	281
ND<0.5 U	ND<0.5 U	0	25	281
ND<0.25 U	ND<0.25 U	0	25	281
ND<0.25 U	ND<0.25 U	0	25	281
ND<0.25 U	ND<0.25 U	0	25	281
0.71	ND<0.25 U	0.46	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281

ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.25 U	ND<0.25 U	0	26	281
ND<0.5 U	ND<0.25 U	0.25	27	281
ND<0.5 U	ND<0.25 U	0.25	28	281
ND<0.5 U	ND<0.25 U	0.25	29	281
ND<0.5 U	ND<0.25 U	0.25	30	281
ND<0.5 U	ND<0.25 U	0.25	31	281
ND<0.5 U	ND<0.25 U	0.25	32	281
ND<0.5 U	ND<0.25 U	0.25	33	281
ND<0.5 U	ND<0.25 U	0.25	34	281
ND<0.5 U	ND<0.25 U	0.25	35	281
ND<0.5 U	ND<0.25 U	0.25	36	281
ND<0.5 U	ND<0.25 U	0.25	37	281
ND<0.5 U	ND<0.25 U	0.25	38	281
ND<0.5 U	ND<0.25 U	0.25	39	281
ND<0.5 U	ND<0.25 U	0.25	40	281
ND<0.5 U	ND<0.25 U	0.25	41	281
ND<0.5 U	ND<0.25 U	0.25	42	281
ND<0.5 U	ND<0.25 U	0.25	43	281
ND<0.5 U	ND<0.25 U	0.25	44	281
ND<0.5 U	ND<0.25 U	0.25	45	281
ND<0.5 U	ND<0.25 U	0.25	46	281
ND<0.5 U	ND<0.25 U	0.25	47	281
ND<0.5 U	ND<0.25 U	0.25	48	281
ND<0.5 U	ND<0.25 U	0.25	49	281
ND<0.5 U	ND<0.25 U	0.25	50	281
ND<0.5 U	ND<0.25 U	0.25	51	281
ND<0.5 U	ND<0.25 U	0.25	52	281
ND<0.5 U	ND<0.25 U	0.25	53	281
ND<0.5 U	ND<0.25 U	0.25	54	281
ND<0.5 U	ND<0.25 U	0.25	55	281
2.1	ND<0.25 U	1.85	56	281
ND<0.5 U	ND<0.25 U	0.25	57	281
ND<0.5 U	ND<0.25 U	0.25	58	281
ND<0.25 U	ND<0.25 U	0	58	281
ND<0.25 U	ND<0.25 U	0	58	281
0.71	ND<0.25 U	0.46	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.25 U	ND<0.25 U	0	59	281
ND<0.5 U	ND<0.25 U	0.25	60	281
ND<0.5 U	ND<0.25 U	0.25	61	281

ND<0.5 U	ND<0.25 U	0.25	62	281
ND<0.5 U	ND<0.25 U	0.25	63	281
ND<0.5 U	ND<0.25 U	0.25	64	281
ND<0.5 U	ND<0.25 U	0.25	65	281
ND<0.5 U	ND<0.25 U	0.25	66	281
ND<0.5 U	ND<0.25 U	0.25	67	281
ND<0.5 U	ND<0.25 U	0.25	68	281
ND<0.5 U	ND<0.25 U	0.25	69	281
ND<0.5 U	ND<0.25 U	0.25	70	281
ND<0.5 U	ND<0.25 U	0.25	71	281
ND<0.5 U	ND<0.25 U	0.25	72	281
ND<0.5 U	ND<0.25 U	0.25	73	281
ND<0.5 U	ND<0.25 U	0.25	74	281
ND<0.5 U	ND<0.25 U	0.25	75	281
ND<0.5 U	ND<0.25 U	0.25	76	281
ND<0.5 U	ND<0.25 U	0.25	77	281
ND<0.5 U	ND<0.25 U	0.25	78	281
ND<0.5 U	ND<0.25 U	0.25	79	281
ND<0.5 U	ND<0.25 U	0.25	80	281
ND<0.5 U	ND<0.25 U	0.25	81	281
ND<0.5 U	ND<0.25 U	0.25	82	281
ND<0.5 U	ND<0.25 U	0.25	83	281
ND<0.5 U	ND<0.25 U	0.25	84	281
ND<0.5 U	ND<0.25 U	0.25	85	281
ND<0.5 U	ND<0.25 U	0.25	86	281
ND<0.5 U	ND<0.25 U	0.25	87	281
ND<0.5 U	ND<0.25 U	0.25	88	281
2.1	ND<0.25 U	1.85	89	281
ND<0.5 U	ND<0.25 U	0.25	90	281
ND<0.5 U	ND<0.25 U	0.25	91	281
ND<0.25 U	ND<0.25 U	0	91	281
0.71	ND<0.25 U	0.46	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.25 U	ND<0.25 U	0	92	281
ND<0.5 U	ND<0.25 U	0.25	93	281
ND<0.5 U	ND<0.25 U	0.25	94	281
ND<0.5 U	ND<0.25 U	0.25	95	281
ND<0.5 U	ND<0.25 U	0.25	96	281
ND<0.5 U	ND<0.25 U	0.25	97	281
ND<0.5 U	ND<0.25 U	0.25	98	281
ND<0.5 U	ND<0.25 U	0.25	99	281
ND<0.5 U	ND<0.25 U	0.25	100	281

ND<0.5 U	ND<0.25 U	0.25	101	281
ND<0.5 U	ND<0.25 U	0.25	102	281
ND<0.5 U	ND<0.25 U	0.25	103	281
ND<0.5 U	ND<0.25 U	0.25	104	281
ND<0.5 U	ND<0.25 U	0.25	105	281
ND<0.5 U	ND<0.25 U	0.25	106	281
ND<0.5 U	ND<0.25 U	0.25	107	281
ND<0.5 U	ND<0.25 U	0.25	108	281
ND<0.5 U	ND<0.25 U	0.25	109	281
ND<0.5 U	ND<0.25 U	0.25	110	281
ND<0.5 U	ND<0.25 U	0.25	111	281
ND<0.5 U	ND<0.25 U	0.25	112	281
ND<0.5 U	ND<0.25 U	0.25	113	281
ND<0.5 U	ND<0.25 U	0.25	114	281
ND<0.5 U	ND<0.25 U	0.25	115	281
ND<0.5 U	ND<0.25 U	0.25	116	281
ND<0.5 U	ND<0.25 U	0.25	117	281
ND<0.5 U	ND<0.25 U	0.25	118	281
ND<0.5 U	ND<0.25 U	0.25	119	281
ND<0.5 U	ND<0.25 U	0.25	120	281
ND<0.5 U	ND<0.25 U	0.25	121	281
2.1	ND<0.25 U	1.85	122	281
ND<0.5 U	ND<0.25 U	0.25	123	281
ND<0.5 U	ND<0.25 U	0.25	124	281
0.71	ND<0.25 U	0.46	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.25 U	ND<0.25 U	0	125	281
ND<0.5 U	ND<0.25 U	0.25	126	281
ND<0.5 U	ND<0.25 U	0.25	127	281
ND<0.5 U	ND<0.25 U	0.25	128	281
ND<0.5 U	ND<0.25 U	0.25	129	281
ND<0.5 U	ND<0.25 U	0.25	130	281
ND<0.5 U	ND<0.25 U	0.25	131	281
ND<0.5 U	ND<0.25 U	0.25	132	281
ND<0.5 U	ND<0.25 U	0.25	133	281
ND<0.5 U	ND<0.25 U	0.25	134	281
ND<0.5 U	ND<0.25 U	0.25	135	281
ND<0.5 U	ND<0.25 U	0.25	136	281
ND<0.5 U	ND<0.25 U	0.25	137	281
ND<0.5 U	ND<0.25 U	0.25	138	281
ND<0.5 U	ND<0.25 U	0.25	139	281
ND<0.5 U	ND<0.25 U	0.25	140	281

ND<0.5 U	ND<0.25 U	0.25	141	281
ND<0.5 U	ND<0.25 U	0.25	142	281
ND<0.5 U	ND<0.25 U	0.25	143	281
ND<0.5 U	ND<0.25 U	0.25	144	281
ND<0.5 U	ND<0.25 U	0.25	145	281
ND<0.5 U	ND<0.25 U	0.25	146	281
ND<0.5 U	ND<0.25 U	0.25	147	281
ND<0.5 U	ND<0.25 U	0.25	148	281
ND<0.5 U	ND<0.25 U	0.25	149	281
ND<0.5 U	ND<0.25 U	0.25	150	281
ND<0.5 U	ND<0.25 U	0.25	151	281
ND<0.5 U	ND<0.25 U	0.25	152	281
ND<0.5 U	ND<0.25 U	0.25	153	281
ND<0.5 U	ND<0.25 U	0.25	154	281
2.1	ND<0.25 U	1.85	155	281
ND<0.5 U	ND<0.25 U	0.25	156	281
ND<0.5 U	ND<0.25 U	0.25	157	281

ND<0.25 U	0.71	-0.46	157	282
ND<0.25 U	0.71	-0.46	157	283
ND<0.25 U	0.71	-0.46	157	284
ND<0.25 U	0.71	-0.46	157	285
ND<0.25 U	0.71	-0.46	157	286
ND<0.25 U	0.71	-0.46	157	287
ND<0.25 U	0.71	-0.46	157	288
ND<0.25 U	0.71	-0.46	157	289
ND<0.25 U	0.71	-0.46	157	290
ND<0.25 U	0.71	-0.46	157	291
ND<0.25 U	0.71	-0.46	157	292
ND<0.25 U	0.71	-0.46	157	293
ND<0.25 U	0.71	-0.46	157	294
ND<0.25 U	0.71	-0.46	157	295
ND<0.25 U	0.71	-0.46	157	296
ND<0.25 U	0.71	-0.46	157	297
ND<0.5 U	0.71	-0.21	157	298
ND<0.5 U	0.71	-0.21	157	299
ND<0.5 U	0.71	-0.21	157	300
ND<0.5 U	0.71	-0.21	157	301
ND<0.5 U	0.71	-0.21	157	302
ND<0.5 U	0.71	-0.21	157	303
ND<0.5 U	0.71	-0.21	157	304
ND<0.5 U	0.71	-0.21	157	305
ND<0.5 U	0.71	-0.21	157	306
ND<0.5 U	0.71	-0.21	157	307
ND<0.5 U	0.71	-0.21	157	308
ND<0.5 U	0.71	-0.21	157	309
ND<0.5 U	0.71	-0.21	157	310
ND<0.5 U	0.71	-0.21	157	311
ND<0.5 U	0.71	-0.21	157	312
ND<0.5 U	0.71	-0.21	157	313
ND<0.5 U	0.71	-0.21	157	314
ND<0.5 U	0.71	-0.21	157	315
ND<0.5 U	0.71	-0.21	157	316
ND<0.5 U	0.71	-0.21	157	317
ND<0.5 U	0.71	-0.21	157	318
ND<0.5 U	0.71	-0.21	157	319
ND<0.5 U	0.71	-0.21	157	320

ND<0.5 U	0.71	-0.21	157	321
ND<0.5 U	0.71	-0.21	157	322
ND<0.5 U	0.71	-0.21	157	323
ND<0.5 U	0.71	-0.21	157	324
ND<0.5 U	0.71	-0.21	157	325
ND<0.5 U	0.71	-0.21	157	326
2.1	0.71	1.39	158	326
ND<0.5 U	0.71	-0.21	158	327
ND<0.5 U	0.71	-0.21	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.25 U	ND<0.25 U	0	158	328
ND<0.5 U	ND<0.25 U	0.25	159	328
ND<0.5 U	ND<0.25 U	0.25	160	328
ND<0.5 U	ND<0.25 U	0.25	161	328
ND<0.5 U	ND<0.25 U	0.25	162	328
ND<0.5 U	ND<0.25 U	0.25	163	328
ND<0.5 U	ND<0.25 U	0.25	164	328
ND<0.5 U	ND<0.25 U	0.25	165	328
ND<0.5 U	ND<0.25 U	0.25	166	328
ND<0.5 U	ND<0.25 U	0.25	167	328
ND<0.5 U	ND<0.25 U	0.25	168	328
ND<0.5 U	ND<0.25 U	0.25	169	328
ND<0.5 U	ND<0.25 U	0.25	170	328
ND<0.5 U	ND<0.25 U	0.25	171	328
ND<0.5 U	ND<0.25 U	0.25	172	328
ND<0.5 U	ND<0.25 U	0.25	173	328
ND<0.5 U	ND<0.25 U	0.25	174	328
ND<0.5 U	ND<0.25 U	0.25	175	328
ND<0.5 U	ND<0.25 U	0.25	176	328
ND<0.5 U	ND<0.25 U	0.25	177	328
ND<0.5 U	ND<0.25 U	0.25	178	328
ND<0.5 U	ND<0.25 U	0.25	179	328
ND<0.5 U	ND<0.25 U	0.25	180	328
ND<0.5 U	ND<0.25 U	0.25	181	328
ND<0.5 U	ND<0.25 U	0.25	182	328
ND<0.5 U	ND<0.25 U	0.25	183	328
ND<0.5 U	ND<0.25 U	0.25	184	328
ND<0.5 U	ND<0.25 U	0.25	185	328
ND<0.5 U	ND<0.25 U	0.25	186	328
ND<0.5 U	ND<0.25 U	0.25	187	328
2.1	ND<0.25 U	1.85	188	328
ND<0.5 U	ND<0.25 U	0.25	189	328
ND<0.5 U	ND<0.25 U	0.25	190	328

ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.25 U	ND<0.25 U	0	190	328
ND<0.5 U	ND<0.25 U	0.25	191	328
ND<0.5 U	ND<0.25 U	0.25	192	328
ND<0.5 U	ND<0.25 U	0.25	193	328
ND<0.5 U	ND<0.25 U	0.25	194	328
ND<0.5 U	ND<0.25 U	0.25	195	328
ND<0.5 U	ND<0.25 U	0.25	196	328
ND<0.5 U	ND<0.25 U	0.25	197	328
ND<0.5 U	ND<0.25 U	0.25	198	328
ND<0.5 U	ND<0.25 U	0.25	199	328
ND<0.5 U	ND<0.25 U	0.25	200	328
ND<0.5 U	ND<0.25 U	0.25	201	328
ND<0.5 U	ND<0.25 U	0.25	202	328
ND<0.5 U	ND<0.25 U	0.25	203	328
ND<0.5 U	ND<0.25 U	0.25	204	328
ND<0.5 U	ND<0.25 U	0.25	205	328
ND<0.5 U	ND<0.25 U	0.25	206	328
ND<0.5 U	ND<0.25 U	0.25	207	328
ND<0.5 U	ND<0.25 U	0.25	208	328
ND<0.5 U	ND<0.25 U	0.25	209	328
ND<0.5 U	ND<0.25 U	0.25	210	328
ND<0.5 U	ND<0.25 U	0.25	211	328
ND<0.5 U	ND<0.25 U	0.25	212	328
ND<0.5 U	ND<0.25 U	0.25	213	328
ND<0.5 U	ND<0.25 U	0.25	214	328
ND<0.5 U	ND<0.25 U	0.25	215	328
ND<0.5 U	ND<0.25 U	0.25	216	328
ND<0.5 U	ND<0.25 U	0.25	217	328
ND<0.5 U	ND<0.25 U	0.25	218	328
ND<0.5 U	ND<0.25 U	0.25	219	328
2.1	ND<0.25 U	1.85	220	328
ND<0.5 U	ND<0.25 U	0.25	221	328
ND<0.5 U	ND<0.25 U	0.25	222	328

ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328

ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.25 U	ND<0.25 U	0	222	328
ND<0.5 U	ND<0.25 U	0.25	223	328
ND<0.5 U	ND<0.25 U	0.25	224	328
ND<0.5 U	ND<0.25 U	0.25	225	328
ND<0.5 U	ND<0.25 U	0.25	226	328
ND<0.5 U	ND<0.25 U	0.25	227	328
ND<0.5 U	ND<0.25 U	0.25	228	328
ND<0.5 U	ND<0.25 U	0.25	229	328
ND<0.5 U	ND<0.25 U	0.25	230	328
ND<0.5 U	ND<0.25 U	0.25	231	328
ND<0.5 U	ND<0.25 U	0.25	232	328
ND<0.5 U	ND<0.25 U	0.25	233	328
ND<0.5 U	ND<0.25 U	0.25	234	328
ND<0.5 U	ND<0.25 U	0.25	235	328
ND<0.5 U	ND<0.25 U	0.25	236	328
ND<0.5 U	ND<0.25 U	0.25	237	328
ND<0.5 U	ND<0.25 U	0.25	238	328
ND<0.5 U	ND<0.25 U	0.25	239	328
ND<0.5 U	ND<0.25 U	0.25	240	328
ND<0.5 U	ND<0.25 U	0.25	241	328
ND<0.5 U	ND<0.25 U	0.25	242	328
ND<0.5 U	ND<0.25 U	0.25	243	328
ND<0.5 U	ND<0.25 U	0.25	244	328
ND<0.5 U	ND<0.25 U	0.25	245	328
ND<0.5 U	ND<0.25 U	0.25	246	328
ND<0.5 U	ND<0.25 U	0.25	247	328
ND<0.5 U	ND<0.25 U	0.25	248	328
ND<0.5 U	ND<0.25 U	0.25	249	328
ND<0.5 U	ND<0.25 U	0.25	250	328
ND<0.5 U	ND<0.25 U	0.25	251	328
2.1	ND<0.25 U	1.85	252	328
ND<0.5 U	ND<0.25 U	0.25	253	328
ND<0.5 U	ND<0.25 U	0.25	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.25 U	ND<0.25 U	0	254	328
ND<0.5 U	ND<0.25 U	0.25	255	328
ND<0.5 U	ND<0.25 U	0.25	256	328
ND<0.5 U	ND<0.25 U	0.25	257	328
ND<0.5 U	ND<0.25 U	0.25	258	328
ND<0.5 U	ND<0.25 U	0.25	259	328
ND<0.5 U	ND<0.25 U	0.25	260	328
ND<0.5 U	ND<0.25 U	0.25	261	328
ND<0.5 U	ND<0.25 U	0.25	262	328

ND<0.5 U	ND<0.25 U	0.25	263	328
ND<0.5 U	ND<0.25 U	0.25	264	328
ND<0.5 U	ND<0.25 U	0.25	265	328
ND<0.5 U	ND<0.25 U	0.25	266	328
ND<0.5 U	ND<0.25 U	0.25	267	328
ND<0.5 U	ND<0.25 U	0.25	268	328
ND<0.5 U	ND<0.25 U	0.25	269	328
ND<0.5 U	ND<0.25 U	0.25	270	328
ND<0.5 U	ND<0.25 U	0.25	271	328
ND<0.5 U	ND<0.25 U	0.25	272	328
ND<0.5 U	ND<0.25 U	0.25	273	328
ND<0.5 U	ND<0.25 U	0.25	274	328
ND<0.5 U	ND<0.25 U	0.25	275	328
ND<0.5 U	ND<0.25 U	0.25	276	328
ND<0.5 U	ND<0.25 U	0.25	277	328
ND<0.5 U	ND<0.25 U	0.25	278	328
ND<0.5 U	ND<0.25 U	0.25	279	328
ND<0.5 U	ND<0.25 U	0.25	280	328
ND<0.5 U	ND<0.25 U	0.25	281	328
ND<0.5 U	ND<0.25 U	0.25	282	328
ND<0.5 U	ND<0.25 U	0.25	283	328
2.1	ND<0.25 U	1.85	284	328
ND<0.5 U	ND<0.25 U	0.25	285	328
ND<0.5 U	ND<0.25 U	0.25	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.25 U	ND<0.25 U	0	286	328
ND<0.5 U	ND<0.25 U	0.25	287	328
ND<0.5 U	ND<0.25 U	0.25	288	328
ND<0.5 U	ND<0.25 U	0.25	289	328
ND<0.5 U	ND<0.25 U	0.25	290	328
ND<0.5 U	ND<0.25 U	0.25	291	328
ND<0.5 U	ND<0.25 U	0.25	292	328
ND<0.5 U	ND<0.25 U	0.25	293	328
ND<0.5 U	ND<0.25 U	0.25	294	328
ND<0.5 U	ND<0.25 U	0.25	295	328
ND<0.5 U	ND<0.25 U	0.25	296	328
ND<0.5 U	ND<0.25 U	0.25	297	328
ND<0.5 U	ND<0.25 U	0.25	298	328
ND<0.5 U	ND<0.25 U	0.25	299	328
ND<0.5 U	ND<0.25 U	0.25	300	328
ND<0.5 U	ND<0.25 U	0.25	301	328
ND<0.5 U	ND<0.25 U	0.25	302	328
ND<0.5 U	ND<0.25 U	0.25	303	328
ND<0.5 U	ND<0.25 U	0.25	304	328
ND<0.5 U	ND<0.25 U	0.25	305	328
ND<0.5 U	ND<0.25 U	0.25	306	328
ND<0.5 U	ND<0.25 U	0.25	307	328

ND<0.5 U	ND<0.25 U	0.25	308	328
ND<0.5 U	ND<0.25 U	0.25	309	328
ND<0.5 U	ND<0.25 U	0.25	310	328
ND<0.5 U	ND<0.25 U	0.25	311	328
ND<0.5 U	ND<0.25 U	0.25	312	328
ND<0.5 U	ND<0.25 U	0.25	313	328
ND<0.5 U	ND<0.25 U	0.25	314	328
ND<0.5 U	ND<0.25 U	0.25	315	328
2.1	ND<0.25 U	1.85	316	328
ND<0.5 U	ND<0.25 U	0.25	317	328
ND<0.5 U	ND<0.25 U	0.25	318	328

ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.25 U	ND<0.25 U	0	318	328
ND<0.5 U	ND<0.25 U	0.25	319	328
ND<0.5 U	ND<0.25 U	0.25	320	328
ND<0.5 U	ND<0.25 U	0.25	321	328
ND<0.5 U	ND<0.25 U	0.25	322	328
ND<0.5 U	ND<0.25 U	0.25	323	328
ND<0.5 U	ND<0.25 U	0.25	324	328
ND<0.5 U	ND<0.25 U	0.25	325	328
ND<0.5 U	ND<0.25 U	0.25	326	328
ND<0.5 U	ND<0.25 U	0.25	327	328
ND<0.5 U	ND<0.25 U	0.25	328	328
ND<0.5 U	ND<0.25 U	0.25	329	328
ND<0.5 U	ND<0.25 U	0.25	330	328
ND<0.5 U	ND<0.25 U	0.25	331	328
ND<0.5 U	ND<0.25 U	0.25	332	328
ND<0.5 U	ND<0.25 U	0.25	333	328
ND<0.5 U	ND<0.25 U	0.25	334	328
ND<0.5 U	ND<0.25 U	0.25	335	328
ND<0.5 U	ND<0.25 U	0.25	336	328
ND<0.5 U	ND<0.25 U	0.25	337	328
ND<0.5 U	ND<0.25 U	0.25	338	328
ND<0.5 U	ND<0.25 U	0.25	339	328
ND<0.5 U	ND<0.25 U	0.25	340	328
ND<0.5 U	ND<0.25 U	0.25	341	328
ND<0.5 U	ND<0.25 U	0.25	342	328
ND<0.5 U	ND<0.25 U	0.25	343	328
ND<0.5 U	ND<0.25 U	0.25	344	328
ND<0.5 U	ND<0.25 U	0.25	345	328
ND<0.5 U	ND<0.25 U	0.25	346	328
ND<0.5 U	ND<0.25 U	0.25	347	328
2.1	ND<0.25 U	1.85	348	328
ND<0.5 U	ND<0.25 U	0.25	349	328
ND<0.5 U	ND<0.25 U	0.25	350	328

ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328

ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328
ND<0.25 U	ND<0.25 U	0	350	328
ND<0.5 U	ND<0.25 U	0.25	351	328
ND<0.5 U	ND<0.25 U	0.25	352	328
ND<0.5 U	ND<0.25 U	0.25	353	328
ND<0.5 U	ND<0.25 U	0.25	354	328
ND<0.5 U	ND<0.25 U	0.25	355	328
ND<0.5 U	ND<0.25 U	0.25	356	328
ND<0.5 U	ND<0.25 U	0.25	357	328
ND<0.5 U	ND<0.25 U	0.25	358	328
ND<0.5 U	ND<0.25 U	0.25	359	328
ND<0.5 U	ND<0.25 U	0.25	360	328
ND<0.5 U	ND<0.25 U	0.25	361	328
ND<0.5 U	ND<0.25 U	0.25	362	328
ND<0.5 U	ND<0.25 U	0.25	363	328
ND<0.5 U	ND<0.25 U	0.25	364	328
ND<0.5 U	ND<0.25 U	0.25	365	328
ND<0.5 U	ND<0.25 U	0.25	366	328
ND<0.5 U	ND<0.25 U	0.25	367	328
ND<0.5 U	ND<0.25 U	0.25	368	328
ND<0.5 U	ND<0.25 U	0.25	369	328
ND<0.5 U	ND<0.25 U	0.25	370	328
ND<0.5 U	ND<0.25 U	0.25	371	328
ND<0.5 U	ND<0.25 U	0.25	372	328
ND<0.5 U	ND<0.25 U	0.25	373	328
ND<0.5 U	ND<0.25 U	0.25	374	328
ND<0.5 U	ND<0.25 U	0.25	375	328
ND<0.5 U	ND<0.25 U	0.25	376	328
ND<0.5 U	ND<0.25 U	0.25	377	328
ND<0.5 U	ND<0.25 U	0.25	378	328
ND<0.5 U	ND<0.25 U	0.25	379	328
2.1	ND<0.25 U	1.85	380	328
ND<0.5 U	ND<0.25 U	0.25	381	328
ND<0.5 U	ND<0.25 U	0.25	382	328

ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.25 U	ND<0.25 U	0	382	328
ND<0.5 U	ND<0.25 U	0.25	383	328
ND<0.5 U	ND<0.25 U	0.25	384	328
ND<0.5 U	ND<0.25 U	0.25	385	328
ND<0.5 U	ND<0.25 U	0.25	386	328
ND<0.5 U	ND<0.25 U	0.25	387	328
ND<0.5 U	ND<0.25 U	0.25	388	328
ND<0.5 U	ND<0.25 U	0.25	389	328
ND<0.5 U	ND<0.25 U	0.25	390	328
ND<0.5 U	ND<0.25 U	0.25	391	328

ND<0.5 U	ND<0.25 U	0.25	392	328
ND<0.5 U	ND<0.25 U	0.25	393	328
ND<0.5 U	ND<0.25 U	0.25	394	328
ND<0.5 U	ND<0.25 U	0.25	395	328
ND<0.5 U	ND<0.25 U	0.25	396	328
ND<0.5 U	ND<0.25 U	0.25	397	328
ND<0.5 U	ND<0.25 U	0.25	398	328
ND<0.5 U	ND<0.25 U	0.25	399	328
ND<0.5 U	ND<0.25 U	0.25	400	328
ND<0.5 U	ND<0.25 U	0.25	401	328
ND<0.5 U	ND<0.25 U	0.25	402	328
ND<0.5 U	ND<0.25 U	0.25	403	328
ND<0.5 U	ND<0.25 U	0.25	404	328
ND<0.5 U	ND<0.25 U	0.25	405	328
ND<0.5 U	ND<0.25 U	0.25	406	328
ND<0.5 U	ND<0.25 U	0.25	407	328
ND<0.5 U	ND<0.25 U	0.25	408	328
ND<0.5 U	ND<0.25 U	0.25	409	328
ND<0.5 U	ND<0.25 U	0.25	410	328
ND<0.5 U	ND<0.25 U	0.25	411	328
2.1	ND<0.25 U	1.85	412	328
ND<0.5 U	ND<0.25 U	0.25	413	328
ND<0.5 U	ND<0.25 U	0.25	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.25 U	ND<0.25 U	0	414	328
ND<0.5 U	ND<0.25 U	0.25	415	328
ND<0.5 U	ND<0.25 U	0.25	416	328
ND<0.5 U	ND<0.25 U	0.25	417	328
ND<0.5 U	ND<0.25 U	0.25	418	328
ND<0.5 U	ND<0.25 U	0.25	419	328
ND<0.5 U	ND<0.25 U	0.25	420	328
ND<0.5 U	ND<0.25 U	0.25	421	328
ND<0.5 U	ND<0.25 U	0.25	422	328
ND<0.5 U	ND<0.25 U	0.25	423	328
ND<0.5 U	ND<0.25 U	0.25	424	328
ND<0.5 U	ND<0.25 U	0.25	425	328
ND<0.5 U	ND<0.25 U	0.25	426	328
ND<0.5 U	ND<0.25 U	0.25	427	328
ND<0.5 U	ND<0.25 U	0.25	428	328
ND<0.5 U	ND<0.25 U	0.25	429	328
ND<0.5 U	ND<0.25 U	0.25	430	328
ND<0.5 U	ND<0.25 U	0.25	431	328
ND<0.5 U	ND<0.25 U	0.25	432	328
ND<0.5 U	ND<0.25 U	0.25	433	328
ND<0.5 U	ND<0.25 U	0.25	434	328
ND<0.5 U	ND<0.25 U	0.25	435	328
ND<0.5 U	ND<0.25 U	0.25	436	328
ND<0.5 U	ND<0.25 U	0.25	437	328
ND<0.5 U	ND<0.25 U	0.25	438	328
ND<0.5 U	ND<0.25 U	0.25	439	328
ND<0.5 U	ND<0.25 U	0.25	440	328

ND<0.5 U	ND<0.25 U	0.25	441	328
ND<0.5 U	ND<0.25 U	0.25	442	328
ND<0.5 U	ND<0.25 U	0.25	443	328
2.1	ND<0.25 U	1.85	444	328
ND<0.5 U	ND<0.25 U	0.25	445	328
ND<0.5 U	ND<0.25 U	0.25	446	328

ND<0.25 U	ND<0.25 U	0	446	328
ND<0.25 U	ND<0.25 U	0	446	328
ND<0.25 U	ND<0.25 U	0	446	328
ND<0.25 U	ND<0.25 U	0	446	328
ND<0.25 U	ND<0.25 U	0	446	328
ND<0.25 U	ND<0.25 U	0	446	328
ND<0.5 U	ND<0.25 U	0.25	447	328
ND<0.5 U	ND<0.25 U	0.25	448	328
ND<0.5 U	ND<0.25 U	0.25	449	328
ND<0.5 U	ND<0.25 U	0.25	450	328
ND<0.5 U	ND<0.25 U	0.25	451	328
ND<0.5 U	ND<0.25 U	0.25	452	328
ND<0.5 U	ND<0.25 U	0.25	453	328
ND<0.5 U	ND<0.25 U	0.25	454	328
ND<0.5 U	ND<0.25 U	0.25	455	328
ND<0.5 U	ND<0.25 U	0.25	456	328
ND<0.5 U	ND<0.25 U	0.25	457	328
ND<0.5 U	ND<0.25 U	0.25	458	328
ND<0.5 U	ND<0.25 U	0.25	459	328
ND<0.5 U	ND<0.25 U	0.25	460	328
ND<0.5 U	ND<0.25 U	0.25	461	328
ND<0.5 U	ND<0.25 U	0.25	462	328
ND<0.5 U	ND<0.25 U	0.25	463	328
ND<0.5 U	ND<0.25 U	0.25	464	328
ND<0.5 U	ND<0.25 U	0.25	465	328
ND<0.5 U	ND<0.25 U	0.25	466	328
ND<0.5 U	ND<0.25 U	0.25	467	328
ND<0.5 U	ND<0.25 U	0.25	468	328
ND<0.5 U	ND<0.25 U	0.25	469	328
ND<0.5 U	ND<0.25 U	0.25	470	328
ND<0.5 U	ND<0.25 U	0.25	471	328
ND<0.5 U	ND<0.25 U	0.25	472	328
ND<0.5 U	ND<0.25 U	0.25	473	328
ND<0.5 U	ND<0.25 U	0.25	474	328
ND<0.5 U	ND<0.25 U	0.25	475	328
2.1	ND<0.25 U	1.85	476	328
ND<0.5 U	ND<0.25 U	0.25	477	328
ND<0.5 U	ND<0.25 U	0.25	478	328

ND<0.25 U	ND<0.25 U	0	478	328
ND<0.25 U	ND<0.25 U	0	478	328
ND<0.25 U	ND<0.25 U	0	478	328
ND<0.25 U	ND<0.25 U	0	478	328
ND<0.25 U	ND<0.25 U	0	478	328
ND<0.5 U	ND<0.25 U	0.25	479	328
ND<0.5 U	ND<0.25 U	0.25	480	328
ND<0.5 U	ND<0.25 U	0.25	481	328
ND<0.5 U	ND<0.25 U	0.25	482	328
ND<0.5 U	ND<0.25 U	0.25	483	328
ND<0.5 U	ND<0.25 U	0.25	484	328

ND<0.5 U	ND<0.25 U	0.25	485	328
ND<0.5 U	ND<0.25 U	0.25	486	328
ND<0.5 U	ND<0.25 U	0.25	487	328
ND<0.5 U	ND<0.25 U	0.25	488	328
ND<0.5 U	ND<0.25 U	0.25	489	328
ND<0.5 U	ND<0.25 U	0.25	490	328
ND<0.5 U	ND<0.25 U	0.25	491	328
ND<0.5 U	ND<0.25 U	0.25	492	328
ND<0.5 U	ND<0.25 U	0.25	493	328
ND<0.5 U	ND<0.25 U	0.25	494	328
ND<0.5 U	ND<0.25 U	0.25	495	328
ND<0.5 U	ND<0.25 U	0.25	496	328
ND<0.5 U	ND<0.25 U	0.25	497	328
ND<0.5 U	ND<0.25 U	0.25	498	328
ND<0.5 U	ND<0.25 U	0.25	499	328
ND<0.5 U	ND<0.25 U	0.25	500	328
ND<0.5 U	ND<0.25 U	0.25	501	328
ND<0.5 U	ND<0.25 U	0.25	502	328
ND<0.5 U	ND<0.25 U	0.25	503	328
ND<0.5 U	ND<0.25 U	0.25	504	328
ND<0.5 U	ND<0.25 U	0.25	505	328
ND<0.5 U	ND<0.25 U	0.25	506	328
ND<0.5 U	ND<0.25 U	0.25	507	328
2.1	ND<0.25 U	1.85	508	328
ND<0.5 U	ND<0.25 U	0.25	509	328
ND<0.5 U	ND<0.25 U	0.25	510	328
ND<0.25 U	ND<0.25 U	0	510	328
ND<0.25 U	ND<0.25 U	0	510	328
ND<0.25 U	ND<0.25 U	0	510	328
ND<0.25 U	ND<0.25 U	0	510	328
ND<0.5 U	ND<0.25 U	0.25	511	328
ND<0.5 U	ND<0.25 U	0.25	512	328
ND<0.5 U	ND<0.25 U	0.25	513	328
ND<0.5 U	ND<0.25 U	0.25	514	328
ND<0.5 U	ND<0.25 U	0.25	515	328
ND<0.5 U	ND<0.25 U	0.25	516	328
ND<0.5 U	ND<0.25 U	0.25	517	328
ND<0.5 U	ND<0.25 U	0.25	518	328
ND<0.5 U	ND<0.25 U	0.25	519	328
ND<0.5 U	ND<0.25 U	0.25	520	328
ND<0.5 U	ND<0.25 U	0.25	521	328
ND<0.5 U	ND<0.25 U	0.25	522	328
ND<0.5 U	ND<0.25 U	0.25	523	328
ND<0.5 U	ND<0.25 U	0.25	524	328
ND<0.5 U	ND<0.25 U	0.25	525	328
ND<0.5 U	ND<0.25 U	0.25	526	328
ND<0.5 U	ND<0.25 U	0.25	527	328
ND<0.5 U	ND<0.25 U	0.25	528	328
ND<0.5 U	ND<0.25 U	0.25	529	328
ND<0.5 U	ND<0.25 U	0.25	530	328
ND<0.5 U	ND<0.25 U	0.25	531	328
ND<0.5 U	ND<0.25 U	0.25	532	328
ND<0.5 U	ND<0.25 U	0.25	533	328
ND<0.5 U	ND<0.25 U	0.25	534	328
ND<0.5 U	ND<0.25 U	0.25	535	328
ND<0.5 U	ND<0.25 U	0.25	536	328

ND<0.5 U	ND<0.25 U	0.25	537	328
ND<0.5 U	ND<0.25 U	0.25	538	328
ND<0.5 U	ND<0.25 U	0.25	539	328
2.1	ND<0.25 U	1.85	540	328
ND<0.5 U	ND<0.25 U	0.25	541	328
ND<0.5 U	ND<0.25 U	0.25	542	328
ND<0.25 U	ND<0.25 U	0	542	328
ND<0.25 U	ND<0.25 U	0	542	328
ND<0.25 U	ND<0.25 U	0	542	328
ND<0.5 U	ND<0.25 U	0.25	543	328
ND<0.5 U	ND<0.25 U	0.25	544	328
ND<0.5 U	ND<0.25 U	0.25	545	328
ND<0.5 U	ND<0.25 U	0.25	546	328
ND<0.5 U	ND<0.25 U	0.25	547	328
ND<0.5 U	ND<0.25 U	0.25	548	328
ND<0.5 U	ND<0.25 U	0.25	549	328
ND<0.5 U	ND<0.25 U	0.25	550	328
ND<0.5 U	ND<0.25 U	0.25	551	328
ND<0.5 U	ND<0.25 U	0.25	552	328
ND<0.5 U	ND<0.25 U	0.25	553	328
ND<0.5 U	ND<0.25 U	0.25	554	328
ND<0.5 U	ND<0.25 U	0.25	555	328
ND<0.5 U	ND<0.25 U	0.25	556	328
ND<0.5 U	ND<0.25 U	0.25	557	328
ND<0.5 U	ND<0.25 U	0.25	558	328
ND<0.5 U	ND<0.25 U	0.25	559	328
ND<0.5 U	ND<0.25 U	0.25	560	328
ND<0.5 U	ND<0.25 U	0.25	561	328
ND<0.5 U	ND<0.25 U	0.25	562	328
ND<0.5 U	ND<0.25 U	0.25	563	328
ND<0.5 U	ND<0.25 U	0.25	564	328
ND<0.5 U	ND<0.25 U	0.25	565	328
ND<0.5 U	ND<0.25 U	0.25	566	328
ND<0.5 U	ND<0.25 U	0.25	567	328
ND<0.5 U	ND<0.25 U	0.25	568	328
ND<0.5 U	ND<0.25 U	0.25	569	328
ND<0.5 U	ND<0.25 U	0.25	570	328
ND<0.5 U	ND<0.25 U	0.25	571	328
2.1	ND<0.25 U	1.85	572	328
ND<0.5 U	ND<0.25 U	0.25	573	328
ND<0.5 U	ND<0.25 U	0.25	574	328
ND<0.25 U	ND<0.25 U	0	574	328
ND<0.25 U	ND<0.25 U	0	574	328
ND<0.5 U	ND<0.25 U	0.25	575	328
ND<0.5 U	ND<0.25 U	0.25	576	328
ND<0.5 U	ND<0.25 U	0.25	577	328
ND<0.5 U	ND<0.25 U	0.25	578	328
ND<0.5 U	ND<0.25 U	0.25	579	328
ND<0.5 U	ND<0.25 U	0.25	580	328
ND<0.5 U	ND<0.25 U	0.25	581	328
ND<0.5 U	ND<0.25 U	0.25	582	328
ND<0.5 U	ND<0.25 U	0.25	583	328
ND<0.5 U	ND<0.25 U	0.25	584	328
ND<0.5 U	ND<0.25 U	0.25	585	328
ND<0.5 U	ND<0.25 U	0.25	586	328

ND<0.5 U	ND<0.25 U	0.25	587	328
ND<0.5 U	ND<0.25 U	0.25	588	328
ND<0.5 U	ND<0.25 U	0.25	589	328
ND<0.5 U	ND<0.25 U	0.25	590	328
ND<0.5 U	ND<0.25 U	0.25	591	328
ND<0.5 U	ND<0.25 U	0.25	592	328
ND<0.5 U	ND<0.25 U	0.25	593	328
ND<0.5 U	ND<0.25 U	0.25	594	328
ND<0.5 U	ND<0.25 U	0.25	595	328
ND<0.5 U	ND<0.25 U	0.25	596	328
ND<0.5 U	ND<0.25 U	0.25	597	328
ND<0.5 U	ND<0.25 U	0.25	598	328
ND<0.5 U	ND<0.25 U	0.25	599	328
ND<0.5 U	ND<0.25 U	0.25	600	328
ND<0.5 U	ND<0.25 U	0.25	601	328
ND<0.5 U	ND<0.25 U	0.25	602	328
ND<0.5 U	ND<0.25 U	0.25	603	328
2.1	ND<0.25 U	1.85	604	328
ND<0.5 U	ND<0.25 U	0.25	605	328
ND<0.5 U	ND<0.25 U	0.25	606	328
ND<0.25 U	ND<0.25 U	0	606	328
ND<0.5 U	ND<0.25 U	0.25	607	328
ND<0.5 U	ND<0.25 U	0.25	608	328
ND<0.5 U	ND<0.25 U	0.25	609	328
ND<0.5 U	ND<0.25 U	0.25	610	328
ND<0.5 U	ND<0.25 U	0.25	611	328
ND<0.5 U	ND<0.25 U	0.25	612	328
ND<0.5 U	ND<0.25 U	0.25	613	328
ND<0.5 U	ND<0.25 U	0.25	614	328
ND<0.5 U	ND<0.25 U	0.25	615	328
ND<0.5 U	ND<0.25 U	0.25	616	328
ND<0.5 U	ND<0.25 U	0.25	617	328
ND<0.5 U	ND<0.25 U	0.25	618	328
ND<0.5 U	ND<0.25 U	0.25	619	328
ND<0.5 U	ND<0.25 U	0.25	620	328
ND<0.5 U	ND<0.25 U	0.25	621	328
ND<0.5 U	ND<0.25 U	0.25	622	328
ND<0.5 U	ND<0.25 U	0.25	623	328
ND<0.5 U	ND<0.25 U	0.25	624	328
ND<0.5 U	ND<0.25 U	0.25	625	328
ND<0.5 U	ND<0.25 U	0.25	626	328
ND<0.5 U	ND<0.25 U	0.25	627	328
ND<0.5 U	ND<0.25 U	0.25	628	328
ND<0.5 U	ND<0.25 U	0.25	629	328
ND<0.5 U	ND<0.25 U	0.25	630	328
ND<0.5 U	ND<0.25 U	0.25	631	328
ND<0.5 U	ND<0.25 U	0.25	632	328
ND<0.5 U	ND<0.25 U	0.25	633	328
ND<0.5 U	ND<0.25 U	0.25	634	328
ND<0.5 U	ND<0.25 U	0.25	635	328
2.1	ND<0.25 U	1.85	636	328
ND<0.5 U	ND<0.25 U	0.25	637	328
ND<0.5 U	ND<0.25 U	0.25	638	328
ND<0.5 U	ND<0.25 U	0.25	639	328
ND<0.5 U	ND<0.25 U	0.25	640	328

ND<0.5 U	ND<0.25 U	0.25	641	328
ND<0.5 U	ND<0.25 U	0.25	642	328
ND<0.5 U	ND<0.25 U	0.25	643	328
ND<0.5 U	ND<0.25 U	0.25	644	328
ND<0.5 U	ND<0.25 U	0.25	645	328
ND<0.5 U	ND<0.25 U	0.25	646	328
ND<0.5 U	ND<0.25 U	0.25	647	328
ND<0.5 U	ND<0.25 U	0.25	648	328
ND<0.5 U	ND<0.25 U	0.25	649	328
ND<0.5 U	ND<0.25 U	0.25	650	328
ND<0.5 U	ND<0.25 U	0.25	651	328
ND<0.5 U	ND<0.25 U	0.25	652	328
ND<0.5 U	ND<0.25 U	0.25	653	328
ND<0.5 U	ND<0.25 U	0.25	654	328
ND<0.5 U	ND<0.25 U	0.25	655	328
ND<0.5 U	ND<0.25 U	0.25	656	328
ND<0.5 U	ND<0.25 U	0.25	657	328
ND<0.5 U	ND<0.25 U	0.25	658	328
ND<0.5 U	ND<0.25 U	0.25	659	328
ND<0.5 U	ND<0.25 U	0.25	660	328
ND<0.5 U	ND<0.25 U	0.25	661	328
ND<0.5 U	ND<0.25 U	0.25	662	328
ND<0.5 U	ND<0.25 U	0.25	663	328
ND<0.5 U	ND<0.25 U	0.25	664	328
ND<0.5 U	ND<0.25 U	0.25	665	328
ND<0.5 U	ND<0.25 U	0.25	666	328
ND<0.5 U	ND<0.25 U	0.25	667	328
2.1	ND<0.25 U	1.85	668	328
ND<0.5 U	ND<0.25 U	0.25	669	328
ND<0.5 U	ND<0.25 U	0.25	670	328

ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328

ND<0.5 U	ND<0.5 U	0	670	328
ND<0.5 U	ND<0.5 U	0	670	328
2.1	ND<0.5 U	1.6	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
ND<0.5 U	ND<0.5 U	0	671	328
2.1	ND<0.5 U	1.6	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328

ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
ND<0.5 U	ND<0.5 U	0	672	328
2.1	ND<0.5 U	1.6	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
ND<0.5 U	ND<0.5 U	0	673	328
2.1	ND<0.5 U	1.6	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328

ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
ND<0.5 U	ND<0.5 U	0	674	328
2.1	ND<0.5 U	1.6	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328

ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
ND<0.5 U	ND<0.5 U	0	675	328
2.1	ND<0.5 U	1.6	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328

ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328

ND<0.5 U	ND<0.5 U	0	676	328
ND<0.5 U	ND<0.5 U	0	676	328
2.1	ND<0.5 U	1.6	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
ND<0.5 U	ND<0.5 U	0	677	328
2.1	ND<0.5 U	1.6	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
ND<0.5 U	ND<0.5 U	0	678	328
2.1	ND<0.5 U	1.6	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328

ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
ND<0.5 U	ND<0.5 U	0	679	328
2.1	ND<0.5 U	1.6	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
ND<0.5 U	ND<0.5 U	0	680	328
2.1	ND<0.5 U	1.6	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328

ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
ND<0.5 U	ND<0.5 U	0	681	328
2.1	ND<0.5 U	1.6	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
ND<0.5 U	ND<0.5 U	0	682	328
2.1	ND<0.5 U	1.6	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
ND<0.5 U	ND<0.5 U	0	683	328
2.1	ND<0.5 U	1.6	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328

ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
ND<0.5 U	ND<0.5 U	0	684	328
2.1	ND<0.5 U	1.6	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
ND<0.5 U	ND<0.5 U	0	685	328
2.1	ND<0.5 U	1.6	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
ND<0.5 U	ND<0.5 U	0	686	328
2.1	ND<0.5 U	1.6	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
ND<0.5 U	ND<0.5 U	0	687	328
2.1	ND<0.5 U	1.6	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328

ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
ND<0.5 U	ND<0.5 U	0	688	328
2.1	ND<0.5 U	1.6	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
ND<0.5 U	ND<0.5 U	0	689	328
2.1	ND<0.5 U	1.6	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
ND<0.5 U	ND<0.5 U	0	690	328
2.1	ND<0.5 U	1.6	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
ND<0.5 U	ND<0.5 U	0	691	328
2.1	ND<0.5 U	1.6	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
ND<0.5 U	ND<0.5 U	0	692	328
2.1	ND<0.5 U	1.6	693	328
ND<0.5 U	ND<0.5 U	0	693	328
ND<0.5 U	ND<0.5 U	0	693	328

ND<0.5 U	ND<0.5 U	0	693	328
ND<0.5 U	ND<0.5 U	0	693	328
ND<0.5 U	ND<0.5 U	0	693	328
ND<0.5 U	ND<0.5 U	0	693	328
ND<0.5 U	ND<0.5 U	0	693	328
2.1	ND<0.5 U	1.6	694	328
ND<0.5 U	ND<0.5 U	0	694	328
ND<0.5 U	ND<0.5 U	0	694	328

ND<0.5 U	ND<0.5 U	0	694	328
ND<0.5 U	ND<0.5 U	0	694	328
ND<0.5 U	ND<0.5 U	0	694	328
ND<0.5 U	ND<0.5 U	0	694	328
2.1	ND<0.5 U	1.6	695	328
ND<0.5 U	ND<0.5 U	0	695	328
ND<0.5 U	ND<0.5 U	0	695	328

ND<0.5 U	ND<0.5 U	0	695	328
ND<0.5 U	ND<0.5 U	0	695	328
ND<0.5 U	ND<0.5 U	0	695	328
2.1	ND<0.5 U	1.6	696	328
ND<0.5 U	ND<0.5 U	0	696	328
ND<0.5 U	ND<0.5 U	0	696	328

ND<0.5 U	ND<0.5 U	0	696	328
ND<0.5 U	ND<0.5 U	0	696	328
2.1	ND<0.5 U	1.6	697	328
ND<0.5 U	ND<0.5 U	0	697	328
ND<0.5 U	ND<0.5 U	0	697	328

ND<0.5 U	ND<0.5 U	0	697	328
2.1	ND<0.5 U	1.6	698	328
ND<0.5 U	ND<0.5 U	0	698	328
ND<0.5 U	ND<0.5 U	0	698	328

2.1	ND<0.5 U	1.6	699	328
ND<0.5 U	ND<0.5 U	0	699	328
ND<0.5 U	ND<0.5 U	0	699	328

ND<0.5 U	2.1	-1.6	699	329
ND<0.5 U	2.1	-1.6	699	330

ND<0.5 U	ND<0.5 U	0	699	330

S Statistic = 699 - 330 = 369

Tied Group	**Value**	**Members**
1	0.5	42
2	0.25	20

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1

4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1

10/29/2018	1
1/30/2019	1
4/29/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 170358
B = 0
C = 75720
D = 0
E = 2102
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 21735.7
Z-Score = 2.4961
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.4961| > 2.32634 indicating a trend

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
1	ND<0.5 U	0.5	2	0
ND<0.25 U	ND<0.5 U	-0.25	2	1
ND<0.25 U	ND<0.5 U	-0.25	2	2
ND<0.25 U	ND<0.5 U	-0.25	2	3
1	ND<0.5 U	0.5	3	3
0.58	ND<0.5 U	0.08	4	3
ND<0.25 U	ND<0.5 U	-0.25	4	4
ND<0.25 U	ND<0.5 U	-0.25	4	5
ND<0.25 U	ND<0.5 U	-0.25	4	6
ND<0.25 U	ND<0.5 U	-0.25	4	7
ND<0.25 U	ND<0.5 U	-0.25	4	8
ND<0.25 U	ND<0.5 U	-0.25	4	9
ND<0.25 U	ND<0.5 U	-0.25	4	10
ND<0.25 U	ND<0.5 U	-0.25	4	11
ND<0.25 U	ND<0.5 U	-0.25	4	12
ND<0.25 U	ND<0.5 U	-0.25	4	13
ND<0.25 U	ND<0.5 U	-0.25	4	14
ND<0.25 U	ND<0.5 U	-0.25	4	15
ND<0.25 U	ND<0.5 U	-0.25	4	16
ND<0.25 U	ND<0.5 U	-0.25	4	17
ND<0.25 U	ND<0.5 U	-0.25	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
ND<0.5 U	ND<0.5 U	0	4	18
1.7	ND<0.5 U	1.2	5	18

ND<0.5 U	ND<0.5 U	0	5	18
ND<0.5 U	ND<0.5 U	0	5	18
2.2	ND<0.5 U	1.7	6	18
ND<0.5 U	ND<0.5 U	0	6	18
ND<0.5 U	ND<0.5 U	0	6	18
ND<0.5 U	ND<0.5 U	0	6	18
1.8	ND<0.5 U	1.3	7	18
ND<0.5 U	ND<0.5 U	0	7	18
ND<0.5 U	ND<0.5 U	0	7	18
1.2	ND<0.5 U	0.7	8	18
ND<0.5 U	ND<0.5 U	0	8	18
ND<0.5 U	ND<0.5 U	0	8	18
14	ND<0.5 U	13.5	9	18
ND<0.5 U	ND<0.5 U	0	9	18
ND<0.5 U	ND<0.5 U	0	9	18
ND<0.5 U	ND<0.5 U	0	9	18
ND<0.5 U	ND<0.5 U	0	9	18
ND<1 U	ND<0.5 U	0.5	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
ND<0.5 U	ND<0.5 U	0	10	18
1	ND<0.5 U	0.5	11	18
ND<0.25 U	ND<0.5 U	-0.25	11	19
ND<0.25 U	ND<0.5 U	-0.25	11	20
ND<0.25 U	ND<0.5 U	-0.25	11	21
1	ND<0.5 U	0.5	12	21
0.58	ND<0.5 U	0.08	13	21
ND<0.25 U	ND<0.5 U	-0.25	13	22
ND<0.25 U	ND<0.5 U	-0.25	13	23
ND<0.25 U	ND<0.5 U	-0.25	13	24
ND<0.25 U	ND<0.5 U	-0.25	13	25
ND<0.25 U	ND<0.5 U	-0.25	13	26
ND<0.25 U	ND<0.5 U	-0.25	13	27
ND<0.25 U	ND<0.5 U	-0.25	13	28
ND<0.25 U	ND<0.5 U	-0.25	13	29
ND<0.25 U	ND<0.5 U	-0.25	13	30
ND<0.25 U	ND<0.5 U	-0.25	13	31
ND<0.25 U	ND<0.5 U	-0.25	13	32
ND<0.25 U	ND<0.5 U	-0.25	13	33
ND<0.25 U	ND<0.5 U	-0.25	13	34
ND<0.25 U	ND<0.5 U	-0.25	13	35
ND<0.25 U	ND<0.5 U	-0.25	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36

ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
ND<0.5 U	ND<0.5 U	0	13	36
1.7	ND<0.5 U	1.2	14	36
ND<0.5 U	ND<0.5 U	0	14	36
ND<0.5 U	ND<0.5 U	0	14	36
2.2	ND<0.5 U	1.7	15	36
ND<0.5 U	ND<0.5 U	0	15	36
ND<0.5 U	ND<0.5 U	0	15	36
ND<0.5 U	ND<0.5 U	0	15	36
1.8	ND<0.5 U	1.3	16	36
ND<0.5 U	ND<0.5 U	0	16	36
ND<0.5 U	ND<0.5 U	0	16	36
1.2	ND<0.5 U	0.7	17	36
ND<0.5 U	ND<0.5 U	0	17	36
ND<0.5 U	ND<0.5 U	0	17	36
14	ND<0.5 U	13.5	18	36
ND<0.5 U	ND<0.5 U	0	18	36
ND<0.5 U	ND<0.5 U	0	18	36
ND<0.5 U	ND<0.5 U	0	18	36
ND<0.5 U	ND<0.5 U	0	18	36

ND<0.5 U	ND<1 U	-0.5	18	37
ND<0.5 U	ND<1 U	-0.5	18	38
ND<0.5 U	ND<1 U	-0.5	18	39
ND<0.5 U	ND<1 U	-0.5	18	40
ND<0.5 U	ND<1 U	-0.5	18	41
ND<0.5 U	ND<1 U	-0.5	18	42
ND<0.5 U	ND<1 U	-0.5	18	43
ND<0.5 U	ND<1 U	-0.5	18	44
ND<0.5 U	ND<1 U	-0.5	18	45
1	ND<1 U	0	18	45
ND<0.25 U	ND<1 U	-0.75	18	46
ND<0.25 U	ND<1 U	-0.75	18	47
ND<0.25 U	ND<1 U	-0.75	18	48
1	ND<1 U	0	18	48
0.58	ND<1 U	-0.42	18	49
ND<0.25 U	ND<1 U	-0.75	18	50
ND<0.25 U	ND<1 U	-0.75	18	51
ND<0.25 U	ND<1 U	-0.75	18	52
ND<0.25 U	ND<1 U	-0.75	18	53
ND<0.25 U	ND<1 U	-0.75	18	54
ND<0.25 U	ND<1 U	-0.75	18	55
ND<0.25 U	ND<1 U	-0.75	18	56
ND<0.25 U	ND<1 U	-0.75	18	57
ND<0.25 U	ND<1 U	-0.75	18	58
ND<0.25 U	ND<1 U	-0.75	18	59
ND<0.25 U	ND<1 U	-0.75	18	60
ND<0.25 U	ND<1 U	-0.75	18	61
ND<0.25 U	ND<1 U	-0.75	18	62
ND<0.25 U	ND<1 U	-0.75	18	63
ND<0.25 U	ND<1 U	-0.75	18	64
ND<0.5 U	ND<1 U	-0.5	18	65
ND<0.5 U	ND<1 U	-0.5	18	66

ND<0.5 U	ND<1 U	-0.5	18	67
ND<0.5 U	ND<1 U	-0.5	18	68
ND<0.5 U	ND<1 U	-0.5	18	69
ND<0.5 U	ND<1 U	-0.5	18	70
ND<0.5 U	ND<1 U	-0.5	18	71
ND<0.5 U	ND<1 U	-0.5	18	72
ND<0.5 U	ND<1 U	-0.5	18	73
ND<0.5 U	ND<1 U	-0.5	18	74
ND<0.5 U	ND<1 U	-0.5	18	75
ND<0.5 U	ND<1 U	-0.5	18	76
ND<0.5 U	ND<1 U	-0.5	18	77
ND<0.5 U	ND<1 U	-0.5	18	78
1.7	ND<1 U	0.7	19	78
ND<0.5 U	ND<1 U	-0.5	19	79
ND<0.5 U	ND<1 U	-0.5	19	80
2.2	ND<1 U	1.2	20	80
ND<0.5 U	ND<1 U	-0.5	20	81
ND<0.5 U	ND<1 U	-0.5	20	82
ND<0.5 U	ND<1 U	-0.5	20	83
1.8	ND<1 U	0.8	21	83
ND<0.5 U	ND<1 U	-0.5	21	84
ND<0.5 U	ND<1 U	-0.5	21	85
1.2	ND<1 U	0.2	22	85
ND<0.5 U	ND<1 U	-0.5	22	86
ND<0.5 U	ND<1 U	-0.5	22	87
14	ND<1 U	13	23	87
ND<0.5 U	ND<1 U	-0.5	23	88
ND<0.5 U	ND<1 U	-0.5	23	89
ND<0.5 U	ND<1 U	-0.5	23	90
ND<0.5 U	ND<1 U	-0.5	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
ND<0.5 U	ND<0.5 U	0	23	91
1	ND<0.5 U	0.5	24	91
ND<0.25 U	ND<0.5 U	-0.25	24	92
ND<0.25 U	ND<0.5 U	-0.25	24	93
ND<0.25 U	ND<0.5 U	-0.25	24	94
1	ND<0.5 U	0.5	25	94
0.58	ND<0.5 U	0.08	26	94
ND<0.25 U	ND<0.5 U	-0.25	26	95
ND<0.25 U	ND<0.5 U	-0.25	26	96
ND<0.25 U	ND<0.5 U	-0.25	26	97
ND<0.25 U	ND<0.5 U	-0.25	26	98
ND<0.25 U	ND<0.5 U	-0.25	26	99
ND<0.25 U	ND<0.5 U	-0.25	26	100
ND<0.25 U	ND<0.5 U	-0.25	26	101
ND<0.25 U	ND<0.5 U	-0.25	26	102
ND<0.25 U	ND<0.5 U	-0.25	26	103
ND<0.25 U	ND<0.5 U	-0.25	26	104
ND<0.25 U	ND<0.5 U	-0.25	26	105
ND<0.25 U	ND<0.5 U	-0.25	26	106

ND<0.25 U	ND<0.5 U	-0.25	26	107
ND<0.25 U	ND<0.5 U	-0.25	26	108
ND<0.25 U	ND<0.5 U	-0.25	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
ND<0.5 U	ND<0.5 U	0	26	109
1.7	ND<0.5 U	1.2	27	109
ND<0.5 U	ND<0.5 U	0	27	109
ND<0.5 U	ND<0.5 U	0	27	109
2.2	ND<0.5 U	1.7	28	109
ND<0.5 U	ND<0.5 U	0	28	109
ND<0.5 U	ND<0.5 U	0	28	109
ND<0.5 U	ND<0.5 U	0	28	109
1.8	ND<0.5 U	1.3	29	109
ND<0.5 U	ND<0.5 U	0	29	109
ND<0.5 U	ND<0.5 U	0	29	109
1.2	ND<0.5 U	0.7	30	109
ND<0.5 U	ND<0.5 U	0	30	109
ND<0.5 U	ND<0.5 U	0	30	109
14	ND<0.5 U	13.5	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
ND<0.5 U	ND<0.5 U	0	31	109
1	ND<0.5 U	0.5	32	109
ND<0.25 U	ND<0.5 U	-0.25	32	110
ND<0.25 U	ND<0.5 U	-0.25	32	111
ND<0.25 U	ND<0.5 U	-0.25	32	112
1	ND<0.5 U	0.5	33	112
0.58	ND<0.5 U	0.08	34	112
ND<0.25 U	ND<0.5 U	-0.25	34	113
ND<0.25 U	ND<0.5 U	-0.25	34	114
ND<0.25 U	ND<0.5 U	-0.25	34	115
ND<0.25 U	ND<0.5 U	-0.25	34	116
ND<0.25 U	ND<0.5 U	-0.25	34	117
ND<0.25 U	ND<0.5 U	-0.25	34	118
ND<0.25 U	ND<0.5 U	-0.25	34	119
ND<0.25 U	ND<0.5 U	-0.25	34	120

ND<0.25 U	ND<0.5 U	-0.25	34	121
ND<0.25 U	ND<0.5 U	-0.25	34	122
ND<0.25 U	ND<0.5 U	-0.25	34	123
ND<0.25 U	ND<0.5 U	-0.25	34	124
ND<0.25 U	ND<0.5 U	-0.25	34	125
ND<0.25 U	ND<0.5 U	-0.25	34	126
ND<0.25 U	ND<0.5 U	-0.25	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
ND<0.5 U	ND<0.5 U	0	34	127
1.7	ND<0.5 U	1.2	35	127
ND<0.5 U	ND<0.5 U	0	35	127
ND<0.5 U	ND<0.5 U	0	35	127
2.2	ND<0.5 U	1.7	36	127
ND<0.5 U	ND<0.5 U	0	36	127
ND<0.5 U	ND<0.5 U	0	36	127
ND<0.5 U	ND<0.5 U	0	36	127
1.8	ND<0.5 U	1.3	37	127
ND<0.5 U	ND<0.5 U	0	37	127
ND<0.5 U	ND<0.5 U	0	37	127
1.2	ND<0.5 U	0.7	38	127
ND<0.5 U	ND<0.5 U	0	38	127
ND<0.5 U	ND<0.5 U	0	38	127
14	ND<0.5 U	13.5	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
ND<0.5 U	ND<0.5 U	0	39	127
1	ND<0.5 U	0.5	40	127
ND<0.25 U	ND<0.5 U	-0.25	40	128
ND<0.25 U	ND<0.5 U	-0.25	40	129
ND<0.25 U	ND<0.5 U	-0.25	40	130
1	ND<0.5 U	0.5	41	130
0.58	ND<0.5 U	0.08	42	130
ND<0.25 U	ND<0.5 U	-0.25	42	131
ND<0.25 U	ND<0.5 U	-0.25	42	132
ND<0.25 U	ND<0.5 U	-0.25	42	133
ND<0.25 U	ND<0.5 U	-0.25	42	134
ND<0.25 U	ND<0.5 U	-0.25	42	135

ND<0.25 U	ND<0.5 U	-0.25	42	136
ND<0.25 U	ND<0.5 U	-0.25	42	137
ND<0.25 U	ND<0.5 U	-0.25	42	138
ND<0.25 U	ND<0.5 U	-0.25	42	139
ND<0.25 U	ND<0.5 U	-0.25	42	140
ND<0.25 U	ND<0.5 U	-0.25	42	141
ND<0.25 U	ND<0.5 U	-0.25	42	142
ND<0.25 U	ND<0.5 U	-0.25	42	143
ND<0.25 U	ND<0.5 U	-0.25	42	144
ND<0.25 U	ND<0.5 U	-0.25	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
ND<0.5 U	ND<0.5 U	0	42	145
1.7	ND<0.5 U	1.2	43	145
ND<0.5 U	ND<0.5 U	0	43	145
ND<0.5 U	ND<0.5 U	0	43	145
2.2	ND<0.5 U	1.7	44	145
ND<0.5 U	ND<0.5 U	0	44	145
ND<0.5 U	ND<0.5 U	0	44	145
ND<0.5 U	ND<0.5 U	0	44	145
1.8	ND<0.5 U	1.3	45	145
ND<0.5 U	ND<0.5 U	0	45	145
ND<0.5 U	ND<0.5 U	0	45	145
1.2	ND<0.5 U	0.7	46	145
ND<0.5 U	ND<0.5 U	0	46	145
ND<0.5 U	ND<0.5 U	0	46	145
14	ND<0.5 U	13.5	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
ND<0.5 U	ND<0.5 U	0	47	145
1	ND<0.5 U	0.5	48	145
ND<0.25 U	ND<0.5 U	-0.25	48	146
ND<0.25 U	ND<0.5 U	-0.25	48	147
ND<0.25 U	ND<0.5 U	-0.25	48	148
1	ND<0.5 U	0.5	49	148
0.58	ND<0.5 U	0.08	50	148
ND<0.25 U	ND<0.5 U	-0.25	50	149
ND<0.25 U	ND<0.5 U	-0.25	50	150
ND<0.25 U	ND<0.5 U	-0.25	50	151

ND<0.25 U	ND<0.5 U	-0.25	50	152
ND<0.25 U	ND<0.5 U	-0.25	50	153
ND<0.25 U	ND<0.5 U	-0.25	50	154
ND<0.25 U	ND<0.5 U	-0.25	50	155
ND<0.25 U	ND<0.5 U	-0.25	50	156
ND<0.25 U	ND<0.5 U	-0.25	50	157
ND<0.25 U	ND<0.5 U	-0.25	50	158
ND<0.25 U	ND<0.5 U	-0.25	50	159
ND<0.25 U	ND<0.5 U	-0.25	50	160
ND<0.25 U	ND<0.5 U	-0.25	50	161
ND<0.25 U	ND<0.5 U	-0.25	50	162
ND<0.25 U	ND<0.5 U	-0.25	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
ND<0.5 U	ND<0.5 U	0	50	163
1.7	ND<0.5 U	1.2	51	163
ND<0.5 U	ND<0.5 U	0	51	163
ND<0.5 U	ND<0.5 U	0	51	163
2.2	ND<0.5 U	1.7	52	163
ND<0.5 U	ND<0.5 U	0	52	163
ND<0.5 U	ND<0.5 U	0	52	163
ND<0.5 U	ND<0.5 U	0	52	163
1.8	ND<0.5 U	1.3	53	163
ND<0.5 U	ND<0.5 U	0	53	163
ND<0.5 U	ND<0.5 U	0	53	163
1.2	ND<0.5 U	0.7	54	163
ND<0.5 U	ND<0.5 U	0	54	163
ND<0.5 U	ND<0.5 U	0	54	163
14	ND<0.5 U	13.5	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
ND<0.5 U	ND<0.5 U	0	55	163
1	ND<0.5 U	0.5	56	163
ND<0.25 U	ND<0.5 U	-0.25	56	164
ND<0.25 U	ND<0.5 U	-0.25	56	165
ND<0.25 U	ND<0.5 U	-0.25	56	166
1	ND<0.5 U	0.5	57	166
0.58	ND<0.5 U	0.08	58	166
ND<0.25 U	ND<0.5 U	-0.25	58	167
ND<0.25 U	ND<0.5 U	-0.25	58	168

ND<0.25 U	ND<0.5 U	-0.25	58	169
ND<0.25 U	ND<0.5 U	-0.25	58	170
ND<0.25 U	ND<0.5 U	-0.25	58	171
ND<0.25 U	ND<0.5 U	-0.25	58	172
ND<0.25 U	ND<0.5 U	-0.25	58	173
ND<0.25 U	ND<0.5 U	-0.25	58	174
ND<0.25 U	ND<0.5 U	-0.25	58	175
ND<0.25 U	ND<0.5 U	-0.25	58	176
ND<0.25 U	ND<0.5 U	-0.25	58	177
ND<0.25 U	ND<0.5 U	-0.25	58	178
ND<0.25 U	ND<0.5 U	-0.25	58	179
ND<0.25 U	ND<0.5 U	-0.25	58	180
ND<0.25 U	ND<0.5 U	-0.25	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
ND<0.5 U	ND<0.5 U	0	58	181
1.7	ND<0.5 U	1.2	59	181
ND<0.5 U	ND<0.5 U	0	59	181
ND<0.5 U	ND<0.5 U	0	59	181
2.2	ND<0.5 U	1.7	60	181
ND<0.5 U	ND<0.5 U	0	60	181
ND<0.5 U	ND<0.5 U	0	60	181
ND<0.5 U	ND<0.5 U	0	60	181
1.8	ND<0.5 U	1.3	61	181
ND<0.5 U	ND<0.5 U	0	61	181
ND<0.5 U	ND<0.5 U	0	61	181
1.2	ND<0.5 U	0.7	62	181
ND<0.5 U	ND<0.5 U	0	62	181
ND<0.5 U	ND<0.5 U	0	62	181
14	ND<0.5 U	13.5	63	181
ND<0.5 U	ND<0.5 U	0	63	181
ND<0.5 U	ND<0.5 U	0	63	181
ND<0.5 U	ND<0.5 U	0	63	181
ND<0.5 U	ND<0.5 U	0	63	181
ND<0.5 U	ND<0.5 U	0	63	181
ND<0.5 U	ND<0.5 U	0	63	181
ND<0.5 U	ND<0.5 U	0	63	181
1	ND<0.5 U	0.5	64	181
ND<0.25 U	ND<0.5 U	-0.25	64	182
ND<0.25 U	ND<0.5 U	-0.25	64	183
ND<0.25 U	ND<0.5 U	-0.25	64	184
1	ND<0.5 U	0.5	65	184
0.58	ND<0.5 U	0.08	66	184
ND<0.25 U	ND<0.5 U	-0.25	66	185
ND<0.25 U	ND<0.5 U	-0.25	66	186

ND<0.25 U	ND<0.5 U	-0.25	66	187
ND<0.25 U	ND<0.5 U	-0.25	66	188
ND<0.25 U	ND<0.5 U	-0.25	66	189
ND<0.25 U	ND<0.5 U	-0.25	66	190
ND<0.25 U	ND<0.5 U	-0.25	66	191
ND<0.25 U	ND<0.5 U	-0.25	66	192
ND<0.25 U	ND<0.5 U	-0.25	66	193
ND<0.25 U	ND<0.5 U	-0.25	66	194
ND<0.25 U	ND<0.5 U	-0.25	66	195
ND<0.25 U	ND<0.5 U	-0.25	66	196
ND<0.25 U	ND<0.5 U	-0.25	66	197
ND<0.25 U	ND<0.5 U	-0.25	66	198
ND<0.25 U	ND<0.5 U	-0.25	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
ND<0.5 U	ND<0.5 U	0	66	199
1.7	ND<0.5 U	1.2	67	199
ND<0.5 U	ND<0.5 U	0	67	199
ND<0.5 U	ND<0.5 U	0	67	199
2.2	ND<0.5 U	1.7	68	199
ND<0.5 U	ND<0.5 U	0	68	199
ND<0.5 U	ND<0.5 U	0	68	199
ND<0.5 U	ND<0.5 U	0	68	199
1.8	ND<0.5 U	1.3	69	199
ND<0.5 U	ND<0.5 U	0	69	199
ND<0.5 U	ND<0.5 U	0	69	199
1.2	ND<0.5 U	0.7	70	199
ND<0.5 U	ND<0.5 U	0	70	199
ND<0.5 U	ND<0.5 U	0	70	199
14	ND<0.5 U	13.5	71	199
ND<0.5 U	ND<0.5 U	0	71	199
ND<0.5 U	ND<0.5 U	0	71	199
ND<0.5 U	ND<0.5 U	0	71	199
ND<0.5 U	ND<0.5 U	0	71	199
ND<0.5 U	ND<0.5 U	0	71	199
ND<0.5 U	ND<0.5 U	0	71	199
1	ND<0.5 U	0.5	72	199
ND<0.25 U	ND<0.5 U	-0.25	72	200
ND<0.25 U	ND<0.5 U	-0.25	72	201
ND<0.25 U	ND<0.5 U	-0.25	72	202
1	ND<0.5 U	0.5	73	202
0.58	ND<0.5 U	0.08	74	202
ND<0.25 U	ND<0.5 U	-0.25	74	203
ND<0.25 U	ND<0.5 U	-0.25	74	204
ND<0.25 U	ND<0.5 U	-0.25	74	205

ND<0.25 U	ND<0.5 U	-0.25	74	206
ND<0.25 U	ND<0.5 U	-0.25	74	207
ND<0.25 U	ND<0.5 U	-0.25	74	208
ND<0.25 U	ND<0.5 U	-0.25	74	209
ND<0.25 U	ND<0.5 U	-0.25	74	210
ND<0.25 U	ND<0.5 U	-0.25	74	211
ND<0.25 U	ND<0.5 U	-0.25	74	212
ND<0.25 U	ND<0.5 U	-0.25	74	213
ND<0.25 U	ND<0.5 U	-0.25	74	214
ND<0.25 U	ND<0.5 U	-0.25	74	215
ND<0.25 U	ND<0.5 U	-0.25	74	216
ND<0.25 U	ND<0.5 U	-0.25	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
ND<0.5 U	ND<0.5 U	0	74	217
1.7	ND<0.5 U	1.2	75	217
ND<0.5 U	ND<0.5 U	0	75	217
ND<0.5 U	ND<0.5 U	0	75	217
2.2	ND<0.5 U	1.7	76	217
ND<0.5 U	ND<0.5 U	0	76	217
ND<0.5 U	ND<0.5 U	0	76	217
ND<0.5 U	ND<0.5 U	0	76	217
1.8	ND<0.5 U	1.3	77	217
ND<0.5 U	ND<0.5 U	0	77	217
ND<0.5 U	ND<0.5 U	0	77	217
1.2	ND<0.5 U	0.7	78	217
ND<0.5 U	ND<0.5 U	0	78	217
ND<0.5 U	ND<0.5 U	0	78	217
14	ND<0.5 U	13.5	79	217
ND<0.5 U	ND<0.5 U	0	79	217
ND<0.5 U	ND<0.5 U	0	79	217
ND<0.5 U	ND<0.5 U	0	79	217
ND<0.5 U	ND<0.5 U	0	79	217
ND<0.5 U	ND<0.5 U	0	79	217
1	ND<0.5 U	0.5	80	217
ND<0.25 U	ND<0.5 U	-0.25	80	218
ND<0.25 U	ND<0.5 U	-0.25	80	219
ND<0.25 U	ND<0.5 U	-0.25	80	220
1	ND<0.5 U	0.5	81	220
0.58	ND<0.5 U	0.08	82	220
ND<0.25 U	ND<0.5 U	-0.25	82	221
ND<0.25 U	ND<0.5 U	-0.25	82	222
ND<0.25 U	ND<0.5 U	-0.25	82	223
ND<0.25 U	ND<0.5 U	-0.25	82	224
ND<0.25 U	ND<0.5 U	-0.25	82	225

ND<0.25 U	ND<0.5 U	-0.25	82	226
ND<0.25 U	ND<0.5 U	-0.25	82	227
ND<0.25 U	ND<0.5 U	-0.25	82	228
ND<0.25 U	ND<0.5 U	-0.25	82	229
ND<0.25 U	ND<0.5 U	-0.25	82	230
ND<0.25 U	ND<0.5 U	-0.25	82	231
ND<0.25 U	ND<0.5 U	-0.25	82	232
ND<0.25 U	ND<0.5 U	-0.25	82	233
ND<0.25 U	ND<0.5 U	-0.25	82	234
ND<0.25 U	ND<0.5 U	-0.25	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
ND<0.5 U	ND<0.5 U	0	82	235
1.7	ND<0.5 U	1.2	83	235
ND<0.5 U	ND<0.5 U	0	83	235
ND<0.5 U	ND<0.5 U	0	83	235
2.2	ND<0.5 U	1.7	84	235
ND<0.5 U	ND<0.5 U	0	84	235
ND<0.5 U	ND<0.5 U	0	84	235
ND<0.5 U	ND<0.5 U	0	84	235
1.8	ND<0.5 U	1.3	85	235
ND<0.5 U	ND<0.5 U	0	85	235
ND<0.5 U	ND<0.5 U	0	85	235
1.2	ND<0.5 U	0.7	86	235
ND<0.5 U	ND<0.5 U	0	86	235
ND<0.5 U	ND<0.5 U	0	86	235
14	ND<0.5 U	13.5	87	235
ND<0.5 U	ND<0.5 U	0	87	235
ND<0.5 U	ND<0.5 U	0	87	235
ND<0.5 U	ND<0.5 U	0	87	235
ND<0.5 U	ND<0.5 U	0	87	235
1	ND<0.5 U	0.5	88	235
ND<0.25 U	ND<0.5 U	-0.25	88	236
ND<0.25 U	ND<0.5 U	-0.25	88	237
ND<0.25 U	ND<0.5 U	-0.25	88	238
1	ND<0.5 U	0.5	89	238
0.58	ND<0.5 U	0.08	90	238
ND<0.25 U	ND<0.5 U	-0.25	90	239
ND<0.25 U	ND<0.5 U	-0.25	90	240
ND<0.25 U	ND<0.5 U	-0.25	90	241
ND<0.25 U	ND<0.5 U	-0.25	90	242
ND<0.25 U	ND<0.5 U	-0.25	90	243
ND<0.25 U	ND<0.5 U	-0.25	90	244
ND<0.25 U	ND<0.5 U	-0.25	90	245
ND<0.25 U	ND<0.5 U	-0.25	90	246

ND<0.25 U	ND<0.5 U	-0.25	90	247
ND<0.25 U	ND<0.5 U	-0.25	90	248
ND<0.25 U	ND<0.5 U	-0.25	90	249
ND<0.25 U	ND<0.5 U	-0.25	90	250
ND<0.25 U	ND<0.5 U	-0.25	90	251
ND<0.25 U	ND<0.5 U	-0.25	90	252
ND<0.25 U	ND<0.5 U	-0.25	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
ND<0.5 U	ND<0.5 U	0	90	253
1.7	ND<0.5 U	1.2	91	253
ND<0.5 U	ND<0.5 U	0	91	253
ND<0.5 U	ND<0.5 U	0	91	253
2.2	ND<0.5 U	1.7	92	253
ND<0.5 U	ND<0.5 U	0	92	253
ND<0.5 U	ND<0.5 U	0	92	253
ND<0.5 U	ND<0.5 U	0	92	253
1.8	ND<0.5 U	1.3	93	253
ND<0.5 U	ND<0.5 U	0	93	253
ND<0.5 U	ND<0.5 U	0	93	253
1.2	ND<0.5 U	0.7	94	253
ND<0.5 U	ND<0.5 U	0	94	253
ND<0.5 U	ND<0.5 U	0	94	253
14	ND<0.5 U	13.5	95	253
ND<0.5 U	ND<0.5 U	0	95	253
ND<0.5 U	ND<0.5 U	0	95	253
ND<0.5 U	ND<0.5 U	0	95	253
ND<0.5 U	ND<0.5 U	0	95	253

ND<0.25 U	1	-0.75	95	254
ND<0.25 U	1	-0.75	95	255
ND<0.25 U	1	-0.75	95	256
1	1	0	95	256
0.58	1	-0.42	95	257
ND<0.25 U	1	-0.75	95	258
ND<0.25 U	1	-0.75	95	259
ND<0.25 U	1	-0.75	95	260
ND<0.25 U	1	-0.75	95	261
ND<0.25 U	1	-0.75	95	262
ND<0.25 U	1	-0.75	95	263
ND<0.25 U	1	-0.75	95	264
ND<0.25 U	1	-0.75	95	265
ND<0.25 U	1	-0.75	95	266
ND<0.25 U	1	-0.75	95	267
ND<0.25 U	1	-0.75	95	268
ND<0.25 U	1	-0.75	95	269

ND<0.25 U	1	-0.75	95	270
ND<0.25 U	1	-0.75	95	271
ND<0.25 U	1	-0.75	95	272
ND<0.5 U	1	-0.5	95	273
ND<0.5 U	1	-0.5	95	274
ND<0.5 U	1	-0.5	95	275
ND<0.5 U	1	-0.5	95	276
ND<0.5 U	1	-0.5	95	277
ND<0.5 U	1	-0.5	95	278
ND<0.5 U	1	-0.5	95	279
ND<0.5 U	1	-0.5	95	280
ND<0.5 U	1	-0.5	95	281
ND<0.5 U	1	-0.5	95	282
ND<0.5 U	1	-0.5	95	283
ND<0.5 U	1	-0.5	95	284
ND<0.5 U	1	-0.5	95	285
ND<0.5 U	1	-0.5	95	286
1.7	1	0.7	96	286
ND<0.5 U	1	-0.5	96	287
ND<0.5 U	1	-0.5	96	288
2.2	1	1.2	97	288
ND<0.5 U	1	-0.5	97	289
ND<0.5 U	1	-0.5	97	290
ND<0.5 U	1	-0.5	97	291
1.8	1	0.8	98	291
ND<0.5 U	1	-0.5	98	292
ND<0.5 U	1	-0.5	98	293
1.2	1	0.2	99	293
ND<0.5 U	1	-0.5	99	294
ND<0.5 U	1	-0.5	99	295
14	1	13	100	295
ND<0.5 U	1	-0.5	100	296
ND<0.5 U	1	-0.5	100	297
ND<0.5 U	1	-0.5	100	298
ND<0.5 U	1	-0.5	100	299
ND<0.25 U	ND<0.25 U	0	100	299
ND<0.25 U	ND<0.25 U	0	100	299
1	ND<0.25 U	0.75	101	299
0.58	ND<0.25 U	0.33	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.25 U	ND<0.25 U	0	102	299
ND<0.5 U	ND<0.25 U	0.25	103	299
ND<0.5 U	ND<0.25 U	0.25	104	299

ND<0.5 U	ND<0.25 U	0.25	105	299
ND<0.5 U	ND<0.25 U	0.25	106	299
ND<0.5 U	ND<0.25 U	0.25	107	299
ND<0.5 U	ND<0.25 U	0.25	108	299
ND<0.5 U	ND<0.25 U	0.25	109	299
ND<0.5 U	ND<0.25 U	0.25	110	299
ND<0.5 U	ND<0.25 U	0.25	111	299
ND<0.5 U	ND<0.25 U	0.25	112	299
ND<0.5 U	ND<0.25 U	0.25	113	299
ND<0.5 U	ND<0.25 U	0.25	114	299
ND<0.5 U	ND<0.25 U	0.25	115	299
ND<0.5 U	ND<0.25 U	0.25	116	299
1.7	ND<0.25 U	1.45	117	299
ND<0.5 U	ND<0.25 U	0.25	118	299
ND<0.5 U	ND<0.25 U	0.25	119	299
2.2	ND<0.25 U	1.95	120	299
ND<0.5 U	ND<0.25 U	0.25	121	299
ND<0.5 U	ND<0.25 U	0.25	122	299
ND<0.5 U	ND<0.25 U	0.25	123	299
1.8	ND<0.25 U	1.55	124	299
ND<0.5 U	ND<0.25 U	0.25	125	299
ND<0.5 U	ND<0.25 U	0.25	126	299
1.2	ND<0.25 U	0.95	127	299
ND<0.5 U	ND<0.25 U	0.25	128	299
ND<0.5 U	ND<0.25 U	0.25	129	299
14	ND<0.25 U	13.75	130	299
ND<0.5 U	ND<0.25 U	0.25	131	299
ND<0.5 U	ND<0.25 U	0.25	132	299
ND<0.5 U	ND<0.25 U	0.25	133	299
ND<0.5 U	ND<0.25 U	0.25	134	299
ND<0.25 U	ND<0.25 U	0	134	299
1	ND<0.25 U	0.75	135	299
0.58	ND<0.25 U	0.33	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.25 U	ND<0.25 U	0	136	299
ND<0.5 U	ND<0.25 U	0.25	137	299
ND<0.5 U	ND<0.25 U	0.25	138	299
ND<0.5 U	ND<0.25 U	0.25	139	299
ND<0.5 U	ND<0.25 U	0.25	140	299
ND<0.5 U	ND<0.25 U	0.25	141	299
ND<0.5 U	ND<0.25 U	0.25	142	299
ND<0.5 U	ND<0.25 U	0.25	143	299
ND<0.5 U	ND<0.25 U	0.25	144	299

ND<0.5 U	ND<0.25 U	0.25	145	299
ND<0.5 U	ND<0.25 U	0.25	146	299
ND<0.5 U	ND<0.25 U	0.25	147	299
ND<0.5 U	ND<0.25 U	0.25	148	299
ND<0.5 U	ND<0.25 U	0.25	149	299
ND<0.5 U	ND<0.25 U	0.25	150	299
1.7	ND<0.25 U	1.45	151	299
ND<0.5 U	ND<0.25 U	0.25	152	299
ND<0.5 U	ND<0.25 U	0.25	153	299
2.2	ND<0.25 U	1.95	154	299
ND<0.5 U	ND<0.25 U	0.25	155	299
ND<0.5 U	ND<0.25 U	0.25	156	299
ND<0.5 U	ND<0.25 U	0.25	157	299
1.8	ND<0.25 U	1.55	158	299
ND<0.5 U	ND<0.25 U	0.25	159	299
ND<0.5 U	ND<0.25 U	0.25	160	299
1.2	ND<0.25 U	0.95	161	299
ND<0.5 U	ND<0.25 U	0.25	162	299
ND<0.5 U	ND<0.25 U	0.25	163	299
14	ND<0.25 U	13.75	164	299
ND<0.5 U	ND<0.25 U	0.25	165	299
ND<0.5 U	ND<0.25 U	0.25	166	299
ND<0.5 U	ND<0.25 U	0.25	167	299
ND<0.5 U	ND<0.25 U	0.25	168	299
1	ND<0.25 U	0.75	169	299
0.58	ND<0.25 U	0.33	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.25 U	ND<0.25 U	0	170	299
ND<0.5 U	ND<0.25 U	0.25	171	299
ND<0.5 U	ND<0.25 U	0.25	172	299
ND<0.5 U	ND<0.25 U	0.25	173	299
ND<0.5 U	ND<0.25 U	0.25	174	299
ND<0.5 U	ND<0.25 U	0.25	175	299
ND<0.5 U	ND<0.25 U	0.25	176	299
ND<0.5 U	ND<0.25 U	0.25	177	299
ND<0.5 U	ND<0.25 U	0.25	178	299
ND<0.5 U	ND<0.25 U	0.25	179	299
ND<0.5 U	ND<0.25 U	0.25	180	299
ND<0.5 U	ND<0.25 U	0.25	181	299
ND<0.5 U	ND<0.25 U	0.25	182	299
ND<0.5 U	ND<0.25 U	0.25	183	299
ND<0.5 U	ND<0.25 U	0.25	184	299
1.7	ND<0.25 U	1.45	185	299

ND<0.5 U	ND<0.25 U	0.25	186	299
ND<0.5 U	ND<0.25 U	0.25	187	299
2.2	ND<0.25 U	1.95	188	299
ND<0.5 U	ND<0.25 U	0.25	189	299
ND<0.5 U	ND<0.25 U	0.25	190	299
ND<0.5 U	ND<0.25 U	0.25	191	299
1.8	ND<0.25 U	1.55	192	299
ND<0.5 U	ND<0.25 U	0.25	193	299
ND<0.5 U	ND<0.25 U	0.25	194	299
1.2	ND<0.25 U	0.95	195	299
ND<0.5 U	ND<0.25 U	0.25	196	299
ND<0.5 U	ND<0.25 U	0.25	197	299
14	ND<0.25 U	13.75	198	299
ND<0.5 U	ND<0.25 U	0.25	199	299
ND<0.5 U	ND<0.25 U	0.25	200	299
ND<0.5 U	ND<0.25 U	0.25	201	299
ND<0.5 U	ND<0.25 U	0.25	202	299
0.58	1	-0.42	202	300
ND<0.25 U	1	-0.75	202	301
ND<0.25 U	1	-0.75	202	302
ND<0.25 U	1	-0.75	202	303
ND<0.25 U	1	-0.75	202	304
ND<0.25 U	1	-0.75	202	305
ND<0.25 U	1	-0.75	202	306
ND<0.25 U	1	-0.75	202	307
ND<0.25 U	1	-0.75	202	308
ND<0.25 U	1	-0.75	202	309
ND<0.25 U	1	-0.75	202	310
ND<0.25 U	1	-0.75	202	311
ND<0.25 U	1	-0.75	202	312
ND<0.25 U	1	-0.75	202	313
ND<0.25 U	1	-0.75	202	314
ND<0.25 U	1	-0.75	202	315
ND<0.5 U	1	-0.5	202	316
ND<0.5 U	1	-0.5	202	317
ND<0.5 U	1	-0.5	202	318
ND<0.5 U	1	-0.5	202	319
ND<0.5 U	1	-0.5	202	320
ND<0.5 U	1	-0.5	202	321
ND<0.5 U	1	-0.5	202	322
ND<0.5 U	1	-0.5	202	323
ND<0.5 U	1	-0.5	202	324
ND<0.5 U	1	-0.5	202	325
ND<0.5 U	1	-0.5	202	326
ND<0.5 U	1	-0.5	202	327
ND<0.5 U	1	-0.5	202	328
ND<0.5 U	1	-0.5	202	329
1.7	1	0.7	203	329
ND<0.5 U	1	-0.5	203	330
ND<0.5 U	1	-0.5	203	331
2.2	1	1.2	204	331
ND<0.5 U	1	-0.5	204	332
ND<0.5 U	1	-0.5	204	333
ND<0.5 U	1	-0.5	204	334
1.8	1	0.8	205	334
ND<0.5 U	1	-0.5	205	335

ND<0.5 U	1	-0.5	205	336
1.2	1	0.2	206	336
ND<0.5 U	1	-0.5	206	337
ND<0.5 U	1	-0.5	206	338
14	1	13	207	338
ND<0.5 U	1	-0.5	207	339
ND<0.5 U	1	-0.5	207	340
ND<0.5 U	1	-0.5	207	341
ND<0.5 U	1	-0.5	207	342
ND<0.25 U	0.58	-0.33	207	343
ND<0.25 U	0.58	-0.33	207	344
ND<0.25 U	0.58	-0.33	207	345
ND<0.25 U	0.58	-0.33	207	346
ND<0.25 U	0.58	-0.33	207	347
ND<0.25 U	0.58	-0.33	207	348
ND<0.25 U	0.58	-0.33	207	349
ND<0.25 U	0.58	-0.33	207	350
ND<0.25 U	0.58	-0.33	207	351
ND<0.25 U	0.58	-0.33	207	352
ND<0.25 U	0.58	-0.33	207	353
ND<0.25 U	0.58	-0.33	207	354
ND<0.25 U	0.58	-0.33	207	355
ND<0.25 U	0.58	-0.33	207	356
ND<0.25 U	0.58	-0.33	207	357
ND<0.5 U	0.58	-0.08	207	358
ND<0.5 U	0.58	-0.08	207	359
ND<0.5 U	0.58	-0.08	207	360
ND<0.5 U	0.58	-0.08	207	361
ND<0.5 U	0.58	-0.08	207	362
ND<0.5 U	0.58	-0.08	207	363
ND<0.5 U	0.58	-0.08	207	364
ND<0.5 U	0.58	-0.08	207	365
ND<0.5 U	0.58	-0.08	207	366
ND<0.5 U	0.58	-0.08	207	367
ND<0.5 U	0.58	-0.08	207	368
ND<0.5 U	0.58	-0.08	207	369
ND<0.5 U	0.58	-0.08	207	370
ND<0.5 U	0.58	-0.08	207	371
1.7	0.58	1.12	208	371
ND<0.5 U	0.58	-0.08	208	372
ND<0.5 U	0.58	-0.08	208	373
2.2	0.58	1.62	209	373
ND<0.5 U	0.58	-0.08	209	374
ND<0.5 U	0.58	-0.08	209	375
ND<0.5 U	0.58	-0.08	209	376
1.8	0.58	1.22	210	376
ND<0.5 U	0.58	-0.08	210	377
ND<0.5 U	0.58	-0.08	210	378
1.2	0.58	0.62	211	378
ND<0.5 U	0.58	-0.08	211	379
ND<0.5 U	0.58	-0.08	211	380
14	0.58	13.42	212	380
ND<0.5 U	0.58	-0.08	212	381
ND<0.5 U	0.58	-0.08	212	382
ND<0.5 U	0.58	-0.08	212	383
ND<0.5 U	0.58	-0.08	212	384

ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.25 U	ND<0.25 U	0	212	384
ND<0.5 U	ND<0.25 U	0.25	213	384
ND<0.5 U	ND<0.25 U	0.25	214	384
ND<0.5 U	ND<0.25 U	0.25	215	384
ND<0.5 U	ND<0.25 U	0.25	216	384
ND<0.5 U	ND<0.25 U	0.25	217	384
ND<0.5 U	ND<0.25 U	0.25	218	384
ND<0.5 U	ND<0.25 U	0.25	219	384
ND<0.5 U	ND<0.25 U	0.25	220	384
ND<0.5 U	ND<0.25 U	0.25	221	384
ND<0.5 U	ND<0.25 U	0.25	222	384
ND<0.5 U	ND<0.25 U	0.25	223	384
ND<0.5 U	ND<0.25 U	0.25	224	384
ND<0.5 U	ND<0.25 U	0.25	225	384
ND<0.5 U	ND<0.25 U	0.25	226	384
1.7	ND<0.25 U	1.45	227	384
ND<0.5 U	ND<0.25 U	0.25	228	384
ND<0.5 U	ND<0.25 U	0.25	229	384
2.2	ND<0.25 U	1.95	230	384
ND<0.5 U	ND<0.25 U	0.25	231	384
ND<0.5 U	ND<0.25 U	0.25	232	384
ND<0.5 U	ND<0.25 U	0.25	233	384
1.8	ND<0.25 U	1.55	234	384
ND<0.5 U	ND<0.25 U	0.25	235	384
ND<0.5 U	ND<0.25 U	0.25	236	384
1.2	ND<0.25 U	0.95	237	384
ND<0.5 U	ND<0.25 U	0.25	238	384
ND<0.5 U	ND<0.25 U	0.25	239	384
14	ND<0.25 U	13.75	240	384
ND<0.5 U	ND<0.25 U	0.25	241	384
ND<0.5 U	ND<0.25 U	0.25	242	384
ND<0.5 U	ND<0.25 U	0.25	243	384
ND<0.5 U	ND<0.25 U	0.25	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384

ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.25 U	ND<0.25 U	0	244	384
ND<0.5 U	ND<0.25 U	0.25	245	384
ND<0.5 U	ND<0.25 U	0.25	246	384
ND<0.5 U	ND<0.25 U	0.25	247	384
ND<0.5 U	ND<0.25 U	0.25	248	384
ND<0.5 U	ND<0.25 U	0.25	249	384
ND<0.5 U	ND<0.25 U	0.25	250	384
ND<0.5 U	ND<0.25 U	0.25	251	384
ND<0.5 U	ND<0.25 U	0.25	252	384
ND<0.5 U	ND<0.25 U	0.25	253	384
ND<0.5 U	ND<0.25 U	0.25	254	384
ND<0.5 U	ND<0.25 U	0.25	255	384
ND<0.5 U	ND<0.25 U	0.25	256	384
ND<0.5 U	ND<0.25 U	0.25	257	384
ND<0.5 U	ND<0.25 U	0.25	258	384
1.7	ND<0.25 U	1.45	259	384
ND<0.5 U	ND<0.25 U	0.25	260	384
ND<0.5 U	ND<0.25 U	0.25	261	384
2.2	ND<0.25 U	1.95	262	384
ND<0.5 U	ND<0.25 U	0.25	263	384
ND<0.5 U	ND<0.25 U	0.25	264	384
ND<0.5 U	ND<0.25 U	0.25	265	384
1.8	ND<0.25 U	1.55	266	384
ND<0.5 U	ND<0.25 U	0.25	267	384
ND<0.5 U	ND<0.25 U	0.25	268	384
1.2	ND<0.25 U	0.95	269	384
ND<0.5 U	ND<0.25 U	0.25	270	384
ND<0.5 U	ND<0.25 U	0.25	271	384
14	ND<0.25 U	13.75	272	384
ND<0.5 U	ND<0.25 U	0.25	273	384
ND<0.5 U	ND<0.25 U	0.25	274	384
ND<0.5 U	ND<0.25 U	0.25	275	384
ND<0.5 U	ND<0.25 U	0.25	276	384

ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.25 U	ND<0.25 U	0	276	384
ND<0.5 U	ND<0.25 U	0.25	277	384
ND<0.5 U	ND<0.25 U	0.25	278	384
ND<0.5 U	ND<0.25 U	0.25	279	384
ND<0.5 U	ND<0.25 U	0.25	280	384
ND<0.5 U	ND<0.25 U	0.25	281	384
ND<0.5 U	ND<0.25 U	0.25	282	384
ND<0.5 U	ND<0.25 U	0.25	283	384
ND<0.5 U	ND<0.25 U	0.25	284	384

ND<0.5 U	ND<0.25 U	0.25	285	384
ND<0.5 U	ND<0.25 U	0.25	286	384
ND<0.5 U	ND<0.25 U	0.25	287	384
ND<0.5 U	ND<0.25 U	0.25	288	384
ND<0.5 U	ND<0.25 U	0.25	289	384
ND<0.5 U	ND<0.25 U	0.25	290	384
1.7	ND<0.25 U	1.45	291	384
ND<0.5 U	ND<0.25 U	0.25	292	384
ND<0.5 U	ND<0.25 U	0.25	293	384
2.2	ND<0.25 U	1.95	294	384
ND<0.5 U	ND<0.25 U	0.25	295	384
ND<0.5 U	ND<0.25 U	0.25	296	384
ND<0.5 U	ND<0.25 U	0.25	297	384
1.8	ND<0.25 U	1.55	298	384
ND<0.5 U	ND<0.25 U	0.25	299	384
ND<0.5 U	ND<0.25 U	0.25	300	384
1.2	ND<0.25 U	0.95	301	384
ND<0.5 U	ND<0.25 U	0.25	302	384
ND<0.5 U	ND<0.25 U	0.25	303	384
14	ND<0.25 U	13.75	304	384
ND<0.5 U	ND<0.25 U	0.25	305	384
ND<0.5 U	ND<0.25 U	0.25	306	384
ND<0.5 U	ND<0.25 U	0.25	307	384
ND<0.5 U	ND<0.25 U	0.25	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.25 U	ND<0.25 U	0	308	384
ND<0.5 U	ND<0.25 U	0.25	309	384
ND<0.5 U	ND<0.25 U	0.25	310	384
ND<0.5 U	ND<0.25 U	0.25	311	384
ND<0.5 U	ND<0.25 U	0.25	312	384
ND<0.5 U	ND<0.25 U	0.25	313	384
ND<0.5 U	ND<0.25 U	0.25	314	384
ND<0.5 U	ND<0.25 U	0.25	315	384
ND<0.5 U	ND<0.25 U	0.25	316	384
ND<0.5 U	ND<0.25 U	0.25	317	384
ND<0.5 U	ND<0.25 U	0.25	318	384
ND<0.5 U	ND<0.25 U	0.25	319	384
ND<0.5 U	ND<0.25 U	0.25	320	384
ND<0.5 U	ND<0.25 U	0.25	321	384
ND<0.5 U	ND<0.25 U	0.25	322	384
1.7	ND<0.25 U	1.45	323	384
ND<0.5 U	ND<0.25 U	0.25	324	384
ND<0.5 U	ND<0.25 U	0.25	325	384
2.2	ND<0.25 U	1.95	326	384
ND<0.5 U	ND<0.25 U	0.25	327	384
ND<0.5 U	ND<0.25 U	0.25	328	384
ND<0.5 U	ND<0.25 U	0.25	329	384

1.8	ND<0.25 U	1.55	330	384
ND<0.5 U	ND<0.25 U	0.25	331	384
ND<0.5 U	ND<0.25 U	0.25	332	384
1.2	ND<0.25 U	0.95	333	384
ND<0.5 U	ND<0.25 U	0.25	334	384
ND<0.5 U	ND<0.25 U	0.25	335	384
14	ND<0.25 U	13.75	336	384
ND<0.5 U	ND<0.25 U	0.25	337	384
ND<0.5 U	ND<0.25 U	0.25	338	384
ND<0.5 U	ND<0.25 U	0.25	339	384
ND<0.5 U	ND<0.25 U	0.25	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.25 U	ND<0.25 U	0	340	384
ND<0.5 U	ND<0.25 U	0.25	341	384
ND<0.5 U	ND<0.25 U	0.25	342	384
ND<0.5 U	ND<0.25 U	0.25	343	384
ND<0.5 U	ND<0.25 U	0.25	344	384
ND<0.5 U	ND<0.25 U	0.25	345	384
ND<0.5 U	ND<0.25 U	0.25	346	384
ND<0.5 U	ND<0.25 U	0.25	347	384
ND<0.5 U	ND<0.25 U	0.25	348	384
ND<0.5 U	ND<0.25 U	0.25	349	384
ND<0.5 U	ND<0.25 U	0.25	350	384
ND<0.5 U	ND<0.25 U	0.25	351	384
ND<0.5 U	ND<0.25 U	0.25	352	384
ND<0.5 U	ND<0.25 U	0.25	353	384
ND<0.5 U	ND<0.25 U	0.25	354	384
1.7	ND<0.25 U	1.45	355	384
ND<0.5 U	ND<0.25 U	0.25	356	384
ND<0.5 U	ND<0.25 U	0.25	357	384
2.2	ND<0.25 U	1.95	358	384
ND<0.5 U	ND<0.25 U	0.25	359	384
ND<0.5 U	ND<0.25 U	0.25	360	384
ND<0.5 U	ND<0.25 U	0.25	361	384
1.8	ND<0.25 U	1.55	362	384
ND<0.5 U	ND<0.25 U	0.25	363	384
ND<0.5 U	ND<0.25 U	0.25	364	384
1.2	ND<0.25 U	0.95	365	384
ND<0.5 U	ND<0.25 U	0.25	366	384
ND<0.5 U	ND<0.25 U	0.25	367	384
14	ND<0.25 U	13.75	368	384
ND<0.5 U	ND<0.25 U	0.25	369	384
ND<0.5 U	ND<0.25 U	0.25	370	384
ND<0.5 U	ND<0.25 U	0.25	371	384
ND<0.5 U	ND<0.25 U	0.25	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384

ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.25 U	ND<0.25 U	0	372	384
ND<0.5 U	ND<0.25 U	0.25	373	384
ND<0.5 U	ND<0.25 U	0.25	374	384
ND<0.5 U	ND<0.25 U	0.25	375	384
ND<0.5 U	ND<0.25 U	0.25	376	384
ND<0.5 U	ND<0.25 U	0.25	377	384
ND<0.5 U	ND<0.25 U	0.25	378	384
ND<0.5 U	ND<0.25 U	0.25	379	384
ND<0.5 U	ND<0.25 U	0.25	380	384
ND<0.5 U	ND<0.25 U	0.25	381	384
ND<0.5 U	ND<0.25 U	0.25	382	384
ND<0.5 U	ND<0.25 U	0.25	383	384
ND<0.5 U	ND<0.25 U	0.25	384	384
ND<0.5 U	ND<0.25 U	0.25	385	384
ND<0.5 U	ND<0.25 U	0.25	386	384
1.7	ND<0.25 U	1.45	387	384
ND<0.5 U	ND<0.25 U	0.25	388	384
ND<0.5 U	ND<0.25 U	0.25	389	384
2.2	ND<0.25 U	1.95	390	384
ND<0.5 U	ND<0.25 U	0.25	391	384
ND<0.5 U	ND<0.25 U	0.25	392	384
ND<0.5 U	ND<0.25 U	0.25	393	384
1.8	ND<0.25 U	1.55	394	384
ND<0.5 U	ND<0.25 U	0.25	395	384
ND<0.5 U	ND<0.25 U	0.25	396	384
1.2	ND<0.25 U	0.95	397	384
ND<0.5 U	ND<0.25 U	0.25	398	384
ND<0.5 U	ND<0.25 U	0.25	399	384
14	ND<0.25 U	13.75	400	384
ND<0.5 U	ND<0.25 U	0.25	401	384
ND<0.5 U	ND<0.25 U	0.25	402	384
ND<0.5 U	ND<0.25 U	0.25	403	384
ND<0.5 U	ND<0.25 U	0.25	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.25 U	ND<0.25 U	0	404	384
ND<0.5 U	ND<0.25 U	0.25	405	384
ND<0.5 U	ND<0.25 U	0.25	406	384
ND<0.5 U	ND<0.25 U	0.25	407	384
ND<0.5 U	ND<0.25 U	0.25	408	384
ND<0.5 U	ND<0.25 U	0.25	409	384
ND<0.5 U	ND<0.25 U	0.25	410	384
ND<0.5 U	ND<0.25 U	0.25	411	384
ND<0.5 U	ND<0.25 U	0.25	412	384
ND<0.5 U	ND<0.25 U	0.25	413	384

ND<0.5 U	ND<0.25 U	0.25	414	384
ND<0.5 U	ND<0.25 U	0.25	415	384
ND<0.5 U	ND<0.25 U	0.25	416	384
ND<0.5 U	ND<0.25 U	0.25	417	384
ND<0.5 U	ND<0.25 U	0.25	418	384
1.7	ND<0.25 U	1.45	419	384
ND<0.5 U	ND<0.25 U	0.25	420	384
ND<0.5 U	ND<0.25 U	0.25	421	384
2.2	ND<0.25 U	1.95	422	384
ND<0.5 U	ND<0.25 U	0.25	423	384
ND<0.5 U	ND<0.25 U	0.25	424	384
ND<0.5 U	ND<0.25 U	0.25	425	384
1.8	ND<0.25 U	1.55	426	384
ND<0.5 U	ND<0.25 U	0.25	427	384
ND<0.5 U	ND<0.25 U	0.25	428	384
1.2	ND<0.25 U	0.95	429	384
ND<0.5 U	ND<0.25 U	0.25	430	384
ND<0.5 U	ND<0.25 U	0.25	431	384
14	ND<0.25 U	13.75	432	384
ND<0.5 U	ND<0.25 U	0.25	433	384
ND<0.5 U	ND<0.25 U	0.25	434	384
ND<0.5 U	ND<0.25 U	0.25	435	384
ND<0.5 U	ND<0.25 U	0.25	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.25 U	ND<0.25 U	0	436	384
ND<0.5 U	ND<0.25 U	0.25	437	384
ND<0.5 U	ND<0.25 U	0.25	438	384
ND<0.5 U	ND<0.25 U	0.25	439	384
ND<0.5 U	ND<0.25 U	0.25	440	384
ND<0.5 U	ND<0.25 U	0.25	441	384
ND<0.5 U	ND<0.25 U	0.25	442	384
ND<0.5 U	ND<0.25 U	0.25	443	384
ND<0.5 U	ND<0.25 U	0.25	444	384
ND<0.5 U	ND<0.25 U	0.25	445	384
ND<0.5 U	ND<0.25 U	0.25	446	384
ND<0.5 U	ND<0.25 U	0.25	447	384
ND<0.5 U	ND<0.25 U	0.25	448	384
ND<0.5 U	ND<0.25 U	0.25	449	384
ND<0.5 U	ND<0.25 U	0.25	450	384
1.7	ND<0.25 U	1.45	451	384
ND<0.5 U	ND<0.25 U	0.25	452	384
ND<0.5 U	ND<0.25 U	0.25	453	384
2.2	ND<0.25 U	1.95	454	384
ND<0.5 U	ND<0.25 U	0.25	455	384
ND<0.5 U	ND<0.25 U	0.25	456	384
ND<0.5 U	ND<0.25 U	0.25	457	384
1.8	ND<0.25 U	1.55	458	384
ND<0.5 U	ND<0.25 U	0.25	459	384
ND<0.5 U	ND<0.25 U	0.25	460	384
1.2	ND<0.25 U	0.95	461	384
ND<0.5 U	ND<0.25 U	0.25	462	384

ND<0.5 U	ND<0.25 U	0.25	463	384
14	ND<0.25 U	13.75	464	384
ND<0.5 U	ND<0.25 U	0.25	465	384
ND<0.5 U	ND<0.25 U	0.25	466	384
ND<0.5 U	ND<0.25 U	0.25	467	384
ND<0.5 U	ND<0.25 U	0.25	468	384
ND<0.25 U	ND<0.25 U	0	468	384
ND<0.25 U	ND<0.25 U	0	468	384
ND<0.25 U	ND<0.25 U	0	468	384
ND<0.25 U	ND<0.25 U	0	468	384
ND<0.25 U	ND<0.25 U	0	468	384
ND<0.25 U	ND<0.25 U	0	468	384
ND<0.5 U	ND<0.25 U	0.25	469	384
ND<0.5 U	ND<0.25 U	0.25	470	384
ND<0.5 U	ND<0.25 U	0.25	471	384
ND<0.5 U	ND<0.25 U	0.25	472	384
ND<0.5 U	ND<0.25 U	0.25	473	384
ND<0.5 U	ND<0.25 U	0.25	474	384
ND<0.5 U	ND<0.25 U	0.25	475	384
ND<0.5 U	ND<0.25 U	0.25	476	384
ND<0.5 U	ND<0.25 U	0.25	477	384
ND<0.5 U	ND<0.25 U	0.25	478	384
ND<0.5 U	ND<0.25 U	0.25	479	384
ND<0.5 U	ND<0.25 U	0.25	480	384
ND<0.5 U	ND<0.25 U	0.25	481	384
ND<0.5 U	ND<0.25 U	0.25	482	384
1.7	ND<0.25 U	1.45	483	384
ND<0.5 U	ND<0.25 U	0.25	484	384
ND<0.5 U	ND<0.25 U	0.25	485	384
2.2	ND<0.25 U	1.95	486	384
ND<0.5 U	ND<0.25 U	0.25	487	384
ND<0.5 U	ND<0.25 U	0.25	488	384
ND<0.5 U	ND<0.25 U	0.25	489	384
1.8	ND<0.25 U	1.55	490	384
ND<0.5 U	ND<0.25 U	0.25	491	384
ND<0.5 U	ND<0.25 U	0.25	492	384
1.2	ND<0.25 U	0.95	493	384
ND<0.5 U	ND<0.25 U	0.25	494	384
ND<0.5 U	ND<0.25 U	0.25	495	384
14	ND<0.25 U	13.75	496	384
ND<0.5 U	ND<0.25 U	0.25	497	384
ND<0.5 U	ND<0.25 U	0.25	498	384
ND<0.5 U	ND<0.25 U	0.25	499	384
ND<0.5 U	ND<0.25 U	0.25	500	384
ND<0.25 U	ND<0.25 U	0	500	384
ND<0.25 U	ND<0.25 U	0	500	384
ND<0.25 U	ND<0.25 U	0	500	384
ND<0.25 U	ND<0.25 U	0	500	384
ND<0.25 U	ND<0.25 U	0	500	384
ND<0.5 U	ND<0.25 U	0.25	501	384
ND<0.5 U	ND<0.25 U	0.25	502	384
ND<0.5 U	ND<0.25 U	0.25	503	384
ND<0.5 U	ND<0.25 U	0.25	504	384
ND<0.5 U	ND<0.25 U	0.25	505	384
ND<0.5 U	ND<0.25 U	0.25	506	384

ND<0.5 U	ND<0.25 U	0.25	507	384
ND<0.5 U	ND<0.25 U	0.25	508	384
ND<0.5 U	ND<0.25 U	0.25	509	384
ND<0.5 U	ND<0.25 U	0.25	510	384
ND<0.5 U	ND<0.25 U	0.25	511	384
ND<0.5 U	ND<0.25 U	0.25	512	384
ND<0.5 U	ND<0.25 U	0.25	513	384
ND<0.5 U	ND<0.25 U	0.25	514	384
1.7	ND<0.25 U	1.45	515	384
ND<0.5 U	ND<0.25 U	0.25	516	384
ND<0.5 U	ND<0.25 U	0.25	517	384
2.2	ND<0.25 U	1.95	518	384
ND<0.5 U	ND<0.25 U	0.25	519	384
ND<0.5 U	ND<0.25 U	0.25	520	384
ND<0.5 U	ND<0.25 U	0.25	521	384
1.8	ND<0.25 U	1.55	522	384
ND<0.5 U	ND<0.25 U	0.25	523	384
ND<0.5 U	ND<0.25 U	0.25	524	384
1.2	ND<0.25 U	0.95	525	384
ND<0.5 U	ND<0.25 U	0.25	526	384
ND<0.5 U	ND<0.25 U	0.25	527	384
14	ND<0.25 U	13.75	528	384
ND<0.5 U	ND<0.25 U	0.25	529	384
ND<0.5 U	ND<0.25 U	0.25	530	384
ND<0.5 U	ND<0.25 U	0.25	531	384
ND<0.5 U	ND<0.25 U	0.25	532	384

ND<0.25 U	ND<0.25 U	0	532	384
ND<0.25 U	ND<0.25 U	0	532	384
ND<0.25 U	ND<0.25 U	0	532	384
ND<0.25 U	ND<0.25 U	0	532	384
ND<0.5 U	ND<0.25 U	0.25	533	384
ND<0.5 U	ND<0.25 U	0.25	534	384
ND<0.5 U	ND<0.25 U	0.25	535	384
ND<0.5 U	ND<0.25 U	0.25	536	384
ND<0.5 U	ND<0.25 U	0.25	537	384
ND<0.5 U	ND<0.25 U	0.25	538	384
ND<0.5 U	ND<0.25 U	0.25	539	384
ND<0.5 U	ND<0.25 U	0.25	540	384
ND<0.5 U	ND<0.25 U	0.25	541	384
ND<0.5 U	ND<0.25 U	0.25	542	384
ND<0.5 U	ND<0.25 U	0.25	543	384
ND<0.5 U	ND<0.25 U	0.25	544	384
ND<0.5 U	ND<0.25 U	0.25	545	384
ND<0.5 U	ND<0.25 U	0.25	546	384
1.7	ND<0.25 U	1.45	547	384
ND<0.5 U	ND<0.25 U	0.25	548	384
ND<0.5 U	ND<0.25 U	0.25	549	384
2.2	ND<0.25 U	1.95	550	384
ND<0.5 U	ND<0.25 U	0.25	551	384
ND<0.5 U	ND<0.25 U	0.25	552	384
ND<0.5 U	ND<0.25 U	0.25	553	384
1.8	ND<0.25 U	1.55	554	384
ND<0.5 U	ND<0.25 U	0.25	555	384
ND<0.5 U	ND<0.25 U	0.25	556	384
1.2	ND<0.25 U	0.95	557	384
ND<0.5 U	ND<0.25 U	0.25	558	384

ND<0.5 U	ND<0.25 U	0.25	559	384
14	ND<0.25 U	13.75	560	384
ND<0.5 U	ND<0.25 U	0.25	561	384
ND<0.5 U	ND<0.25 U	0.25	562	384
ND<0.5 U	ND<0.25 U	0.25	563	384
ND<0.5 U	ND<0.25 U	0.25	564	384
ND<0.25 U	ND<0.25 U	0	564	384
ND<0.25 U	ND<0.25 U	0	564	384
ND<0.25 U	ND<0.25 U	0	564	384
ND<0.5 U	ND<0.25 U	0.25	565	384
ND<0.5 U	ND<0.25 U	0.25	566	384
ND<0.5 U	ND<0.25 U	0.25	567	384
ND<0.5 U	ND<0.25 U	0.25	568	384
ND<0.5 U	ND<0.25 U	0.25	569	384
ND<0.5 U	ND<0.25 U	0.25	570	384
ND<0.5 U	ND<0.25 U	0.25	571	384
ND<0.5 U	ND<0.25 U	0.25	572	384
ND<0.5 U	ND<0.25 U	0.25	573	384
ND<0.5 U	ND<0.25 U	0.25	574	384
ND<0.5 U	ND<0.25 U	0.25	575	384
ND<0.5 U	ND<0.25 U	0.25	576	384
ND<0.5 U	ND<0.25 U	0.25	577	384
ND<0.5 U	ND<0.25 U	0.25	578	384
1.7	ND<0.25 U	1.45	579	384
ND<0.5 U	ND<0.25 U	0.25	580	384
ND<0.5 U	ND<0.25 U	0.25	581	384
2.2	ND<0.25 U	1.95	582	384
ND<0.5 U	ND<0.25 U	0.25	583	384
ND<0.5 U	ND<0.25 U	0.25	584	384
ND<0.5 U	ND<0.25 U	0.25	585	384
1.8	ND<0.25 U	1.55	586	384
ND<0.5 U	ND<0.25 U	0.25	587	384
ND<0.5 U	ND<0.25 U	0.25	588	384
1.2	ND<0.25 U	0.95	589	384
ND<0.5 U	ND<0.25 U	0.25	590	384
ND<0.5 U	ND<0.25 U	0.25	591	384
14	ND<0.25 U	13.75	592	384
ND<0.5 U	ND<0.25 U	0.25	593	384
ND<0.5 U	ND<0.25 U	0.25	594	384
ND<0.5 U	ND<0.25 U	0.25	595	384
ND<0.5 U	ND<0.25 U	0.25	596	384
ND<0.25 U	ND<0.25 U	0	596	384
ND<0.25 U	ND<0.25 U	0	596	384
ND<0.5 U	ND<0.25 U	0.25	597	384
ND<0.5 U	ND<0.25 U	0.25	598	384
ND<0.5 U	ND<0.25 U	0.25	599	384
ND<0.5 U	ND<0.25 U	0.25	600	384
ND<0.5 U	ND<0.25 U	0.25	601	384
ND<0.5 U	ND<0.25 U	0.25	602	384
ND<0.5 U	ND<0.25 U	0.25	603	384
ND<0.5 U	ND<0.25 U	0.25	604	384
ND<0.5 U	ND<0.25 U	0.25	605	384
ND<0.5 U	ND<0.25 U	0.25	606	384
ND<0.5 U	ND<0.25 U	0.25	607	384
ND<0.5 U	ND<0.25 U	0.25	608	384

ND<0.5 U	ND<0.25 U	0.25	609	384
ND<0.5 U	ND<0.25 U	0.25	610	384
1.7	ND<0.25 U	1.45	611	384
ND<0.5 U	ND<0.25 U	0.25	612	384
ND<0.5 U	ND<0.25 U	0.25	613	384
2.2	ND<0.25 U	1.95	614	384
ND<0.5 U	ND<0.25 U	0.25	615	384
ND<0.5 U	ND<0.25 U	0.25	616	384
ND<0.5 U	ND<0.25 U	0.25	617	384
1.8	ND<0.25 U	1.55	618	384
ND<0.5 U	ND<0.25 U	0.25	619	384
ND<0.5 U	ND<0.25 U	0.25	620	384
1.2	ND<0.25 U	0.95	621	384
ND<0.5 U	ND<0.25 U	0.25	622	384
ND<0.5 U	ND<0.25 U	0.25	623	384
14	ND<0.25 U	13.75	624	384
ND<0.5 U	ND<0.25 U	0.25	625	384
ND<0.5 U	ND<0.25 U	0.25	626	384
ND<0.5 U	ND<0.25 U	0.25	627	384
ND<0.5 U	ND<0.25 U	0.25	628	384
ND<0.25 U	ND<0.25 U	0	628	384
ND<0.5 U	ND<0.25 U	0.25	629	384
ND<0.5 U	ND<0.25 U	0.25	630	384
ND<0.5 U	ND<0.25 U	0.25	631	384
ND<0.5 U	ND<0.25 U	0.25	632	384
ND<0.5 U	ND<0.25 U	0.25	633	384
ND<0.5 U	ND<0.25 U	0.25	634	384
ND<0.5 U	ND<0.25 U	0.25	635	384
ND<0.5 U	ND<0.25 U	0.25	636	384
ND<0.5 U	ND<0.25 U	0.25	637	384
ND<0.5 U	ND<0.25 U	0.25	638	384
ND<0.5 U	ND<0.25 U	0.25	639	384
ND<0.5 U	ND<0.25 U	0.25	640	384
ND<0.5 U	ND<0.25 U	0.25	641	384
ND<0.5 U	ND<0.25 U	0.25	642	384
1.7	ND<0.25 U	1.45	643	384
ND<0.5 U	ND<0.25 U	0.25	644	384
ND<0.5 U	ND<0.25 U	0.25	645	384
2.2	ND<0.25 U	1.95	646	384
ND<0.5 U	ND<0.25 U	0.25	647	384
ND<0.5 U	ND<0.25 U	0.25	648	384
ND<0.5 U	ND<0.25 U	0.25	649	384
1.8	ND<0.25 U	1.55	650	384
ND<0.5 U	ND<0.25 U	0.25	651	384
ND<0.5 U	ND<0.25 U	0.25	652	384
1.2	ND<0.25 U	0.95	653	384
ND<0.5 U	ND<0.25 U	0.25	654	384
ND<0.5 U	ND<0.25 U	0.25	655	384
14	ND<0.25 U	13.75	656	384
ND<0.5 U	ND<0.25 U	0.25	657	384
ND<0.5 U	ND<0.25 U	0.25	658	384
ND<0.5 U	ND<0.25 U	0.25	659	384
ND<0.5 U	ND<0.25 U	0.25	660	384
ND<0.5 U	ND<0.25 U	0.25	661	384
ND<0.5 U	ND<0.25 U	0.25	662	384

ND<0.5 U	ND<0.25 U	0.25	663	384
ND<0.5 U	ND<0.25 U	0.25	664	384
ND<0.5 U	ND<0.25 U	0.25	665	384
ND<0.5 U	ND<0.25 U	0.25	666	384
ND<0.5 U	ND<0.25 U	0.25	667	384
ND<0.5 U	ND<0.25 U	0.25	668	384
ND<0.5 U	ND<0.25 U	0.25	669	384
ND<0.5 U	ND<0.25 U	0.25	670	384
ND<0.5 U	ND<0.25 U	0.25	671	384
ND<0.5 U	ND<0.25 U	0.25	672	384
ND<0.5 U	ND<0.25 U	0.25	673	384
ND<0.5 U	ND<0.25 U	0.25	674	384
1.7	ND<0.25 U	1.45	675	384
ND<0.5 U	ND<0.25 U	0.25	676	384
ND<0.5 U	ND<0.25 U	0.25	677	384
2.2	ND<0.25 U	1.95	678	384
ND<0.5 U	ND<0.25 U	0.25	679	384
ND<0.5 U	ND<0.25 U	0.25	680	384
ND<0.5 U	ND<0.25 U	0.25	681	384
1.8	ND<0.25 U	1.55	682	384
ND<0.5 U	ND<0.25 U	0.25	683	384
ND<0.5 U	ND<0.25 U	0.25	684	384
1.2	ND<0.25 U	0.95	685	384
ND<0.5 U	ND<0.25 U	0.25	686	384
ND<0.5 U	ND<0.25 U	0.25	687	384
14	ND<0.25 U	13.75	688	384
ND<0.5 U	ND<0.25 U	0.25	689	384
ND<0.5 U	ND<0.25 U	0.25	690	384
ND<0.5 U	ND<0.25 U	0.25	691	384
ND<0.5 U	ND<0.25 U	0.25	692	384

ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
ND<0.5 U	ND<0.5 U	0	692	384
1.7	ND<0.5 U	1.2	693	384
ND<0.5 U	ND<0.5 U	0	693	384
ND<0.5 U	ND<0.5 U	0	693	384
2.2	ND<0.5 U	1.7	694	384
ND<0.5 U	ND<0.5 U	0	694	384
ND<0.5 U	ND<0.5 U	0	694	384
ND<0.5 U	ND<0.5 U	0	694	384
1.8	ND<0.5 U	1.3	695	384
ND<0.5 U	ND<0.5 U	0	695	384
ND<0.5 U	ND<0.5 U	0	695	384
1.2	ND<0.5 U	0.7	696	384
ND<0.5 U	ND<0.5 U	0	696	384
ND<0.5 U	ND<0.5 U	0	696	384

14	ND<0.5 U	13.5	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
ND<0.5 U	ND<0.5 U	0	697	384
1.7	ND<0.5 U	1.2	698	384
ND<0.5 U	ND<0.5 U	0	698	384
ND<0.5 U	ND<0.5 U	0	698	384
2.2	ND<0.5 U	1.7	699	384
ND<0.5 U	ND<0.5 U	0	699	384
ND<0.5 U	ND<0.5 U	0	699	384
ND<0.5 U	ND<0.5 U	0	699	384
1.8	ND<0.5 U	1.3	700	384
ND<0.5 U	ND<0.5 U	0	700	384
ND<0.5 U	ND<0.5 U	0	700	384
1.2	ND<0.5 U	0.7	701	384
ND<0.5 U	ND<0.5 U	0	701	384
ND<0.5 U	ND<0.5 U	0	701	384
14	ND<0.5 U	13.5	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
ND<0.5 U	ND<0.5 U	0	702	384
1.7	ND<0.5 U	1.2	703	384
ND<0.5 U	ND<0.5 U	0	703	384
ND<0.5 U	ND<0.5 U	0	703	384
2.2	ND<0.5 U	1.7	704	384
ND<0.5 U	ND<0.5 U	0	704	384
ND<0.5 U	ND<0.5 U	0	704	384
ND<0.5 U	ND<0.5 U	0	704	384
1.8	ND<0.5 U	1.3	705	384
ND<0.5 U	ND<0.5 U	0	705	384

ND<0.5 U	ND<0.5 U	0	705	384
1.2	ND<0.5 U	0.7	706	384
ND<0.5 U	ND<0.5 U	0	706	384
ND<0.5 U	ND<0.5 U	0	706	384
14	ND<0.5 U	13.5	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
ND<0.5 U	ND<0.5 U	0	707	384
1.7	ND<0.5 U	1.2	708	384
ND<0.5 U	ND<0.5 U	0	708	384
ND<0.5 U	ND<0.5 U	0	708	384
2.2	ND<0.5 U	1.7	709	384
ND<0.5 U	ND<0.5 U	0	709	384
ND<0.5 U	ND<0.5 U	0	709	384
ND<0.5 U	ND<0.5 U	0	709	384
1.8	ND<0.5 U	1.3	710	384
ND<0.5 U	ND<0.5 U	0	710	384
ND<0.5 U	ND<0.5 U	0	710	384
1.2	ND<0.5 U	0.7	711	384
ND<0.5 U	ND<0.5 U	0	711	384
ND<0.5 U	ND<0.5 U	0	711	384
14	ND<0.5 U	13.5	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
ND<0.5 U	ND<0.5 U	0	712	384
1.7	ND<0.5 U	1.2	713	384
ND<0.5 U	ND<0.5 U	0	713	384
ND<0.5 U	ND<0.5 U	0	713	384
2.2	ND<0.5 U	1.7	714	384
ND<0.5 U	ND<0.5 U	0	714	384
ND<0.5 U	ND<0.5 U	0	714	384
ND<0.5 U	ND<0.5 U	0	714	384
1.8	ND<0.5 U	1.3	715	384
ND<0.5 U	ND<0.5 U	0	715	384

ND<0.5 U	ND<0.5 U	0	715	384
1.2	ND<0.5 U	0.7	716	384
ND<0.5 U	ND<0.5 U	0	716	384
ND<0.5 U	ND<0.5 U	0	716	384
14	ND<0.5 U	13.5	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
ND<0.5 U	ND<0.5 U	0	717	384
1.7	ND<0.5 U	1.2	718	384
ND<0.5 U	ND<0.5 U	0	718	384
ND<0.5 U	ND<0.5 U	0	718	384
2.2	ND<0.5 U	1.7	719	384
ND<0.5 U	ND<0.5 U	0	719	384
ND<0.5 U	ND<0.5 U	0	719	384
ND<0.5 U	ND<0.5 U	0	719	384
1.8	ND<0.5 U	1.3	720	384
ND<0.5 U	ND<0.5 U	0	720	384
ND<0.5 U	ND<0.5 U	0	720	384
1.2	ND<0.5 U	0.7	721	384
ND<0.5 U	ND<0.5 U	0	721	384
ND<0.5 U	ND<0.5 U	0	721	384
14	ND<0.5 U	13.5	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
ND<0.5 U	ND<0.5 U	0	722	384
1.7	ND<0.5 U	1.2	723	384
ND<0.5 U	ND<0.5 U	0	723	384
ND<0.5 U	ND<0.5 U	0	723	384
2.2	ND<0.5 U	1.7	724	384
ND<0.5 U	ND<0.5 U	0	724	384
ND<0.5 U	ND<0.5 U	0	724	384
ND<0.5 U	ND<0.5 U	0	724	384
1.8	ND<0.5 U	1.3	725	384
ND<0.5 U	ND<0.5 U	0	725	384
ND<0.5 U	ND<0.5 U	0	725	384
1.2	ND<0.5 U	0.7	726	384
ND<0.5 U	ND<0.5 U	0	726	384
ND<0.5 U	ND<0.5 U	0	726	384

14	ND<0.5 U	13.5	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
ND<0.5 U	ND<0.5 U	0	727	384
1.7	ND<0.5 U	1.2	728	384
ND<0.5 U	ND<0.5 U	0	728	384
ND<0.5 U	ND<0.5 U	0	728	384
2.2	ND<0.5 U	1.7	729	384
ND<0.5 U	ND<0.5 U	0	729	384
ND<0.5 U	ND<0.5 U	0	729	384
ND<0.5 U	ND<0.5 U	0	729	384
1.8	ND<0.5 U	1.3	730	384
ND<0.5 U	ND<0.5 U	0	730	384
ND<0.5 U	ND<0.5 U	0	730	384
1.2	ND<0.5 U	0.7	731	384
ND<0.5 U	ND<0.5 U	0	731	384
ND<0.5 U	ND<0.5 U	0	731	384
14	ND<0.5 U	13.5	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
ND<0.5 U	ND<0.5 U	0	732	384
1.7	ND<0.5 U	1.2	733	384
ND<0.5 U	ND<0.5 U	0	733	384
ND<0.5 U	ND<0.5 U	0	733	384
2.2	ND<0.5 U	1.7	734	384
ND<0.5 U	ND<0.5 U	0	734	384
ND<0.5 U	ND<0.5 U	0	734	384
ND<0.5 U	ND<0.5 U	0	734	384
1.8	ND<0.5 U	1.3	735	384
ND<0.5 U	ND<0.5 U	0	735	384
ND<0.5 U	ND<0.5 U	0	735	384
1.2	ND<0.5 U	0.7	736	384
ND<0.5 U	ND<0.5 U	0	736	384
ND<0.5 U	ND<0.5 U	0	736	384
14	ND<0.5 U	13.5	737	384
ND<0.5 U	ND<0.5 U	0	737	384
ND<0.5 U	ND<0.5 U	0	737	384
ND<0.5 U	ND<0.5 U	0	737	384
ND<0.5 U	ND<0.5 U	0	737	384
ND<0.5 U	ND<0.5 U	0	737	384
ND<0.5 U	ND<0.5 U	0	737	384

ND<0.5 U	ND<0.5 U	0	737	384
ND<0.5 U	ND<0.5 U	0	737	384
1.7	ND<0.5 U	1.2	738	384
ND<0.5 U	ND<0.5 U	0	738	384
ND<0.5 U	ND<0.5 U	0	738	384
2.2	ND<0.5 U	1.7	739	384
ND<0.5 U	ND<0.5 U	0	739	384
ND<0.5 U	ND<0.5 U	0	739	384
ND<0.5 U	ND<0.5 U	0	739	384
1.8	ND<0.5 U	1.3	740	384
ND<0.5 U	ND<0.5 U	0	740	384
ND<0.5 U	ND<0.5 U	0	740	384
1.2	ND<0.5 U	0.7	741	384
ND<0.5 U	ND<0.5 U	0	741	384
ND<0.5 U	ND<0.5 U	0	741	384
14	ND<0.5 U	13.5	742	384
ND<0.5 U	ND<0.5 U	0	742	384
ND<0.5 U	ND<0.5 U	0	742	384
ND<0.5 U	ND<0.5 U	0	742	384
ND<0.5 U	ND<0.5 U	0	742	384
ND<0.5 U	ND<0.5 U	0	742	384
ND<0.5 U	ND<0.5 U	0	742	384
ND<0.5 U	ND<0.5 U	0	742	384
1.7	ND<0.5 U	1.2	743	384
ND<0.5 U	ND<0.5 U	0	743	384
ND<0.5 U	ND<0.5 U	0	743	384
2.2	ND<0.5 U	1.7	744	384
ND<0.5 U	ND<0.5 U	0	744	384
ND<0.5 U	ND<0.5 U	0	744	384
ND<0.5 U	ND<0.5 U	0	744	384
1.8	ND<0.5 U	1.3	745	384
ND<0.5 U	ND<0.5 U	0	745	384
ND<0.5 U	ND<0.5 U	0	745	384
1.2	ND<0.5 U	0.7	746	384
ND<0.5 U	ND<0.5 U	0	746	384
ND<0.5 U	ND<0.5 U	0	746	384
14	ND<0.5 U	13.5	747	384
ND<0.5 U	ND<0.5 U	0	747	384
ND<0.5 U	ND<0.5 U	0	747	384
ND<0.5 U	ND<0.5 U	0	747	384
ND<0.5 U	ND<0.5 U	0	747	384
ND<0.5 U	ND<0.5 U	0	747	384
ND<0.5 U	ND<0.5 U	0	747	384
1.7	ND<0.5 U	1.2	748	384
ND<0.5 U	ND<0.5 U	0	748	384
ND<0.5 U	ND<0.5 U	0	748	384
2.2	ND<0.5 U	1.7	749	384
ND<0.5 U	ND<0.5 U	0	749	384
ND<0.5 U	ND<0.5 U	0	749	384
ND<0.5 U	ND<0.5 U	0	749	384
1.8	ND<0.5 U	1.3	750	384
ND<0.5 U	ND<0.5 U	0	750	384
ND<0.5 U	ND<0.5 U	0	750	384
1.2	ND<0.5 U	0.7	751	384
ND<0.5 U	ND<0.5 U	0	751	384

ND<0.5 U	ND<0.5 U	0	751	384
14	ND<0.5 U	13.5	752	384
ND<0.5 U	ND<0.5 U	0	752	384
ND<0.5 U	ND<0.5 U	0	752	384
ND<0.5 U	ND<0.5 U	0	752	384
ND<0.5 U	ND<0.5 U	0	752	384
ND<0.5 U	ND<0.5 U	0	752	384
1.7	ND<0.5 U	1.2	753	384
ND<0.5 U	ND<0.5 U	0	753	384
ND<0.5 U	ND<0.5 U	0	753	384
2.2	ND<0.5 U	1.7	754	384
ND<0.5 U	ND<0.5 U	0	754	384
ND<0.5 U	ND<0.5 U	0	754	384
ND<0.5 U	ND<0.5 U	0	754	384
1.8	ND<0.5 U	1.3	755	384
ND<0.5 U	ND<0.5 U	0	755	384
ND<0.5 U	ND<0.5 U	0	755	384
1.2	ND<0.5 U	0.7	756	384
ND<0.5 U	ND<0.5 U	0	756	384
ND<0.5 U	ND<0.5 U	0	756	384
14	ND<0.5 U	13.5	757	384
ND<0.5 U	ND<0.5 U	0	757	384
ND<0.5 U	ND<0.5 U	0	757	384
ND<0.5 U	ND<0.5 U	0	757	384
ND<0.5 U	ND<0.5 U	0	757	384
1.7	ND<0.5 U	1.2	758	384
ND<0.5 U	ND<0.5 U	0	758	384
ND<0.5 U	ND<0.5 U	0	758	384
2.2	ND<0.5 U	1.7	759	384
ND<0.5 U	ND<0.5 U	0	759	384
ND<0.5 U	ND<0.5 U	0	759	384
ND<0.5 U	ND<0.5 U	0	759	384
1.8	ND<0.5 U	1.3	760	384
ND<0.5 U	ND<0.5 U	0	760	384
ND<0.5 U	ND<0.5 U	0	760	384
1.2	ND<0.5 U	0.7	761	384
ND<0.5 U	ND<0.5 U	0	761	384
ND<0.5 U	ND<0.5 U	0	761	384
14	ND<0.5 U	13.5	762	384
ND<0.5 U	ND<0.5 U	0	762	384
ND<0.5 U	ND<0.5 U	0	762	384
ND<0.5 U	ND<0.5 U	0	762	384
ND<0.5 U	ND<0.5 U	0	762	384
ND<0.5 U	1.7	-1.2	762	385
ND<0.5 U	1.7	-1.2	762	386
2.2	1.7	0.5	763	386
ND<0.5 U	1.7	-1.2	763	387
ND<0.5 U	1.7	-1.2	763	388
ND<0.5 U	1.7	-1.2	763	389
1.8	1.7	0.1	764	389
ND<0.5 U	1.7	-1.2	764	390
ND<0.5 U	1.7	-1.2	764	391
1.2	1.7	-0.5	764	392
ND<0.5 U	1.7	-1.2	764	393

ND<0.5 U	1.7	-1.2	764	394
14	1.7	12.3	765	394
ND<0.5 U	1.7	-1.2	765	395
ND<0.5 U	1.7	-1.2	765	396
ND<0.5 U	1.7	-1.2	765	397
ND<0.5 U	1.7	-1.2	765	398
ND<0.5 U	ND<0.5 U	0	765	398
2.2	ND<0.5 U	1.7	766	398
ND<0.5 U	ND<0.5 U	0	766	398
ND<0.5 U	ND<0.5 U	0	766	398
ND<0.5 U	ND<0.5 U	0	766	398
1.8	ND<0.5 U	1.3	767	398
ND<0.5 U	ND<0.5 U	0	767	398
ND<0.5 U	ND<0.5 U	0	767	398
1.2	ND<0.5 U	0.7	768	398
ND<0.5 U	ND<0.5 U	0	768	398
ND<0.5 U	ND<0.5 U	0	768	398
14	ND<0.5 U	13.5	769	398
ND<0.5 U	ND<0.5 U	0	769	398
ND<0.5 U	ND<0.5 U	0	769	398
ND<0.5 U	ND<0.5 U	0	769	398
ND<0.5 U	ND<0.5 U	0	769	398
2.2	ND<0.5 U	1.7	770	398
ND<0.5 U	ND<0.5 U	0	770	398
ND<0.5 U	ND<0.5 U	0	770	398
ND<0.5 U	ND<0.5 U	0	770	398
1.8	ND<0.5 U	1.3	771	398
ND<0.5 U	ND<0.5 U	0	771	398
ND<0.5 U	ND<0.5 U	0	771	398
1.2	ND<0.5 U	0.7	772	398
ND<0.5 U	ND<0.5 U	0	772	398
ND<0.5 U	ND<0.5 U	0	772	398
14	ND<0.5 U	13.5	773	398
ND<0.5 U	ND<0.5 U	0	773	398
ND<0.5 U	ND<0.5 U	0	773	398
ND<0.5 U	ND<0.5 U	0	773	398
ND<0.5 U	ND<0.5 U	0	773	398
ND<0.5 U	2.2	-1.7	773	399
ND<0.5 U	2.2	-1.7	773	400
ND<0.5 U	2.2	-1.7	773	401
1.8	2.2	-0.4	773	402
ND<0.5 U	2.2	-1.7	773	403
ND<0.5 U	2.2	-1.7	773	404
1.2	2.2	-1	773	405
ND<0.5 U	2.2	-1.7	773	406
ND<0.5 U	2.2	-1.7	773	407
14	2.2	11.8	774	407
ND<0.5 U	2.2	-1.7	774	408
ND<0.5 U	2.2	-1.7	774	409
ND<0.5 U	2.2	-1.7	774	410
ND<0.5 U	2.2	-1.7	774	411
ND<0.5 U	ND<0.5 U	0	774	411
ND<0.5 U	ND<0.5 U	0	774	411

1.8	ND<0.5 U	1.3	775	411
ND<0.5 U	ND<0.5 U	0	775	411
ND<0.5 U	ND<0.5 U	0	775	411
1.2	ND<0.5 U	0.7	776	411
ND<0.5 U	ND<0.5 U	0	776	411
ND<0.5 U	ND<0.5 U	0	776	411
14	ND<0.5 U	13.5	777	411
ND<0.5 U	ND<0.5 U	0	777	411
ND<0.5 U	ND<0.5 U	0	777	411
ND<0.5 U	ND<0.5 U	0	777	411
ND<0.5 U	ND<0.5 U	0	777	411
ND<0.5 U	ND<0.5 U	0	777	411
1.8	ND<0.5 U	1.3	778	411
ND<0.5 U	ND<0.5 U	0	778	411
ND<0.5 U	ND<0.5 U	0	778	411
1.2	ND<0.5 U	0.7	779	411
ND<0.5 U	ND<0.5 U	0	779	411
ND<0.5 U	ND<0.5 U	0	779	411
14	ND<0.5 U	13.5	780	411
ND<0.5 U	ND<0.5 U	0	780	411
ND<0.5 U	ND<0.5 U	0	780	411
ND<0.5 U	ND<0.5 U	0	780	411
ND<0.5 U	ND<0.5 U	0	780	411
1.8	ND<0.5 U	1.3	781	411
ND<0.5 U	ND<0.5 U	0	781	411
ND<0.5 U	ND<0.5 U	0	781	411
1.2	ND<0.5 U	0.7	782	411
ND<0.5 U	ND<0.5 U	0	782	411
ND<0.5 U	ND<0.5 U	0	782	411
14	ND<0.5 U	13.5	783	411
ND<0.5 U	ND<0.5 U	0	783	411
ND<0.5 U	ND<0.5 U	0	783	411
ND<0.5 U	ND<0.5 U	0	783	411
ND<0.5 U	ND<0.5 U	0	783	411
ND<0.5 U	1.8	-1.3	783	412
ND<0.5 U	1.8	-1.3	783	413
1.2	1.8	-0.6	783	414
ND<0.5 U	1.8	-1.3	783	415
ND<0.5 U	1.8	-1.3	783	416
14	1.8	12.2	784	416
ND<0.5 U	1.8	-1.3	784	417
ND<0.5 U	1.8	-1.3	784	418
ND<0.5 U	1.8	-1.3	784	419
ND<0.5 U	1.8	-1.3	784	420
ND<0.5 U	ND<0.5 U	0	784	420
1.2	ND<0.5 U	0.7	785	420
ND<0.5 U	ND<0.5 U	0	785	420
ND<0.5 U	ND<0.5 U	0	785	420
14	ND<0.5 U	13.5	786	420
ND<0.5 U	ND<0.5 U	0	786	420
ND<0.5 U	ND<0.5 U	0	786	420
ND<0.5 U	ND<0.5 U	0	786	420
ND<0.5 U	ND<0.5 U	0	786	420

1.2	ND<0.5 U	0.7	787	420
ND<0.5 U	ND<0.5 U	0	787	420
ND<0.5 U	ND<0.5 U	0	787	420
14	ND<0.5 U	13.5	788	420
ND<0.5 U	ND<0.5 U	0	788	420
ND<0.5 U	ND<0.5 U	0	788	420
ND<0.5 U	ND<0.5 U	0	788	420
ND<0.5 U	ND<0.5 U	0	788	420
ND<0.5 U	1.2	-0.7	788	421
ND<0.5 U	1.2	-0.7	788	422
14	1.2	12.8	789	422
ND<0.5 U	1.2	-0.7	789	423
ND<0.5 U	1.2	-0.7	789	424
ND<0.5 U	1.2	-0.7	789	425
ND<0.5 U	1.2	-0.7	789	426
ND<0.5 U	ND<0.5 U	0	789	426
14	ND<0.5 U	13.5	790	426
ND<0.5 U	ND<0.5 U	0	790	426
ND<0.5 U	ND<0.5 U	0	790	426
ND<0.5 U	ND<0.5 U	0	790	426
ND<0.5 U	ND<0.5 U	0	790	426
14	ND<0.5 U	13.5	791	426
ND<0.5 U	ND<0.5 U	0	791	426
ND<0.5 U	ND<0.5 U	0	791	426
ND<0.5 U	ND<0.5 U	0	791	426
ND<0.5 U	ND<0.5 U	0	791	426
ND<0.5 U	14	-13.5	791	427
ND<0.5 U	14	-13.5	791	428
ND<0.5 U	14	-13.5	791	429
ND<0.5 U	14	-13.5	791	430
ND<0.5 U	ND<0.5 U	0	791	430
ND<0.5 U	ND<0.5 U	0	791	430
ND<0.5 U	ND<0.5 U	0	791	430
ND<0.5 U	ND<0.5 U	0	791	430
ND<0.5 U	ND<0.5 U	0	791	430
ND<0.5 U	ND<0.5 U	0	791	430

S Statistic = 791 - 430 = 361

Tied Group	**Value**	**Members**
1	0.5	38
2	1	3
3	0.25	18

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1

3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1

```
7/24/2018                      1
10/29/2018                     1
1/30/2019                      1
4/29/2019                      1
7/29/2019                      1
There are 0 time periods with multiple data
```

```
A = 126498
B = 0
C = 55518
D = 0
E = 1718
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 24172.3
Z-Score = 2.31549
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.31549| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Toluene

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30
ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34

ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35
ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35

ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.25 U	ND<0.25 U	0	56	35
ND<0.25 U	ND<0.25 U	0	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35
ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.25 U	ND<0.25 U	0	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35

ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

S Statistic = 98 - 35 = 63

Tied Group	**Value**	**Members**
1	0.5	19
2	0.25	7

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 15504
B = 0
C = 6024

D = 0
E = 384
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 1197
Z-Score = 1.79203
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.79203| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30

ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34
ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35

ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35

ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35
ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.25 U	ND<0.25 U	0	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.25 U	0.25	99	35
ND<0.5 U	ND<0.25 U	0.25	100	35
ND<0.5 U	ND<0.25 U	0.25	101	35
ND<0.5 U	ND<0.25 U	0.25	102	35
ND<0.5 U	ND<0.25 U	0.25	103	35
ND<0.5 U	ND<0.25 U	0.25	104	35
ND<0.5 U	ND<0.25 U	0.25	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

S Statistic = 105 - 35 = 70

Tied Group	**Value**	**Members**
1	0.5	20
2	0.25	7

Time Period	**Observations**
11/24/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

```
10/13/2010                    1
1/14/2011                     1
4/21/2011                     1
7/21/2011                     1
10/31/2011                    1
1/13/2012                     1
4/27/2012                     1
7/26/2012                     1
10/18/2012                    1
1/29/2013                     1
7/29/2013                     1
1/31/2014                     1
7/17/2014                     1
1/27/2015                     1
7/21/2015                     1
1/27/2016                     1
7/26/2016                     1
1/30/2017                     1
7/24/2017                     1
1/29/2018                     1
7/24/2018                     1
1/30/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 17898
B = 0
C = 7050
D = 0
E = 422
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 1306.67
Z-Score = 1.90883
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.90883| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30

ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34
ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35

ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35

ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.25 U	ND<0.25 U	0	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35

ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.25 U	ND<0.25 U	0	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.25 U	ND<0.25 U	0	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.25 U	ND<0.25 U	0	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35

ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35
ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.25 U	ND<0.25 U	0	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.25 U	0.25	99	35
ND<0.5 U	ND<0.25 U	0.25	100	35
ND<0.5 U	ND<0.25 U	0.25	101	35
ND<0.5 U	ND<0.25 U	0.25	102	35
ND<0.5 U	ND<0.25 U	0.25	103	35
ND<0.5 U	ND<0.25 U	0.25	104	35
ND<0.5 U	ND<0.25 U	0.25	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35
ND<0.5 U	ND<0.5 U	0	105	35

S Statistic = 105 - 35 = 70

Tied Group	**Value**	**Members**
1	0.5	20
2	0.25	7

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

```
10/13/2010                    1
1/14/2011                     1
4/21/2011                     1
7/21/2011                     1
10/31/2011                    1
1/13/2012                     1
4/27/2012                     1
7/26/2012                     1
10/18/2012                    1
1/29/2013                     1
7/29/2013                     1
1/31/2014                     1
7/17/2014                     1
1/27/2015                     1
7/21/2015                     1
1/27/2016                     1
7/26/2016                     1
1/30/2017                     1
7/24/2017                     1
1/29/2018                     1
7/24/2018                     1
1/30/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 17898
B = 0
C = 7050
D = 0
E = 422
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 1306.67
Z-Score = 1.90883
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.90883| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.5 U	ND<0.5 U	0	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
ND<0.25 U	ND<0.5 U	-0.25	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
ND<0.25 U	ND<0.5 U	-0.25	1	12
ND<0.25 U	ND<0.5 U	-0.25	1	13
ND<0.25 U	ND<0.5 U	-0.25	1	14
ND<0.25 U	ND<0.5 U	-0.25	1	15
ND<0.25 U	ND<0.5 U	-0.25	1	16
ND<0.25 U	ND<0.5 U	-0.25	1	17
ND<0.25 U	ND<0.5 U	-0.25	1	18
ND<0.25 U	ND<0.5 U	-0.25	1	19
ND<0.25 U	ND<0.5 U	-0.25	1	20
ND<0.25 U	ND<0.5 U	-0.25	1	21
ND<0.25 U	ND<0.5 U	-0.25	1	22
ND<0.25 U	ND<0.5 U	-0.25	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23

ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<0.5 U	ND<0.5 U	0	1	23
ND<1 U	ND<0.5 U	0.5	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.5 U	ND<0.5 U	0	2	23
ND<0.25 U	ND<0.5 U	-0.25	2	24
ND<0.25 U	ND<0.5 U	-0.25	2	25
ND<0.5 U	ND<0.5 U	0	2	25
ND<0.25 U	ND<0.5 U	-0.25	2	26
ND<0.25 U	ND<0.5 U	-0.25	2	27
ND<0.25 U	ND<0.5 U	-0.25	2	28
ND<0.25 U	ND<0.5 U	-0.25	2	29
ND<0.25 U	ND<0.5 U	-0.25	2	30
ND<0.25 U	ND<0.5 U	-0.25	2	31
ND<0.25 U	ND<0.5 U	-0.25	2	32
ND<0.25 U	ND<0.5 U	-0.25	2	33
ND<0.25 U	ND<0.5 U	-0.25	2	34
ND<0.25 U	ND<0.5 U	-0.25	2	35
ND<0.25 U	ND<0.5 U	-0.25	2	36
ND<0.25 U	ND<0.5 U	-0.25	2	37
ND<0.25 U	ND<0.5 U	-0.25	2	38
ND<0.25 U	ND<0.5 U	-0.25	2	39
ND<0.25 U	ND<0.5 U	-0.25	2	40
ND<0.25 U	ND<0.5 U	-0.25	2	41
ND<0.25 U	ND<0.5 U	-0.25	2	42
ND<0.25 U	ND<0.5 U	-0.25	2	43
ND<0.25 U	ND<0.5 U	-0.25	2	44
ND<0.25 U	ND<0.5 U	-0.25	2	45
ND<0.25 U	ND<0.5 U	-0.25	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<0.5 U	0	2	46
ND<0.5 U	ND<1 U	-0.5	2	47

ND<0.5 U	ND<1 U	-0.5	2	48
ND<0.5 U	ND<1 U	-0.5	2	49
ND<0.5 U	ND<1 U	-0.5	2	50
ND<0.5 U	ND<1 U	-0.5	2	51
ND<0.5 U	ND<1 U	-0.5	2	52
ND<0.25 U	ND<1 U	-0.75	2	53
ND<0.25 U	ND<1 U	-0.75	2	54
ND<0.5 U	ND<1 U	-0.5	2	55
ND<0.25 U	ND<1 U	-0.75	2	56
ND<0.25 U	ND<1 U	-0.75	2	57
ND<0.25 U	ND<1 U	-0.75	2	58
ND<0.25 U	ND<1 U	-0.75	2	59
ND<0.25 U	ND<1 U	-0.75	2	60
ND<0.25 U	ND<1 U	-0.75	2	61
ND<0.25 U	ND<1 U	-0.75	2	62
ND<0.25 U	ND<1 U	-0.75	2	63
ND<0.25 U	ND<1 U	-0.75	2	64
ND<0.25 U	ND<1 U	-0.75	2	65
ND<0.25 U	ND<1 U	-0.75	2	66
ND<0.25 U	ND<1 U	-0.75	2	67
ND<0.25 U	ND<1 U	-0.75	2	68
ND<0.25 U	ND<1 U	-0.75	2	69
ND<0.25 U	ND<1 U	-0.75	2	70
ND<0.25 U	ND<1 U	-0.75	2	71
ND<0.25 U	ND<1 U	-0.75	2	72
ND<0.25 U	ND<1 U	-0.75	2	73
ND<0.25 U	ND<1 U	-0.75	2	74
ND<0.25 U	ND<1 U	-0.75	2	75
ND<0.25 U	ND<1 U	-0.75	2	76
ND<0.5 U	ND<1 U	-0.5	2	77
ND<0.5 U	ND<1 U	-0.5	2	78
ND<0.5 U	ND<1 U	-0.5	2	79
ND<0.5 U	ND<1 U	-0.5	2	80
ND<0.5 U	ND<1 U	-0.5	2	81
ND<0.5 U	ND<1 U	-0.5	2	82
ND<0.5 U	ND<1 U	-0.5	2	83
ND<0.5 U	ND<1 U	-0.5	2	84
ND<0.5 U	ND<1 U	-0.5	2	85
ND<0.5 U	ND<1 U	-0.5	2	86
ND<0.5 U	ND<1 U	-0.5	2	87
ND<0.5 U	ND<1 U	-0.5	2	88
ND<0.5 U	ND<1 U	-0.5	2	89
ND<0.5 U	ND<1 U	-0.5	2	90
ND<0.5 U	ND<1 U	-0.5	2	91
ND<0.5 U	ND<1 U	-0.5	2	92
ND<0.5 U	ND<1 U	-0.5	2	93
ND<0.5 U	ND<1 U	-0.5	2	94
ND<0.5 U	ND<1 U	-0.5	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.5 U	ND<0.5 U	0	2	95
ND<0.25 U	ND<0.5 U	-0.25	2	96
ND<0.25 U	ND<0.5 U	-0.25	2	97
ND<0.5 U	ND<0.5 U	0	2	97

ND<0.25 U	ND<0.5 U	-0.25	2	98
ND<0.25 U	ND<0.5 U	-0.25	2	99
ND<0.25 U	ND<0.5 U	-0.25	2	100
ND<0.25 U	ND<0.5 U	-0.25	2	101
ND<0.25 U	ND<0.5 U	-0.25	2	102
ND<0.25 U	ND<0.5 U	-0.25	2	103
ND<0.25 U	ND<0.5 U	-0.25	2	104
ND<0.25 U	ND<0.5 U	-0.25	2	105
ND<0.25 U	ND<0.5 U	-0.25	2	106
ND<0.25 U	ND<0.5 U	-0.25	2	107
ND<0.25 U	ND<0.5 U	-0.25	2	108
ND<0.25 U	ND<0.5 U	-0.25	2	109
ND<0.25 U	ND<0.5 U	-0.25	2	110
ND<0.25 U	ND<0.5 U	-0.25	2	111
ND<0.25 U	ND<0.5 U	-0.25	2	112
ND<0.25 U	ND<0.5 U	-0.25	2	113
ND<0.25 U	ND<0.5 U	-0.25	2	114
ND<0.25 U	ND<0.5 U	-0.25	2	115
ND<0.25 U	ND<0.5 U	-0.25	2	116
ND<0.25 U	ND<0.5 U	-0.25	2	117
ND<0.25 U	ND<0.5 U	-0.25	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.5 U	ND<0.5 U	0	2	118
ND<0.25 U	ND<0.5 U	-0.25	2	119
ND<0.25 U	ND<0.5 U	-0.25	2	120
ND<0.5 U	ND<0.5 U	0	2	120
ND<0.25 U	ND<0.5 U	-0.25	2	121
ND<0.25 U	ND<0.5 U	-0.25	2	122
ND<0.25 U	ND<0.5 U	-0.25	2	123
ND<0.25 U	ND<0.5 U	-0.25	2	124
ND<0.25 U	ND<0.5 U	-0.25	2	125
ND<0.25 U	ND<0.5 U	-0.25	2	126
ND<0.25 U	ND<0.5 U	-0.25	2	127
ND<0.25 U	ND<0.5 U	-0.25	2	128
ND<0.25 U	ND<0.5 U	-0.25	2	129

ND<0.25 U	ND<0.5 U	-0.25	2	130
ND<0.25 U	ND<0.5 U	-0.25	2	131
ND<0.25 U	ND<0.5 U	-0.25	2	132
ND<0.25 U	ND<0.5 U	-0.25	2	133
ND<0.25 U	ND<0.5 U	-0.25	2	134
ND<0.25 U	ND<0.5 U	-0.25	2	135
ND<0.25 U	ND<0.5 U	-0.25	2	136
ND<0.25 U	ND<0.5 U	-0.25	2	137
ND<0.25 U	ND<0.5 U	-0.25	2	138
ND<0.25 U	ND<0.5 U	-0.25	2	139
ND<0.25 U	ND<0.5 U	-0.25	2	140
ND<0.25 U	ND<0.5 U	-0.25	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.5 U	ND<0.5 U	0	2	141
ND<0.25 U	ND<0.5 U	-0.25	2	142
ND<0.25 U	ND<0.5 U	-0.25	2	143
ND<0.5 U	ND<0.5 U	0	2	143
ND<0.25 U	ND<0.5 U	-0.25	2	144
ND<0.25 U	ND<0.5 U	-0.25	2	145
ND<0.25 U	ND<0.5 U	-0.25	2	146
ND<0.25 U	ND<0.5 U	-0.25	2	147
ND<0.25 U	ND<0.5 U	-0.25	2	148
ND<0.25 U	ND<0.5 U	-0.25	2	149
ND<0.25 U	ND<0.5 U	-0.25	2	150
ND<0.25 U	ND<0.5 U	-0.25	2	151
ND<0.25 U	ND<0.5 U	-0.25	2	152
ND<0.25 U	ND<0.5 U	-0.25	2	153
ND<0.25 U	ND<0.5 U	-0.25	2	154
ND<0.25 U	ND<0.5 U	-0.25	2	155
ND<0.25 U	ND<0.5 U	-0.25	2	156
ND<0.25 U	ND<0.5 U	-0.25	2	157
ND<0.25 U	ND<0.5 U	-0.25	2	158
ND<0.25 U	ND<0.5 U	-0.25	2	159
ND<0.25 U	ND<0.5 U	-0.25	2	160
ND<0.25 U	ND<0.5 U	-0.25	2	161
ND<0.25 U	ND<0.5 U	-0.25	2	162

ND<0.25 U	ND<0.5 U	-0.25	2	163
ND<0.25 U	ND<0.5 U	-0.25	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.5 U	ND<0.5 U	0	2	164
ND<0.25 U	ND<0.5 U	-0.25	2	165
ND<0.25 U	ND<0.5 U	-0.25	2	166
ND<0.5 U	ND<0.5 U	0	2	166
ND<0.25 U	ND<0.5 U	-0.25	2	167
ND<0.25 U	ND<0.5 U	-0.25	2	168
ND<0.25 U	ND<0.5 U	-0.25	2	169
ND<0.25 U	ND<0.5 U	-0.25	2	170
ND<0.25 U	ND<0.5 U	-0.25	2	171
ND<0.25 U	ND<0.5 U	-0.25	2	172
ND<0.25 U	ND<0.5 U	-0.25	2	173
ND<0.25 U	ND<0.5 U	-0.25	2	174
ND<0.25 U	ND<0.5 U	-0.25	2	175
ND<0.25 U	ND<0.5 U	-0.25	2	176
ND<0.25 U	ND<0.5 U	-0.25	2	177
ND<0.25 U	ND<0.5 U	-0.25	2	178
ND<0.25 U	ND<0.5 U	-0.25	2	179
ND<0.25 U	ND<0.5 U	-0.25	2	180
ND<0.25 U	ND<0.5 U	-0.25	2	181
ND<0.25 U	ND<0.5 U	-0.25	2	182
ND<0.25 U	ND<0.5 U	-0.25	2	183
ND<0.25 U	ND<0.5 U	-0.25	2	184
ND<0.25 U	ND<0.5 U	-0.25	2	185
ND<0.25 U	ND<0.5 U	-0.25	2	186
ND<0.25 U	ND<0.5 U	-0.25	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187

ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187
ND<0.5 U	ND<0.5 U	0	2	187

ND<0.5 U	ND<0.5 U	0	2	187
ND<0.25 U	ND<0.5 U	-0.25	2	188
ND<0.25 U	ND<0.5 U	-0.25	2	189
ND<0.5 U	ND<0.5 U	0	2	189
ND<0.25 U	ND<0.5 U	-0.25	2	190
ND<0.25 U	ND<0.5 U	-0.25	2	191
ND<0.25 U	ND<0.5 U	-0.25	2	192
ND<0.25 U	ND<0.5 U	-0.25	2	193
ND<0.25 U	ND<0.5 U	-0.25	2	194
ND<0.25 U	ND<0.5 U	-0.25	2	195
ND<0.25 U	ND<0.5 U	-0.25	2	196
ND<0.25 U	ND<0.5 U	-0.25	2	197
ND<0.25 U	ND<0.5 U	-0.25	2	198
ND<0.25 U	ND<0.5 U	-0.25	2	199
ND<0.25 U	ND<0.5 U	-0.25	2	200
ND<0.25 U	ND<0.5 U	-0.25	2	201
ND<0.25 U	ND<0.5 U	-0.25	2	202
ND<0.25 U	ND<0.5 U	-0.25	2	203
ND<0.25 U	ND<0.5 U	-0.25	2	204
ND<0.25 U	ND<0.5 U	-0.25	2	205
ND<0.25 U	ND<0.5 U	-0.25	2	206
ND<0.25 U	ND<0.5 U	-0.25	2	207
ND<0.25 U	ND<0.5 U	-0.25	2	208
ND<0.25 U	ND<0.5 U	-0.25	2	209
ND<0.25 U	ND<0.5 U	-0.25	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210
ND<0.5 U	ND<0.5 U	0	2	210

ND<0.25 U	ND<0.5 U	-0.25	2	211

ND<0.25 U	ND<0.5 U	-0.25	2	212
ND<0.5 U	ND<0.5 U	0	2	212
ND<0.25 U	ND<0.5 U	-0.25	2	213
ND<0.25 U	ND<0.5 U	-0.25	2	214
ND<0.25 U	ND<0.5 U	-0.25	2	215
ND<0.25 U	ND<0.5 U	-0.25	2	216
ND<0.25 U	ND<0.5 U	-0.25	2	217
ND<0.25 U	ND<0.5 U	-0.25	2	218
ND<0.25 U	ND<0.5 U	-0.25	2	219
ND<0.25 U	ND<0.5 U	-0.25	2	220
ND<0.25 U	ND<0.5 U	-0.25	2	221
ND<0.25 U	ND<0.5 U	-0.25	2	222
ND<0.25 U	ND<0.5 U	-0.25	2	223
ND<0.25 U	ND<0.5 U	-0.25	2	224
ND<0.25 U	ND<0.5 U	-0.25	2	225
ND<0.25 U	ND<0.5 U	-0.25	2	226
ND<0.25 U	ND<0.5 U	-0.25	2	227
ND<0.25 U	ND<0.5 U	-0.25	2	228
ND<0.25 U	ND<0.5 U	-0.25	2	229
ND<0.25 U	ND<0.5 U	-0.25	2	230
ND<0.25 U	ND<0.5 U	-0.25	2	231
ND<0.25 U	ND<0.5 U	-0.25	2	232
ND<0.25 U	ND<0.5 U	-0.25	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233
ND<0.5 U	ND<0.5 U	0	2	233

ND<0.25 U	ND<0.25 U	0	2	233
ND<0.5 U	ND<0.25 U	0.25	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233

ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.25 U	ND<0.25 U	0	3	233
ND<0.5 U	ND<0.25 U	0.25	4	233
ND<0.5 U	ND<0.25 U	0.25	5	233
ND<0.5 U	ND<0.25 U	0.25	6	233
ND<0.5 U	ND<0.25 U	0.25	7	233
ND<0.5 U	ND<0.25 U	0.25	8	233
ND<0.5 U	ND<0.25 U	0.25	9	233
ND<0.5 U	ND<0.25 U	0.25	10	233
ND<0.5 U	ND<0.25 U	0.25	11	233
ND<0.5 U	ND<0.25 U	0.25	12	233
ND<0.5 U	ND<0.25 U	0.25	13	233
ND<0.5 U	ND<0.25 U	0.25	14	233
ND<0.5 U	ND<0.25 U	0.25	15	233
ND<0.5 U	ND<0.25 U	0.25	16	233
ND<0.5 U	ND<0.25 U	0.25	17	233
ND<0.5 U	ND<0.25 U	0.25	18	233
ND<0.5 U	ND<0.25 U	0.25	19	233
ND<0.5 U	ND<0.25 U	0.25	20	233
ND<0.5 U	ND<0.25 U	0.25	21	233
ND<0.5 U	ND<0.25 U	0.25	22	233
ND<0.5 U	ND<0.25 U	0.25	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.25 U	ND<0.25 U	0	23	233
ND<0.5 U	ND<0.25 U	0.25	24	233
ND<0.5 U	ND<0.25 U	0.25	25	233
ND<0.5 U	ND<0.25 U	0.25	26	233
ND<0.5 U	ND<0.25 U	0.25	27	233
ND<0.5 U	ND<0.25 U	0.25	28	233
ND<0.5 U	ND<0.25 U	0.25	29	233

ND<0.5 U	ND<0.25 U	0.25	30	233
ND<0.5 U	ND<0.25 U	0.25	31	233
ND<0.5 U	ND<0.25 U	0.25	32	233
ND<0.5 U	ND<0.25 U	0.25	33	233
ND<0.5 U	ND<0.25 U	0.25	34	233
ND<0.5 U	ND<0.25 U	0.25	35	233
ND<0.5 U	ND<0.25 U	0.25	36	233
ND<0.5 U	ND<0.25 U	0.25	37	233
ND<0.5 U	ND<0.25 U	0.25	38	233
ND<0.5 U	ND<0.25 U	0.25	39	233
ND<0.5 U	ND<0.25 U	0.25	40	233
ND<0.5 U	ND<0.25 U	0.25	41	233
ND<0.5 U	ND<0.25 U	0.25	42	233
ND<0.25 U	ND<0.5 U	-0.25	42	234
ND<0.25 U	ND<0.5 U	-0.25	42	235
ND<0.25 U	ND<0.5 U	-0.25	42	236
ND<0.25 U	ND<0.5 U	-0.25	42	237
ND<0.25 U	ND<0.5 U	-0.25	42	238
ND<0.25 U	ND<0.5 U	-0.25	42	239
ND<0.25 U	ND<0.5 U	-0.25	42	240
ND<0.25 U	ND<0.5 U	-0.25	42	241
ND<0.25 U	ND<0.5 U	-0.25	42	242
ND<0.25 U	ND<0.5 U	-0.25	42	243
ND<0.25 U	ND<0.5 U	-0.25	42	244
ND<0.25 U	ND<0.5 U	-0.25	42	245
ND<0.25 U	ND<0.5 U	-0.25	42	246
ND<0.25 U	ND<0.5 U	-0.25	42	247
ND<0.25 U	ND<0.5 U	-0.25	42	248
ND<0.25 U	ND<0.5 U	-0.25	42	249
ND<0.25 U	ND<0.5 U	-0.25	42	250
ND<0.25 U	ND<0.5 U	-0.25	42	251
ND<0.25 U	ND<0.5 U	-0.25	42	252
ND<0.25 U	ND<0.5 U	-0.25	42	253
ND<0.25 U	ND<0.5 U	-0.25	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.5 U	ND<0.5 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254

ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.25 U	ND<0.25 U	0	42	254
ND<0.5 U	ND<0.25 U	0.25	43	254
ND<0.5 U	ND<0.25 U	0.25	44	254
ND<0.5 U	ND<0.25 U	0.25	45	254
ND<0.5 U	ND<0.25 U	0.25	46	254
ND<0.5 U	ND<0.25 U	0.25	47	254
ND<0.5 U	ND<0.25 U	0.25	48	254
ND<0.5 U	ND<0.25 U	0.25	49	254
ND<0.5 U	ND<0.25 U	0.25	50	254
ND<0.5 U	ND<0.25 U	0.25	51	254
ND<0.5 U	ND<0.25 U	0.25	52	254
ND<0.5 U	ND<0.25 U	0.25	53	254
ND<0.5 U	ND<0.25 U	0.25	54	254
ND<0.5 U	ND<0.25 U	0.25	55	254
ND<0.5 U	ND<0.25 U	0.25	56	254
ND<0.5 U	ND<0.25 U	0.25	57	254
ND<0.5 U	ND<0.25 U	0.25	58	254
ND<0.5 U	ND<0.25 U	0.25	59	254
ND<0.5 U	ND<0.25 U	0.25	60	254
ND<0.5 U	ND<0.25 U	0.25	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254
ND<0.25 U	ND<0.25 U	0	61	254

ND<0.5 U	ND<0.25 U	0.25	62	254
ND<0.5 U	ND<0.25 U	0.25	63	254
ND<0.5 U	ND<0.25 U	0.25	64	254
ND<0.5 U	ND<0.25 U	0.25	65	254
ND<0.5 U	ND<0.25 U	0.25	66	254
ND<0.5 U	ND<0.25 U	0.25	67	254
ND<0.5 U	ND<0.25 U	0.25	68	254
ND<0.5 U	ND<0.25 U	0.25	69	254
ND<0.5 U	ND<0.25 U	0.25	70	254
ND<0.5 U	ND<0.25 U	0.25	71	254
ND<0.5 U	ND<0.25 U	0.25	72	254
ND<0.5 U	ND<0.25 U	0.25	73	254
ND<0.5 U	ND<0.25 U	0.25	74	254
ND<0.5 U	ND<0.25 U	0.25	75	254
ND<0.5 U	ND<0.25 U	0.25	76	254
ND<0.5 U	ND<0.25 U	0.25	77	254
ND<0.5 U	ND<0.25 U	0.25	78	254
ND<0.5 U	ND<0.25 U	0.25	79	254
ND<0.5 U	ND<0.25 U	0.25	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.25 U	ND<0.25 U	0	80	254
ND<0.5 U	ND<0.25 U	0.25	81	254
ND<0.5 U	ND<0.25 U	0.25	82	254
ND<0.5 U	ND<0.25 U	0.25	83	254
ND<0.5 U	ND<0.25 U	0.25	84	254
ND<0.5 U	ND<0.25 U	0.25	85	254
ND<0.5 U	ND<0.25 U	0.25	86	254
ND<0.5 U	ND<0.25 U	0.25	87	254
ND<0.5 U	ND<0.25 U	0.25	88	254
ND<0.5 U	ND<0.25 U	0.25	89	254
ND<0.5 U	ND<0.25 U	0.25	90	254
ND<0.5 U	ND<0.25 U	0.25	91	254
ND<0.5 U	ND<0.25 U	0.25	92	254
ND<0.5 U	ND<0.25 U	0.25	93	254
ND<0.5 U	ND<0.25 U	0.25	94	254
ND<0.5 U	ND<0.25 U	0.25	95	254
ND<0.5 U	ND<0.25 U	0.25	96	254
ND<0.5 U	ND<0.25 U	0.25	97	254
ND<0.5 U	ND<0.25 U	0.25	98	254
ND<0.5 U	ND<0.25 U	0.25	99	254

ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.25 U	ND<0.25 U	0	99	254
ND<0.5 U	ND<0.25 U	0.25	100	254
ND<0.5 U	ND<0.25 U	0.25	101	254
ND<0.5 U	ND<0.25 U	0.25	102	254
ND<0.5 U	ND<0.25 U	0.25	103	254
ND<0.5 U	ND<0.25 U	0.25	104	254
ND<0.5 U	ND<0.25 U	0.25	105	254
ND<0.5 U	ND<0.25 U	0.25	106	254
ND<0.5 U	ND<0.25 U	0.25	107	254
ND<0.5 U	ND<0.25 U	0.25	108	254
ND<0.5 U	ND<0.25 U	0.25	109	254
ND<0.5 U	ND<0.25 U	0.25	110	254
ND<0.5 U	ND<0.25 U	0.25	111	254
ND<0.5 U	ND<0.25 U	0.25	112	254
ND<0.5 U	ND<0.25 U	0.25	113	254
ND<0.5 U	ND<0.25 U	0.25	114	254
ND<0.5 U	ND<0.25 U	0.25	115	254
ND<0.5 U	ND<0.25 U	0.25	116	254
ND<0.5 U	ND<0.25 U	0.25	117	254
ND<0.5 U	ND<0.25 U	0.25	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.25 U	ND<0.25 U	0	118	254
ND<0.5 U	ND<0.25 U	0.25	119	254
ND<0.5 U	ND<0.25 U	0.25	120	254
ND<0.5 U	ND<0.25 U	0.25	121	254

ND<0.5 U	ND<0.25 U	0.25	122	254
ND<0.5 U	ND<0.25 U	0.25	123	254
ND<0.5 U	ND<0.25 U	0.25	124	254
ND<0.5 U	ND<0.25 U	0.25	125	254
ND<0.5 U	ND<0.25 U	0.25	126	254
ND<0.5 U	ND<0.25 U	0.25	127	254
ND<0.5 U	ND<0.25 U	0.25	128	254
ND<0.5 U	ND<0.25 U	0.25	129	254
ND<0.5 U	ND<0.25 U	0.25	130	254
ND<0.5 U	ND<0.25 U	0.25	131	254
ND<0.5 U	ND<0.25 U	0.25	132	254
ND<0.5 U	ND<0.25 U	0.25	133	254
ND<0.5 U	ND<0.25 U	0.25	134	254
ND<0.5 U	ND<0.25 U	0.25	135	254
ND<0.5 U	ND<0.25 U	0.25	136	254
ND<0.5 U	ND<0.25 U	0.25	137	254

ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.25 U	ND<0.25 U	0	137	254
ND<0.5 U	ND<0.25 U	0.25	138	254
ND<0.5 U	ND<0.25 U	0.25	139	254
ND<0.5 U	ND<0.25 U	0.25	140	254
ND<0.5 U	ND<0.25 U	0.25	141	254
ND<0.5 U	ND<0.25 U	0.25	142	254
ND<0.5 U	ND<0.25 U	0.25	143	254
ND<0.5 U	ND<0.25 U	0.25	144	254
ND<0.5 U	ND<0.25 U	0.25	145	254
ND<0.5 U	ND<0.25 U	0.25	146	254
ND<0.5 U	ND<0.25 U	0.25	147	254
ND<0.5 U	ND<0.25 U	0.25	148	254
ND<0.5 U	ND<0.25 U	0.25	149	254
ND<0.5 U	ND<0.25 U	0.25	150	254
ND<0.5 U	ND<0.25 U	0.25	151	254
ND<0.5 U	ND<0.25 U	0.25	152	254
ND<0.5 U	ND<0.25 U	0.25	153	254
ND<0.5 U	ND<0.25 U	0.25	154	254
ND<0.5 U	ND<0.25 U	0.25	155	254
ND<0.5 U	ND<0.25 U	0.25	156	254

ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254

ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.25 U	ND<0.25 U	0	156	254
ND<0.5 U	ND<0.25 U	0.25	157	254
ND<0.5 U	ND<0.25 U	0.25	158	254
ND<0.5 U	ND<0.25 U	0.25	159	254
ND<0.5 U	ND<0.25 U	0.25	160	254
ND<0.5 U	ND<0.25 U	0.25	161	254
ND<0.5 U	ND<0.25 U	0.25	162	254
ND<0.5 U	ND<0.25 U	0.25	163	254
ND<0.5 U	ND<0.25 U	0.25	164	254
ND<0.5 U	ND<0.25 U	0.25	165	254
ND<0.5 U	ND<0.25 U	0.25	166	254
ND<0.5 U	ND<0.25 U	0.25	167	254
ND<0.5 U	ND<0.25 U	0.25	168	254
ND<0.5 U	ND<0.25 U	0.25	169	254
ND<0.5 U	ND<0.25 U	0.25	170	254
ND<0.5 U	ND<0.25 U	0.25	171	254
ND<0.5 U	ND<0.25 U	0.25	172	254
ND<0.5 U	ND<0.25 U	0.25	173	254
ND<0.5 U	ND<0.25 U	0.25	174	254
ND<0.5 U	ND<0.25 U	0.25	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.25 U	ND<0.25 U	0	175	254
ND<0.5 U	ND<0.25 U	0.25	176	254
ND<0.5 U	ND<0.25 U	0.25	177	254
ND<0.5 U	ND<0.25 U	0.25	178	254
ND<0.5 U	ND<0.25 U	0.25	179	254
ND<0.5 U	ND<0.25 U	0.25	180	254
ND<0.5 U	ND<0.25 U	0.25	181	254
ND<0.5 U	ND<0.25 U	0.25	182	254
ND<0.5 U	ND<0.25 U	0.25	183	254
ND<0.5 U	ND<0.25 U	0.25	184	254
ND<0.5 U	ND<0.25 U	0.25	185	254
ND<0.5 U	ND<0.25 U	0.25	186	254
ND<0.5 U	ND<0.25 U	0.25	187	254
ND<0.5 U	ND<0.25 U	0.25	188	254
ND<0.5 U	ND<0.25 U	0.25	189	254
ND<0.5 U	ND<0.25 U	0.25	190	254

ND<0.5 U	ND<0.25 U	0.25	191	254
ND<0.5 U	ND<0.25 U	0.25	192	254
ND<0.5 U	ND<0.25 U	0.25	193	254
ND<0.5 U	ND<0.25 U	0.25	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.25 U	ND<0.25 U	0	194	254
ND<0.5 U	ND<0.25 U	0.25	195	254
ND<0.5 U	ND<0.25 U	0.25	196	254
ND<0.5 U	ND<0.25 U	0.25	197	254
ND<0.5 U	ND<0.25 U	0.25	198	254
ND<0.5 U	ND<0.25 U	0.25	199	254
ND<0.5 U	ND<0.25 U	0.25	200	254
ND<0.5 U	ND<0.25 U	0.25	201	254
ND<0.5 U	ND<0.25 U	0.25	202	254
ND<0.5 U	ND<0.25 U	0.25	203	254
ND<0.5 U	ND<0.25 U	0.25	204	254
ND<0.5 U	ND<0.25 U	0.25	205	254
ND<0.5 U	ND<0.25 U	0.25	206	254
ND<0.5 U	ND<0.25 U	0.25	207	254
ND<0.5 U	ND<0.25 U	0.25	208	254
ND<0.5 U	ND<0.25 U	0.25	209	254
ND<0.5 U	ND<0.25 U	0.25	210	254
ND<0.5 U	ND<0.25 U	0.25	211	254
ND<0.5 U	ND<0.25 U	0.25	212	254
ND<0.5 U	ND<0.25 U	0.25	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.25 U	ND<0.25 U	0	213	254
ND<0.5 U	ND<0.25 U	0.25	214	254
ND<0.5 U	ND<0.25 U	0.25	215	254
ND<0.5 U	ND<0.25 U	0.25	216	254
ND<0.5 U	ND<0.25 U	0.25	217	254
ND<0.5 U	ND<0.25 U	0.25	218	254
ND<0.5 U	ND<0.25 U	0.25	219	254
ND<0.5 U	ND<0.25 U	0.25	220	254
ND<0.5 U	ND<0.25 U	0.25	221	254
ND<0.5 U	ND<0.25 U	0.25	222	254

ND<0.5 U	ND<0.25 U	0.25	223	254
ND<0.5 U	ND<0.25 U	0.25	224	254
ND<0.5 U	ND<0.25 U	0.25	225	254
ND<0.5 U	ND<0.25 U	0.25	226	254
ND<0.5 U	ND<0.25 U	0.25	227	254
ND<0.5 U	ND<0.25 U	0.25	228	254
ND<0.5 U	ND<0.25 U	0.25	229	254
ND<0.5 U	ND<0.25 U	0.25	230	254
ND<0.5 U	ND<0.25 U	0.25	231	254
ND<0.5 U	ND<0.25 U	0.25	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.25 U	ND<0.25 U	0	232	254
ND<0.5 U	ND<0.25 U	0.25	233	254
ND<0.5 U	ND<0.25 U	0.25	234	254
ND<0.5 U	ND<0.25 U	0.25	235	254
ND<0.5 U	ND<0.25 U	0.25	236	254
ND<0.5 U	ND<0.25 U	0.25	237	254
ND<0.5 U	ND<0.25 U	0.25	238	254
ND<0.5 U	ND<0.25 U	0.25	239	254
ND<0.5 U	ND<0.25 U	0.25	240	254
ND<0.5 U	ND<0.25 U	0.25	241	254
ND<0.5 U	ND<0.25 U	0.25	242	254
ND<0.5 U	ND<0.25 U	0.25	243	254
ND<0.5 U	ND<0.25 U	0.25	244	254
ND<0.5 U	ND<0.25 U	0.25	245	254
ND<0.5 U	ND<0.25 U	0.25	246	254
ND<0.5 U	ND<0.25 U	0.25	247	254
ND<0.5 U	ND<0.25 U	0.25	248	254
ND<0.5 U	ND<0.25 U	0.25	249	254
ND<0.5 U	ND<0.25 U	0.25	250	254
ND<0.5 U	ND<0.25 U	0.25	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.25 U	ND<0.25 U	0	251	254
ND<0.5 U	ND<0.25 U	0.25	252	254
ND<0.5 U	ND<0.25 U	0.25	253	254
ND<0.5 U	ND<0.25 U	0.25	254	254
ND<0.5 U	ND<0.25 U	0.25	255	254
ND<0.5 U	ND<0.25 U	0.25	256	254
ND<0.5 U	ND<0.25 U	0.25	257	254
ND<0.5 U	ND<0.25 U	0.25	258	254

ND<0.5 U	ND<0.25 U	0.25	259	254
ND<0.5 U	ND<0.25 U	0.25	260	254
ND<0.5 U	ND<0.25 U	0.25	261	254
ND<0.5 U	ND<0.25 U	0.25	262	254
ND<0.5 U	ND<0.25 U	0.25	263	254
ND<0.5 U	ND<0.25 U	0.25	264	254
ND<0.5 U	ND<0.25 U	0.25	265	254
ND<0.5 U	ND<0.25 U	0.25	266	254
ND<0.5 U	ND<0.25 U	0.25	267	254
ND<0.5 U	ND<0.25 U	0.25	268	254
ND<0.5 U	ND<0.25 U	0.25	269	254
ND<0.5 U	ND<0.25 U	0.25	270	254

ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.25 U	ND<0.25 U	0	270	254
ND<0.5 U	ND<0.25 U	0.25	271	254
ND<0.5 U	ND<0.25 U	0.25	272	254
ND<0.5 U	ND<0.25 U	0.25	273	254
ND<0.5 U	ND<0.25 U	0.25	274	254
ND<0.5 U	ND<0.25 U	0.25	275	254
ND<0.5 U	ND<0.25 U	0.25	276	254
ND<0.5 U	ND<0.25 U	0.25	277	254
ND<0.5 U	ND<0.25 U	0.25	278	254
ND<0.5 U	ND<0.25 U	0.25	279	254
ND<0.5 U	ND<0.25 U	0.25	280	254
ND<0.5 U	ND<0.25 U	0.25	281	254
ND<0.5 U	ND<0.25 U	0.25	282	254
ND<0.5 U	ND<0.25 U	0.25	283	254
ND<0.5 U	ND<0.25 U	0.25	284	254
ND<0.5 U	ND<0.25 U	0.25	285	254
ND<0.5 U	ND<0.25 U	0.25	286	254
ND<0.5 U	ND<0.25 U	0.25	287	254
ND<0.5 U	ND<0.25 U	0.25	288	254
ND<0.5 U	ND<0.25 U	0.25	289	254

ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.25 U	ND<0.25 U	0	289	254
ND<0.5 U	ND<0.25 U	0.25	290	254
ND<0.5 U	ND<0.25 U	0.25	291	254
ND<0.5 U	ND<0.25 U	0.25	292	254
ND<0.5 U	ND<0.25 U	0.25	293	254
ND<0.5 U	ND<0.25 U	0.25	294	254
ND<0.5 U	ND<0.25 U	0.25	295	254
ND<0.5 U	ND<0.25 U	0.25	296	254
ND<0.5 U	ND<0.25 U	0.25	297	254
ND<0.5 U	ND<0.25 U	0.25	298	254

ND<0.5 U	ND<0.25 U	0.25	299	254
ND<0.5 U	ND<0.25 U	0.25	300	254
ND<0.5 U	ND<0.25 U	0.25	301	254
ND<0.5 U	ND<0.25 U	0.25	302	254
ND<0.5 U	ND<0.25 U	0.25	303	254
ND<0.5 U	ND<0.25 U	0.25	304	254
ND<0.5 U	ND<0.25 U	0.25	305	254
ND<0.5 U	ND<0.25 U	0.25	306	254
ND<0.5 U	ND<0.25 U	0.25	307	254
ND<0.5 U	ND<0.25 U	0.25	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.25 U	ND<0.25 U	0	308	254
ND<0.5 U	ND<0.25 U	0.25	309	254
ND<0.5 U	ND<0.25 U	0.25	310	254
ND<0.5 U	ND<0.25 U	0.25	311	254
ND<0.5 U	ND<0.25 U	0.25	312	254
ND<0.5 U	ND<0.25 U	0.25	313	254
ND<0.5 U	ND<0.25 U	0.25	314	254
ND<0.5 U	ND<0.25 U	0.25	315	254
ND<0.5 U	ND<0.25 U	0.25	316	254
ND<0.5 U	ND<0.25 U	0.25	317	254
ND<0.5 U	ND<0.25 U	0.25	318	254
ND<0.5 U	ND<0.25 U	0.25	319	254
ND<0.5 U	ND<0.25 U	0.25	320	254
ND<0.5 U	ND<0.25 U	0.25	321	254
ND<0.5 U	ND<0.25 U	0.25	322	254
ND<0.5 U	ND<0.25 U	0.25	323	254
ND<0.5 U	ND<0.25 U	0.25	324	254
ND<0.5 U	ND<0.25 U	0.25	325	254
ND<0.5 U	ND<0.25 U	0.25	326	254
ND<0.5 U	ND<0.25 U	0.25	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.25 U	ND<0.25 U	0	327	254
ND<0.5 U	ND<0.25 U	0.25	328	254
ND<0.5 U	ND<0.25 U	0.25	329	254
ND<0.5 U	ND<0.25 U	0.25	330	254
ND<0.5 U	ND<0.25 U	0.25	331	254
ND<0.5 U	ND<0.25 U	0.25	332	254
ND<0.5 U	ND<0.25 U	0.25	333	254
ND<0.5 U	ND<0.25 U	0.25	334	254
ND<0.5 U	ND<0.25 U	0.25	335	254
ND<0.5 U	ND<0.25 U	0.25	336	254
ND<0.5 U	ND<0.25 U	0.25	337	254
ND<0.5 U	ND<0.25 U	0.25	338	254
ND<0.5 U	ND<0.25 U	0.25	339	254
ND<0.5 U	ND<0.25 U	0.25	340	254
ND<0.5 U	ND<0.25 U	0.25	341	254
ND<0.5 U	ND<0.25 U	0.25	342	254

ND<0.5 U	ND<0.25 U	0.25	343	254
ND<0.5 U	ND<0.25 U	0.25	344	254
ND<0.5 U	ND<0.25 U	0.25	345	254
ND<0.5 U	ND<0.25 U	0.25	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.25 U	ND<0.25 U	0	346	254
ND<0.5 U	ND<0.25 U	0.25	347	254
ND<0.5 U	ND<0.25 U	0.25	348	254
ND<0.5 U	ND<0.25 U	0.25	349	254
ND<0.5 U	ND<0.25 U	0.25	350	254
ND<0.5 U	ND<0.25 U	0.25	351	254
ND<0.5 U	ND<0.25 U	0.25	352	254
ND<0.5 U	ND<0.25 U	0.25	353	254
ND<0.5 U	ND<0.25 U	0.25	354	254
ND<0.5 U	ND<0.25 U	0.25	355	254
ND<0.5 U	ND<0.25 U	0.25	356	254
ND<0.5 U	ND<0.25 U	0.25	357	254
ND<0.5 U	ND<0.25 U	0.25	358	254
ND<0.5 U	ND<0.25 U	0.25	359	254
ND<0.5 U	ND<0.25 U	0.25	360	254
ND<0.5 U	ND<0.25 U	0.25	361	254
ND<0.5 U	ND<0.25 U	0.25	362	254
ND<0.5 U	ND<0.25 U	0.25	363	254
ND<0.5 U	ND<0.25 U	0.25	364	254
ND<0.5 U	ND<0.25 U	0.25	365	254
ND<0.25 U	ND<0.25 U	0	365	254
ND<0.25 U	ND<0.25 U	0	365	254
ND<0.25 U	ND<0.25 U	0	365	254
ND<0.5 U	ND<0.25 U	0.25	366	254
ND<0.5 U	ND<0.25 U	0.25	367	254
ND<0.5 U	ND<0.25 U	0.25	368	254
ND<0.5 U	ND<0.25 U	0.25	369	254
ND<0.5 U	ND<0.25 U	0.25	370	254
ND<0.5 U	ND<0.25 U	0.25	371	254
ND<0.5 U	ND<0.25 U	0.25	372	254
ND<0.5 U	ND<0.25 U	0.25	373	254
ND<0.5 U	ND<0.25 U	0.25	374	254
ND<0.5 U	ND<0.25 U	0.25	375	254
ND<0.5 U	ND<0.25 U	0.25	376	254
ND<0.5 U	ND<0.25 U	0.25	377	254
ND<0.5 U	ND<0.25 U	0.25	378	254
ND<0.5 U	ND<0.25 U	0.25	379	254
ND<0.5 U	ND<0.25 U	0.25	380	254
ND<0.5 U	ND<0.25 U	0.25	381	254
ND<0.5 U	ND<0.25 U	0.25	382	254
ND<0.5 U	ND<0.25 U	0.25	383	254
ND<0.5 U	ND<0.25 U	0.25	384	254
ND<0.25 U	ND<0.25 U	0	384	254
ND<0.25 U	ND<0.25 U	0	384	254
ND<0.5 U	ND<0.25 U	0.25	385	254
ND<0.5 U	ND<0.25 U	0.25	386	254
ND<0.5 U	ND<0.25 U	0.25	387	254

ND<0.5 U	ND<0.25 U	0.25	388	254
ND<0.5 U	ND<0.25 U	0.25	389	254
ND<0.5 U	ND<0.25 U	0.25	390	254
ND<0.5 U	ND<0.25 U	0.25	391	254
ND<0.5 U	ND<0.25 U	0.25	392	254
ND<0.5 U	ND<0.25 U	0.25	393	254
ND<0.5 U	ND<0.25 U	0.25	394	254
ND<0.5 U	ND<0.25 U	0.25	395	254
ND<0.5 U	ND<0.25 U	0.25	396	254
ND<0.5 U	ND<0.25 U	0.25	397	254
ND<0.5 U	ND<0.25 U	0.25	398	254
ND<0.5 U	ND<0.25 U	0.25	399	254
ND<0.5 U	ND<0.25 U	0.25	400	254
ND<0.5 U	ND<0.25 U	0.25	401	254
ND<0.5 U	ND<0.25 U	0.25	402	254
ND<0.5 U	ND<0.25 U	0.25	403	254
ND<0.25 U	ND<0.25 U	0	403	254
ND<0.5 U	ND<0.25 U	0.25	404	254
ND<0.5 U	ND<0.25 U	0.25	405	254
ND<0.5 U	ND<0.25 U	0.25	406	254
ND<0.5 U	ND<0.25 U	0.25	407	254
ND<0.5 U	ND<0.25 U	0.25	408	254
ND<0.5 U	ND<0.25 U	0.25	409	254
ND<0.5 U	ND<0.25 U	0.25	410	254
ND<0.5 U	ND<0.25 U	0.25	411	254
ND<0.5 U	ND<0.25 U	0.25	412	254
ND<0.5 U	ND<0.25 U	0.25	413	254
ND<0.5 U	ND<0.25 U	0.25	414	254
ND<0.5 U	ND<0.25 U	0.25	415	254
ND<0.5 U	ND<0.25 U	0.25	416	254
ND<0.5 U	ND<0.25 U	0.25	417	254
ND<0.5 U	ND<0.25 U	0.25	418	254
ND<0.5 U	ND<0.25 U	0.25	419	254
ND<0.5 U	ND<0.25 U	0.25	420	254
ND<0.5 U	ND<0.25 U	0.25	421	254
ND<0.5 U	ND<0.25 U	0.25	422	254
ND<0.5 U	ND<0.25 U	0.25	423	254
ND<0.5 U	ND<0.25 U	0.25	424	254
ND<0.5 U	ND<0.25 U	0.25	425	254
ND<0.5 U	ND<0.25 U	0.25	426	254
ND<0.5 U	ND<0.25 U	0.25	427	254
ND<0.5 U	ND<0.25 U	0.25	428	254
ND<0.5 U	ND<0.25 U	0.25	429	254
ND<0.5 U	ND<0.25 U	0.25	430	254
ND<0.5 U	ND<0.25 U	0.25	431	254
ND<0.5 U	ND<0.25 U	0.25	432	254
ND<0.5 U	ND<0.25 U	0.25	433	254
ND<0.5 U	ND<0.25 U	0.25	434	254
ND<0.5 U	ND<0.25 U	0.25	435	254
ND<0.5 U	ND<0.25 U	0.25	436	254
ND<0.5 U	ND<0.25 U	0.25	437	254
ND<0.5 U	ND<0.25 U	0.25	438	254
ND<0.5 U	ND<0.25 U	0.25	439	254
ND<0.5 U	ND<0.25 U	0.25	440	254
ND<0.5 U	ND<0.25 U	0.25	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254
ND<0.5 U	ND<0.5 U	0	441	254

S Statistic = 441 - 254 = 187

Tied Group	Value	Members
1	0.5	28
2	0.25	23

Time Period	Observations
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1

```
5/24/2012                    1
6/15/2012                    1
7/26/2012                    1
8/15/2012                    1
9/11/2012                    1
10/18/2012                   1
11/14/2012                   1
12/5/2012                    1
1/29/2013                    1
7/29/2013                    1
1/31/2014                    1
7/17/2014                    1
1/27/2015                    1
7/21/2015                    1
1/27/2016                    1
7/26/2016                    1
1/30/2017                    1
7/24/2017                    1
1/29/2018                    1
7/24/2018                    1
1/30/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 71922
B = 0
C = 30282
D = 0
E = 1262
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 12063.7
Z-Score = 1.69345
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.69345| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
ND<0.25 U	ND<0.5 U	-0.25	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
ND<0.25 U	ND<0.5 U	-0.25	1	12
ND<0.25 U	ND<0.5 U	-0.25	1	13
ND<0.25 U	ND<0.5 U	-0.25	1	14
ND<0.25 U	ND<0.5 U	-0.25	1	15
ND<0.25 U	ND<0.5 U	-0.25	1	16
ND<0.25 U	ND<0.5 U	-0.25	1	17
ND<0.25 U	ND<0.5 U	-0.25	1	18
ND<0.25 U	ND<0.5 U	-0.25	1	19
ND<0.25 U	ND<0.5 U	-0.25	1	20
ND<0.25 U	ND<0.5 U	-0.25	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21

ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<1 U	ND<0.5 U	0.5	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.25 U	ND<0.5 U	-0.25	2	22
ND<0.25 U	ND<0.5 U	-0.25	2	23
ND<0.25 U	ND<0.5 U	-0.25	2	24
ND<0.25 U	ND<0.5 U	-0.25	2	25
ND<0.25 U	ND<0.5 U	-0.25	2	26
ND<0.25 U	ND<0.5 U	-0.25	2	27
ND<0.25 U	ND<0.5 U	-0.25	2	28
ND<0.25 U	ND<0.5 U	-0.25	2	29
ND<0.25 U	ND<0.5 U	-0.25	2	30
ND<0.25 U	ND<0.5 U	-0.25	2	31
ND<0.25 U	ND<0.5 U	-0.25	2	32
ND<0.25 U	ND<0.5 U	-0.25	2	33
ND<0.25 U	ND<0.5 U	-0.25	2	34
ND<0.25 U	ND<0.5 U	-0.25	2	35
ND<0.25 U	ND<0.5 U	-0.25	2	36
ND<0.25 U	ND<0.5 U	-0.25	2	37
ND<0.25 U	ND<0.5 U	-0.25	2	38
ND<0.25 U	ND<0.5 U	-0.25	2	39
ND<0.25 U	ND<0.5 U	-0.25	2	40
ND<0.25 U	ND<0.5 U	-0.25	2	41
ND<0.25 U	ND<0.5 U	-0.25	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<1 U	-0.5	2	43

ND<0.5 U	ND<1 U	-0.5	2	44
ND<0.5 U	ND<1 U	-0.5	2	45
ND<0.5 U	ND<1 U	-0.5	2	46
ND<0.5 U	ND<1 U	-0.5	2	47
ND<0.5 U	ND<1 U	-0.5	2	48
ND<0.5 U	ND<1 U	-0.5	2	49
ND<0.5 U	ND<1 U	-0.5	2	50
ND<0.5 U	ND<1 U	-0.5	2	51
ND<0.25 U	ND<1 U	-0.75	2	52
ND<0.25 U	ND<1 U	-0.75	2	53
ND<0.25 U	ND<1 U	-0.75	2	54
ND<0.25 U	ND<1 U	-0.75	2	55
ND<0.25 U	ND<1 U	-0.75	2	56
ND<0.25 U	ND<1 U	-0.75	2	57
ND<0.25 U	ND<1 U	-0.75	2	58
ND<0.25 U	ND<1 U	-0.75	2	59
ND<0.25 U	ND<1 U	-0.75	2	60
ND<0.25 U	ND<1 U	-0.75	2	61
ND<0.25 U	ND<1 U	-0.75	2	62
ND<0.25 U	ND<1 U	-0.75	2	63
ND<0.25 U	ND<1 U	-0.75	2	64
ND<0.25 U	ND<1 U	-0.75	2	65
ND<0.25 U	ND<1 U	-0.75	2	66
ND<0.25 U	ND<1 U	-0.75	2	67
ND<0.25 U	ND<1 U	-0.75	2	68
ND<0.25 U	ND<1 U	-0.75	2	69
ND<0.25 U	ND<1 U	-0.75	2	70
ND<0.25 U	ND<1 U	-0.75	2	71
ND<0.25 U	ND<1 U	-0.75	2	72
ND<0.5 U	ND<1 U	-0.5	2	73
ND<0.5 U	ND<1 U	-0.5	2	74
ND<0.5 U	ND<1 U	-0.5	2	75
ND<0.5 U	ND<1 U	-0.5	2	76
ND<0.5 U	ND<1 U	-0.5	2	77
ND<0.5 U	ND<1 U	-0.5	2	78
ND<0.5 U	ND<1 U	-0.5	2	79
ND<0.5 U	ND<1 U	-0.5	2	80
ND<0.5 U	ND<1 U	-0.5	2	81
ND<0.5 U	ND<1 U	-0.5	2	82
ND<0.5 U	ND<1 U	-0.5	2	83
ND<0.5 U	ND<1 U	-0.5	2	84
ND<0.5 U	ND<1 U	-0.5	2	85
ND<0.5 U	ND<1 U	-0.5	2	86
ND<0.5 U	ND<1 U	-0.5	2	87
ND<0.5 U	ND<1 U	-0.5	2	88
ND<0.5 U	ND<1 U	-0.5	2	89
ND<0.5 U	ND<1 U	-0.5	2	90
ND<0.5 U	ND<1 U	-0.5	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91
ND<0.5 U	ND<0.5 U	0	2	91

ND<0.25 U	ND<0.5 U	-0.25	2	92
ND<0.25 U	ND<0.5 U	-0.25	2	93
ND<0.25 U	ND<0.5 U	-0.25	2	94
ND<0.25 U	ND<0.5 U	-0.25	2	95
ND<0.25 U	ND<0.5 U	-0.25	2	96
ND<0.25 U	ND<0.5 U	-0.25	2	97
ND<0.25 U	ND<0.5 U	-0.25	2	98
ND<0.25 U	ND<0.5 U	-0.25	2	99
ND<0.25 U	ND<0.5 U	-0.25	2	100
ND<0.25 U	ND<0.5 U	-0.25	2	101
ND<0.25 U	ND<0.5 U	-0.25	2	102
ND<0.25 U	ND<0.5 U	-0.25	2	103
ND<0.25 U	ND<0.5 U	-0.25	2	104
ND<0.25 U	ND<0.5 U	-0.25	2	105
ND<0.25 U	ND<0.5 U	-0.25	2	106
ND<0.25 U	ND<0.5 U	-0.25	2	107
ND<0.25 U	ND<0.5 U	-0.25	2	108
ND<0.25 U	ND<0.5 U	-0.25	2	109
ND<0.25 U	ND<0.5 U	-0.25	2	110
ND<0.25 U	ND<0.5 U	-0.25	2	111
ND<0.25 U	ND<0.5 U	-0.25	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.5 U	ND<0.5 U	0	2	112
ND<0.25 U	ND<0.5 U	-0.25	2	113
ND<0.25 U	ND<0.5 U	-0.25	2	114
ND<0.25 U	ND<0.5 U	-0.25	2	115
ND<0.25 U	ND<0.5 U	-0.25	2	116
ND<0.25 U	ND<0.5 U	-0.25	2	117
ND<0.25 U	ND<0.5 U	-0.25	2	118
ND<0.25 U	ND<0.5 U	-0.25	2	119
ND<0.25 U	ND<0.5 U	-0.25	2	120
ND<0.25 U	ND<0.5 U	-0.25	2	121

ND<0.25 U	ND<0.5 U	-0.25	2	122
ND<0.25 U	ND<0.5 U	-0.25	2	123
ND<0.25 U	ND<0.5 U	-0.25	2	124
ND<0.25 U	ND<0.5 U	-0.25	2	125
ND<0.25 U	ND<0.5 U	-0.25	2	126
ND<0.25 U	ND<0.5 U	-0.25	2	127
ND<0.25 U	ND<0.5 U	-0.25	2	128
ND<0.25 U	ND<0.5 U	-0.25	2	129
ND<0.25 U	ND<0.5 U	-0.25	2	130
ND<0.25 U	ND<0.5 U	-0.25	2	131
ND<0.25 U	ND<0.5 U	-0.25	2	132
ND<0.25 U	ND<0.5 U	-0.25	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.5 U	ND<0.5 U	0	2	133
ND<0.25 U	ND<0.5 U	-0.25	2	134
ND<0.25 U	ND<0.5 U	-0.25	2	135
ND<0.25 U	ND<0.5 U	-0.25	2	136
ND<0.25 U	ND<0.5 U	-0.25	2	137
ND<0.25 U	ND<0.5 U	-0.25	2	138
ND<0.25 U	ND<0.5 U	-0.25	2	139
ND<0.25 U	ND<0.5 U	-0.25	2	140
ND<0.25 U	ND<0.5 U	-0.25	2	141
ND<0.25 U	ND<0.5 U	-0.25	2	142
ND<0.25 U	ND<0.5 U	-0.25	2	143
ND<0.25 U	ND<0.5 U	-0.25	2	144
ND<0.25 U	ND<0.5 U	-0.25	2	145
ND<0.25 U	ND<0.5 U	-0.25	2	146
ND<0.25 U	ND<0.5 U	-0.25	2	147
ND<0.25 U	ND<0.5 U	-0.25	2	148
ND<0.25 U	ND<0.5 U	-0.25	2	149
ND<0.25 U	ND<0.5 U	-0.25	2	150
ND<0.25 U	ND<0.5 U	-0.25	2	151
ND<0.25 U	ND<0.5 U	-0.25	2	152

ND<0.25 U	ND<0.5 U	-0.25	2	153
ND<0.25 U	ND<0.5 U	-0.25	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.5 U	ND<0.5 U	0	2	154
ND<0.25 U	ND<0.5 U	-0.25	2	155
ND<0.25 U	ND<0.5 U	-0.25	2	156
ND<0.25 U	ND<0.5 U	-0.25	2	157
ND<0.25 U	ND<0.5 U	-0.25	2	158
ND<0.25 U	ND<0.5 U	-0.25	2	159
ND<0.25 U	ND<0.5 U	-0.25	2	160
ND<0.25 U	ND<0.5 U	-0.25	2	161
ND<0.25 U	ND<0.5 U	-0.25	2	162
ND<0.25 U	ND<0.5 U	-0.25	2	163
ND<0.25 U	ND<0.5 U	-0.25	2	164
ND<0.25 U	ND<0.5 U	-0.25	2	165
ND<0.25 U	ND<0.5 U	-0.25	2	166
ND<0.25 U	ND<0.5 U	-0.25	2	167
ND<0.25 U	ND<0.5 U	-0.25	2	168
ND<0.25 U	ND<0.5 U	-0.25	2	169
ND<0.25 U	ND<0.5 U	-0.25	2	170
ND<0.25 U	ND<0.5 U	-0.25	2	171
ND<0.25 U	ND<0.5 U	-0.25	2	172
ND<0.25 U	ND<0.5 U	-0.25	2	173
ND<0.25 U	ND<0.5 U	-0.25	2	174
ND<0.25 U	ND<0.5 U	-0.25	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175

ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.5 U	ND<0.5 U	0	2	175
ND<0.25 U	ND<0.5 U	-0.25	2	176
ND<0.25 U	ND<0.5 U	-0.25	2	177
ND<0.25 U	ND<0.5 U	-0.25	2	178
ND<0.25 U	ND<0.5 U	-0.25	2	179
ND<0.25 U	ND<0.5 U	-0.25	2	180
ND<0.25 U	ND<0.5 U	-0.25	2	181
ND<0.25 U	ND<0.5 U	-0.25	2	182
ND<0.25 U	ND<0.5 U	-0.25	2	183
ND<0.25 U	ND<0.5 U	-0.25	2	184
ND<0.25 U	ND<0.5 U	-0.25	2	185
ND<0.25 U	ND<0.5 U	-0.25	2	186
ND<0.25 U	ND<0.5 U	-0.25	2	187
ND<0.25 U	ND<0.5 U	-0.25	2	188
ND<0.25 U	ND<0.5 U	-0.25	2	189
ND<0.25 U	ND<0.5 U	-0.25	2	190
ND<0.25 U	ND<0.5 U	-0.25	2	191
ND<0.25 U	ND<0.5 U	-0.25	2	192
ND<0.25 U	ND<0.5 U	-0.25	2	193
ND<0.25 U	ND<0.5 U	-0.25	2	194
ND<0.25 U	ND<0.5 U	-0.25	2	195
ND<0.25 U	ND<0.5 U	-0.25	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196

ND<0.5 U	ND<0.5 U	0	2	196
ND<0.5 U	ND<0.5 U	0	2	196
ND<0.25 U	ND<0.5 U	-0.25	2	197
ND<0.25 U	ND<0.5 U	-0.25	2	198
ND<0.25 U	ND<0.5 U	-0.25	2	199
ND<0.25 U	ND<0.5 U	-0.25	2	200
ND<0.25 U	ND<0.5 U	-0.25	2	201
ND<0.25 U	ND<0.5 U	-0.25	2	202
ND<0.25 U	ND<0.5 U	-0.25	2	203
ND<0.25 U	ND<0.5 U	-0.25	2	204
ND<0.25 U	ND<0.5 U	-0.25	2	205
ND<0.25 U	ND<0.5 U	-0.25	2	206
ND<0.25 U	ND<0.5 U	-0.25	2	207
ND<0.25 U	ND<0.5 U	-0.25	2	208
ND<0.25 U	ND<0.5 U	-0.25	2	209
ND<0.25 U	ND<0.5 U	-0.25	2	210
ND<0.25 U	ND<0.5 U	-0.25	2	211
ND<0.25 U	ND<0.5 U	-0.25	2	212
ND<0.25 U	ND<0.5 U	-0.25	2	213
ND<0.25 U	ND<0.5 U	-0.25	2	214
ND<0.25 U	ND<0.5 U	-0.25	2	215
ND<0.25 U	ND<0.5 U	-0.25	2	216
ND<0.25 U	ND<0.5 U	-0.25	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.5 U	ND<0.5 U	0	2	217
ND<0.25 U	ND<0.5 U	-0.25	2	218
ND<0.25 U	ND<0.5 U	-0.25	2	219
ND<0.25 U	ND<0.5 U	-0.25	2	220
ND<0.25 U	ND<0.5 U	-0.25	2	221
ND<0.25 U	ND<0.5 U	-0.25	2	222
ND<0.25 U	ND<0.5 U	-0.25	2	223
ND<0.25 U	ND<0.5 U	-0.25	2	224
ND<0.25 U	ND<0.5 U	-0.25	2	225
ND<0.25 U	ND<0.5 U	-0.25	2	226
ND<0.25 U	ND<0.5 U	-0.25	2	227
ND<0.25 U	ND<0.5 U	-0.25	2	228
ND<0.25 U	ND<0.5 U	-0.25	2	229

ND<0.25 U	ND<0.5 U	-0.25	2	230
ND<0.25 U	ND<0.5 U	-0.25	2	231
ND<0.25 U	ND<0.5 U	-0.25	2	232
ND<0.25 U	ND<0.5 U	-0.25	2	233
ND<0.25 U	ND<0.5 U	-0.25	2	234
ND<0.25 U	ND<0.5 U	-0.25	2	235
ND<0.25 U	ND<0.5 U	-0.25	2	236
ND<0.25 U	ND<0.5 U	-0.25	2	237
ND<0.25 U	ND<0.5 U	-0.25	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.5 U	ND<0.5 U	0	2	238
ND<0.25 U	ND<0.5 U	-0.25	2	239
ND<0.25 U	ND<0.5 U	-0.25	2	240
ND<0.25 U	ND<0.5 U	-0.25	2	241
ND<0.25 U	ND<0.5 U	-0.25	2	242
ND<0.25 U	ND<0.5 U	-0.25	2	243
ND<0.25 U	ND<0.5 U	-0.25	2	244
ND<0.25 U	ND<0.5 U	-0.25	2	245
ND<0.25 U	ND<0.5 U	-0.25	2	246
ND<0.25 U	ND<0.5 U	-0.25	2	247
ND<0.25 U	ND<0.5 U	-0.25	2	248
ND<0.25 U	ND<0.5 U	-0.25	2	249
ND<0.25 U	ND<0.5 U	-0.25	2	250
ND<0.25 U	ND<0.5 U	-0.25	2	251
ND<0.25 U	ND<0.5 U	-0.25	2	252
ND<0.25 U	ND<0.5 U	-0.25	2	253
ND<0.25 U	ND<0.5 U	-0.25	2	254
ND<0.25 U	ND<0.5 U	-0.25	2	255
ND<0.25 U	ND<0.5 U	-0.25	2	256
ND<0.25 U	ND<0.5 U	-0.25	2	257
ND<0.25 U	ND<0.5 U	-0.25	2	258
ND<0.25 U	ND<0.5 U	-0.25	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259

ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259
ND<0.5 U	ND<0.5 U	0	2	259

ND<0.25 U	ND<0.5 U	-0.25	2	260
ND<0.25 U	ND<0.5 U	-0.25	2	261
ND<0.25 U	ND<0.5 U	-0.25	2	262
ND<0.25 U	ND<0.5 U	-0.25	2	263
ND<0.25 U	ND<0.5 U	-0.25	2	264
ND<0.25 U	ND<0.5 U	-0.25	2	265
ND<0.25 U	ND<0.5 U	-0.25	2	266
ND<0.25 U	ND<0.5 U	-0.25	2	267
ND<0.25 U	ND<0.5 U	-0.25	2	268
ND<0.25 U	ND<0.5 U	-0.25	2	269
ND<0.25 U	ND<0.5 U	-0.25	2	270
ND<0.25 U	ND<0.5 U	-0.25	2	271
ND<0.25 U	ND<0.5 U	-0.25	2	272
ND<0.25 U	ND<0.5 U	-0.25	2	273
ND<0.25 U	ND<0.5 U	-0.25	2	274
ND<0.25 U	ND<0.5 U	-0.25	2	275
ND<0.25 U	ND<0.5 U	-0.25	2	276
ND<0.25 U	ND<0.5 U	-0.25	2	277
ND<0.25 U	ND<0.5 U	-0.25	2	278
ND<0.25 U	ND<0.5 U	-0.25	2	279
ND<0.25 U	ND<0.5 U	-0.25	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280
ND<0.5 U	ND<0.5 U	0	2	280

ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280

ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.25 U	ND<0.25 U	0	2	280
ND<0.5 U	ND<0.25 U	0.25	3	280
ND<0.5 U	ND<0.25 U	0.25	4	280
ND<0.5 U	ND<0.25 U	0.25	5	280
ND<0.5 U	ND<0.25 U	0.25	6	280
ND<0.5 U	ND<0.25 U	0.25	7	280
ND<0.5 U	ND<0.25 U	0.25	8	280
ND<0.5 U	ND<0.25 U	0.25	9	280
ND<0.5 U	ND<0.25 U	0.25	10	280
ND<0.5 U	ND<0.25 U	0.25	11	280
ND<0.5 U	ND<0.25 U	0.25	12	280
ND<0.5 U	ND<0.25 U	0.25	13	280
ND<0.5 U	ND<0.25 U	0.25	14	280
ND<0.5 U	ND<0.25 U	0.25	15	280
ND<0.5 U	ND<0.25 U	0.25	16	280
ND<0.5 U	ND<0.25 U	0.25	17	280
ND<0.5 U	ND<0.25 U	0.25	18	280
ND<0.5 U	ND<0.25 U	0.25	19	280
ND<0.5 U	ND<0.25 U	0.25	20	280
ND<0.5 U	ND<0.25 U	0.25	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280
ND<0.25 U	ND<0.25 U	0	21	280

ND<0.5 U	ND<0.25 U	0.25	22	280
ND<0.5 U	ND<0.25 U	0.25	23	280
ND<0.5 U	ND<0.25 U	0.25	24	280
ND<0.5 U	ND<0.25 U	0.25	25	280
ND<0.5 U	ND<0.25 U	0.25	26	280
ND<0.5 U	ND<0.25 U	0.25	27	280
ND<0.5 U	ND<0.25 U	0.25	28	280
ND<0.5 U	ND<0.25 U	0.25	29	280
ND<0.5 U	ND<0.25 U	0.25	30	280
ND<0.5 U	ND<0.25 U	0.25	31	280
ND<0.5 U	ND<0.25 U	0.25	32	280
ND<0.5 U	ND<0.25 U	0.25	33	280
ND<0.5 U	ND<0.25 U	0.25	34	280
ND<0.5 U	ND<0.25 U	0.25	35	280
ND<0.5 U	ND<0.25 U	0.25	36	280
ND<0.5 U	ND<0.25 U	0.25	37	280
ND<0.5 U	ND<0.25 U	0.25	38	280
ND<0.5 U	ND<0.25 U	0.25	39	280
ND<0.5 U	ND<0.25 U	0.25	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.25 U	ND<0.25 U	0	40	280
ND<0.5 U	ND<0.25 U	0.25	41	280
ND<0.5 U	ND<0.25 U	0.25	42	280
ND<0.5 U	ND<0.25 U	0.25	43	280
ND<0.5 U	ND<0.25 U	0.25	44	280
ND<0.5 U	ND<0.25 U	0.25	45	280
ND<0.5 U	ND<0.25 U	0.25	46	280
ND<0.5 U	ND<0.25 U	0.25	47	280
ND<0.5 U	ND<0.25 U	0.25	48	280
ND<0.5 U	ND<0.25 U	0.25	49	280
ND<0.5 U	ND<0.25 U	0.25	50	280
ND<0.5 U	ND<0.25 U	0.25	51	280
ND<0.5 U	ND<0.25 U	0.25	52	280
ND<0.5 U	ND<0.25 U	0.25	53	280
ND<0.5 U	ND<0.25 U	0.25	54	280
ND<0.5 U	ND<0.25 U	0.25	55	280
ND<0.5 U	ND<0.25 U	0.25	56	280
ND<0.5 U	ND<0.25 U	0.25	57	280
ND<0.5 U	ND<0.25 U	0.25	58	280
ND<0.5 U	ND<0.25 U	0.25	59	280

ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.25 U	ND<0.25 U	0	59	280
ND<0.5 U	ND<0.25 U	0.25	60	280
ND<0.5 U	ND<0.25 U	0.25	61	280
ND<0.5 U	ND<0.25 U	0.25	62	280
ND<0.5 U	ND<0.25 U	0.25	63	280
ND<0.5 U	ND<0.25 U	0.25	64	280
ND<0.5 U	ND<0.25 U	0.25	65	280
ND<0.5 U	ND<0.25 U	0.25	66	280
ND<0.5 U	ND<0.25 U	0.25	67	280
ND<0.5 U	ND<0.25 U	0.25	68	280
ND<0.5 U	ND<0.25 U	0.25	69	280
ND<0.5 U	ND<0.25 U	0.25	70	280
ND<0.5 U	ND<0.25 U	0.25	71	280
ND<0.5 U	ND<0.25 U	0.25	72	280
ND<0.5 U	ND<0.25 U	0.25	73	280
ND<0.5 U	ND<0.25 U	0.25	74	280
ND<0.5 U	ND<0.25 U	0.25	75	280
ND<0.5 U	ND<0.25 U	0.25	76	280
ND<0.5 U	ND<0.25 U	0.25	77	280
ND<0.5 U	ND<0.25 U	0.25	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.25 U	ND<0.25 U	0	78	280
ND<0.5 U	ND<0.25 U	0.25	79	280
ND<0.5 U	ND<0.25 U	0.25	80	280
ND<0.5 U	ND<0.25 U	0.25	81	280

ND<0.5 U	ND<0.25 U	0.25	82	280
ND<0.5 U	ND<0.25 U	0.25	83	280
ND<0.5 U	ND<0.25 U	0.25	84	280
ND<0.5 U	ND<0.25 U	0.25	85	280
ND<0.5 U	ND<0.25 U	0.25	86	280
ND<0.5 U	ND<0.25 U	0.25	87	280
ND<0.5 U	ND<0.25 U	0.25	88	280
ND<0.5 U	ND<0.25 U	0.25	89	280
ND<0.5 U	ND<0.25 U	0.25	90	280
ND<0.5 U	ND<0.25 U	0.25	91	280
ND<0.5 U	ND<0.25 U	0.25	92	280
ND<0.5 U	ND<0.25 U	0.25	93	280
ND<0.5 U	ND<0.25 U	0.25	94	280
ND<0.5 U	ND<0.25 U	0.25	95	280
ND<0.5 U	ND<0.25 U	0.25	96	280
ND<0.5 U	ND<0.25 U	0.25	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.25 U	ND<0.25 U	0	97	280
ND<0.5 U	ND<0.25 U	0.25	98	280
ND<0.5 U	ND<0.25 U	0.25	99	280
ND<0.5 U	ND<0.25 U	0.25	100	280
ND<0.5 U	ND<0.25 U	0.25	101	280
ND<0.5 U	ND<0.25 U	0.25	102	280
ND<0.5 U	ND<0.25 U	0.25	103	280
ND<0.5 U	ND<0.25 U	0.25	104	280
ND<0.5 U	ND<0.25 U	0.25	105	280
ND<0.5 U	ND<0.25 U	0.25	106	280
ND<0.5 U	ND<0.25 U	0.25	107	280
ND<0.5 U	ND<0.25 U	0.25	108	280
ND<0.5 U	ND<0.25 U	0.25	109	280
ND<0.5 U	ND<0.25 U	0.25	110	280
ND<0.5 U	ND<0.25 U	0.25	111	280
ND<0.5 U	ND<0.25 U	0.25	112	280
ND<0.5 U	ND<0.25 U	0.25	113	280
ND<0.5 U	ND<0.25 U	0.25	114	280
ND<0.5 U	ND<0.25 U	0.25	115	280
ND<0.5 U	ND<0.25 U	0.25	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280

ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.25 U	ND<0.25 U	0	116	280
ND<0.5 U	ND<0.25 U	0.25	117	280
ND<0.5 U	ND<0.25 U	0.25	118	280
ND<0.5 U	ND<0.25 U	0.25	119	280
ND<0.5 U	ND<0.25 U	0.25	120	280
ND<0.5 U	ND<0.25 U	0.25	121	280
ND<0.5 U	ND<0.25 U	0.25	122	280
ND<0.5 U	ND<0.25 U	0.25	123	280
ND<0.5 U	ND<0.25 U	0.25	124	280
ND<0.5 U	ND<0.25 U	0.25	125	280
ND<0.5 U	ND<0.25 U	0.25	126	280
ND<0.5 U	ND<0.25 U	0.25	127	280
ND<0.5 U	ND<0.25 U	0.25	128	280
ND<0.5 U	ND<0.25 U	0.25	129	280
ND<0.5 U	ND<0.25 U	0.25	130	280
ND<0.5 U	ND<0.25 U	0.25	131	280
ND<0.5 U	ND<0.25 U	0.25	132	280
ND<0.5 U	ND<0.25 U	0.25	133	280
ND<0.5 U	ND<0.25 U	0.25	134	280
ND<0.5 U	ND<0.25 U	0.25	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.25 U	ND<0.25 U	0	135	280
ND<0.5 U	ND<0.25 U	0.25	136	280
ND<0.5 U	ND<0.25 U	0.25	137	280
ND<0.5 U	ND<0.25 U	0.25	138	280
ND<0.5 U	ND<0.25 U	0.25	139	280
ND<0.5 U	ND<0.25 U	0.25	140	280
ND<0.5 U	ND<0.25 U	0.25	141	280
ND<0.5 U	ND<0.25 U	0.25	142	280
ND<0.5 U	ND<0.25 U	0.25	143	280
ND<0.5 U	ND<0.25 U	0.25	144	280
ND<0.5 U	ND<0.25 U	0.25	145	280
ND<0.5 U	ND<0.25 U	0.25	146	280
ND<0.5 U	ND<0.25 U	0.25	147	280
ND<0.5 U	ND<0.25 U	0.25	148	280
ND<0.5 U	ND<0.25 U	0.25	149	280
ND<0.5 U	ND<0.25 U	0.25	150	280

ND<0.5 U	ND<0.25 U	0.25	151	280
ND<0.5 U	ND<0.25 U	0.25	152	280
ND<0.5 U	ND<0.25 U	0.25	153	280
ND<0.5 U	ND<0.25 U	0.25	154	280

ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.25 U	ND<0.25 U	0	154	280
ND<0.5 U	ND<0.25 U	0.25	155	280
ND<0.5 U	ND<0.25 U	0.25	156	280
ND<0.5 U	ND<0.25 U	0.25	157	280
ND<0.5 U	ND<0.25 U	0.25	158	280
ND<0.5 U	ND<0.25 U	0.25	159	280
ND<0.5 U	ND<0.25 U	0.25	160	280
ND<0.5 U	ND<0.25 U	0.25	161	280
ND<0.5 U	ND<0.25 U	0.25	162	280
ND<0.5 U	ND<0.25 U	0.25	163	280
ND<0.5 U	ND<0.25 U	0.25	164	280
ND<0.5 U	ND<0.25 U	0.25	165	280
ND<0.5 U	ND<0.25 U	0.25	166	280
ND<0.5 U	ND<0.25 U	0.25	167	280
ND<0.5 U	ND<0.25 U	0.25	168	280
ND<0.5 U	ND<0.25 U	0.25	169	280
ND<0.5 U	ND<0.25 U	0.25	170	280
ND<0.5 U	ND<0.25 U	0.25	171	280
ND<0.5 U	ND<0.25 U	0.25	172	280
ND<0.5 U	ND<0.25 U	0.25	173	280

ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.25 U	ND<0.25 U	0	173	280
ND<0.5 U	ND<0.25 U	0.25	174	280
ND<0.5 U	ND<0.25 U	0.25	175	280
ND<0.5 U	ND<0.25 U	0.25	176	280
ND<0.5 U	ND<0.25 U	0.25	177	280
ND<0.5 U	ND<0.25 U	0.25	178	280
ND<0.5 U	ND<0.25 U	0.25	179	280
ND<0.5 U	ND<0.25 U	0.25	180	280
ND<0.5 U	ND<0.25 U	0.25	181	280
ND<0.5 U	ND<0.25 U	0.25	182	280

ND<0.5 U	ND<0.25 U	0.25	183	280
ND<0.5 U	ND<0.25 U	0.25	184	280
ND<0.5 U	ND<0.25 U	0.25	185	280
ND<0.5 U	ND<0.25 U	0.25	186	280
ND<0.5 U	ND<0.25 U	0.25	187	280
ND<0.5 U	ND<0.25 U	0.25	188	280
ND<0.5 U	ND<0.25 U	0.25	189	280
ND<0.5 U	ND<0.25 U	0.25	190	280
ND<0.5 U	ND<0.25 U	0.25	191	280
ND<0.5 U	ND<0.25 U	0.25	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.25 U	ND<0.25 U	0	192	280
ND<0.5 U	ND<0.25 U	0.25	193	280
ND<0.5 U	ND<0.25 U	0.25	194	280
ND<0.5 U	ND<0.25 U	0.25	195	280
ND<0.5 U	ND<0.25 U	0.25	196	280
ND<0.5 U	ND<0.25 U	0.25	197	280
ND<0.5 U	ND<0.25 U	0.25	198	280
ND<0.5 U	ND<0.25 U	0.25	199	280
ND<0.5 U	ND<0.25 U	0.25	200	280
ND<0.5 U	ND<0.25 U	0.25	201	280
ND<0.5 U	ND<0.25 U	0.25	202	280
ND<0.5 U	ND<0.25 U	0.25	203	280
ND<0.5 U	ND<0.25 U	0.25	204	280
ND<0.5 U	ND<0.25 U	0.25	205	280
ND<0.5 U	ND<0.25 U	0.25	206	280
ND<0.5 U	ND<0.25 U	0.25	207	280
ND<0.5 U	ND<0.25 U	0.25	208	280
ND<0.5 U	ND<0.25 U	0.25	209	280
ND<0.5 U	ND<0.25 U	0.25	210	280
ND<0.5 U	ND<0.25 U	0.25	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.25 U	ND<0.25 U	0	211	280
ND<0.5 U	ND<0.25 U	0.25	212	280
ND<0.5 U	ND<0.25 U	0.25	213	280
ND<0.5 U	ND<0.25 U	0.25	214	280
ND<0.5 U	ND<0.25 U	0.25	215	280
ND<0.5 U	ND<0.25 U	0.25	216	280
ND<0.5 U	ND<0.25 U	0.25	217	280
ND<0.5 U	ND<0.25 U	0.25	218	280

ND<0.5 U	ND<0.25 U	0.25	219	280
ND<0.5 U	ND<0.25 U	0.25	220	280
ND<0.5 U	ND<0.25 U	0.25	221	280
ND<0.5 U	ND<0.25 U	0.25	222	280
ND<0.5 U	ND<0.25 U	0.25	223	280
ND<0.5 U	ND<0.25 U	0.25	224	280
ND<0.5 U	ND<0.25 U	0.25	225	280
ND<0.5 U	ND<0.25 U	0.25	226	280
ND<0.5 U	ND<0.25 U	0.25	227	280
ND<0.5 U	ND<0.25 U	0.25	228	280
ND<0.5 U	ND<0.25 U	0.25	229	280
ND<0.5 U	ND<0.25 U	0.25	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.25 U	ND<0.25 U	0	230	280
ND<0.5 U	ND<0.25 U	0.25	231	280
ND<0.5 U	ND<0.25 U	0.25	232	280
ND<0.5 U	ND<0.25 U	0.25	233	280
ND<0.5 U	ND<0.25 U	0.25	234	280
ND<0.5 U	ND<0.25 U	0.25	235	280
ND<0.5 U	ND<0.25 U	0.25	236	280
ND<0.5 U	ND<0.25 U	0.25	237	280
ND<0.5 U	ND<0.25 U	0.25	238	280
ND<0.5 U	ND<0.25 U	0.25	239	280
ND<0.5 U	ND<0.25 U	0.25	240	280
ND<0.5 U	ND<0.25 U	0.25	241	280
ND<0.5 U	ND<0.25 U	0.25	242	280
ND<0.5 U	ND<0.25 U	0.25	243	280
ND<0.5 U	ND<0.25 U	0.25	244	280
ND<0.5 U	ND<0.25 U	0.25	245	280
ND<0.5 U	ND<0.25 U	0.25	246	280
ND<0.5 U	ND<0.25 U	0.25	247	280
ND<0.5 U	ND<0.25 U	0.25	248	280
ND<0.5 U	ND<0.25 U	0.25	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.25 U	ND<0.25 U	0	249	280
ND<0.5 U	ND<0.25 U	0.25	250	280
ND<0.5 U	ND<0.25 U	0.25	251	280
ND<0.5 U	ND<0.25 U	0.25	252	280
ND<0.5 U	ND<0.25 U	0.25	253	280
ND<0.5 U	ND<0.25 U	0.25	254	280
ND<0.5 U	ND<0.25 U	0.25	255	280
ND<0.5 U	ND<0.25 U	0.25	256	280
ND<0.5 U	ND<0.25 U	0.25	257	280
ND<0.5 U	ND<0.25 U	0.25	258	280

ND<0.5 U	ND<0.25 U	0.25	259	280
ND<0.5 U	ND<0.25 U	0.25	260	280
ND<0.5 U	ND<0.25 U	0.25	261	280
ND<0.5 U	ND<0.25 U	0.25	262	280
ND<0.5 U	ND<0.25 U	0.25	263	280
ND<0.5 U	ND<0.25 U	0.25	264	280
ND<0.5 U	ND<0.25 U	0.25	265	280
ND<0.5 U	ND<0.25 U	0.25	266	280
ND<0.5 U	ND<0.25 U	0.25	267	280
ND<0.5 U	ND<0.25 U	0.25	268	280
ND<0.25 U	ND<0.25 U	0	268	280
ND<0.25 U	ND<0.25 U	0	268	280
ND<0.25 U	ND<0.25 U	0	268	280
ND<0.25 U	ND<0.25 U	0	268	280
ND<0.25 U	ND<0.25 U	0	268	280
ND<0.25 U	ND<0.25 U	0	268	280
ND<0.5 U	ND<0.25 U	0.25	269	280
ND<0.5 U	ND<0.25 U	0.25	270	280
ND<0.5 U	ND<0.25 U	0.25	271	280
ND<0.5 U	ND<0.25 U	0.25	272	280
ND<0.5 U	ND<0.25 U	0.25	273	280
ND<0.5 U	ND<0.25 U	0.25	274	280
ND<0.5 U	ND<0.25 U	0.25	275	280
ND<0.5 U	ND<0.25 U	0.25	276	280
ND<0.5 U	ND<0.25 U	0.25	277	280
ND<0.5 U	ND<0.25 U	0.25	278	280
ND<0.5 U	ND<0.25 U	0.25	279	280
ND<0.5 U	ND<0.25 U	0.25	280	280
ND<0.5 U	ND<0.25 U	0.25	281	280
ND<0.5 U	ND<0.25 U	0.25	282	280
ND<0.5 U	ND<0.25 U	0.25	283	280
ND<0.5 U	ND<0.25 U	0.25	284	280
ND<0.5 U	ND<0.25 U	0.25	285	280
ND<0.5 U	ND<0.25 U	0.25	286	280
ND<0.5 U	ND<0.25 U	0.25	287	280
ND<0.25 U	ND<0.25 U	0	287	280
ND<0.25 U	ND<0.25 U	0	287	280
ND<0.25 U	ND<0.25 U	0	287	280
ND<0.25 U	ND<0.25 U	0	287	280
ND<0.25 U	ND<0.25 U	0	287	280
ND<0.5 U	ND<0.25 U	0.25	288	280
ND<0.5 U	ND<0.25 U	0.25	289	280
ND<0.5 U	ND<0.25 U	0.25	290	280
ND<0.5 U	ND<0.25 U	0.25	291	280
ND<0.5 U	ND<0.25 U	0.25	292	280
ND<0.5 U	ND<0.25 U	0.25	293	280
ND<0.5 U	ND<0.25 U	0.25	294	280
ND<0.5 U	ND<0.25 U	0.25	295	280
ND<0.5 U	ND<0.25 U	0.25	296	280
ND<0.5 U	ND<0.25 U	0.25	297	280
ND<0.5 U	ND<0.25 U	0.25	298	280
ND<0.5 U	ND<0.25 U	0.25	299	280
ND<0.5 U	ND<0.25 U	0.25	300	280
ND<0.5 U	ND<0.25 U	0.25	301	280
ND<0.5 U	ND<0.25 U	0.25	302	280

ND<0.5 U	ND<0.25 U	0.25	303	280
ND<0.5 U	ND<0.25 U	0.25	304	280
ND<0.5 U	ND<0.25 U	0.25	305	280
ND<0.5 U	ND<0.25 U	0.25	306	280
ND<0.25 U	ND<0.25 U	0	306	280
ND<0.25 U	ND<0.25 U	0	306	280
ND<0.25 U	ND<0.25 U	0	306	280
ND<0.25 U	ND<0.25 U	0	306	280
ND<0.5 U	ND<0.25 U	0.25	307	280
ND<0.5 U	ND<0.25 U	0.25	308	280
ND<0.5 U	ND<0.25 U	0.25	309	280
ND<0.5 U	ND<0.25 U	0.25	310	280
ND<0.5 U	ND<0.25 U	0.25	311	280
ND<0.5 U	ND<0.25 U	0.25	312	280
ND<0.5 U	ND<0.25 U	0.25	313	280
ND<0.5 U	ND<0.25 U	0.25	314	280
ND<0.5 U	ND<0.25 U	0.25	315	280
ND<0.5 U	ND<0.25 U	0.25	316	280
ND<0.5 U	ND<0.25 U	0.25	317	280
ND<0.5 U	ND<0.25 U	0.25	318	280
ND<0.5 U	ND<0.25 U	0.25	319	280
ND<0.5 U	ND<0.25 U	0.25	320	280
ND<0.5 U	ND<0.25 U	0.25	321	280
ND<0.5 U	ND<0.25 U	0.25	322	280
ND<0.5 U	ND<0.25 U	0.25	323	280
ND<0.5 U	ND<0.25 U	0.25	324	280
ND<0.5 U	ND<0.25 U	0.25	325	280
ND<0.25 U	ND<0.25 U	0	325	280
ND<0.25 U	ND<0.25 U	0	325	280
ND<0.25 U	ND<0.25 U	0	325	280
ND<0.5 U	ND<0.25 U	0.25	326	280
ND<0.5 U	ND<0.25 U	0.25	327	280
ND<0.5 U	ND<0.25 U	0.25	328	280
ND<0.5 U	ND<0.25 U	0.25	329	280
ND<0.5 U	ND<0.25 U	0.25	330	280
ND<0.5 U	ND<0.25 U	0.25	331	280
ND<0.5 U	ND<0.25 U	0.25	332	280
ND<0.5 U	ND<0.25 U	0.25	333	280
ND<0.5 U	ND<0.25 U	0.25	334	280
ND<0.5 U	ND<0.25 U	0.25	335	280
ND<0.5 U	ND<0.25 U	0.25	336	280
ND<0.5 U	ND<0.25 U	0.25	337	280
ND<0.5 U	ND<0.25 U	0.25	338	280
ND<0.5 U	ND<0.25 U	0.25	339	280
ND<0.5 U	ND<0.25 U	0.25	340	280
ND<0.5 U	ND<0.25 U	0.25	341	280
ND<0.5 U	ND<0.25 U	0.25	342	280
ND<0.5 U	ND<0.25 U	0.25	343	280
ND<0.5 U	ND<0.25 U	0.25	344	280
ND<0.25 U	ND<0.25 U	0	344	280
ND<0.25 U	ND<0.25 U	0	344	280
ND<0.5 U	ND<0.25 U	0.25	345	280
ND<0.5 U	ND<0.25 U	0.25	346	280
ND<0.5 U	ND<0.25 U	0.25	347	280

ND<0.5 U	ND<0.25 U	0.25	348	280
ND<0.5 U	ND<0.25 U	0.25	349	280
ND<0.5 U	ND<0.25 U	0.25	350	280
ND<0.5 U	ND<0.25 U	0.25	351	280
ND<0.5 U	ND<0.25 U	0.25	352	280
ND<0.5 U	ND<0.25 U	0.25	353	280
ND<0.5 U	ND<0.25 U	0.25	354	280
ND<0.5 U	ND<0.25 U	0.25	355	280
ND<0.5 U	ND<0.25 U	0.25	356	280
ND<0.5 U	ND<0.25 U	0.25	357	280
ND<0.5 U	ND<0.25 U	0.25	358	280
ND<0.5 U	ND<0.25 U	0.25	359	280
ND<0.5 U	ND<0.25 U	0.25	360	280
ND<0.5 U	ND<0.25 U	0.25	361	280
ND<0.5 U	ND<0.25 U	0.25	362	280
ND<0.5 U	ND<0.25 U	0.25	363	280

ND<0.25 U	ND<0.25 U	0	363	280
ND<0.5 U	ND<0.25 U	0.25	364	280
ND<0.5 U	ND<0.25 U	0.25	365	280
ND<0.5 U	ND<0.25 U	0.25	366	280
ND<0.5 U	ND<0.25 U	0.25	367	280
ND<0.5 U	ND<0.25 U	0.25	368	280
ND<0.5 U	ND<0.25 U	0.25	369	280
ND<0.5 U	ND<0.25 U	0.25	370	280
ND<0.5 U	ND<0.25 U	0.25	371	280
ND<0.5 U	ND<0.25 U	0.25	372	280
ND<0.5 U	ND<0.25 U	0.25	373	280
ND<0.5 U	ND<0.25 U	0.25	374	280
ND<0.5 U	ND<0.25 U	0.25	375	280
ND<0.5 U	ND<0.25 U	0.25	376	280
ND<0.5 U	ND<0.25 U	0.25	377	280
ND<0.5 U	ND<0.25 U	0.25	378	280
ND<0.5 U	ND<0.25 U	0.25	379	280
ND<0.5 U	ND<0.25 U	0.25	380	280
ND<0.5 U	ND<0.25 U	0.25	381	280
ND<0.5 U	ND<0.25 U	0.25	382	280

ND<0.5 U	ND<0.25 U	0.25	383	280
ND<0.5 U	ND<0.25 U	0.25	384	280
ND<0.5 U	ND<0.25 U	0.25	385	280
ND<0.5 U	ND<0.25 U	0.25	386	280
ND<0.5 U	ND<0.25 U	0.25	387	280
ND<0.5 U	ND<0.25 U	0.25	388	280
ND<0.5 U	ND<0.25 U	0.25	389	280
ND<0.5 U	ND<0.25 U	0.25	390	280
ND<0.5 U	ND<0.25 U	0.25	391	280
ND<0.5 U	ND<0.25 U	0.25	392	280
ND<0.5 U	ND<0.25 U	0.25	393	280
ND<0.5 U	ND<0.25 U	0.25	394	280
ND<0.5 U	ND<0.25 U	0.25	395	280
ND<0.5 U	ND<0.25 U	0.25	396	280
ND<0.5 U	ND<0.25 U	0.25	397	280
ND<0.5 U	ND<0.25 U	0.25	398	280
ND<0.5 U	ND<0.25 U	0.25	399	280
ND<0.5 U	ND<0.25 U	0.25	400	280
ND<0.5 U	ND<0.25 U	0.25	401	280

ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280

ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280

ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280

ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280
ND<0.5 U	ND<0.5 U	0	401	280

S Statistic = 401 - 280 = 121

Tied Group	**Value**	**Members**
1	0.5	30
2	0.25	21

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1

5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 76290
B = 0
C = 32340
D = 0
E = 1290
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 11821
Z-Score = 1.10371
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.10371| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
ND<0.25 U	ND<0.5 U	-0.25	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
ND<0.25 U	ND<0.5 U	-0.25	1	12
ND<0.25 U	ND<0.5 U	-0.25	1	13
ND<0.25 U	ND<0.5 U	-0.25	1	14
ND<0.25 U	ND<0.5 U	-0.25	1	15
ND<0.25 U	ND<0.5 U	-0.25	1	16
ND<0.25 U	ND<0.5 U	-0.25	1	17
ND<0.25 U	ND<0.5 U	-0.25	1	18
ND<0.25 U	ND<0.5 U	-0.25	1	19
ND<0.25 U	ND<0.5 U	-0.25	1	20
ND<0.25 U	ND<0.5 U	-0.25	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21

ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<1 U	ND<0.5 U	0.5	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.25 U	ND<0.5 U	-0.25	2	22
ND<0.25 U	ND<0.5 U	-0.25	2	23
ND<0.25 U	ND<0.5 U	-0.25	2	24
ND<0.25 U	ND<0.5 U	-0.25	2	25
ND<0.25 U	ND<0.5 U	-0.25	2	26
ND<0.25 U	ND<0.5 U	-0.25	2	27
ND<0.25 U	ND<0.5 U	-0.25	2	28
ND<0.25 U	ND<0.5 U	-0.25	2	29
ND<0.25 U	ND<0.5 U	-0.25	2	30
ND<0.25 U	ND<0.5 U	-0.25	2	31
ND<0.25 U	ND<0.5 U	-0.25	2	32
ND<0.25 U	ND<0.5 U	-0.25	2	33
ND<0.25 U	ND<0.5 U	-0.25	2	34
ND<0.25 U	ND<0.5 U	-0.25	2	35
ND<0.25 U	ND<0.5 U	-0.25	2	36
ND<0.25 U	ND<0.5 U	-0.25	2	37
ND<0.25 U	ND<0.5 U	-0.25	2	38
ND<0.25 U	ND<0.5 U	-0.25	2	39
ND<0.25 U	ND<0.5 U	-0.25	2	40
ND<0.25 U	ND<0.5 U	-0.25	2	41
ND<0.25 U	ND<0.5 U	-0.25	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42

ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<1 U	-0.5	2	43
ND<0.5 U	ND<1 U	-0.5	2	44
ND<0.5 U	ND<1 U	-0.5	2	45
ND<0.5 U	ND<1 U	-0.5	2	46
ND<0.5 U	ND<1 U	-0.5	2	47
ND<0.5 U	ND<1 U	-0.5	2	48
ND<0.5 U	ND<1 U	-0.5	2	49
ND<0.5 U	ND<1 U	-0.5	2	50
ND<0.5 U	ND<1 U	-0.5	2	51
ND<0.25 U	ND<1 U	-0.75	2	52
ND<0.25 U	ND<1 U	-0.75	2	53
ND<0.25 U	ND<1 U	-0.75	2	54
ND<0.25 U	ND<1 U	-0.75	2	55
ND<0.25 U	ND<1 U	-0.75	2	56
ND<0.25 U	ND<1 U	-0.75	2	57
ND<0.25 U	ND<1 U	-0.75	2	58
ND<0.25 U	ND<1 U	-0.75	2	59
ND<0.25 U	ND<1 U	-0.75	2	60
ND<0.25 U	ND<1 U	-0.75	2	61
ND<0.25 U	ND<1 U	-0.75	2	62
ND<0.25 U	ND<1 U	-0.75	2	63
ND<0.25 U	ND<1 U	-0.75	2	64
ND<0.25 U	ND<1 U	-0.75	2	65
ND<0.25 U	ND<1 U	-0.75	2	66
ND<0.25 U	ND<1 U	-0.75	2	67
ND<0.25 U	ND<1 U	-0.75	2	68
ND<0.25 U	ND<1 U	-0.75	2	69
ND<0.25 U	ND<1 U	-0.75	2	70
ND<0.25 U	ND<1 U	-0.75	2	71
ND<0.25 U	ND<1 U	-0.75	2	72
ND<0.5 U	ND<1 U	-0.5	2	73
ND<0.5 U	ND<1 U	-0.5	2	74

ND<0.5 U	ND<1 U	-0.5	2	75
ND<0.5 U	ND<1 U	-0.5	2	76
ND<0.5 U	ND<1 U	-0.5	2	77
ND<0.5 U	ND<1 U	-0.5	2	78
ND<0.5 U	ND<1 U	-0.5	2	79
ND<0.5 U	ND<1 U	-0.5	2	80
ND<0.5 U	ND<1 U	-0.5	2	81
ND<0.5 U	ND<1 U	-0.5	2	82
ND<0.5 U	ND<1 U	-0.5	2	83
ND<0.5 U	ND<1 U	-0.5	2	84
ND<0.5 U	ND<1 U	-0.5	2	85
ND<0.5 U	ND<1 U	-0.5	2	86
ND<0.5 U	ND<1 U	-0.5	2	87
ND<0.5 U	ND<1 U	-0.5	2	88
ND<0.5 U	ND<1 U	-0.5	2	89
ND<0.5 U	ND<1 U	-0.5	2	90
ND<0.5 U	ND<1 U	-0.5	2	91
ND<0.5 U	ND<1 U	-0.5	2	92
ND<0.5 U	ND<1 U	-0.5	2	93
ND<0.5 U	ND<1 U	-0.5	2	94
ND<0.5 U	ND<1 U	-0.5	2	95
ND<0.5 U	ND<1 U	-0.5	2	96
ND<0.5 U	ND<1 U	-0.5	2	97
ND<0.5 U	ND<1 U	-0.5	2	98
ND<0.5 U	ND<1 U	-0.5	2	99
ND<0.5 U	ND<1 U	-0.5	2	100
ND<0.5 U	ND<1 U	-0.5	2	101
ND<0.5 U	ND<1 U	-0.5	2	102
ND<0.5 U	ND<1 U	-0.5	2	103
ND<0.5 U	ND<1 U	-0.5	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.25 U	ND<0.5 U	-0.25	2	105
ND<0.25 U	ND<0.5 U	-0.25	2	106
ND<0.25 U	ND<0.5 U	-0.25	2	107
ND<0.25 U	ND<0.5 U	-0.25	2	108
ND<0.25 U	ND<0.5 U	-0.25	2	109
ND<0.25 U	ND<0.5 U	-0.25	2	110
ND<0.25 U	ND<0.5 U	-0.25	2	111
ND<0.25 U	ND<0.5 U	-0.25	2	112
ND<0.25 U	ND<0.5 U	-0.25	2	113
ND<0.25 U	ND<0.5 U	-0.25	2	114
ND<0.25 U	ND<0.5 U	-0.25	2	115
ND<0.25 U	ND<0.5 U	-0.25	2	116
ND<0.25 U	ND<0.5 U	-0.25	2	117
ND<0.25 U	ND<0.5 U	-0.25	2	118
ND<0.25 U	ND<0.5 U	-0.25	2	119
ND<0.25 U	ND<0.5 U	-0.25	2	120
ND<0.25 U	ND<0.5 U	-0.25	2	121
ND<0.25 U	ND<0.5 U	-0.25	2	122

ND<0.25 U	ND<0.5 U	-0.25	2	123
ND<0.25 U	ND<0.5 U	-0.25	2	124
ND<0.25 U	ND<0.5 U	-0.25	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.25 U	ND<0.5 U	-0.25	2	126
ND<0.25 U	ND<0.5 U	-0.25	2	127
ND<0.25 U	ND<0.5 U	-0.25	2	128
ND<0.25 U	ND<0.5 U	-0.25	2	129
ND<0.25 U	ND<0.5 U	-0.25	2	130
ND<0.25 U	ND<0.5 U	-0.25	2	131
ND<0.25 U	ND<0.5 U	-0.25	2	132
ND<0.25 U	ND<0.5 U	-0.25	2	133
ND<0.25 U	ND<0.5 U	-0.25	2	134
ND<0.25 U	ND<0.5 U	-0.25	2	135
ND<0.25 U	ND<0.5 U	-0.25	2	136
ND<0.25 U	ND<0.5 U	-0.25	2	137
ND<0.25 U	ND<0.5 U	-0.25	2	138
ND<0.25 U	ND<0.5 U	-0.25	2	139

ND<0.25 U	ND<0.5 U	-0.25	2	140
ND<0.25 U	ND<0.5 U	-0.25	2	141
ND<0.25 U	ND<0.5 U	-0.25	2	142
ND<0.25 U	ND<0.5 U	-0.25	2	143
ND<0.25 U	ND<0.5 U	-0.25	2	144
ND<0.25 U	ND<0.5 U	-0.25	2	145
ND<0.25 U	ND<0.5 U	-0.25	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.25 U	ND<0.5 U	-0.25	2	147
ND<0.25 U	ND<0.5 U	-0.25	2	148
ND<0.25 U	ND<0.5 U	-0.25	2	149
ND<0.25 U	ND<0.5 U	-0.25	2	150
ND<0.25 U	ND<0.5 U	-0.25	2	151
ND<0.25 U	ND<0.5 U	-0.25	2	152
ND<0.25 U	ND<0.5 U	-0.25	2	153
ND<0.25 U	ND<0.5 U	-0.25	2	154
ND<0.25 U	ND<0.5 U	-0.25	2	155
ND<0.25 U	ND<0.5 U	-0.25	2	156
ND<0.25 U	ND<0.5 U	-0.25	2	157

ND<0.25 U	ND<0.5 U	-0.25	2	158
ND<0.25 U	ND<0.5 U	-0.25	2	159
ND<0.25 U	ND<0.5 U	-0.25	2	160
ND<0.25 U	ND<0.5 U	-0.25	2	161
ND<0.25 U	ND<0.5 U	-0.25	2	162
ND<0.25 U	ND<0.5 U	-0.25	2	163
ND<0.25 U	ND<0.5 U	-0.25	2	164
ND<0.25 U	ND<0.5 U	-0.25	2	165
ND<0.25 U	ND<0.5 U	-0.25	2	166
ND<0.25 U	ND<0.5 U	-0.25	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167

ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.25 U	ND<0.5 U	-0.25	2	168
ND<0.25 U	ND<0.5 U	-0.25	2	169
ND<0.25 U	ND<0.5 U	-0.25	2	170
ND<0.25 U	ND<0.5 U	-0.25	2	171
ND<0.25 U	ND<0.5 U	-0.25	2	172
ND<0.25 U	ND<0.5 U	-0.25	2	173
ND<0.25 U	ND<0.5 U	-0.25	2	174
ND<0.25 U	ND<0.5 U	-0.25	2	175
ND<0.25 U	ND<0.5 U	-0.25	2	176

ND<0.25 U	ND<0.5 U	-0.25	2	177
ND<0.25 U	ND<0.5 U	-0.25	2	178
ND<0.25 U	ND<0.5 U	-0.25	2	179
ND<0.25 U	ND<0.5 U	-0.25	2	180
ND<0.25 U	ND<0.5 U	-0.25	2	181
ND<0.25 U	ND<0.5 U	-0.25	2	182
ND<0.25 U	ND<0.5 U	-0.25	2	183
ND<0.25 U	ND<0.5 U	-0.25	2	184
ND<0.25 U	ND<0.5 U	-0.25	2	185
ND<0.25 U	ND<0.5 U	-0.25	2	186
ND<0.25 U	ND<0.5 U	-0.25	2	187
ND<0.25 U	ND<0.5 U	-0.25	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.25 U	ND<0.5 U	-0.25	2	189
ND<0.25 U	ND<0.5 U	-0.25	2	190
ND<0.25 U	ND<0.5 U	-0.25	2	191
ND<0.25 U	ND<0.5 U	-0.25	2	192
ND<0.25 U	ND<0.5 U	-0.25	2	193
ND<0.25 U	ND<0.5 U	-0.25	2	194
ND<0.25 U	ND<0.5 U	-0.25	2	195
ND<0.25 U	ND<0.5 U	-0.25	2	196

ND<0.25 U	ND<0.5 U	-0.25	2	197
ND<0.25 U	ND<0.5 U	-0.25	2	198
ND<0.25 U	ND<0.5 U	-0.25	2	199
ND<0.25 U	ND<0.5 U	-0.25	2	200
ND<0.25 U	ND<0.5 U	-0.25	2	201
ND<0.25 U	ND<0.5 U	-0.25	2	202
ND<0.25 U	ND<0.5 U	-0.25	2	203
ND<0.25 U	ND<0.5 U	-0.25	2	204
ND<0.25 U	ND<0.5 U	-0.25	2	205
ND<0.25 U	ND<0.5 U	-0.25	2	206
ND<0.25 U	ND<0.5 U	-0.25	2	207
ND<0.25 U	ND<0.5 U	-0.25	2	208
ND<0.25 U	ND<0.5 U	-0.25	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.25 U	ND<0.5 U	-0.25	2	210
ND<0.25 U	ND<0.5 U	-0.25	2	211
ND<0.25 U	ND<0.5 U	-0.25	2	212
ND<0.25 U	ND<0.5 U	-0.25	2	213
ND<0.25 U	ND<0.5 U	-0.25	2	214
ND<0.25 U	ND<0.5 U	-0.25	2	215
ND<0.25 U	ND<0.5 U	-0.25	2	216
ND<0.25 U	ND<0.5 U	-0.25	2	217

ND<0.25 U	ND<0.5 U	-0.25	2	218
ND<0.25 U	ND<0.5 U	-0.25	2	219
ND<0.25 U	ND<0.5 U	-0.25	2	220
ND<0.25 U	ND<0.5 U	-0.25	2	221
ND<0.25 U	ND<0.5 U	-0.25	2	222
ND<0.25 U	ND<0.5 U	-0.25	2	223
ND<0.25 U	ND<0.5 U	-0.25	2	224
ND<0.25 U	ND<0.5 U	-0.25	2	225
ND<0.25 U	ND<0.5 U	-0.25	2	226
ND<0.25 U	ND<0.5 U	-0.25	2	227
ND<0.25 U	ND<0.5 U	-0.25	2	228
ND<0.25 U	ND<0.5 U	-0.25	2	229
ND<0.25 U	ND<0.5 U	-0.25	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.25 U	ND<0.5 U	-0.25	2	231
ND<0.25 U	ND<0.5 U	-0.25	2	232
ND<0.25 U	ND<0.5 U	-0.25	2	233
ND<0.25 U	ND<0.5 U	-0.25	2	234
ND<0.25 U	ND<0.5 U	-0.25	2	235
ND<0.25 U	ND<0.5 U	-0.25	2	236
ND<0.25 U	ND<0.5 U	-0.25	2	237
ND<0.25 U	ND<0.5 U	-0.25	2	238
ND<0.25 U	ND<0.5 U	-0.25	2	239

ND<0.25 U	ND<0.5 U	-0.25	2	240
ND<0.25 U	ND<0.5 U	-0.25	2	241
ND<0.25 U	ND<0.5 U	-0.25	2	242
ND<0.25 U	ND<0.5 U	-0.25	2	243
ND<0.25 U	ND<0.5 U	-0.25	2	244
ND<0.25 U	ND<0.5 U	-0.25	2	245
ND<0.25 U	ND<0.5 U	-0.25	2	246
ND<0.25 U	ND<0.5 U	-0.25	2	247
ND<0.25 U	ND<0.5 U	-0.25	2	248
ND<0.25 U	ND<0.5 U	-0.25	2	249
ND<0.25 U	ND<0.5 U	-0.25	2	250
ND<0.25 U	ND<0.5 U	-0.25	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251

ND<0.5 U	ND<0.5 U	0	2	251
ND<0.25 U	ND<0.5 U	-0.25	2	252
ND<0.25 U	ND<0.5 U	-0.25	2	253
ND<0.25 U	ND<0.5 U	-0.25	2	254
ND<0.25 U	ND<0.5 U	-0.25	2	255
ND<0.25 U	ND<0.5 U	-0.25	2	256
ND<0.25 U	ND<0.5 U	-0.25	2	257
ND<0.25 U	ND<0.5 U	-0.25	2	258
ND<0.25 U	ND<0.5 U	-0.25	2	259
ND<0.25 U	ND<0.5 U	-0.25	2	260
ND<0.25 U	ND<0.5 U	-0.25	2	261
ND<0.25 U	ND<0.5 U	-0.25	2	262

ND<0.25 U	ND<0.5 U	-0.25	2	263
ND<0.25 U	ND<0.5 U	-0.25	2	264
ND<0.25 U	ND<0.5 U	-0.25	2	265
ND<0.25 U	ND<0.5 U	-0.25	2	266
ND<0.25 U	ND<0.5 U	-0.25	2	267
ND<0.25 U	ND<0.5 U	-0.25	2	268
ND<0.25 U	ND<0.5 U	-0.25	2	269
ND<0.25 U	ND<0.5 U	-0.25	2	270
ND<0.25 U	ND<0.5 U	-0.25	2	271
ND<0.25 U	ND<0.5 U	-0.25	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.25 U	ND<0.5 U	-0.25	2	273
ND<0.25 U	ND<0.5 U	-0.25	2	274
ND<0.25 U	ND<0.5 U	-0.25	2	275
ND<0.25 U	ND<0.5 U	-0.25	2	276
ND<0.25 U	ND<0.5 U	-0.25	2	277
ND<0.25 U	ND<0.5 U	-0.25	2	278
ND<0.25 U	ND<0.5 U	-0.25	2	279
ND<0.25 U	ND<0.5 U	-0.25	2	280
ND<0.25 U	ND<0.5 U	-0.25	2	281
ND<0.25 U	ND<0.5 U	-0.25	2	282
ND<0.25 U	ND<0.5 U	-0.25	2	283
ND<0.25 U	ND<0.5 U	-0.25	2	284
ND<0.25 U	ND<0.5 U	-0.25	2	285
ND<0.25 U	ND<0.5 U	-0.25	2	286

ND<0.25 U	ND<0.5 U	-0.25	2	287
ND<0.25 U	ND<0.5 U	-0.25	2	288
ND<0.25 U	ND<0.5 U	-0.25	2	289
ND<0.25 U	ND<0.5 U	-0.25	2	290
ND<0.25 U	ND<0.5 U	-0.25	2	291
ND<0.25 U	ND<0.5 U	-0.25	2	292
ND<0.25 U	ND<0.5 U	-0.25	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293

ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293

ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.5 U	ND<0.25 U	0.25	3	293
ND<0.5 U	ND<0.25 U	0.25	4	293
ND<0.5 U	ND<0.25 U	0.25	5	293
ND<0.5 U	ND<0.25 U	0.25	6	293
ND<0.5 U	ND<0.25 U	0.25	7	293
ND<0.5 U	ND<0.25 U	0.25	8	293
ND<0.5 U	ND<0.25 U	0.25	9	293
ND<0.5 U	ND<0.25 U	0.25	10	293
ND<0.5 U	ND<0.25 U	0.25	11	293
ND<0.5 U	ND<0.25 U	0.25	12	293
ND<0.5 U	ND<0.25 U	0.25	13	293
ND<0.5 U	ND<0.25 U	0.25	14	293
ND<0.5 U	ND<0.25 U	0.25	15	293
ND<0.5 U	ND<0.25 U	0.25	16	293
ND<0.5 U	ND<0.25 U	0.25	17	293
ND<0.5 U	ND<0.25 U	0.25	18	293
ND<0.5 U	ND<0.25 U	0.25	19	293
ND<0.5 U	ND<0.25 U	0.25	20	293
ND<0.5 U	ND<0.25 U	0.25	21	293
ND<0.5 U	ND<0.25 U	0.25	22	293
ND<0.5 U	ND<0.25 U	0.25	23	293
ND<0.5 U	ND<0.25 U	0.25	24	293
ND<0.5 U	ND<0.25 U	0.25	25	293
ND<0.5 U	ND<0.25 U	0.25	26	293
ND<0.5 U	ND<0.25 U	0.25	27	293
ND<0.5 U	ND<0.25 U	0.25	28	293
ND<0.5 U	ND<0.25 U	0.25	29	293
ND<0.5 U	ND<0.25 U	0.25	30	293
ND<0.5 U	ND<0.25 U	0.25	31	293
ND<0.5 U	ND<0.25 U	0.25	32	293
ND<0.5 U	ND<0.25 U	0.25	33	293
ND<0.5 U	ND<0.25 U	0.25	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.5 U	ND<0.25 U	0.25	35	293
ND<0.5 U	ND<0.25 U	0.25	36	293

ND<0.5 U	ND<0.25 U	0.25	37	293
ND<0.5 U	ND<0.25 U	0.25	38	293
ND<0.5 U	ND<0.25 U	0.25	39	293
ND<0.5 U	ND<0.25 U	0.25	40	293
ND<0.5 U	ND<0.25 U	0.25	41	293
ND<0.5 U	ND<0.25 U	0.25	42	293
ND<0.5 U	ND<0.25 U	0.25	43	293
ND<0.5 U	ND<0.25 U	0.25	44	293
ND<0.5 U	ND<0.25 U	0.25	45	293
ND<0.5 U	ND<0.25 U	0.25	46	293
ND<0.5 U	ND<0.25 U	0.25	47	293
ND<0.5 U	ND<0.25 U	0.25	48	293
ND<0.5 U	ND<0.25 U	0.25	49	293
ND<0.5 U	ND<0.25 U	0.25	50	293
ND<0.5 U	ND<0.25 U	0.25	51	293
ND<0.5 U	ND<0.25 U	0.25	52	293
ND<0.5 U	ND<0.25 U	0.25	53	293
ND<0.5 U	ND<0.25 U	0.25	54	293
ND<0.5 U	ND<0.25 U	0.25	55	293
ND<0.5 U	ND<0.25 U	0.25	56	293
ND<0.5 U	ND<0.25 U	0.25	57	293
ND<0.5 U	ND<0.25 U	0.25	58	293
ND<0.5 U	ND<0.25 U	0.25	59	293
ND<0.5 U	ND<0.25 U	0.25	60	293
ND<0.5 U	ND<0.25 U	0.25	61	293
ND<0.5 U	ND<0.25 U	0.25	62	293
ND<0.5 U	ND<0.25 U	0.25	63	293
ND<0.5 U	ND<0.25 U	0.25	64	293
ND<0.5 U	ND<0.25 U	0.25	65	293
ND<0.5 U	ND<0.25 U	0.25	66	293

ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.5 U	ND<0.25 U	0.25	67	293
ND<0.5 U	ND<0.25 U	0.25	68	293
ND<0.5 U	ND<0.25 U	0.25	69	293
ND<0.5 U	ND<0.25 U	0.25	70	293
ND<0.5 U	ND<0.25 U	0.25	71	293
ND<0.5 U	ND<0.25 U	0.25	72	293
ND<0.5 U	ND<0.25 U	0.25	73	293
ND<0.5 U	ND<0.25 U	0.25	74	293

ND<0.5 U	ND<0.25 U	0.25	75	293
ND<0.5 U	ND<0.25 U	0.25	76	293
ND<0.5 U	ND<0.25 U	0.25	77	293
ND<0.5 U	ND<0.25 U	0.25	78	293
ND<0.5 U	ND<0.25 U	0.25	79	293
ND<0.5 U	ND<0.25 U	0.25	80	293
ND<0.5 U	ND<0.25 U	0.25	81	293
ND<0.5 U	ND<0.25 U	0.25	82	293
ND<0.5 U	ND<0.25 U	0.25	83	293
ND<0.5 U	ND<0.25 U	0.25	84	293
ND<0.5 U	ND<0.25 U	0.25	85	293
ND<0.5 U	ND<0.25 U	0.25	86	293
ND<0.5 U	ND<0.25 U	0.25	87	293
ND<0.5 U	ND<0.25 U	0.25	88	293
ND<0.5 U	ND<0.25 U	0.25	89	293
ND<0.5 U	ND<0.25 U	0.25	90	293
ND<0.5 U	ND<0.25 U	0.25	91	293
ND<0.5 U	ND<0.25 U	0.25	92	293
ND<0.5 U	ND<0.25 U	0.25	93	293
ND<0.5 U	ND<0.25 U	0.25	94	293
ND<0.5 U	ND<0.25 U	0.25	95	293
ND<0.5 U	ND<0.25 U	0.25	96	293
ND<0.5 U	ND<0.25 U	0.25	97	293
ND<0.5 U	ND<0.25 U	0.25	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.5 U	ND<0.25 U	0.25	99	293
ND<0.5 U	ND<0.25 U	0.25	100	293
ND<0.5 U	ND<0.25 U	0.25	101	293
ND<0.5 U	ND<0.25 U	0.25	102	293
ND<0.5 U	ND<0.25 U	0.25	103	293
ND<0.5 U	ND<0.25 U	0.25	104	293
ND<0.5 U	ND<0.25 U	0.25	105	293
ND<0.5 U	ND<0.25 U	0.25	106	293
ND<0.5 U	ND<0.25 U	0.25	107	293
ND<0.5 U	ND<0.25 U	0.25	108	293
ND<0.5 U	ND<0.25 U	0.25	109	293
ND<0.5 U	ND<0.25 U	0.25	110	293
ND<0.5 U	ND<0.25 U	0.25	111	293
ND<0.5 U	ND<0.25 U	0.25	112	293
ND<0.5 U	ND<0.25 U	0.25	113	293

ND<0.5 U	ND<0.25 U	0.25	114	293
ND<0.5 U	ND<0.25 U	0.25	115	293
ND<0.5 U	ND<0.25 U	0.25	116	293
ND<0.5 U	ND<0.25 U	0.25	117	293
ND<0.5 U	ND<0.25 U	0.25	118	293
ND<0.5 U	ND<0.25 U	0.25	119	293
ND<0.5 U	ND<0.25 U	0.25	120	293
ND<0.5 U	ND<0.25 U	0.25	121	293
ND<0.5 U	ND<0.25 U	0.25	122	293
ND<0.5 U	ND<0.25 U	0.25	123	293
ND<0.5 U	ND<0.25 U	0.25	124	293
ND<0.5 U	ND<0.25 U	0.25	125	293
ND<0.5 U	ND<0.25 U	0.25	126	293
ND<0.5 U	ND<0.25 U	0.25	127	293
ND<0.5 U	ND<0.25 U	0.25	128	293
ND<0.5 U	ND<0.25 U	0.25	129	293
ND<0.5 U	ND<0.25 U	0.25	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.5 U	ND<0.25 U	0.25	131	293
ND<0.5 U	ND<0.25 U	0.25	132	293
ND<0.5 U	ND<0.25 U	0.25	133	293
ND<0.5 U	ND<0.25 U	0.25	134	293
ND<0.5 U	ND<0.25 U	0.25	135	293
ND<0.5 U	ND<0.25 U	0.25	136	293
ND<0.5 U	ND<0.25 U	0.25	137	293
ND<0.5 U	ND<0.25 U	0.25	138	293
ND<0.5 U	ND<0.25 U	0.25	139	293
ND<0.5 U	ND<0.25 U	0.25	140	293
ND<0.5 U	ND<0.25 U	0.25	141	293
ND<0.5 U	ND<0.25 U	0.25	142	293
ND<0.5 U	ND<0.25 U	0.25	143	293
ND<0.5 U	ND<0.25 U	0.25	144	293
ND<0.5 U	ND<0.25 U	0.25	145	293
ND<0.5 U	ND<0.25 U	0.25	146	293
ND<0.5 U	ND<0.25 U	0.25	147	293
ND<0.5 U	ND<0.25 U	0.25	148	293
ND<0.5 U	ND<0.25 U	0.25	149	293
ND<0.5 U	ND<0.25 U	0.25	150	293
ND<0.5 U	ND<0.25 U	0.25	151	293
ND<0.5 U	ND<0.25 U	0.25	152	293
ND<0.5 U	ND<0.25 U	0.25	153	293

ND<0.5 U	ND<0.25 U	0.25	154	293
ND<0.5 U	ND<0.25 U	0.25	155	293
ND<0.5 U	ND<0.25 U	0.25	156	293
ND<0.5 U	ND<0.25 U	0.25	157	293
ND<0.5 U	ND<0.25 U	0.25	158	293
ND<0.5 U	ND<0.25 U	0.25	159	293
ND<0.5 U	ND<0.25 U	0.25	160	293
ND<0.5 U	ND<0.25 U	0.25	161	293
ND<0.5 U	ND<0.25 U	0.25	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.5 U	ND<0.25 U	0.25	163	293
ND<0.5 U	ND<0.25 U	0.25	164	293
ND<0.5 U	ND<0.25 U	0.25	165	293
ND<0.5 U	ND<0.25 U	0.25	166	293
ND<0.5 U	ND<0.25 U	0.25	167	293
ND<0.5 U	ND<0.25 U	0.25	168	293
ND<0.5 U	ND<0.25 U	0.25	169	293
ND<0.5 U	ND<0.25 U	0.25	170	293
ND<0.5 U	ND<0.25 U	0.25	171	293
ND<0.5 U	ND<0.25 U	0.25	172	293
ND<0.5 U	ND<0.25 U	0.25	173	293
ND<0.5 U	ND<0.25 U	0.25	174	293
ND<0.5 U	ND<0.25 U	0.25	175	293
ND<0.5 U	ND<0.25 U	0.25	176	293
ND<0.5 U	ND<0.25 U	0.25	177	293
ND<0.5 U	ND<0.25 U	0.25	178	293
ND<0.5 U	ND<0.25 U	0.25	179	293
ND<0.5 U	ND<0.25 U	0.25	180	293
ND<0.5 U	ND<0.25 U	0.25	181	293
ND<0.5 U	ND<0.25 U	0.25	182	293
ND<0.5 U	ND<0.25 U	0.25	183	293
ND<0.5 U	ND<0.25 U	0.25	184	293
ND<0.5 U	ND<0.25 U	0.25	185	293
ND<0.5 U	ND<0.25 U	0.25	186	293
ND<0.5 U	ND<0.25 U	0.25	187	293
ND<0.5 U	ND<0.25 U	0.25	188	293
ND<0.5 U	ND<0.25 U	0.25	189	293
ND<0.5 U	ND<0.25 U	0.25	190	293
ND<0.5 U	ND<0.25 U	0.25	191	293
ND<0.5 U	ND<0.25 U	0.25	192	293
ND<0.5 U	ND<0.25 U	0.25	193	293
ND<0.5 U	ND<0.25 U	0.25	194	293

ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.5 U	ND<0.25 U	0.25	195	293
ND<0.5 U	ND<0.25 U	0.25	196	293
ND<0.5 U	ND<0.25 U	0.25	197	293
ND<0.5 U	ND<0.25 U	0.25	198	293
ND<0.5 U	ND<0.25 U	0.25	199	293
ND<0.5 U	ND<0.25 U	0.25	200	293
ND<0.5 U	ND<0.25 U	0.25	201	293
ND<0.5 U	ND<0.25 U	0.25	202	293
ND<0.5 U	ND<0.25 U	0.25	203	293
ND<0.5 U	ND<0.25 U	0.25	204	293
ND<0.5 U	ND<0.25 U	0.25	205	293
ND<0.5 U	ND<0.25 U	0.25	206	293
ND<0.5 U	ND<0.25 U	0.25	207	293
ND<0.5 U	ND<0.25 U	0.25	208	293
ND<0.5 U	ND<0.25 U	0.25	209	293
ND<0.5 U	ND<0.25 U	0.25	210	293
ND<0.5 U	ND<0.25 U	0.25	211	293
ND<0.5 U	ND<0.25 U	0.25	212	293
ND<0.5 U	ND<0.25 U	0.25	213	293
ND<0.5 U	ND<0.25 U	0.25	214	293
ND<0.5 U	ND<0.25 U	0.25	215	293
ND<0.5 U	ND<0.25 U	0.25	216	293
ND<0.5 U	ND<0.25 U	0.25	217	293
ND<0.5 U	ND<0.25 U	0.25	218	293
ND<0.5 U	ND<0.25 U	0.25	219	293
ND<0.5 U	ND<0.25 U	0.25	220	293
ND<0.5 U	ND<0.25 U	0.25	221	293
ND<0.5 U	ND<0.25 U	0.25	222	293
ND<0.5 U	ND<0.25 U	0.25	223	293
ND<0.5 U	ND<0.25 U	0.25	224	293
ND<0.5 U	ND<0.25 U	0.25	225	293
ND<0.5 U	ND<0.25 U	0.25	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293

ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.5 U	ND<0.25 U	0.25	227	293
ND<0.5 U	ND<0.25 U	0.25	228	293
ND<0.5 U	ND<0.25 U	0.25	229	293
ND<0.5 U	ND<0.25 U	0.25	230	293
ND<0.5 U	ND<0.25 U	0.25	231	293
ND<0.5 U	ND<0.25 U	0.25	232	293
ND<0.5 U	ND<0.25 U	0.25	233	293
ND<0.5 U	ND<0.25 U	0.25	234	293
ND<0.5 U	ND<0.25 U	0.25	235	293
ND<0.5 U	ND<0.25 U	0.25	236	293
ND<0.5 U	ND<0.25 U	0.25	237	293
ND<0.5 U	ND<0.25 U	0.25	238	293
ND<0.5 U	ND<0.25 U	0.25	239	293
ND<0.5 U	ND<0.25 U	0.25	240	293
ND<0.5 U	ND<0.25 U	0.25	241	293
ND<0.5 U	ND<0.25 U	0.25	242	293
ND<0.5 U	ND<0.25 U	0.25	243	293
ND<0.5 U	ND<0.25 U	0.25	244	293
ND<0.5 U	ND<0.25 U	0.25	245	293
ND<0.5 U	ND<0.25 U	0.25	246	293
ND<0.5 U	ND<0.25 U	0.25	247	293
ND<0.5 U	ND<0.25 U	0.25	248	293
ND<0.5 U	ND<0.25 U	0.25	249	293
ND<0.5 U	ND<0.25 U	0.25	250	293
ND<0.5 U	ND<0.25 U	0.25	251	293
ND<0.5 U	ND<0.25 U	0.25	252	293
ND<0.5 U	ND<0.25 U	0.25	253	293
ND<0.5 U	ND<0.25 U	0.25	254	293
ND<0.5 U	ND<0.25 U	0.25	255	293
ND<0.5 U	ND<0.25 U	0.25	256	293
ND<0.5 U	ND<0.25 U	0.25	257	293
ND<0.5 U	ND<0.25 U	0.25	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.5 U	ND<0.25 U	0.25	259	293
ND<0.5 U	ND<0.25 U	0.25	260	293
ND<0.5 U	ND<0.25 U	0.25	261	293
ND<0.5 U	ND<0.25 U	0.25	262	293
ND<0.5 U	ND<0.25 U	0.25	263	293
ND<0.5 U	ND<0.25 U	0.25	264	293
ND<0.5 U	ND<0.25 U	0.25	265	293
ND<0.5 U	ND<0.25 U	0.25	266	293

ND<0.5 U	ND<0.25 U	0.25	267	293
ND<0.5 U	ND<0.25 U	0.25	268	293
ND<0.5 U	ND<0.25 U	0.25	269	293
ND<0.5 U	ND<0.25 U	0.25	270	293
ND<0.5 U	ND<0.25 U	0.25	271	293
ND<0.5 U	ND<0.25 U	0.25	272	293
ND<0.5 U	ND<0.25 U	0.25	273	293
ND<0.5 U	ND<0.25 U	0.25	274	293
ND<0.5 U	ND<0.25 U	0.25	275	293
ND<0.5 U	ND<0.25 U	0.25	276	293
ND<0.5 U	ND<0.25 U	0.25	277	293
ND<0.5 U	ND<0.25 U	0.25	278	293
ND<0.5 U	ND<0.25 U	0.25	279	293
ND<0.5 U	ND<0.25 U	0.25	280	293
ND<0.5 U	ND<0.25 U	0.25	281	293
ND<0.5 U	ND<0.25 U	0.25	282	293
ND<0.5 U	ND<0.25 U	0.25	283	293
ND<0.5 U	ND<0.25 U	0.25	284	293
ND<0.5 U	ND<0.25 U	0.25	285	293
ND<0.5 U	ND<0.25 U	0.25	286	293
ND<0.5 U	ND<0.25 U	0.25	287	293
ND<0.5 U	ND<0.25 U	0.25	288	293
ND<0.5 U	ND<0.25 U	0.25	289	293
ND<0.5 U	ND<0.25 U	0.25	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.5 U	ND<0.25 U	0.25	291	293
ND<0.5 U	ND<0.25 U	0.25	292	293
ND<0.5 U	ND<0.25 U	0.25	293	293
ND<0.5 U	ND<0.25 U	0.25	294	293
ND<0.5 U	ND<0.25 U	0.25	295	293
ND<0.5 U	ND<0.25 U	0.25	296	293
ND<0.5 U	ND<0.25 U	0.25	297	293
ND<0.5 U	ND<0.25 U	0.25	298	293
ND<0.5 U	ND<0.25 U	0.25	299	293
ND<0.5 U	ND<0.25 U	0.25	300	293
ND<0.5 U	ND<0.25 U	0.25	301	293
ND<0.5 U	ND<0.25 U	0.25	302	293
ND<0.5 U	ND<0.25 U	0.25	303	293
ND<0.5 U	ND<0.25 U	0.25	304	293
ND<0.5 U	ND<0.25 U	0.25	305	293
ND<0.5 U	ND<0.25 U	0.25	306	293
ND<0.5 U	ND<0.25 U	0.25	307	293
ND<0.5 U	ND<0.25 U	0.25	308	293
ND<0.5 U	ND<0.25 U	0.25	309	293
ND<0.5 U	ND<0.25 U	0.25	310	293
ND<0.5 U	ND<0.25 U	0.25	311	293

ND<0.5 U	ND<0.25 U	0.25	312	293
ND<0.5 U	ND<0.25 U	0.25	313	293
ND<0.5 U	ND<0.25 U	0.25	314	293
ND<0.5 U	ND<0.25 U	0.25	315	293
ND<0.5 U	ND<0.25 U	0.25	316	293
ND<0.5 U	ND<0.25 U	0.25	317	293
ND<0.5 U	ND<0.25 U	0.25	318	293
ND<0.5 U	ND<0.25 U	0.25	319	293
ND<0.5 U	ND<0.25 U	0.25	320	293
ND<0.5 U	ND<0.25 U	0.25	321	293
ND<0.5 U	ND<0.25 U	0.25	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.5 U	ND<0.25 U	0.25	323	293
ND<0.5 U	ND<0.25 U	0.25	324	293
ND<0.5 U	ND<0.25 U	0.25	325	293
ND<0.5 U	ND<0.25 U	0.25	326	293
ND<0.5 U	ND<0.25 U	0.25	327	293
ND<0.5 U	ND<0.25 U	0.25	328	293
ND<0.5 U	ND<0.25 U	0.25	329	293
ND<0.5 U	ND<0.25 U	0.25	330	293
ND<0.5 U	ND<0.25 U	0.25	331	293
ND<0.5 U	ND<0.25 U	0.25	332	293
ND<0.5 U	ND<0.25 U	0.25	333	293
ND<0.5 U	ND<0.25 U	0.25	334	293
ND<0.5 U	ND<0.25 U	0.25	335	293
ND<0.5 U	ND<0.25 U	0.25	336	293
ND<0.5 U	ND<0.25 U	0.25	337	293
ND<0.5 U	ND<0.25 U	0.25	338	293
ND<0.5 U	ND<0.25 U	0.25	339	293
ND<0.5 U	ND<0.25 U	0.25	340	293
ND<0.5 U	ND<0.25 U	0.25	341	293
ND<0.5 U	ND<0.25 U	0.25	342	293
ND<0.5 U	ND<0.25 U	0.25	343	293
ND<0.5 U	ND<0.25 U	0.25	344	293
ND<0.5 U	ND<0.25 U	0.25	345	293
ND<0.5 U	ND<0.25 U	0.25	346	293
ND<0.5 U	ND<0.25 U	0.25	347	293
ND<0.5 U	ND<0.25 U	0.25	348	293
ND<0.5 U	ND<0.25 U	0.25	349	293
ND<0.5 U	ND<0.25 U	0.25	350	293
ND<0.5 U	ND<0.25 U	0.25	351	293
ND<0.5 U	ND<0.25 U	0.25	352	293
ND<0.5 U	ND<0.25 U	0.25	353	293
ND<0.5 U	ND<0.25 U	0.25	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293

ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.5 U	ND<0.25 U	0.25	355	293
ND<0.5 U	ND<0.25 U	0.25	356	293
ND<0.5 U	ND<0.25 U	0.25	357	293
ND<0.5 U	ND<0.25 U	0.25	358	293
ND<0.5 U	ND<0.25 U	0.25	359	293
ND<0.5 U	ND<0.25 U	0.25	360	293
ND<0.5 U	ND<0.25 U	0.25	361	293
ND<0.5 U	ND<0.25 U	0.25	362	293
ND<0.5 U	ND<0.25 U	0.25	363	293
ND<0.5 U	ND<0.25 U	0.25	364	293
ND<0.5 U	ND<0.25 U	0.25	365	293
ND<0.5 U	ND<0.25 U	0.25	366	293
ND<0.5 U	ND<0.25 U	0.25	367	293
ND<0.5 U	ND<0.25 U	0.25	368	293
ND<0.5 U	ND<0.25 U	0.25	369	293
ND<0.5 U	ND<0.25 U	0.25	370	293
ND<0.5 U	ND<0.25 U	0.25	371	293
ND<0.5 U	ND<0.25 U	0.25	372	293
ND<0.5 U	ND<0.25 U	0.25	373	293
ND<0.5 U	ND<0.25 U	0.25	374	293
ND<0.5 U	ND<0.25 U	0.25	375	293
ND<0.5 U	ND<0.25 U	0.25	376	293
ND<0.5 U	ND<0.25 U	0.25	377	293
ND<0.5 U	ND<0.25 U	0.25	378	293
ND<0.5 U	ND<0.25 U	0.25	379	293
ND<0.5 U	ND<0.25 U	0.25	380	293
ND<0.5 U	ND<0.25 U	0.25	381	293
ND<0.5 U	ND<0.25 U	0.25	382	293
ND<0.5 U	ND<0.25 U	0.25	383	293
ND<0.5 U	ND<0.25 U	0.25	384	293
ND<0.5 U	ND<0.25 U	0.25	385	293
ND<0.5 U	ND<0.25 U	0.25	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.5 U	ND<0.25 U	0.25	387	293
ND<0.5 U	ND<0.25 U	0.25	388	293
ND<0.5 U	ND<0.25 U	0.25	389	293
ND<0.5 U	ND<0.25 U	0.25	390	293
ND<0.5 U	ND<0.25 U	0.25	391	293
ND<0.5 U	ND<0.25 U	0.25	392	293
ND<0.5 U	ND<0.25 U	0.25	393	293
ND<0.5 U	ND<0.25 U	0.25	394	293
ND<0.5 U	ND<0.25 U	0.25	395	293

ND<0.5 U	ND<0.25 U	0.25	396	293
ND<0.5 U	ND<0.25 U	0.25	397	293
ND<0.5 U	ND<0.25 U	0.25	398	293
ND<0.5 U	ND<0.25 U	0.25	399	293
ND<0.5 U	ND<0.25 U	0.25	400	293
ND<0.5 U	ND<0.25 U	0.25	401	293
ND<0.5 U	ND<0.25 U	0.25	402	293
ND<0.5 U	ND<0.25 U	0.25	403	293
ND<0.5 U	ND<0.25 U	0.25	404	293
ND<0.5 U	ND<0.25 U	0.25	405	293
ND<0.5 U	ND<0.25 U	0.25	406	293
ND<0.5 U	ND<0.25 U	0.25	407	293
ND<0.5 U	ND<0.25 U	0.25	408	293
ND<0.5 U	ND<0.25 U	0.25	409	293
ND<0.5 U	ND<0.25 U	0.25	410	293
ND<0.5 U	ND<0.25 U	0.25	411	293
ND<0.5 U	ND<0.25 U	0.25	412	293
ND<0.5 U	ND<0.25 U	0.25	413	293
ND<0.5 U	ND<0.25 U	0.25	414	293
ND<0.5 U	ND<0.25 U	0.25	415	293
ND<0.5 U	ND<0.25 U	0.25	416	293
ND<0.5 U	ND<0.25 U	0.25	417	293
ND<0.5 U	ND<0.25 U	0.25	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.5 U	ND<0.25 U	0.25	419	293
ND<0.5 U	ND<0.25 U	0.25	420	293
ND<0.5 U	ND<0.25 U	0.25	421	293
ND<0.5 U	ND<0.25 U	0.25	422	293
ND<0.5 U	ND<0.25 U	0.25	423	293
ND<0.5 U	ND<0.25 U	0.25	424	293
ND<0.5 U	ND<0.25 U	0.25	425	293
ND<0.5 U	ND<0.25 U	0.25	426	293
ND<0.5 U	ND<0.25 U	0.25	427	293
ND<0.5 U	ND<0.25 U	0.25	428	293
ND<0.5 U	ND<0.25 U	0.25	429	293
ND<0.5 U	ND<0.25 U	0.25	430	293
ND<0.5 U	ND<0.25 U	0.25	431	293
ND<0.5 U	ND<0.25 U	0.25	432	293
ND<0.5 U	ND<0.25 U	0.25	433	293
ND<0.5 U	ND<0.25 U	0.25	434	293
ND<0.5 U	ND<0.25 U	0.25	435	293
ND<0.5 U	ND<0.25 U	0.25	436	293
ND<0.5 U	ND<0.25 U	0.25	437	293
ND<0.5 U	ND<0.25 U	0.25	438	293
ND<0.5 U	ND<0.25 U	0.25	439	293
ND<0.5 U	ND<0.25 U	0.25	440	293
ND<0.5 U	ND<0.25 U	0.25	441	293
ND<0.5 U	ND<0.25 U	0.25	442	293
ND<0.5 U	ND<0.25 U	0.25	443	293
ND<0.5 U	ND<0.25 U	0.25	444	293

ND<0.5 U	ND<0.25 U	0.25	445	293
ND<0.5 U	ND<0.25 U	0.25	446	293
ND<0.5 U	ND<0.25 U	0.25	447	293
ND<0.5 U	ND<0.25 U	0.25	448	293
ND<0.5 U	ND<0.25 U	0.25	449	293
ND<0.5 U	ND<0.25 U	0.25	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.5 U	ND<0.25 U	0.25	451	293
ND<0.5 U	ND<0.25 U	0.25	452	293
ND<0.5 U	ND<0.25 U	0.25	453	293
ND<0.5 U	ND<0.25 U	0.25	454	293
ND<0.5 U	ND<0.25 U	0.25	455	293
ND<0.5 U	ND<0.25 U	0.25	456	293
ND<0.5 U	ND<0.25 U	0.25	457	293
ND<0.5 U	ND<0.25 U	0.25	458	293
ND<0.5 U	ND<0.25 U	0.25	459	293
ND<0.5 U	ND<0.25 U	0.25	460	293
ND<0.5 U	ND<0.25 U	0.25	461	293
ND<0.5 U	ND<0.25 U	0.25	462	293
ND<0.5 U	ND<0.25 U	0.25	463	293
ND<0.5 U	ND<0.25 U	0.25	464	293
ND<0.5 U	ND<0.25 U	0.25	465	293
ND<0.5 U	ND<0.25 U	0.25	466	293
ND<0.5 U	ND<0.25 U	0.25	467	293
ND<0.5 U	ND<0.25 U	0.25	468	293
ND<0.5 U	ND<0.25 U	0.25	469	293
ND<0.5 U	ND<0.25 U	0.25	470	293
ND<0.5 U	ND<0.25 U	0.25	471	293
ND<0.5 U	ND<0.25 U	0.25	472	293
ND<0.5 U	ND<0.25 U	0.25	473	293
ND<0.5 U	ND<0.25 U	0.25	474	293
ND<0.5 U	ND<0.25 U	0.25	475	293
ND<0.5 U	ND<0.25 U	0.25	476	293
ND<0.5 U	ND<0.25 U	0.25	477	293
ND<0.5 U	ND<0.25 U	0.25	478	293
ND<0.5 U	ND<0.25 U	0.25	479	293
ND<0.5 U	ND<0.25 U	0.25	480	293
ND<0.5 U	ND<0.25 U	0.25	481	293
ND<0.5 U	ND<0.25 U	0.25	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.5 U	ND<0.25 U	0.25	483	293
ND<0.5 U	ND<0.25 U	0.25	484	293
ND<0.5 U	ND<0.25 U	0.25	485	293
ND<0.5 U	ND<0.25 U	0.25	486	293
ND<0.5 U	ND<0.25 U	0.25	487	293
ND<0.5 U	ND<0.25 U	0.25	488	293

ND<0.5 U	ND<0.25 U	0.25	489	293
ND<0.5 U	ND<0.25 U	0.25	490	293
ND<0.5 U	ND<0.25 U	0.25	491	293
ND<0.5 U	ND<0.25 U	0.25	492	293
ND<0.5 U	ND<0.25 U	0.25	493	293
ND<0.5 U	ND<0.25 U	0.25	494	293
ND<0.5 U	ND<0.25 U	0.25	495	293
ND<0.5 U	ND<0.25 U	0.25	496	293
ND<0.5 U	ND<0.25 U	0.25	497	293
ND<0.5 U	ND<0.25 U	0.25	498	293
ND<0.5 U	ND<0.25 U	0.25	499	293
ND<0.5 U	ND<0.25 U	0.25	500	293
ND<0.5 U	ND<0.25 U	0.25	501	293
ND<0.5 U	ND<0.25 U	0.25	502	293
ND<0.5 U	ND<0.25 U	0.25	503	293
ND<0.5 U	ND<0.25 U	0.25	504	293
ND<0.5 U	ND<0.25 U	0.25	505	293
ND<0.5 U	ND<0.25 U	0.25	506	293
ND<0.5 U	ND<0.25 U	0.25	507	293
ND<0.5 U	ND<0.25 U	0.25	508	293
ND<0.5 U	ND<0.25 U	0.25	509	293
ND<0.5 U	ND<0.25 U	0.25	510	293
ND<0.5 U	ND<0.25 U	0.25	511	293
ND<0.5 U	ND<0.25 U	0.25	512	293
ND<0.5 U	ND<0.25 U	0.25	513	293
ND<0.5 U	ND<0.25 U	0.25	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.5 U	ND<0.25 U	0.25	515	293
ND<0.5 U	ND<0.25 U	0.25	516	293
ND<0.5 U	ND<0.25 U	0.25	517	293
ND<0.5 U	ND<0.25 U	0.25	518	293
ND<0.5 U	ND<0.25 U	0.25	519	293
ND<0.5 U	ND<0.25 U	0.25	520	293
ND<0.5 U	ND<0.25 U	0.25	521	293
ND<0.5 U	ND<0.25 U	0.25	522	293
ND<0.5 U	ND<0.25 U	0.25	523	293
ND<0.5 U	ND<0.25 U	0.25	524	293
ND<0.5 U	ND<0.25 U	0.25	525	293
ND<0.5 U	ND<0.25 U	0.25	526	293
ND<0.5 U	ND<0.25 U	0.25	527	293
ND<0.5 U	ND<0.25 U	0.25	528	293
ND<0.5 U	ND<0.25 U	0.25	529	293
ND<0.5 U	ND<0.25 U	0.25	530	293
ND<0.5 U	ND<0.25 U	0.25	531	293
ND<0.5 U	ND<0.25 U	0.25	532	293
ND<0.5 U	ND<0.25 U	0.25	533	293
ND<0.5 U	ND<0.25 U	0.25	534	293
ND<0.5 U	ND<0.25 U	0.25	535	293
ND<0.5 U	ND<0.25 U	0.25	536	293
ND<0.5 U	ND<0.25 U	0.25	537	293
ND<0.5 U	ND<0.25 U	0.25	538	293
ND<0.5 U	ND<0.25 U	0.25	539	293
ND<0.5 U	ND<0.25 U	0.25	540	293

ND<0.5 U	ND<0.25 U	0.25	541	293
ND<0.5 U	ND<0.25 U	0.25	542	293
ND<0.5 U	ND<0.25 U	0.25	543	293
ND<0.5 U	ND<0.25 U	0.25	544	293
ND<0.5 U	ND<0.25 U	0.25	545	293
ND<0.5 U	ND<0.25 U	0.25	546	293
ND<0.25 U	ND<0.25 U	0	546	293
ND<0.25 U	ND<0.25 U	0	546	293
ND<0.25 U	ND<0.25 U	0	546	293
ND<0.5 U	ND<0.25 U	0.25	547	293
ND<0.5 U	ND<0.25 U	0.25	548	293
ND<0.5 U	ND<0.25 U	0.25	549	293
ND<0.5 U	ND<0.25 U	0.25	550	293
ND<0.5 U	ND<0.25 U	0.25	551	293
ND<0.5 U	ND<0.25 U	0.25	552	293
ND<0.5 U	ND<0.25 U	0.25	553	293
ND<0.5 U	ND<0.25 U	0.25	554	293
ND<0.5 U	ND<0.25 U	0.25	555	293
ND<0.5 U	ND<0.25 U	0.25	556	293
ND<0.5 U	ND<0.25 U	0.25	557	293
ND<0.5 U	ND<0.25 U	0.25	558	293
ND<0.5 U	ND<0.25 U	0.25	559	293
ND<0.5 U	ND<0.25 U	0.25	560	293
ND<0.5 U	ND<0.25 U	0.25	561	293
ND<0.5 U	ND<0.25 U	0.25	562	293
ND<0.5 U	ND<0.25 U	0.25	563	293
ND<0.5 U	ND<0.25 U	0.25	564	293
ND<0.5 U	ND<0.25 U	0.25	565	293
ND<0.5 U	ND<0.25 U	0.25	566	293
ND<0.5 U	ND<0.25 U	0.25	567	293
ND<0.5 U	ND<0.25 U	0.25	568	293
ND<0.5 U	ND<0.25 U	0.25	569	293
ND<0.5 U	ND<0.25 U	0.25	570	293
ND<0.5 U	ND<0.25 U	0.25	571	293
ND<0.5 U	ND<0.25 U	0.25	572	293
ND<0.5 U	ND<0.25 U	0.25	573	293
ND<0.5 U	ND<0.25 U	0.25	574	293
ND<0.5 U	ND<0.25 U	0.25	575	293
ND<0.5 U	ND<0.25 U	0.25	576	293
ND<0.5 U	ND<0.25 U	0.25	577	293
ND<0.5 U	ND<0.25 U	0.25	578	293
ND<0.25 U	ND<0.25 U	0	578	293
ND<0.25 U	ND<0.25 U	0	578	293
ND<0.5 U	ND<0.25 U	0.25	579	293
ND<0.5 U	ND<0.25 U	0.25	580	293
ND<0.5 U	ND<0.25 U	0.25	581	293
ND<0.5 U	ND<0.25 U	0.25	582	293
ND<0.5 U	ND<0.25 U	0.25	583	293
ND<0.5 U	ND<0.25 U	0.25	584	293
ND<0.5 U	ND<0.25 U	0.25	585	293
ND<0.5 U	ND<0.25 U	0.25	586	293
ND<0.5 U	ND<0.25 U	0.25	587	293
ND<0.5 U	ND<0.25 U	0.25	588	293
ND<0.5 U	ND<0.25 U	0.25	589	293
ND<0.5 U	ND<0.25 U	0.25	590	293

ND<0.5 U	ND<0.25 U	0.25	591	293
ND<0.5 U	ND<0.25 U	0.25	592	293
ND<0.5 U	ND<0.25 U	0.25	593	293
ND<0.5 U	ND<0.25 U	0.25	594	293
ND<0.5 U	ND<0.25 U	0.25	595	293
ND<0.5 U	ND<0.25 U	0.25	596	293
ND<0.5 U	ND<0.25 U	0.25	597	293
ND<0.5 U	ND<0.25 U	0.25	598	293
ND<0.5 U	ND<0.25 U	0.25	599	293
ND<0.5 U	ND<0.25 U	0.25	600	293
ND<0.5 U	ND<0.25 U	0.25	601	293
ND<0.5 U	ND<0.25 U	0.25	602	293
ND<0.5 U	ND<0.25 U	0.25	603	293
ND<0.5 U	ND<0.25 U	0.25	604	293
ND<0.5 U	ND<0.25 U	0.25	605	293
ND<0.5 U	ND<0.25 U	0.25	606	293
ND<0.5 U	ND<0.25 U	0.25	607	293
ND<0.5 U	ND<0.25 U	0.25	608	293
ND<0.5 U	ND<0.25 U	0.25	609	293
ND<0.5 U	ND<0.25 U	0.25	610	293
ND<0.25 U	ND<0.25 U	0	610	293
ND<0.5 U	ND<0.25 U	0.25	611	293
ND<0.5 U	ND<0.25 U	0.25	612	293
ND<0.5 U	ND<0.25 U	0.25	613	293
ND<0.5 U	ND<0.25 U	0.25	614	293
ND<0.5 U	ND<0.25 U	0.25	615	293
ND<0.5 U	ND<0.25 U	0.25	616	293
ND<0.5 U	ND<0.25 U	0.25	617	293
ND<0.5 U	ND<0.25 U	0.25	618	293
ND<0.5 U	ND<0.25 U	0.25	619	293
ND<0.5 U	ND<0.25 U	0.25	620	293
ND<0.5 U	ND<0.25 U	0.25	621	293
ND<0.5 U	ND<0.25 U	0.25	622	293
ND<0.5 U	ND<0.25 U	0.25	623	293
ND<0.5 U	ND<0.25 U	0.25	624	293
ND<0.5 U	ND<0.25 U	0.25	625	293
ND<0.5 U	ND<0.25 U	0.25	626	293
ND<0.5 U	ND<0.25 U	0.25	627	293
ND<0.5 U	ND<0.25 U	0.25	628	293
ND<0.5 U	ND<0.25 U	0.25	629	293
ND<0.5 U	ND<0.25 U	0.25	630	293
ND<0.5 U	ND<0.25 U	0.25	631	293
ND<0.5 U	ND<0.25 U	0.25	632	293
ND<0.5 U	ND<0.25 U	0.25	633	293
ND<0.5 U	ND<0.25 U	0.25	634	293
ND<0.5 U	ND<0.25 U	0.25	635	293
ND<0.5 U	ND<0.25 U	0.25	636	293
ND<0.5 U	ND<0.25 U	0.25	637	293
ND<0.5 U	ND<0.25 U	0.25	638	293
ND<0.5 U	ND<0.25 U	0.25	639	293
ND<0.5 U	ND<0.25 U	0.25	640	293
ND<0.5 U	ND<0.25 U	0.25	641	293
ND<0.5 U	ND<0.25 U	0.25	642	293
ND<0.5 U	ND<0.25 U	0.25	643	293
ND<0.5 U	ND<0.25 U	0.25	644	293

ND<0.5 U	ND<0.25 U	0.25	645	293
ND<0.5 U	ND<0.25 U	0.25	646	293
ND<0.5 U	ND<0.25 U	0.25	647	293
ND<0.5 U	ND<0.25 U	0.25	648	293
ND<0.5 U	ND<0.25 U	0.25	649	293
ND<0.5 U	ND<0.25 U	0.25	650	293
ND<0.5 U	ND<0.25 U	0.25	651	293
ND<0.5 U	ND<0.25 U	0.25	652	293
ND<0.5 U	ND<0.25 U	0.25	653	293
ND<0.5 U	ND<0.25 U	0.25	654	293
ND<0.5 U	ND<0.25 U	0.25	655	293
ND<0.5 U	ND<0.25 U	0.25	656	293
ND<0.5 U	ND<0.25 U	0.25	657	293
ND<0.5 U	ND<0.25 U	0.25	658	293
ND<0.5 U	ND<0.25 U	0.25	659	293
ND<0.5 U	ND<0.25 U	0.25	660	293
ND<0.5 U	ND<0.25 U	0.25	661	293
ND<0.5 U	ND<0.25 U	0.25	662	293
ND<0.5 U	ND<0.25 U	0.25	663	293
ND<0.5 U	ND<0.25 U	0.25	664	293
ND<0.5 U	ND<0.25 U	0.25	665	293
ND<0.5 U	ND<0.25 U	0.25	666	293
ND<0.5 U	ND<0.25 U	0.25	667	293
ND<0.5 U	ND<0.25 U	0.25	668	293
ND<0.5 U	ND<0.25 U	0.25	669	293
ND<0.5 U	ND<0.25 U	0.25	670	293
ND<0.5 U	ND<0.25 U	0.25	671	293
ND<0.5 U	ND<0.25 U	0.25	672	293
ND<0.5 U	ND<0.25 U	0.25	673	293
ND<0.5 U	ND<0.25 U	0.25	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

S Statistic = 674 - 293 = 381

Tied Group	**Value**	**Members**
1	0.5	43
2	0.25	21

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1

4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1

```
10/29/2018                      1
1/30/2019                       1
4/29/2019                       1
7/29/2019                       1
There are 0 time periods with multiple data
```

```
A = 184086
B = 0
C = 82026
D = 0
E = 2226
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 20973
Z-Score = 2.62394
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.62394| > 2.32634 indicating a trend
```

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<1 U	ND<0.5 U	0.5	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.5 U	ND<0.5 U	0	1	0
ND<0.25 U	ND<0.5 U	-0.25	1	1
ND<0.25 U	ND<0.5 U	-0.25	1	2
ND<0.25 U	ND<0.5 U	-0.25	1	3
ND<0.25 U	ND<0.5 U	-0.25	1	4
ND<0.25 U	ND<0.5 U	-0.25	1	5
ND<0.25 U	ND<0.5 U	-0.25	1	6
ND<0.25 U	ND<0.5 U	-0.25	1	7
ND<0.25 U	ND<0.5 U	-0.25	1	8
ND<0.25 U	ND<0.5 U	-0.25	1	9
ND<0.25 U	ND<0.5 U	-0.25	1	10
ND<0.25 U	ND<0.5 U	-0.25	1	11
ND<0.25 U	ND<0.5 U	-0.25	1	12
ND<0.25 U	ND<0.5 U	-0.25	1	13
ND<0.25 U	ND<0.5 U	-0.25	1	14
ND<0.25 U	ND<0.5 U	-0.25	1	15
ND<0.25 U	ND<0.5 U	-0.25	1	16
ND<0.25 U	ND<0.5 U	-0.25	1	17
ND<0.25 U	ND<0.5 U	-0.25	1	18
ND<0.25 U	ND<0.5 U	-0.25	1	19
ND<0.25 U	ND<0.5 U	-0.25	1	20
ND<0.25 U	ND<0.5 U	-0.25	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21

ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<0.5 U	ND<0.5 U	0	1	21
ND<1 U	ND<0.5 U	0.5	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.5 U	ND<0.5 U	0	2	21
ND<0.25 U	ND<0.5 U	-0.25	2	22
ND<0.25 U	ND<0.5 U	-0.25	2	23
ND<0.25 U	ND<0.5 U	-0.25	2	24
ND<0.25 U	ND<0.5 U	-0.25	2	25
ND<0.25 U	ND<0.5 U	-0.25	2	26
ND<0.25 U	ND<0.5 U	-0.25	2	27
ND<0.25 U	ND<0.5 U	-0.25	2	28
ND<0.25 U	ND<0.5 U	-0.25	2	29
ND<0.25 U	ND<0.5 U	-0.25	2	30
ND<0.25 U	ND<0.5 U	-0.25	2	31
ND<0.25 U	ND<0.5 U	-0.25	2	32
ND<0.25 U	ND<0.5 U	-0.25	2	33
ND<0.25 U	ND<0.5 U	-0.25	2	34
ND<0.25 U	ND<0.5 U	-0.25	2	35
ND<0.25 U	ND<0.5 U	-0.25	2	36
ND<0.25 U	ND<0.5 U	-0.25	2	37
ND<0.25 U	ND<0.5 U	-0.25	2	38
ND<0.25 U	ND<0.5 U	-0.25	2	39
ND<0.25 U	ND<0.5 U	-0.25	2	40
ND<0.25 U	ND<0.5 U	-0.25	2	41
ND<0.25 U	ND<0.5 U	-0.25	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42

ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<0.5 U	0	2	42
ND<0.5 U	ND<1 U	-0.5	2	43
ND<0.5 U	ND<1 U	-0.5	2	44
ND<0.5 U	ND<1 U	-0.5	2	45
ND<0.5 U	ND<1 U	-0.5	2	46
ND<0.5 U	ND<1 U	-0.5	2	47
ND<0.5 U	ND<1 U	-0.5	2	48
ND<0.5 U	ND<1 U	-0.5	2	49
ND<0.5 U	ND<1 U	-0.5	2	50
ND<0.5 U	ND<1 U	-0.5	2	51
ND<0.25 U	ND<1 U	-0.75	2	52
ND<0.25 U	ND<1 U	-0.75	2	53
ND<0.25 U	ND<1 U	-0.75	2	54
ND<0.25 U	ND<1 U	-0.75	2	55
ND<0.25 U	ND<1 U	-0.75	2	56
ND<0.25 U	ND<1 U	-0.75	2	57
ND<0.25 U	ND<1 U	-0.75	2	58
ND<0.25 U	ND<1 U	-0.75	2	59
ND<0.25 U	ND<1 U	-0.75	2	60
ND<0.25 U	ND<1 U	-0.75	2	61
ND<0.25 U	ND<1 U	-0.75	2	62
ND<0.25 U	ND<1 U	-0.75	2	63
ND<0.25 U	ND<1 U	-0.75	2	64
ND<0.25 U	ND<1 U	-0.75	2	65
ND<0.25 U	ND<1 U	-0.75	2	66
ND<0.25 U	ND<1 U	-0.75	2	67
ND<0.25 U	ND<1 U	-0.75	2	68
ND<0.25 U	ND<1 U	-0.75	2	69
ND<0.25 U	ND<1 U	-0.75	2	70
ND<0.25 U	ND<1 U	-0.75	2	71
ND<0.25 U	ND<1 U	-0.75	2	72
ND<0.5 U	ND<1 U	-0.5	2	73
ND<0.5 U	ND<1 U	-0.5	2	74

ND<0.5 U	ND<1 U	-0.5	2	75
ND<0.5 U	ND<1 U	-0.5	2	76
ND<0.5 U	ND<1 U	-0.5	2	77
ND<0.5 U	ND<1 U	-0.5	2	78
ND<0.5 U	ND<1 U	-0.5	2	79
ND<0.5 U	ND<1 U	-0.5	2	80
ND<0.5 U	ND<1 U	-0.5	2	81
ND<0.5 U	ND<1 U	-0.5	2	82
ND<0.5 U	ND<1 U	-0.5	2	83
ND<0.5 U	ND<1 U	-0.5	2	84
ND<0.5 U	ND<1 U	-0.5	2	85
ND<0.5 U	ND<1 U	-0.5	2	86
ND<0.5 U	ND<1 U	-0.5	2	87
ND<0.5 U	ND<1 U	-0.5	2	88
ND<0.5 U	ND<1 U	-0.5	2	89
ND<0.5 U	ND<1 U	-0.5	2	90
ND<0.5 U	ND<1 U	-0.5	2	91
ND<0.5 U	ND<1 U	-0.5	2	92
ND<0.5 U	ND<1 U	-0.5	2	93
ND<0.5 U	ND<1 U	-0.5	2	94
ND<0.5 U	ND<1 U	-0.5	2	95
ND<0.5 U	ND<1 U	-0.5	2	96
ND<0.5 U	ND<1 U	-0.5	2	97
ND<0.5 U	ND<1 U	-0.5	2	98
ND<0.5 U	ND<1 U	-0.5	2	99
ND<0.5 U	ND<1 U	-0.5	2	100
ND<0.5 U	ND<1 U	-0.5	2	101
ND<0.5 U	ND<1 U	-0.5	2	102
ND<0.5 U	ND<1 U	-0.5	2	103
ND<0.5 U	ND<1 U	-0.5	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.5 U	ND<0.5 U	0	2	104
ND<0.25 U	ND<0.5 U	-0.25	2	105
ND<0.25 U	ND<0.5 U	-0.25	2	106
ND<0.25 U	ND<0.5 U	-0.25	2	107
ND<0.25 U	ND<0.5 U	-0.25	2	108
ND<0.25 U	ND<0.5 U	-0.25	2	109
ND<0.25 U	ND<0.5 U	-0.25	2	110
ND<0.25 U	ND<0.5 U	-0.25	2	111
ND<0.25 U	ND<0.5 U	-0.25	2	112
ND<0.25 U	ND<0.5 U	-0.25	2	113
ND<0.25 U	ND<0.5 U	-0.25	2	114
ND<0.25 U	ND<0.5 U	-0.25	2	115
ND<0.25 U	ND<0.5 U	-0.25	2	116
ND<0.25 U	ND<0.5 U	-0.25	2	117
ND<0.25 U	ND<0.5 U	-0.25	2	118
ND<0.25 U	ND<0.5 U	-0.25	2	119
ND<0.25 U	ND<0.5 U	-0.25	2	120
ND<0.25 U	ND<0.5 U	-0.25	2	121
ND<0.25 U	ND<0.5 U	-0.25	2	122

ND<0.25 U	ND<0.5 U	-0.25	2	123
ND<0.25 U	ND<0.5 U	-0.25	2	124
ND<0.25 U	ND<0.5 U	-0.25	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.5 U	ND<0.5 U	0	2	125
ND<0.25 U	ND<0.5 U	-0.25	2	126
ND<0.25 U	ND<0.5 U	-0.25	2	127
ND<0.25 U	ND<0.5 U	-0.25	2	128
ND<0.25 U	ND<0.5 U	-0.25	2	129
ND<0.25 U	ND<0.5 U	-0.25	2	130
ND<0.25 U	ND<0.5 U	-0.25	2	131
ND<0.25 U	ND<0.5 U	-0.25	2	132
ND<0.25 U	ND<0.5 U	-0.25	2	133
ND<0.25 U	ND<0.5 U	-0.25	2	134
ND<0.25 U	ND<0.5 U	-0.25	2	135
ND<0.25 U	ND<0.5 U	-0.25	2	136
ND<0.25 U	ND<0.5 U	-0.25	2	137
ND<0.25 U	ND<0.5 U	-0.25	2	138
ND<0.25 U	ND<0.5 U	-0.25	2	139

ND<0.25 U	ND<0.5 U	-0.25	2	140
ND<0.25 U	ND<0.5 U	-0.25	2	141
ND<0.25 U	ND<0.5 U	-0.25	2	142
ND<0.25 U	ND<0.5 U	-0.25	2	143
ND<0.25 U	ND<0.5 U	-0.25	2	144
ND<0.25 U	ND<0.5 U	-0.25	2	145
ND<0.25 U	ND<0.5 U	-0.25	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.5 U	ND<0.5 U	0	2	146
ND<0.25 U	ND<0.5 U	-0.25	2	147
ND<0.25 U	ND<0.5 U	-0.25	2	148
ND<0.25 U	ND<0.5 U	-0.25	2	149
ND<0.25 U	ND<0.5 U	-0.25	2	150
ND<0.25 U	ND<0.5 U	-0.25	2	151
ND<0.25 U	ND<0.5 U	-0.25	2	152
ND<0.25 U	ND<0.5 U	-0.25	2	153
ND<0.25 U	ND<0.5 U	-0.25	2	154
ND<0.25 U	ND<0.5 U	-0.25	2	155
ND<0.25 U	ND<0.5 U	-0.25	2	156
ND<0.25 U	ND<0.5 U	-0.25	2	157

ND<0.25 U	ND<0.5 U	-0.25	2	158
ND<0.25 U	ND<0.5 U	-0.25	2	159
ND<0.25 U	ND<0.5 U	-0.25	2	160
ND<0.25 U	ND<0.5 U	-0.25	2	161
ND<0.25 U	ND<0.5 U	-0.25	2	162
ND<0.25 U	ND<0.5 U	-0.25	2	163
ND<0.25 U	ND<0.5 U	-0.25	2	164
ND<0.25 U	ND<0.5 U	-0.25	2	165
ND<0.25 U	ND<0.5 U	-0.25	2	166
ND<0.25 U	ND<0.5 U	-0.25	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167

ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.5 U	ND<0.5 U	0	2	167
ND<0.25 U	ND<0.5 U	-0.25	2	168
ND<0.25 U	ND<0.5 U	-0.25	2	169
ND<0.25 U	ND<0.5 U	-0.25	2	170
ND<0.25 U	ND<0.5 U	-0.25	2	171
ND<0.25 U	ND<0.5 U	-0.25	2	172
ND<0.25 U	ND<0.5 U	-0.25	2	173
ND<0.25 U	ND<0.5 U	-0.25	2	174
ND<0.25 U	ND<0.5 U	-0.25	2	175
ND<0.25 U	ND<0.5 U	-0.25	2	176

ND<0.25 U	ND<0.5 U	-0.25	2	177
ND<0.25 U	ND<0.5 U	-0.25	2	178
ND<0.25 U	ND<0.5 U	-0.25	2	179
ND<0.25 U	ND<0.5 U	-0.25	2	180
ND<0.25 U	ND<0.5 U	-0.25	2	181
ND<0.25 U	ND<0.5 U	-0.25	2	182
ND<0.25 U	ND<0.5 U	-0.25	2	183
ND<0.25 U	ND<0.5 U	-0.25	2	184
ND<0.25 U	ND<0.5 U	-0.25	2	185
ND<0.25 U	ND<0.5 U	-0.25	2	186
ND<0.25 U	ND<0.5 U	-0.25	2	187
ND<0.25 U	ND<0.5 U	-0.25	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.5 U	ND<0.5 U	0	2	188
ND<0.25 U	ND<0.5 U	-0.25	2	189
ND<0.25 U	ND<0.5 U	-0.25	2	190
ND<0.25 U	ND<0.5 U	-0.25	2	191
ND<0.25 U	ND<0.5 U	-0.25	2	192
ND<0.25 U	ND<0.5 U	-0.25	2	193
ND<0.25 U	ND<0.5 U	-0.25	2	194
ND<0.25 U	ND<0.5 U	-0.25	2	195
ND<0.25 U	ND<0.5 U	-0.25	2	196

ND<0.25 U	ND<0.5 U	-0.25	2	197
ND<0.25 U	ND<0.5 U	-0.25	2	198
ND<0.25 U	ND<0.5 U	-0.25	2	199
ND<0.25 U	ND<0.5 U	-0.25	2	200
ND<0.25 U	ND<0.5 U	-0.25	2	201
ND<0.25 U	ND<0.5 U	-0.25	2	202
ND<0.25 U	ND<0.5 U	-0.25	2	203
ND<0.25 U	ND<0.5 U	-0.25	2	204
ND<0.25 U	ND<0.5 U	-0.25	2	205
ND<0.25 U	ND<0.5 U	-0.25	2	206
ND<0.25 U	ND<0.5 U	-0.25	2	207
ND<0.25 U	ND<0.5 U	-0.25	2	208
ND<0.25 U	ND<0.5 U	-0.25	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.5 U	ND<0.5 U	0	2	209
ND<0.25 U	ND<0.5 U	-0.25	2	210
ND<0.25 U	ND<0.5 U	-0.25	2	211
ND<0.25 U	ND<0.5 U	-0.25	2	212
ND<0.25 U	ND<0.5 U	-0.25	2	213
ND<0.25 U	ND<0.5 U	-0.25	2	214
ND<0.25 U	ND<0.5 U	-0.25	2	215
ND<0.25 U	ND<0.5 U	-0.25	2	216
ND<0.25 U	ND<0.5 U	-0.25	2	217

ND<0.25 U	ND<0.5 U	-0.25	2	218
ND<0.25 U	ND<0.5 U	-0.25	2	219
ND<0.25 U	ND<0.5 U	-0.25	2	220
ND<0.25 U	ND<0.5 U	-0.25	2	221
ND<0.25 U	ND<0.5 U	-0.25	2	222
ND<0.25 U	ND<0.5 U	-0.25	2	223
ND<0.25 U	ND<0.5 U	-0.25	2	224
ND<0.25 U	ND<0.5 U	-0.25	2	225
ND<0.25 U	ND<0.5 U	-0.25	2	226
ND<0.25 U	ND<0.5 U	-0.25	2	227
ND<0.25 U	ND<0.5 U	-0.25	2	228
ND<0.25 U	ND<0.5 U	-0.25	2	229
ND<0.25 U	ND<0.5 U	-0.25	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.5 U	ND<0.5 U	0	2	230
ND<0.25 U	ND<0.5 U	-0.25	2	231
ND<0.25 U	ND<0.5 U	-0.25	2	232
ND<0.25 U	ND<0.5 U	-0.25	2	233
ND<0.25 U	ND<0.5 U	-0.25	2	234
ND<0.25 U	ND<0.5 U	-0.25	2	235
ND<0.25 U	ND<0.5 U	-0.25	2	236
ND<0.25 U	ND<0.5 U	-0.25	2	237
ND<0.25 U	ND<0.5 U	-0.25	2	238
ND<0.25 U	ND<0.5 U	-0.25	2	239

ND<0.25 U	ND<0.5 U	-0.25	2	240
ND<0.25 U	ND<0.5 U	-0.25	2	241
ND<0.25 U	ND<0.5 U	-0.25	2	242
ND<0.25 U	ND<0.5 U	-0.25	2	243
ND<0.25 U	ND<0.5 U	-0.25	2	244
ND<0.25 U	ND<0.5 U	-0.25	2	245
ND<0.25 U	ND<0.5 U	-0.25	2	246
ND<0.25 U	ND<0.5 U	-0.25	2	247
ND<0.25 U	ND<0.5 U	-0.25	2	248
ND<0.25 U	ND<0.5 U	-0.25	2	249
ND<0.25 U	ND<0.5 U	-0.25	2	250
ND<0.25 U	ND<0.5 U	-0.25	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.5 U	ND<0.5 U	0	2	251
ND<0.25 U	ND<0.5 U	-0.25	2	252
ND<0.25 U	ND<0.5 U	-0.25	2	253
ND<0.25 U	ND<0.5 U	-0.25	2	254
ND<0.25 U	ND<0.5 U	-0.25	2	255
ND<0.25 U	ND<0.5 U	-0.25	2	256
ND<0.25 U	ND<0.5 U	-0.25	2	257
ND<0.25 U	ND<0.5 U	-0.25	2	258
ND<0.25 U	ND<0.5 U	-0.25	2	259
ND<0.25 U	ND<0.5 U	-0.25	2	260
ND<0.25 U	ND<0.5 U	-0.25	2	261
ND<0.25 U	ND<0.5 U	-0.25	2	262

ND<0.25 U	ND<0.5 U	-0.25	2	263
ND<0.25 U	ND<0.5 U	-0.25	2	264
ND<0.25 U	ND<0.5 U	-0.25	2	265
ND<0.25 U	ND<0.5 U	-0.25	2	266
ND<0.25 U	ND<0.5 U	-0.25	2	267
ND<0.25 U	ND<0.5 U	-0.25	2	268
ND<0.25 U	ND<0.5 U	-0.25	2	269
ND<0.25 U	ND<0.5 U	-0.25	2	270
ND<0.25 U	ND<0.5 U	-0.25	2	271
ND<0.25 U	ND<0.5 U	-0.25	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272
ND<0.5 U	ND<0.5 U	0	2	272

ND<0.25 U	ND<0.5 U	-0.25	2	273
ND<0.25 U	ND<0.5 U	-0.25	2	274
ND<0.25 U	ND<0.5 U	-0.25	2	275
ND<0.25 U	ND<0.5 U	-0.25	2	276
ND<0.25 U	ND<0.5 U	-0.25	2	277
ND<0.25 U	ND<0.5 U	-0.25	2	278
ND<0.25 U	ND<0.5 U	-0.25	2	279
ND<0.25 U	ND<0.5 U	-0.25	2	280
ND<0.25 U	ND<0.5 U	-0.25	2	281
ND<0.25 U	ND<0.5 U	-0.25	2	282
ND<0.25 U	ND<0.5 U	-0.25	2	283
ND<0.25 U	ND<0.5 U	-0.25	2	284
ND<0.25 U	ND<0.5 U	-0.25	2	285
ND<0.25 U	ND<0.5 U	-0.25	2	286

ND<0.25 U	ND<0.5 U	-0.25	2	287
ND<0.25 U	ND<0.5 U	-0.25	2	288
ND<0.25 U	ND<0.5 U	-0.25	2	289
ND<0.25 U	ND<0.5 U	-0.25	2	290
ND<0.25 U	ND<0.5 U	-0.25	2	291
ND<0.25 U	ND<0.5 U	-0.25	2	292
ND<0.25 U	ND<0.5 U	-0.25	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.5 U	ND<0.5 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293

ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.25 U	ND<0.25 U	0	2	293
ND<0.5 U	ND<0.25 U	0.25	3	293
ND<0.5 U	ND<0.25 U	0.25	4	293
ND<0.5 U	ND<0.25 U	0.25	5	293
ND<0.5 U	ND<0.25 U	0.25	6	293
ND<0.5 U	ND<0.25 U	0.25	7	293
ND<0.5 U	ND<0.25 U	0.25	8	293
ND<0.5 U	ND<0.25 U	0.25	9	293
ND<0.5 U	ND<0.25 U	0.25	10	293
ND<0.5 U	ND<0.25 U	0.25	11	293
ND<0.5 U	ND<0.25 U	0.25	12	293
ND<0.5 U	ND<0.25 U	0.25	13	293
ND<0.5 U	ND<0.25 U	0.25	14	293
ND<0.5 U	ND<0.25 U	0.25	15	293
ND<0.5 U	ND<0.25 U	0.25	16	293
ND<0.5 U	ND<0.25 U	0.25	17	293
ND<0.5 U	ND<0.25 U	0.25	18	293
ND<0.5 U	ND<0.25 U	0.25	19	293
ND<0.5 U	ND<0.25 U	0.25	20	293
ND<0.5 U	ND<0.25 U	0.25	21	293
ND<0.5 U	ND<0.25 U	0.25	22	293
ND<0.5 U	ND<0.25 U	0.25	23	293
ND<0.5 U	ND<0.25 U	0.25	24	293
ND<0.5 U	ND<0.25 U	0.25	25	293
ND<0.5 U	ND<0.25 U	0.25	26	293
ND<0.5 U	ND<0.25 U	0.25	27	293
ND<0.5 U	ND<0.25 U	0.25	28	293
ND<0.5 U	ND<0.25 U	0.25	29	293
ND<0.5 U	ND<0.25 U	0.25	30	293
ND<0.5 U	ND<0.25 U	0.25	31	293
ND<0.5 U	ND<0.25 U	0.25	32	293
ND<0.5 U	ND<0.25 U	0.25	33	293
ND<0.5 U	ND<0.25 U	0.25	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.25 U	ND<0.25 U	0	34	293
ND<0.5 U	ND<0.25 U	0.25	35	293
ND<0.5 U	ND<0.25 U	0.25	36	293

ND<0.5 U	ND<0.25 U	0.25	37	293
ND<0.5 U	ND<0.25 U	0.25	38	293
ND<0.5 U	ND<0.25 U	0.25	39	293
ND<0.5 U	ND<0.25 U	0.25	40	293
ND<0.5 U	ND<0.25 U	0.25	41	293
ND<0.5 U	ND<0.25 U	0.25	42	293
ND<0.5 U	ND<0.25 U	0.25	43	293
ND<0.5 U	ND<0.25 U	0.25	44	293
ND<0.5 U	ND<0.25 U	0.25	45	293
ND<0.5 U	ND<0.25 U	0.25	46	293
ND<0.5 U	ND<0.25 U	0.25	47	293
ND<0.5 U	ND<0.25 U	0.25	48	293
ND<0.5 U	ND<0.25 U	0.25	49	293
ND<0.5 U	ND<0.25 U	0.25	50	293
ND<0.5 U	ND<0.25 U	0.25	51	293
ND<0.5 U	ND<0.25 U	0.25	52	293
ND<0.5 U	ND<0.25 U	0.25	53	293
ND<0.5 U	ND<0.25 U	0.25	54	293
ND<0.5 U	ND<0.25 U	0.25	55	293
ND<0.5 U	ND<0.25 U	0.25	56	293
ND<0.5 U	ND<0.25 U	0.25	57	293
ND<0.5 U	ND<0.25 U	0.25	58	293
ND<0.5 U	ND<0.25 U	0.25	59	293
ND<0.5 U	ND<0.25 U	0.25	60	293
ND<0.5 U	ND<0.25 U	0.25	61	293
ND<0.5 U	ND<0.25 U	0.25	62	293
ND<0.5 U	ND<0.25 U	0.25	63	293
ND<0.5 U	ND<0.25 U	0.25	64	293
ND<0.5 U	ND<0.25 U	0.25	65	293
ND<0.5 U	ND<0.25 U	0.25	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.25 U	ND<0.25 U	0	66	293
ND<0.5 U	ND<0.25 U	0.25	67	293
ND<0.5 U	ND<0.25 U	0.25	68	293
ND<0.5 U	ND<0.25 U	0.25	69	293
ND<0.5 U	ND<0.25 U	0.25	70	293
ND<0.5 U	ND<0.25 U	0.25	71	293
ND<0.5 U	ND<0.25 U	0.25	72	293
ND<0.5 U	ND<0.25 U	0.25	73	293
ND<0.5 U	ND<0.25 U	0.25	74	293

ND<0.5 U	ND<0.25 U	0.25	75	293
ND<0.5 U	ND<0.25 U	0.25	76	293
ND<0.5 U	ND<0.25 U	0.25	77	293
ND<0.5 U	ND<0.25 U	0.25	78	293
ND<0.5 U	ND<0.25 U	0.25	79	293
ND<0.5 U	ND<0.25 U	0.25	80	293
ND<0.5 U	ND<0.25 U	0.25	81	293
ND<0.5 U	ND<0.25 U	0.25	82	293
ND<0.5 U	ND<0.25 U	0.25	83	293
ND<0.5 U	ND<0.25 U	0.25	84	293
ND<0.5 U	ND<0.25 U	0.25	85	293
ND<0.5 U	ND<0.25 U	0.25	86	293
ND<0.5 U	ND<0.25 U	0.25	87	293
ND<0.5 U	ND<0.25 U	0.25	88	293
ND<0.5 U	ND<0.25 U	0.25	89	293
ND<0.5 U	ND<0.25 U	0.25	90	293
ND<0.5 U	ND<0.25 U	0.25	91	293
ND<0.5 U	ND<0.25 U	0.25	92	293
ND<0.5 U	ND<0.25 U	0.25	93	293
ND<0.5 U	ND<0.25 U	0.25	94	293
ND<0.5 U	ND<0.25 U	0.25	95	293
ND<0.5 U	ND<0.25 U	0.25	96	293
ND<0.5 U	ND<0.25 U	0.25	97	293
ND<0.5 U	ND<0.25 U	0.25	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.25 U	ND<0.25 U	0	98	293
ND<0.5 U	ND<0.25 U	0.25	99	293
ND<0.5 U	ND<0.25 U	0.25	100	293
ND<0.5 U	ND<0.25 U	0.25	101	293
ND<0.5 U	ND<0.25 U	0.25	102	293
ND<0.5 U	ND<0.25 U	0.25	103	293
ND<0.5 U	ND<0.25 U	0.25	104	293
ND<0.5 U	ND<0.25 U	0.25	105	293
ND<0.5 U	ND<0.25 U	0.25	106	293
ND<0.5 U	ND<0.25 U	0.25	107	293
ND<0.5 U	ND<0.25 U	0.25	108	293
ND<0.5 U	ND<0.25 U	0.25	109	293
ND<0.5 U	ND<0.25 U	0.25	110	293
ND<0.5 U	ND<0.25 U	0.25	111	293
ND<0.5 U	ND<0.25 U	0.25	112	293
ND<0.5 U	ND<0.25 U	0.25	113	293

ND<0.5 U	ND<0.25 U	0.25	114	293
ND<0.5 U	ND<0.25 U	0.25	115	293
ND<0.5 U	ND<0.25 U	0.25	116	293
ND<0.5 U	ND<0.25 U	0.25	117	293
ND<0.5 U	ND<0.25 U	0.25	118	293
ND<0.5 U	ND<0.25 U	0.25	119	293
ND<0.5 U	ND<0.25 U	0.25	120	293
ND<0.5 U	ND<0.25 U	0.25	121	293
ND<0.5 U	ND<0.25 U	0.25	122	293
ND<0.5 U	ND<0.25 U	0.25	123	293
ND<0.5 U	ND<0.25 U	0.25	124	293
ND<0.5 U	ND<0.25 U	0.25	125	293
ND<0.5 U	ND<0.25 U	0.25	126	293
ND<0.5 U	ND<0.25 U	0.25	127	293
ND<0.5 U	ND<0.25 U	0.25	128	293
ND<0.5 U	ND<0.25 U	0.25	129	293
ND<0.5 U	ND<0.25 U	0.25	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.25 U	ND<0.25 U	0	130	293
ND<0.5 U	ND<0.25 U	0.25	131	293
ND<0.5 U	ND<0.25 U	0.25	132	293
ND<0.5 U	ND<0.25 U	0.25	133	293
ND<0.5 U	ND<0.25 U	0.25	134	293
ND<0.5 U	ND<0.25 U	0.25	135	293
ND<0.5 U	ND<0.25 U	0.25	136	293
ND<0.5 U	ND<0.25 U	0.25	137	293
ND<0.5 U	ND<0.25 U	0.25	138	293
ND<0.5 U	ND<0.25 U	0.25	139	293
ND<0.5 U	ND<0.25 U	0.25	140	293
ND<0.5 U	ND<0.25 U	0.25	141	293
ND<0.5 U	ND<0.25 U	0.25	142	293
ND<0.5 U	ND<0.25 U	0.25	143	293
ND<0.5 U	ND<0.25 U	0.25	144	293
ND<0.5 U	ND<0.25 U	0.25	145	293
ND<0.5 U	ND<0.25 U	0.25	146	293
ND<0.5 U	ND<0.25 U	0.25	147	293
ND<0.5 U	ND<0.25 U	0.25	148	293
ND<0.5 U	ND<0.25 U	0.25	149	293
ND<0.5 U	ND<0.25 U	0.25	150	293
ND<0.5 U	ND<0.25 U	0.25	151	293
ND<0.5 U	ND<0.25 U	0.25	152	293
ND<0.5 U	ND<0.25 U	0.25	153	293

ND<0.5 U	ND<0.25 U	0.25	154	293
ND<0.5 U	ND<0.25 U	0.25	155	293
ND<0.5 U	ND<0.25 U	0.25	156	293
ND<0.5 U	ND<0.25 U	0.25	157	293
ND<0.5 U	ND<0.25 U	0.25	158	293
ND<0.5 U	ND<0.25 U	0.25	159	293
ND<0.5 U	ND<0.25 U	0.25	160	293
ND<0.5 U	ND<0.25 U	0.25	161	293
ND<0.5 U	ND<0.25 U	0.25	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.25 U	ND<0.25 U	0	162	293
ND<0.5 U	ND<0.25 U	0.25	163	293
ND<0.5 U	ND<0.25 U	0.25	164	293
ND<0.5 U	ND<0.25 U	0.25	165	293
ND<0.5 U	ND<0.25 U	0.25	166	293
ND<0.5 U	ND<0.25 U	0.25	167	293
ND<0.5 U	ND<0.25 U	0.25	168	293
ND<0.5 U	ND<0.25 U	0.25	169	293
ND<0.5 U	ND<0.25 U	0.25	170	293
ND<0.5 U	ND<0.25 U	0.25	171	293
ND<0.5 U	ND<0.25 U	0.25	172	293
ND<0.5 U	ND<0.25 U	0.25	173	293
ND<0.5 U	ND<0.25 U	0.25	174	293
ND<0.5 U	ND<0.25 U	0.25	175	293
ND<0.5 U	ND<0.25 U	0.25	176	293
ND<0.5 U	ND<0.25 U	0.25	177	293
ND<0.5 U	ND<0.25 U	0.25	178	293
ND<0.5 U	ND<0.25 U	0.25	179	293
ND<0.5 U	ND<0.25 U	0.25	180	293
ND<0.5 U	ND<0.25 U	0.25	181	293
ND<0.5 U	ND<0.25 U	0.25	182	293
ND<0.5 U	ND<0.25 U	0.25	183	293
ND<0.5 U	ND<0.25 U	0.25	184	293
ND<0.5 U	ND<0.25 U	0.25	185	293
ND<0.5 U	ND<0.25 U	0.25	186	293
ND<0.5 U	ND<0.25 U	0.25	187	293
ND<0.5 U	ND<0.25 U	0.25	188	293
ND<0.5 U	ND<0.25 U	0.25	189	293
ND<0.5 U	ND<0.25 U	0.25	190	293
ND<0.5 U	ND<0.25 U	0.25	191	293
ND<0.5 U	ND<0.25 U	0.25	192	293
ND<0.5 U	ND<0.25 U	0.25	193	293
ND<0.5 U	ND<0.25 U	0.25	194	293

ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.25 U	ND<0.25 U	0	194	293
ND<0.5 U	ND<0.25 U	0.25	195	293
ND<0.5 U	ND<0.25 U	0.25	196	293
ND<0.5 U	ND<0.25 U	0.25	197	293
ND<0.5 U	ND<0.25 U	0.25	198	293
ND<0.5 U	ND<0.25 U	0.25	199	293
ND<0.5 U	ND<0.25 U	0.25	200	293
ND<0.5 U	ND<0.25 U	0.25	201	293
ND<0.5 U	ND<0.25 U	0.25	202	293
ND<0.5 U	ND<0.25 U	0.25	203	293
ND<0.5 U	ND<0.25 U	0.25	204	293
ND<0.5 U	ND<0.25 U	0.25	205	293
ND<0.5 U	ND<0.25 U	0.25	206	293
ND<0.5 U	ND<0.25 U	0.25	207	293
ND<0.5 U	ND<0.25 U	0.25	208	293
ND<0.5 U	ND<0.25 U	0.25	209	293
ND<0.5 U	ND<0.25 U	0.25	210	293
ND<0.5 U	ND<0.25 U	0.25	211	293
ND<0.5 U	ND<0.25 U	0.25	212	293
ND<0.5 U	ND<0.25 U	0.25	213	293
ND<0.5 U	ND<0.25 U	0.25	214	293
ND<0.5 U	ND<0.25 U	0.25	215	293
ND<0.5 U	ND<0.25 U	0.25	216	293
ND<0.5 U	ND<0.25 U	0.25	217	293
ND<0.5 U	ND<0.25 U	0.25	218	293
ND<0.5 U	ND<0.25 U	0.25	219	293
ND<0.5 U	ND<0.25 U	0.25	220	293
ND<0.5 U	ND<0.25 U	0.25	221	293
ND<0.5 U	ND<0.25 U	0.25	222	293
ND<0.5 U	ND<0.25 U	0.25	223	293
ND<0.5 U	ND<0.25 U	0.25	224	293
ND<0.5 U	ND<0.25 U	0.25	225	293
ND<0.5 U	ND<0.25 U	0.25	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293

ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.25 U	ND<0.25 U	0	226	293
ND<0.5 U	ND<0.25 U	0.25	227	293
ND<0.5 U	ND<0.25 U	0.25	228	293
ND<0.5 U	ND<0.25 U	0.25	229	293
ND<0.5 U	ND<0.25 U	0.25	230	293
ND<0.5 U	ND<0.25 U	0.25	231	293
ND<0.5 U	ND<0.25 U	0.25	232	293
ND<0.5 U	ND<0.25 U	0.25	233	293
ND<0.5 U	ND<0.25 U	0.25	234	293
ND<0.5 U	ND<0.25 U	0.25	235	293
ND<0.5 U	ND<0.25 U	0.25	236	293
ND<0.5 U	ND<0.25 U	0.25	237	293
ND<0.5 U	ND<0.25 U	0.25	238	293
ND<0.5 U	ND<0.25 U	0.25	239	293
ND<0.5 U	ND<0.25 U	0.25	240	293
ND<0.5 U	ND<0.25 U	0.25	241	293
ND<0.5 U	ND<0.25 U	0.25	242	293
ND<0.5 U	ND<0.25 U	0.25	243	293
ND<0.5 U	ND<0.25 U	0.25	244	293
ND<0.5 U	ND<0.25 U	0.25	245	293
ND<0.5 U	ND<0.25 U	0.25	246	293
ND<0.5 U	ND<0.25 U	0.25	247	293
ND<0.5 U	ND<0.25 U	0.25	248	293
ND<0.5 U	ND<0.25 U	0.25	249	293
ND<0.5 U	ND<0.25 U	0.25	250	293
ND<0.5 U	ND<0.25 U	0.25	251	293
ND<0.5 U	ND<0.25 U	0.25	252	293
ND<0.5 U	ND<0.25 U	0.25	253	293
ND<0.5 U	ND<0.25 U	0.25	254	293
ND<0.5 U	ND<0.25 U	0.25	255	293
ND<0.5 U	ND<0.25 U	0.25	256	293
ND<0.5 U	ND<0.25 U	0.25	257	293
ND<0.5 U	ND<0.25 U	0.25	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.25 U	ND<0.25 U	0	258	293
ND<0.5 U	ND<0.25 U	0.25	259	293
ND<0.5 U	ND<0.25 U	0.25	260	293
ND<0.5 U	ND<0.25 U	0.25	261	293
ND<0.5 U	ND<0.25 U	0.25	262	293
ND<0.5 U	ND<0.25 U	0.25	263	293
ND<0.5 U	ND<0.25 U	0.25	264	293
ND<0.5 U	ND<0.25 U	0.25	265	293
ND<0.5 U	ND<0.25 U	0.25	266	293

ND<0.5 U	ND<0.25 U	0.25	267	293
ND<0.5 U	ND<0.25 U	0.25	268	293
ND<0.5 U	ND<0.25 U	0.25	269	293
ND<0.5 U	ND<0.25 U	0.25	270	293
ND<0.5 U	ND<0.25 U	0.25	271	293
ND<0.5 U	ND<0.25 U	0.25	272	293
ND<0.5 U	ND<0.25 U	0.25	273	293
ND<0.5 U	ND<0.25 U	0.25	274	293
ND<0.5 U	ND<0.25 U	0.25	275	293
ND<0.5 U	ND<0.25 U	0.25	276	293
ND<0.5 U	ND<0.25 U	0.25	277	293
ND<0.5 U	ND<0.25 U	0.25	278	293
ND<0.5 U	ND<0.25 U	0.25	279	293
ND<0.5 U	ND<0.25 U	0.25	280	293
ND<0.5 U	ND<0.25 U	0.25	281	293
ND<0.5 U	ND<0.25 U	0.25	282	293
ND<0.5 U	ND<0.25 U	0.25	283	293
ND<0.5 U	ND<0.25 U	0.25	284	293
ND<0.5 U	ND<0.25 U	0.25	285	293
ND<0.5 U	ND<0.25 U	0.25	286	293
ND<0.5 U	ND<0.25 U	0.25	287	293
ND<0.5 U	ND<0.25 U	0.25	288	293
ND<0.5 U	ND<0.25 U	0.25	289	293
ND<0.5 U	ND<0.25 U	0.25	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.25 U	ND<0.25 U	0	290	293
ND<0.5 U	ND<0.25 U	0.25	291	293
ND<0.5 U	ND<0.25 U	0.25	292	293
ND<0.5 U	ND<0.25 U	0.25	293	293
ND<0.5 U	ND<0.25 U	0.25	294	293
ND<0.5 U	ND<0.25 U	0.25	295	293
ND<0.5 U	ND<0.25 U	0.25	296	293
ND<0.5 U	ND<0.25 U	0.25	297	293
ND<0.5 U	ND<0.25 U	0.25	298	293
ND<0.5 U	ND<0.25 U	0.25	299	293
ND<0.5 U	ND<0.25 U	0.25	300	293
ND<0.5 U	ND<0.25 U	0.25	301	293
ND<0.5 U	ND<0.25 U	0.25	302	293
ND<0.5 U	ND<0.25 U	0.25	303	293
ND<0.5 U	ND<0.25 U	0.25	304	293
ND<0.5 U	ND<0.25 U	0.25	305	293
ND<0.5 U	ND<0.25 U	0.25	306	293
ND<0.5 U	ND<0.25 U	0.25	307	293
ND<0.5 U	ND<0.25 U	0.25	308	293
ND<0.5 U	ND<0.25 U	0.25	309	293
ND<0.5 U	ND<0.25 U	0.25	310	293
ND<0.5 U	ND<0.25 U	0.25	311	293

ND<0.5 U	ND<0.25 U	0.25	312	293
ND<0.5 U	ND<0.25 U	0.25	313	293
ND<0.5 U	ND<0.25 U	0.25	314	293
ND<0.5 U	ND<0.25 U	0.25	315	293
ND<0.5 U	ND<0.25 U	0.25	316	293
ND<0.5 U	ND<0.25 U	0.25	317	293
ND<0.5 U	ND<0.25 U	0.25	318	293
ND<0.5 U	ND<0.25 U	0.25	319	293
ND<0.5 U	ND<0.25 U	0.25	320	293
ND<0.5 U	ND<0.25 U	0.25	321	293
ND<0.5 U	ND<0.25 U	0.25	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.25 U	ND<0.25 U	0	322	293
ND<0.5 U	ND<0.25 U	0.25	323	293
ND<0.5 U	ND<0.25 U	0.25	324	293
ND<0.5 U	ND<0.25 U	0.25	325	293
ND<0.5 U	ND<0.25 U	0.25	326	293
ND<0.5 U	ND<0.25 U	0.25	327	293
ND<0.5 U	ND<0.25 U	0.25	328	293
ND<0.5 U	ND<0.25 U	0.25	329	293
ND<0.5 U	ND<0.25 U	0.25	330	293
ND<0.5 U	ND<0.25 U	0.25	331	293
ND<0.5 U	ND<0.25 U	0.25	332	293
ND<0.5 U	ND<0.25 U	0.25	333	293
ND<0.5 U	ND<0.25 U	0.25	334	293
ND<0.5 U	ND<0.25 U	0.25	335	293
ND<0.5 U	ND<0.25 U	0.25	336	293
ND<0.5 U	ND<0.25 U	0.25	337	293
ND<0.5 U	ND<0.25 U	0.25	338	293
ND<0.5 U	ND<0.25 U	0.25	339	293
ND<0.5 U	ND<0.25 U	0.25	340	293
ND<0.5 U	ND<0.25 U	0.25	341	293
ND<0.5 U	ND<0.25 U	0.25	342	293
ND<0.5 U	ND<0.25 U	0.25	343	293
ND<0.5 U	ND<0.25 U	0.25	344	293
ND<0.5 U	ND<0.25 U	0.25	345	293
ND<0.5 U	ND<0.25 U	0.25	346	293
ND<0.5 U	ND<0.25 U	0.25	347	293
ND<0.5 U	ND<0.25 U	0.25	348	293
ND<0.5 U	ND<0.25 U	0.25	349	293
ND<0.5 U	ND<0.25 U	0.25	350	293
ND<0.5 U	ND<0.25 U	0.25	351	293
ND<0.5 U	ND<0.25 U	0.25	352	293
ND<0.5 U	ND<0.25 U	0.25	353	293
ND<0.5 U	ND<0.25 U	0.25	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293

ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.25 U	ND<0.25 U	0	354	293
ND<0.5 U	ND<0.25 U	0.25	355	293
ND<0.5 U	ND<0.25 U	0.25	356	293
ND<0.5 U	ND<0.25 U	0.25	357	293
ND<0.5 U	ND<0.25 U	0.25	358	293
ND<0.5 U	ND<0.25 U	0.25	359	293
ND<0.5 U	ND<0.25 U	0.25	360	293
ND<0.5 U	ND<0.25 U	0.25	361	293
ND<0.5 U	ND<0.25 U	0.25	362	293
ND<0.5 U	ND<0.25 U	0.25	363	293
ND<0.5 U	ND<0.25 U	0.25	364	293
ND<0.5 U	ND<0.25 U	0.25	365	293
ND<0.5 U	ND<0.25 U	0.25	366	293
ND<0.5 U	ND<0.25 U	0.25	367	293
ND<0.5 U	ND<0.25 U	0.25	368	293
ND<0.5 U	ND<0.25 U	0.25	369	293
ND<0.5 U	ND<0.25 U	0.25	370	293
ND<0.5 U	ND<0.25 U	0.25	371	293
ND<0.5 U	ND<0.25 U	0.25	372	293
ND<0.5 U	ND<0.25 U	0.25	373	293
ND<0.5 U	ND<0.25 U	0.25	374	293
ND<0.5 U	ND<0.25 U	0.25	375	293
ND<0.5 U	ND<0.25 U	0.25	376	293
ND<0.5 U	ND<0.25 U	0.25	377	293
ND<0.5 U	ND<0.25 U	0.25	378	293
ND<0.5 U	ND<0.25 U	0.25	379	293
ND<0.5 U	ND<0.25 U	0.25	380	293
ND<0.5 U	ND<0.25 U	0.25	381	293
ND<0.5 U	ND<0.25 U	0.25	382	293
ND<0.5 U	ND<0.25 U	0.25	383	293
ND<0.5 U	ND<0.25 U	0.25	384	293
ND<0.5 U	ND<0.25 U	0.25	385	293
ND<0.5 U	ND<0.25 U	0.25	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.25 U	ND<0.25 U	0	386	293
ND<0.5 U	ND<0.25 U	0.25	387	293
ND<0.5 U	ND<0.25 U	0.25	388	293
ND<0.5 U	ND<0.25 U	0.25	389	293
ND<0.5 U	ND<0.25 U	0.25	390	293
ND<0.5 U	ND<0.25 U	0.25	391	293
ND<0.5 U	ND<0.25 U	0.25	392	293
ND<0.5 U	ND<0.25 U	0.25	393	293
ND<0.5 U	ND<0.25 U	0.25	394	293
ND<0.5 U	ND<0.25 U	0.25	395	293

ND<0.5 U	ND<0.25 U	0.25	396	293
ND<0.5 U	ND<0.25 U	0.25	397	293
ND<0.5 U	ND<0.25 U	0.25	398	293
ND<0.5 U	ND<0.25 U	0.25	399	293
ND<0.5 U	ND<0.25 U	0.25	400	293
ND<0.5 U	ND<0.25 U	0.25	401	293
ND<0.5 U	ND<0.25 U	0.25	402	293
ND<0.5 U	ND<0.25 U	0.25	403	293
ND<0.5 U	ND<0.25 U	0.25	404	293
ND<0.5 U	ND<0.25 U	0.25	405	293
ND<0.5 U	ND<0.25 U	0.25	406	293
ND<0.5 U	ND<0.25 U	0.25	407	293
ND<0.5 U	ND<0.25 U	0.25	408	293
ND<0.5 U	ND<0.25 U	0.25	409	293
ND<0.5 U	ND<0.25 U	0.25	410	293
ND<0.5 U	ND<0.25 U	0.25	411	293
ND<0.5 U	ND<0.25 U	0.25	412	293
ND<0.5 U	ND<0.25 U	0.25	413	293
ND<0.5 U	ND<0.25 U	0.25	414	293
ND<0.5 U	ND<0.25 U	0.25	415	293
ND<0.5 U	ND<0.25 U	0.25	416	293
ND<0.5 U	ND<0.25 U	0.25	417	293
ND<0.5 U	ND<0.25 U	0.25	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.25 U	ND<0.25 U	0	418	293
ND<0.5 U	ND<0.25 U	0.25	419	293
ND<0.5 U	ND<0.25 U	0.25	420	293
ND<0.5 U	ND<0.25 U	0.25	421	293
ND<0.5 U	ND<0.25 U	0.25	422	293
ND<0.5 U	ND<0.25 U	0.25	423	293
ND<0.5 U	ND<0.25 U	0.25	424	293
ND<0.5 U	ND<0.25 U	0.25	425	293
ND<0.5 U	ND<0.25 U	0.25	426	293
ND<0.5 U	ND<0.25 U	0.25	427	293
ND<0.5 U	ND<0.25 U	0.25	428	293
ND<0.5 U	ND<0.25 U	0.25	429	293
ND<0.5 U	ND<0.25 U	0.25	430	293
ND<0.5 U	ND<0.25 U	0.25	431	293
ND<0.5 U	ND<0.25 U	0.25	432	293
ND<0.5 U	ND<0.25 U	0.25	433	293
ND<0.5 U	ND<0.25 U	0.25	434	293
ND<0.5 U	ND<0.25 U	0.25	435	293
ND<0.5 U	ND<0.25 U	0.25	436	293
ND<0.5 U	ND<0.25 U	0.25	437	293
ND<0.5 U	ND<0.25 U	0.25	438	293
ND<0.5 U	ND<0.25 U	0.25	439	293
ND<0.5 U	ND<0.25 U	0.25	440	293
ND<0.5 U	ND<0.25 U	0.25	441	293
ND<0.5 U	ND<0.25 U	0.25	442	293
ND<0.5 U	ND<0.25 U	0.25	443	293
ND<0.5 U	ND<0.25 U	0.25	444	293

ND<0.5 U	ND<0.25 U	0.25	445	293
ND<0.5 U	ND<0.25 U	0.25	446	293
ND<0.5 U	ND<0.25 U	0.25	447	293
ND<0.5 U	ND<0.25 U	0.25	448	293
ND<0.5 U	ND<0.25 U	0.25	449	293
ND<0.5 U	ND<0.25 U	0.25	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.25 U	ND<0.25 U	0	450	293
ND<0.5 U	ND<0.25 U	0.25	451	293
ND<0.5 U	ND<0.25 U	0.25	452	293
ND<0.5 U	ND<0.25 U	0.25	453	293
ND<0.5 U	ND<0.25 U	0.25	454	293
ND<0.5 U	ND<0.25 U	0.25	455	293
ND<0.5 U	ND<0.25 U	0.25	456	293
ND<0.5 U	ND<0.25 U	0.25	457	293
ND<0.5 U	ND<0.25 U	0.25	458	293
ND<0.5 U	ND<0.25 U	0.25	459	293
ND<0.5 U	ND<0.25 U	0.25	460	293
ND<0.5 U	ND<0.25 U	0.25	461	293
ND<0.5 U	ND<0.25 U	0.25	462	293
ND<0.5 U	ND<0.25 U	0.25	463	293
ND<0.5 U	ND<0.25 U	0.25	464	293
ND<0.5 U	ND<0.25 U	0.25	465	293
ND<0.5 U	ND<0.25 U	0.25	466	293
ND<0.5 U	ND<0.25 U	0.25	467	293
ND<0.5 U	ND<0.25 U	0.25	468	293
ND<0.5 U	ND<0.25 U	0.25	469	293
ND<0.5 U	ND<0.25 U	0.25	470	293
ND<0.5 U	ND<0.25 U	0.25	471	293
ND<0.5 U	ND<0.25 U	0.25	472	293
ND<0.5 U	ND<0.25 U	0.25	473	293
ND<0.5 U	ND<0.25 U	0.25	474	293
ND<0.5 U	ND<0.25 U	0.25	475	293
ND<0.5 U	ND<0.25 U	0.25	476	293
ND<0.5 U	ND<0.25 U	0.25	477	293
ND<0.5 U	ND<0.25 U	0.25	478	293
ND<0.5 U	ND<0.25 U	0.25	479	293
ND<0.5 U	ND<0.25 U	0.25	480	293
ND<0.5 U	ND<0.25 U	0.25	481	293
ND<0.5 U	ND<0.25 U	0.25	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.25 U	ND<0.25 U	0	482	293
ND<0.5 U	ND<0.25 U	0.25	483	293
ND<0.5 U	ND<0.25 U	0.25	484	293
ND<0.5 U	ND<0.25 U	0.25	485	293
ND<0.5 U	ND<0.25 U	0.25	486	293
ND<0.5 U	ND<0.25 U	0.25	487	293
ND<0.5 U	ND<0.25 U	0.25	488	293

ND<0.5 U	ND<0.25 U	0.25	489	293
ND<0.5 U	ND<0.25 U	0.25	490	293
ND<0.5 U	ND<0.25 U	0.25	491	293
ND<0.5 U	ND<0.25 U	0.25	492	293
ND<0.5 U	ND<0.25 U	0.25	493	293
ND<0.5 U	ND<0.25 U	0.25	494	293
ND<0.5 U	ND<0.25 U	0.25	495	293
ND<0.5 U	ND<0.25 U	0.25	496	293
ND<0.5 U	ND<0.25 U	0.25	497	293
ND<0.5 U	ND<0.25 U	0.25	498	293
ND<0.5 U	ND<0.25 U	0.25	499	293
ND<0.5 U	ND<0.25 U	0.25	500	293
ND<0.5 U	ND<0.25 U	0.25	501	293
ND<0.5 U	ND<0.25 U	0.25	502	293
ND<0.5 U	ND<0.25 U	0.25	503	293
ND<0.5 U	ND<0.25 U	0.25	504	293
ND<0.5 U	ND<0.25 U	0.25	505	293
ND<0.5 U	ND<0.25 U	0.25	506	293
ND<0.5 U	ND<0.25 U	0.25	507	293
ND<0.5 U	ND<0.25 U	0.25	508	293
ND<0.5 U	ND<0.25 U	0.25	509	293
ND<0.5 U	ND<0.25 U	0.25	510	293
ND<0.5 U	ND<0.25 U	0.25	511	293
ND<0.5 U	ND<0.25 U	0.25	512	293
ND<0.5 U	ND<0.25 U	0.25	513	293
ND<0.5 U	ND<0.25 U	0.25	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.25 U	ND<0.25 U	0	514	293
ND<0.5 U	ND<0.25 U	0.25	515	293
ND<0.5 U	ND<0.25 U	0.25	516	293
ND<0.5 U	ND<0.25 U	0.25	517	293
ND<0.5 U	ND<0.25 U	0.25	518	293
ND<0.5 U	ND<0.25 U	0.25	519	293
ND<0.5 U	ND<0.25 U	0.25	520	293
ND<0.5 U	ND<0.25 U	0.25	521	293
ND<0.5 U	ND<0.25 U	0.25	522	293
ND<0.5 U	ND<0.25 U	0.25	523	293
ND<0.5 U	ND<0.25 U	0.25	524	293
ND<0.5 U	ND<0.25 U	0.25	525	293
ND<0.5 U	ND<0.25 U	0.25	526	293
ND<0.5 U	ND<0.25 U	0.25	527	293
ND<0.5 U	ND<0.25 U	0.25	528	293
ND<0.5 U	ND<0.25 U	0.25	529	293
ND<0.5 U	ND<0.25 U	0.25	530	293
ND<0.5 U	ND<0.25 U	0.25	531	293
ND<0.5 U	ND<0.25 U	0.25	532	293
ND<0.5 U	ND<0.25 U	0.25	533	293
ND<0.5 U	ND<0.25 U	0.25	534	293
ND<0.5 U	ND<0.25 U	0.25	535	293
ND<0.5 U	ND<0.25 U	0.25	536	293
ND<0.5 U	ND<0.25 U	0.25	537	293
ND<0.5 U	ND<0.25 U	0.25	538	293
ND<0.5 U	ND<0.25 U	0.25	539	293
ND<0.5 U	ND<0.25 U	0.25	540	293

ND<0.5 U	ND<0.25 U	0.25	541	293
ND<0.5 U	ND<0.25 U	0.25	542	293
ND<0.5 U	ND<0.25 U	0.25	543	293
ND<0.5 U	ND<0.25 U	0.25	544	293
ND<0.5 U	ND<0.25 U	0.25	545	293
ND<0.5 U	ND<0.25 U	0.25	546	293
ND<0.25 U	ND<0.25 U	0	546	293
ND<0.25 U	ND<0.25 U	0	546	293
ND<0.25 U	ND<0.25 U	0	546	293
ND<0.5 U	ND<0.25 U	0.25	547	293
ND<0.5 U	ND<0.25 U	0.25	548	293
ND<0.5 U	ND<0.25 U	0.25	549	293
ND<0.5 U	ND<0.25 U	0.25	550	293
ND<0.5 U	ND<0.25 U	0.25	551	293
ND<0.5 U	ND<0.25 U	0.25	552	293
ND<0.5 U	ND<0.25 U	0.25	553	293
ND<0.5 U	ND<0.25 U	0.25	554	293
ND<0.5 U	ND<0.25 U	0.25	555	293
ND<0.5 U	ND<0.25 U	0.25	556	293
ND<0.5 U	ND<0.25 U	0.25	557	293
ND<0.5 U	ND<0.25 U	0.25	558	293
ND<0.5 U	ND<0.25 U	0.25	559	293
ND<0.5 U	ND<0.25 U	0.25	560	293
ND<0.5 U	ND<0.25 U	0.25	561	293
ND<0.5 U	ND<0.25 U	0.25	562	293
ND<0.5 U	ND<0.25 U	0.25	563	293
ND<0.5 U	ND<0.25 U	0.25	564	293
ND<0.5 U	ND<0.25 U	0.25	565	293
ND<0.5 U	ND<0.25 U	0.25	566	293
ND<0.5 U	ND<0.25 U	0.25	567	293
ND<0.5 U	ND<0.25 U	0.25	568	293
ND<0.5 U	ND<0.25 U	0.25	569	293
ND<0.5 U	ND<0.25 U	0.25	570	293
ND<0.5 U	ND<0.25 U	0.25	571	293
ND<0.5 U	ND<0.25 U	0.25	572	293
ND<0.5 U	ND<0.25 U	0.25	573	293
ND<0.5 U	ND<0.25 U	0.25	574	293
ND<0.5 U	ND<0.25 U	0.25	575	293
ND<0.5 U	ND<0.25 U	0.25	576	293
ND<0.5 U	ND<0.25 U	0.25	577	293
ND<0.5 U	ND<0.25 U	0.25	578	293
ND<0.25 U	ND<0.25 U	0	578	293
ND<0.25 U	ND<0.25 U	0	578	293
ND<0.5 U	ND<0.25 U	0.25	579	293
ND<0.5 U	ND<0.25 U	0.25	580	293
ND<0.5 U	ND<0.25 U	0.25	581	293
ND<0.5 U	ND<0.25 U	0.25	582	293
ND<0.5 U	ND<0.25 U	0.25	583	293
ND<0.5 U	ND<0.25 U	0.25	584	293
ND<0.5 U	ND<0.25 U	0.25	585	293
ND<0.5 U	ND<0.25 U	0.25	586	293
ND<0.5 U	ND<0.25 U	0.25	587	293
ND<0.5 U	ND<0.25 U	0.25	588	293
ND<0.5 U	ND<0.25 U	0.25	589	293
ND<0.5 U	ND<0.25 U	0.25	590	293

ND<0.5 U	ND<0.25 U	0.25	591	293
ND<0.5 U	ND<0.25 U	0.25	592	293
ND<0.5 U	ND<0.25 U	0.25	593	293
ND<0.5 U	ND<0.25 U	0.25	594	293
ND<0.5 U	ND<0.25 U	0.25	595	293
ND<0.5 U	ND<0.25 U	0.25	596	293
ND<0.5 U	ND<0.25 U	0.25	597	293
ND<0.5 U	ND<0.25 U	0.25	598	293
ND<0.5 U	ND<0.25 U	0.25	599	293
ND<0.5 U	ND<0.25 U	0.25	600	293
ND<0.5 U	ND<0.25 U	0.25	601	293
ND<0.5 U	ND<0.25 U	0.25	602	293
ND<0.5 U	ND<0.25 U	0.25	603	293
ND<0.5 U	ND<0.25 U	0.25	604	293
ND<0.5 U	ND<0.25 U	0.25	605	293
ND<0.5 U	ND<0.25 U	0.25	606	293
ND<0.5 U	ND<0.25 U	0.25	607	293
ND<0.5 U	ND<0.25 U	0.25	608	293
ND<0.5 U	ND<0.25 U	0.25	609	293
ND<0.5 U	ND<0.25 U	0.25	610	293
ND<0.25 U	ND<0.25 U	0	610	293
ND<0.5 U	ND<0.25 U	0.25	611	293
ND<0.5 U	ND<0.25 U	0.25	612	293
ND<0.5 U	ND<0.25 U	0.25	613	293
ND<0.5 U	ND<0.25 U	0.25	614	293
ND<0.5 U	ND<0.25 U	0.25	615	293
ND<0.5 U	ND<0.25 U	0.25	616	293
ND<0.5 U	ND<0.25 U	0.25	617	293
ND<0.5 U	ND<0.25 U	0.25	618	293
ND<0.5 U	ND<0.25 U	0.25	619	293
ND<0.5 U	ND<0.25 U	0.25	620	293
ND<0.5 U	ND<0.25 U	0.25	621	293
ND<0.5 U	ND<0.25 U	0.25	622	293
ND<0.5 U	ND<0.25 U	0.25	623	293
ND<0.5 U	ND<0.25 U	0.25	624	293
ND<0.5 U	ND<0.25 U	0.25	625	293
ND<0.5 U	ND<0.25 U	0.25	626	293
ND<0.5 U	ND<0.25 U	0.25	627	293
ND<0.5 U	ND<0.25 U	0.25	628	293
ND<0.5 U	ND<0.25 U	0.25	629	293
ND<0.5 U	ND<0.25 U	0.25	630	293
ND<0.5 U	ND<0.25 U	0.25	631	293
ND<0.5 U	ND<0.25 U	0.25	632	293
ND<0.5 U	ND<0.25 U	0.25	633	293
ND<0.5 U	ND<0.25 U	0.25	634	293
ND<0.5 U	ND<0.25 U	0.25	635	293
ND<0.5 U	ND<0.25 U	0.25	636	293
ND<0.5 U	ND<0.25 U	0.25	637	293
ND<0.5 U	ND<0.25 U	0.25	638	293
ND<0.5 U	ND<0.25 U	0.25	639	293
ND<0.5 U	ND<0.25 U	0.25	640	293
ND<0.5 U	ND<0.25 U	0.25	641	293
ND<0.5 U	ND<0.25 U	0.25	642	293
ND<0.5 U	ND<0.25 U	0.25	643	293
ND<0.5 U	ND<0.25 U	0.25	644	293

ND<0.5 U	ND<0.25 U	0.25	645	293
ND<0.5 U	ND<0.25 U	0.25	646	293
ND<0.5 U	ND<0.25 U	0.25	647	293
ND<0.5 U	ND<0.25 U	0.25	648	293
ND<0.5 U	ND<0.25 U	0.25	649	293
ND<0.5 U	ND<0.25 U	0.25	650	293
ND<0.5 U	ND<0.25 U	0.25	651	293
ND<0.5 U	ND<0.25 U	0.25	652	293
ND<0.5 U	ND<0.25 U	0.25	653	293
ND<0.5 U	ND<0.25 U	0.25	654	293
ND<0.5 U	ND<0.25 U	0.25	655	293
ND<0.5 U	ND<0.25 U	0.25	656	293
ND<0.5 U	ND<0.25 U	0.25	657	293
ND<0.5 U	ND<0.25 U	0.25	658	293
ND<0.5 U	ND<0.25 U	0.25	659	293
ND<0.5 U	ND<0.25 U	0.25	660	293
ND<0.5 U	ND<0.25 U	0.25	661	293
ND<0.5 U	ND<0.25 U	0.25	662	293
ND<0.5 U	ND<0.25 U	0.25	663	293
ND<0.5 U	ND<0.25 U	0.25	664	293
ND<0.5 U	ND<0.25 U	0.25	665	293
ND<0.5 U	ND<0.25 U	0.25	666	293
ND<0.5 U	ND<0.25 U	0.25	667	293
ND<0.5 U	ND<0.25 U	0.25	668	293
ND<0.5 U	ND<0.25 U	0.25	669	293
ND<0.5 U	ND<0.25 U	0.25	670	293
ND<0.5 U	ND<0.25 U	0.25	671	293
ND<0.5 U	ND<0.25 U	0.25	672	293
ND<0.5 U	ND<0.25 U	0.25	673	293
ND<0.5 U	ND<0.25 U	0.25	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293
ND<0.5 U	ND<0.5 U	0	674	293

ND<0.5 U	ND<0.5 U	0	674	293

S Statistic = 674 - 293 = 381

Tied Group	Value	Members
1	0.5	43
2	0.25	21

Time Period	Observations
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1

4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1

```
10/29/2018                    1
1/30/2019                     1
4/29/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 184086
B = 0
C = 82026
D = 0
E = 2226
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 20973
Z-Score = 2.62394
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.62394| > 2.32634 indicating a trend
```

Mann-Kendall Trend Analysis

Parameter: Ethylbenzene

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.5 U	ND<0.5 U	0	0	0
ND<0.25 U	ND<0.5 U	-0.25	0	1
ND<0.25 U	ND<0.5 U	-0.25	0	2
ND<0.25 U	ND<0.5 U	-0.25	0	3
ND<0.25 U	ND<0.5 U	-0.25	0	4
ND<0.25 U	ND<0.5 U	-0.25	0	5
ND<0.25 U	ND<0.5 U	-0.25	0	6
ND<0.25 U	ND<0.5 U	-0.25	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.5 U	ND<0.5 U	0	0	7
ND<0.25 U	ND<0.5 U	-0.25	0	8
ND<0.25 U	ND<0.5 U	-0.25	0	9
ND<0.25 U	ND<0.5 U	-0.25	0	10
ND<0.25 U	ND<0.5 U	-0.25	0	11
ND<0.25 U	ND<0.5 U	-0.25	0	12
ND<0.25 U	ND<0.5 U	-0.25	0	13
ND<0.25 U	ND<0.5 U	-0.25	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14

ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.5 U	ND<0.5 U	0	0	14
ND<0.25 U	ND<0.5 U	-0.25	0	15
ND<0.25 U	ND<0.5 U	-0.25	0	16
ND<0.25 U	ND<0.5 U	-0.25	0	17
ND<0.25 U	ND<0.5 U	-0.25	0	18
ND<0.25 U	ND<0.5 U	-0.25	0	19
ND<0.25 U	ND<0.5 U	-0.25	0	20
ND<0.25 U	ND<0.5 U	-0.25	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.5 U	ND<0.5 U	0	0	21
ND<0.25 U	ND<0.5 U	-0.25	0	22
ND<0.25 U	ND<0.5 U	-0.25	0	23
ND<0.25 U	ND<0.5 U	-0.25	0	24
ND<0.25 U	ND<0.5 U	-0.25	0	25
ND<0.25 U	ND<0.5 U	-0.25	0	26
ND<0.25 U	ND<0.5 U	-0.25	0	27
ND<0.25 U	ND<0.5 U	-0.25	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.5 U	ND<0.5 U	0	0	28
ND<0.25 U	ND<0.5 U	-0.25	0	29
ND<0.25 U	ND<0.5 U	-0.25	0	30
ND<0.25 U	ND<0.5 U	-0.25	0	31
ND<0.25 U	ND<0.5 U	-0.25	0	32
ND<0.25 U	ND<0.5 U	-0.25	0	33
ND<0.25 U	ND<0.5 U	-0.25	0	34

ND<0.25 U	ND<0.5 U	-0.25	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.5 U	ND<0.5 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.25 U	ND<0.25 U	0	0	35
ND<0.5 U	ND<0.25 U	0.25	1	35
ND<0.5 U	ND<0.25 U	0.25	2	35
ND<0.5 U	ND<0.25 U	0.25	3	35
ND<0.5 U	ND<0.25 U	0.25	4	35
ND<0.5 U	ND<0.25 U	0.25	5	35
ND<0.5 U	ND<0.25 U	0.25	6	35
ND<0.5 U	ND<0.25 U	0.25	7	35
ND<0.5 U	ND<0.25 U	0.25	8	35
ND<0.5 U	ND<0.25 U	0.25	9	35
ND<0.5 U	ND<0.25 U	0.25	10	35
ND<0.5 U	ND<0.25 U	0.25	11	35
ND<0.5 U	ND<0.25 U	0.25	12	35
ND<0.5 U	ND<0.25 U	0.25	13	35
ND<0.5 U	ND<0.25 U	0.25	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.25 U	ND<0.25 U	0	14	35
ND<0.5 U	ND<0.25 U	0.25	15	35
ND<0.5 U	ND<0.25 U	0.25	16	35
ND<0.5 U	ND<0.25 U	0.25	17	35
ND<0.5 U	ND<0.25 U	0.25	18	35
ND<0.5 U	ND<0.25 U	0.25	19	35
ND<0.5 U	ND<0.25 U	0.25	20	35
ND<0.5 U	ND<0.25 U	0.25	21	35
ND<0.5 U	ND<0.25 U	0.25	22	35
ND<0.5 U	ND<0.25 U	0.25	23	35
ND<0.5 U	ND<0.25 U	0.25	24	35
ND<0.5 U	ND<0.25 U	0.25	25	35
ND<0.5 U	ND<0.25 U	0.25	26	35
ND<0.5 U	ND<0.25 U	0.25	27	35
ND<0.5 U	ND<0.25 U	0.25	28	35

ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.25 U	ND<0.25 U	0	28	35
ND<0.5 U	ND<0.25 U	0.25	29	35
ND<0.5 U	ND<0.25 U	0.25	30	35
ND<0.5 U	ND<0.25 U	0.25	31	35
ND<0.5 U	ND<0.25 U	0.25	32	35
ND<0.5 U	ND<0.25 U	0.25	33	35
ND<0.5 U	ND<0.25 U	0.25	34	35
ND<0.5 U	ND<0.25 U	0.25	35	35
ND<0.5 U	ND<0.25 U	0.25	36	35
ND<0.5 U	ND<0.25 U	0.25	37	35
ND<0.5 U	ND<0.25 U	0.25	38	35
ND<0.5 U	ND<0.25 U	0.25	39	35
ND<0.5 U	ND<0.25 U	0.25	40	35
ND<0.5 U	ND<0.25 U	0.25	41	35
ND<0.5 U	ND<0.25 U	0.25	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.25 U	ND<0.25 U	0	42	35
ND<0.5 U	ND<0.25 U	0.25	43	35
ND<0.5 U	ND<0.25 U	0.25	44	35
ND<0.5 U	ND<0.25 U	0.25	45	35
ND<0.5 U	ND<0.25 U	0.25	46	35
ND<0.5 U	ND<0.25 U	0.25	47	35
ND<0.5 U	ND<0.25 U	0.25	48	35
ND<0.5 U	ND<0.25 U	0.25	49	35
ND<0.5 U	ND<0.25 U	0.25	50	35
ND<0.5 U	ND<0.25 U	0.25	51	35
ND<0.5 U	ND<0.25 U	0.25	52	35
ND<0.5 U	ND<0.25 U	0.25	53	35
ND<0.5 U	ND<0.25 U	0.25	54	35
ND<0.5 U	ND<0.25 U	0.25	55	35
ND<0.5 U	ND<0.25 U	0.25	56	35
ND<0.25 U	ND<0.25 U	0	56	35
ND<0.25 U	ND<0.25 U	0	56	35
ND<0.5 U	ND<0.25 U	0.25	57	35
ND<0.5 U	ND<0.25 U	0.25	58	35
ND<0.5 U	ND<0.25 U	0.25	59	35
ND<0.5 U	ND<0.25 U	0.25	60	35
ND<0.5 U	ND<0.25 U	0.25	61	35
ND<0.5 U	ND<0.25 U	0.25	62	35
ND<0.5 U	ND<0.25 U	0.25	63	35
ND<0.5 U	ND<0.25 U	0.25	64	35
ND<0.5 U	ND<0.25 U	0.25	65	35
ND<0.5 U	ND<0.25 U	0.25	66	35
ND<0.5 U	ND<0.25 U	0.25	67	35
ND<0.5 U	ND<0.25 U	0.25	68	35
ND<0.5 U	ND<0.25 U	0.25	69	35
ND<0.5 U	ND<0.25 U	0.25	70	35
ND<0.25 U	ND<0.25 U	0	70	35
ND<0.5 U	ND<0.25 U	0.25	71	35
ND<0.5 U	ND<0.25 U	0.25	72	35

ND<0.5 U	ND<0.25 U	0.25	73	35
ND<0.5 U	ND<0.25 U	0.25	74	35
ND<0.5 U	ND<0.25 U	0.25	75	35
ND<0.5 U	ND<0.25 U	0.25	76	35
ND<0.5 U	ND<0.25 U	0.25	77	35
ND<0.5 U	ND<0.25 U	0.25	78	35
ND<0.5 U	ND<0.25 U	0.25	79	35
ND<0.5 U	ND<0.25 U	0.25	80	35
ND<0.5 U	ND<0.25 U	0.25	81	35
ND<0.5 U	ND<0.25 U	0.25	82	35
ND<0.5 U	ND<0.25 U	0.25	83	35
ND<0.5 U	ND<0.25 U	0.25	84	35
ND<0.5 U	ND<0.25 U	0.25	85	35
ND<0.5 U	ND<0.25 U	0.25	86	35
ND<0.5 U	ND<0.25 U	0.25	87	35
ND<0.5 U	ND<0.25 U	0.25	88	35
ND<0.5 U	ND<0.25 U	0.25	89	35
ND<0.5 U	ND<0.25 U	0.25	90	35
ND<0.5 U	ND<0.25 U	0.25	91	35
ND<0.5 U	ND<0.25 U	0.25	92	35
ND<0.5 U	ND<0.25 U	0.25	93	35
ND<0.5 U	ND<0.25 U	0.25	94	35
ND<0.5 U	ND<0.25 U	0.25	95	35
ND<0.5 U	ND<0.25 U	0.25	96	35
ND<0.5 U	ND<0.25 U	0.25	97	35
ND<0.5 U	ND<0.25 U	0.25	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35
ND<0.5 U	ND<0.5 U	0	98	35

S Statistic = 98 - 35 = 63

Tied Group	**Value**	**Members**
1	0.5	19
2	0.25	7

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 15504
B = 0
C = 6024

D = 0
E = 384
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 1197
Z-Score = 1.79203
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.79203| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Total Xylenes

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<1.5 U	ND<0.5 U	1	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<0.75 U	ND<0.5 U	0.25	5	0
ND<0.75 U	ND<0.5 U	0.25	6	0
ND<0.75 U	ND<0.5 U	0.25	7	0
ND<0.75 U	ND<0.5 U	0.25	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<1 U	ND<0.5 U	0.5	12	0
ND<1 U	ND<0.5 U	0.5	13	0
ND<1 U	ND<0.5 U	0.5	14	0
ND<1 U	ND<0.5 U	0.5	15	0
ND<1 U	ND<0.5 U	0.5	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<0.75 U	ND<1.5 U	-0.75	16	1
ND<0.75 U	ND<1.5 U	-0.75	16	2
ND<0.75 U	ND<1.5 U	-0.75	16	3
ND<0.75 U	ND<1.5 U	-0.75	16	4
ND<0.75 U	ND<1.5 U	-0.75	16	5
ND<0.75 U	ND<1.5 U	-0.75	16	6
ND<0.75 U	ND<1.5 U	-0.75	16	7
ND<0.5 U	ND<1.5 U	-1	16	8
ND<0.5 U	ND<1.5 U	-1	16	9
ND<0.5 U	ND<1.5 U	-1	16	10
ND<0.5 U	ND<1.5 U	-1	16	11
ND<0.5 U	ND<1.5 U	-1	16	12
ND<0.5 U	ND<1.5 U	-1	16	13
ND<0.5 U	ND<1.5 U	-1	16	14
ND<0.5 U	ND<1.5 U	-1	16	15
ND<0.5 U	ND<1.5 U	-1	16	16
ND<0.5 U	ND<1.5 U	-1	16	17

ND<1 U	ND<1.5 U	-0.5	16	18
ND<1 U	ND<1.5 U	-0.5	16	19
ND<1 U	ND<1.5 U	-0.5	16	20
ND<1 U	ND<1.5 U	-0.5	16	21
ND<1 U	ND<1.5 U	-0.5	16	22
ND<1.5 U	ND<1.5 U	0	16	22
ND<1.5 U	ND<1.5 U	0	16	22
ND<0.75 U	ND<1.5 U	-0.75	16	23
ND<0.75 U	ND<1.5 U	-0.75	16	24
ND<0.75 U	ND<1.5 U	-0.75	16	25
ND<0.75 U	ND<1.5 U	-0.75	16	26
ND<0.75 U	ND<1.5 U	-0.75	16	27
ND<0.75 U	ND<1.5 U	-0.75	16	28
ND<0.75 U	ND<1.5 U	-0.75	16	29
ND<0.5 U	ND<1.5 U	-1	16	30
ND<0.5 U	ND<1.5 U	-1	16	31
ND<0.5 U	ND<1.5 U	-1	16	32
ND<0.5 U	ND<1.5 U	-1	16	33
ND<0.5 U	ND<1.5 U	-1	16	34
ND<0.5 U	ND<1.5 U	-1	16	35
ND<0.5 U	ND<1.5 U	-1	16	36
ND<0.5 U	ND<1.5 U	-1	16	37
ND<0.5 U	ND<1.5 U	-1	16	38
ND<0.5 U	ND<1.5 U	-1	16	39
ND<1 U	ND<1.5 U	-0.5	16	40
ND<1 U	ND<1.5 U	-0.5	16	41
ND<1 U	ND<1.5 U	-0.5	16	42
ND<1 U	ND<1.5 U	-0.5	16	43
ND<1 U	ND<1.5 U	-0.5	16	44
ND<1.5 U	ND<1.5 U	0	16	44
ND<0.75 U	ND<1.5 U	-0.75	16	45
ND<0.75 U	ND<1.5 U	-0.75	16	46
ND<0.75 U	ND<1.5 U	-0.75	16	47
ND<0.75 U	ND<1.5 U	-0.75	16	48
ND<0.75 U	ND<1.5 U	-0.75	16	49
ND<0.75 U	ND<1.5 U	-0.75	16	50
ND<0.75 U	ND<1.5 U	-0.75	16	51
ND<0.5 U	ND<1.5 U	-1	16	52
ND<0.5 U	ND<1.5 U	-1	16	53
ND<0.5 U	ND<1.5 U	-1	16	54
ND<0.5 U	ND<1.5 U	-1	16	55
ND<0.5 U	ND<1.5 U	-1	16	56
ND<0.5 U	ND<1.5 U	-1	16	57
ND<0.5 U	ND<1.5 U	-1	16	58
ND<0.5 U	ND<1.5 U	-1	16	59
ND<0.5 U	ND<1.5 U	-1	16	60
ND<0.5 U	ND<1.5 U	-1	16	61
ND<1 U	ND<1.5 U	-0.5	16	62
ND<1 U	ND<1.5 U	-0.5	16	63
ND<1 U	ND<1.5 U	-0.5	16	64
ND<1 U	ND<1.5 U	-0.5	16	65
ND<1 U	ND<1.5 U	-0.5	16	66
ND<0.75 U	ND<1.5 U	-0.75	16	67
ND<0.75 U	ND<1.5 U	-0.75	16	68

ND<0.75 U	ND<1.5 U	-0.75	16	69
ND<0.75 U	ND<1.5 U	-0.75	16	70
ND<0.75 U	ND<1.5 U	-0.75	16	71
ND<0.75 U	ND<1.5 U	-0.75	16	72
ND<0.75 U	ND<1.5 U	-0.75	16	73
ND<0.5 U	ND<1.5 U	-1	16	74
ND<0.5 U	ND<1.5 U	-1	16	75
ND<0.5 U	ND<1.5 U	-1	16	76
ND<0.5 U	ND<1.5 U	-1	16	77
ND<0.5 U	ND<1.5 U	-1	16	78
ND<0.5 U	ND<1.5 U	-1	16	79
ND<0.5 U	ND<1.5 U	-1	16	80
ND<0.5 U	ND<1.5 U	-1	16	81
ND<0.5 U	ND<1.5 U	-1	16	82
ND<0.5 U	ND<1.5 U	-1	16	83
ND<1 U	ND<1.5 U	-0.5	16	84
ND<1 U	ND<1.5 U	-0.5	16	85
ND<1 U	ND<1.5 U	-0.5	16	86
ND<1 U	ND<1.5 U	-0.5	16	87
ND<1 U	ND<1.5 U	-0.5	16	88

ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.5 U	ND<0.75 U	-0.25	16	89
ND<0.5 U	ND<0.75 U	-0.25	16	90
ND<0.5 U	ND<0.75 U	-0.25	16	91
ND<0.5 U	ND<0.75 U	-0.25	16	92
ND<0.5 U	ND<0.75 U	-0.25	16	93
ND<0.5 U	ND<0.75 U	-0.25	16	94
ND<0.5 U	ND<0.75 U	-0.25	16	95
ND<0.5 U	ND<0.75 U	-0.25	16	96
ND<0.5 U	ND<0.75 U	-0.25	16	97
ND<0.5 U	ND<0.75 U	-0.25	16	98
ND<1 U	ND<0.75 U	0.25	17	98
ND<1 U	ND<0.75 U	0.25	18	98
ND<1 U	ND<0.75 U	0.25	19	98
ND<1 U	ND<0.75 U	0.25	20	98
ND<1 U	ND<0.75 U	0.25	21	98

ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.5 U	ND<0.75 U	-0.25	21	99
ND<0.5 U	ND<0.75 U	-0.25	21	100
ND<0.5 U	ND<0.75 U	-0.25	21	101
ND<0.5 U	ND<0.75 U	-0.25	21	102
ND<0.5 U	ND<0.75 U	-0.25	21	103
ND<0.5 U	ND<0.75 U	-0.25	21	104
ND<0.5 U	ND<0.75 U	-0.25	21	105
ND<0.5 U	ND<0.75 U	-0.25	21	106
ND<0.5 U	ND<0.75 U	-0.25	21	107

ND<0.5 U	ND<0.75 U	-0.25	21	108
ND<1 U	ND<0.75 U	0.25	22	108
ND<1 U	ND<0.75 U	0.25	23	108
ND<1 U	ND<0.75 U	0.25	24	108
ND<1 U	ND<0.75 U	0.25	25	108
ND<1 U	ND<0.75 U	0.25	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.5 U	ND<0.75 U	-0.25	26	109
ND<0.5 U	ND<0.75 U	-0.25	26	110
ND<0.5 U	ND<0.75 U	-0.25	26	111
ND<0.5 U	ND<0.75 U	-0.25	26	112
ND<0.5 U	ND<0.75 U	-0.25	26	113
ND<0.5 U	ND<0.75 U	-0.25	26	114
ND<0.5 U	ND<0.75 U	-0.25	26	115
ND<0.5 U	ND<0.75 U	-0.25	26	116
ND<0.5 U	ND<0.75 U	-0.25	26	117
ND<0.5 U	ND<0.75 U	-0.25	26	118
ND<1 U	ND<0.75 U	0.25	27	118
ND<1 U	ND<0.75 U	0.25	28	118
ND<1 U	ND<0.75 U	0.25	29	118
ND<1 U	ND<0.75 U	0.25	30	118
ND<1 U	ND<0.75 U	0.25	31	118
ND<0.75 U	ND<0.75 U	0	31	118
ND<0.75 U	ND<0.75 U	0	31	118
ND<0.75 U	ND<0.75 U	0	31	118
ND<0.5 U	ND<0.75 U	-0.25	31	119
ND<0.5 U	ND<0.75 U	-0.25	31	120
ND<0.5 U	ND<0.75 U	-0.25	31	121
ND<0.5 U	ND<0.75 U	-0.25	31	122
ND<0.5 U	ND<0.75 U	-0.25	31	123
ND<0.5 U	ND<0.75 U	-0.25	31	124
ND<0.5 U	ND<0.75 U	-0.25	31	125
ND<0.5 U	ND<0.75 U	-0.25	31	126
ND<0.5 U	ND<0.75 U	-0.25	31	127
ND<0.5 U	ND<0.75 U	-0.25	31	128
ND<1 U	ND<0.75 U	0.25	32	128
ND<1 U	ND<0.75 U	0.25	33	128
ND<1 U	ND<0.75 U	0.25	34	128
ND<1 U	ND<0.75 U	0.25	35	128
ND<1 U	ND<0.75 U	0.25	36	128
ND<0.75 U	ND<0.75 U	0	36	128
ND<0.75 U	ND<0.75 U	0	36	128
ND<0.5 U	ND<0.75 U	-0.25	36	129
ND<0.5 U	ND<0.75 U	-0.25	36	130
ND<0.5 U	ND<0.75 U	-0.25	36	131
ND<0.5 U	ND<0.75 U	-0.25	36	132
ND<0.5 U	ND<0.75 U	-0.25	36	133
ND<0.5 U	ND<0.75 U	-0.25	36	134
ND<0.5 U	ND<0.75 U	-0.25	36	135
ND<0.5 U	ND<0.75 U	-0.25	36	136
ND<0.5 U	ND<0.75 U	-0.25	36	137

ND<0.5 U	ND<0.75 U	-0.25	36	138
ND<1 U	ND<0.75 U	0.25	37	138
ND<1 U	ND<0.75 U	0.25	38	138
ND<1 U	ND<0.75 U	0.25	39	138
ND<1 U	ND<0.75 U	0.25	40	138
ND<1 U	ND<0.75 U	0.25	41	138
ND<0.75 U	ND<0.75 U	0	41	138
ND<0.5 U	ND<0.75 U	-0.25	41	139
ND<0.5 U	ND<0.75 U	-0.25	41	140
ND<0.5 U	ND<0.75 U	-0.25	41	141
ND<0.5 U	ND<0.75 U	-0.25	41	142
ND<0.5 U	ND<0.75 U	-0.25	41	143
ND<0.5 U	ND<0.75 U	-0.25	41	144
ND<0.5 U	ND<0.75 U	-0.25	41	145
ND<0.5 U	ND<0.75 U	-0.25	41	146
ND<0.5 U	ND<0.75 U	-0.25	41	147
ND<0.5 U	ND<0.75 U	-0.25	41	148
ND<1 U	ND<0.75 U	0.25	42	148
ND<1 U	ND<0.75 U	0.25	43	148
ND<1 U	ND<0.75 U	0.25	44	148
ND<1 U	ND<0.75 U	0.25	45	148
ND<1 U	ND<0.75 U	0.25	46	148
ND<0.5 U	ND<0.75 U	-0.25	46	149
ND<0.5 U	ND<0.75 U	-0.25	46	150
ND<0.5 U	ND<0.75 U	-0.25	46	151
ND<0.5 U	ND<0.75 U	-0.25	46	152
ND<0.5 U	ND<0.75 U	-0.25	46	153
ND<0.5 U	ND<0.75 U	-0.25	46	154
ND<0.5 U	ND<0.75 U	-0.25	46	155
ND<0.5 U	ND<0.75 U	-0.25	46	156
ND<0.5 U	ND<0.75 U	-0.25	46	157
ND<0.5 U	ND<0.75 U	-0.25	46	158
ND<1 U	ND<0.75 U	0.25	47	158
ND<1 U	ND<0.75 U	0.25	48	158
ND<1 U	ND<0.75 U	0.25	49	158
ND<1 U	ND<0.75 U	0.25	50	158
ND<1 U	ND<0.75 U	0.25	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<1 U	ND<0.5 U	0.5	52	158
ND<1 U	ND<0.5 U	0.5	53	158
ND<1 U	ND<0.5 U	0.5	54	158
ND<1 U	ND<0.5 U	0.5	55	158
ND<1 U	ND<0.5 U	0.5	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158

ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<1 U	ND<0.5 U	0.5	57	158
ND<1 U	ND<0.5 U	0.5	58	158
ND<1 U	ND<0.5 U	0.5	59	158
ND<1 U	ND<0.5 U	0.5	60	158
ND<1 U	ND<0.5 U	0.5	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<1 U	ND<0.5 U	0.5	62	158
ND<1 U	ND<0.5 U	0.5	63	158
ND<1 U	ND<0.5 U	0.5	64	158
ND<1 U	ND<0.5 U	0.5	65	158
ND<1 U	ND<0.5 U	0.5	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<1 U	ND<0.5 U	0.5	67	158
ND<1 U	ND<0.5 U	0.5	68	158
ND<1 U	ND<0.5 U	0.5	69	158
ND<1 U	ND<0.5 U	0.5	70	158
ND<1 U	ND<0.5 U	0.5	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<1 U	ND<0.5 U	0.5	72	158
ND<1 U	ND<0.5 U	0.5	73	158
ND<1 U	ND<0.5 U	0.5	74	158
ND<1 U	ND<0.5 U	0.5	75	158
ND<1 U	ND<0.5 U	0.5	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<1 U	ND<0.5 U	0.5	77	158
ND<1 U	ND<0.5 U	0.5	78	158
ND<1 U	ND<0.5 U	0.5	79	158
ND<1 U	ND<0.5 U	0.5	80	158
ND<1 U	ND<0.5 U	0.5	81	158

ND<0.5 U	ND<0.5 U	0	81	158
ND<0.5 U	ND<0.5 U	0	81	158
ND<0.5 U	ND<0.5 U	0	81	158
ND<1 U	ND<0.5 U	0.5	82	158
ND<1 U	ND<0.5 U	0.5	83	158
ND<1 U	ND<0.5 U	0.5	84	158
ND<1 U	ND<0.5 U	0.5	85	158
ND<1 U	ND<0.5 U	0.5	86	158
ND<0.5 U	ND<0.5 U	0	86	158
ND<0.5 U	ND<0.5 U	0	86	158
ND<1 U	ND<0.5 U	0.5	87	158
ND<1 U	ND<0.5 U	0.5	88	158
ND<1 U	ND<0.5 U	0.5	89	158
ND<1 U	ND<0.5 U	0.5	90	158
ND<1 U	ND<0.5 U	0.5	91	158
ND<0.5 U	ND<0.5 U	0	91	158
ND<1 U	ND<0.5 U	0.5	92	158
ND<1 U	ND<0.5 U	0.5	93	158
ND<1 U	ND<0.5 U	0.5	94	158
ND<1 U	ND<0.5 U	0.5	95	158
ND<1 U	ND<0.5 U	0.5	96	158
ND<1 U	ND<0.5 U	0.5	97	158
ND<1 U	ND<0.5 U	0.5	98	158
ND<1 U	ND<0.5 U	0.5	99	158
ND<1 U	ND<0.5 U	0.5	100	158
ND<1 U	ND<0.5 U	0.5	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158

S Statistic = 101 - 158 = -57

Tied Group	**Value**	**Members**
1	0.5	11
2	1.5	4
3	0.75	7
4	1	5

Time Period	**Observations**
11/24/2009	1
3/4/2010	1

4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 4224
B = 0
C = 1284
D = 0
E = 184
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2066.33
Z-Score = -1.23194
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.23194| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Total Xylenes

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<1.5 U	ND<0.5 U	1	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<0.75 U	ND<0.5 U	0.25	5	0
ND<0.75 U	ND<0.5 U	0.25	6	0
ND<0.75 U	ND<0.5 U	0.25	7	0
ND<0.75 U	ND<0.5 U	0.25	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<1 U	ND<0.5 U	0.5	12	0
ND<1 U	ND<0.5 U	0.5	13	0
ND<1 U	ND<0.5 U	0.5	14	0
ND<1 U	ND<0.5 U	0.5	15	0
ND<1 U	ND<0.5 U	0.5	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<0.75 U	ND<1.5 U	-0.75	16	1
ND<0.75 U	ND<1.5 U	-0.75	16	2
ND<0.75 U	ND<1.5 U	-0.75	16	3
ND<0.75 U	ND<1.5 U	-0.75	16	4
ND<0.75 U	ND<1.5 U	-0.75	16	5
ND<0.75 U	ND<1.5 U	-0.75	16	6
ND<0.75 U	ND<1.5 U	-0.75	16	7
ND<0.5 U	ND<1.5 U	-1	16	8
ND<0.5 U	ND<1.5 U	-1	16	9
ND<0.5 U	ND<1.5 U	-1	16	10
ND<0.5 U	ND<1.5 U	-1	16	11
ND<0.5 U	ND<1.5 U	-1	16	12
ND<0.5 U	ND<1.5 U	-1	16	13
ND<0.5 U	ND<1.5 U	-1	16	14
ND<0.5 U	ND<1.5 U	-1	16	15
ND<0.5 U	ND<1.5 U	-1	16	16
ND<0.5 U	ND<1.5 U	-1	16	17

ND<1 U	ND<1.5 U	-0.5	16	18
ND<1 U	ND<1.5 U	-0.5	16	19
ND<1 U	ND<1.5 U	-0.5	16	20
ND<1 U	ND<1.5 U	-0.5	16	21
ND<1 U	ND<1.5 U	-0.5	16	22

ND<1.5 U	ND<1.5 U	0	16	22
ND<1.5 U	ND<1.5 U	0	16	22
ND<0.75 U	ND<1.5 U	-0.75	16	23
ND<0.75 U	ND<1.5 U	-0.75	16	24
ND<0.75 U	ND<1.5 U	-0.75	16	25
ND<0.75 U	ND<1.5 U	-0.75	16	26
ND<0.75 U	ND<1.5 U	-0.75	16	27
ND<0.75 U	ND<1.5 U	-0.75	16	28
ND<0.75 U	ND<1.5 U	-0.75	16	29
ND<0.5 U	ND<1.5 U	-1	16	30
ND<0.5 U	ND<1.5 U	-1	16	31
ND<0.5 U	ND<1.5 U	-1	16	32
ND<0.5 U	ND<1.5 U	-1	16	33
ND<0.5 U	ND<1.5 U	-1	16	34
ND<0.5 U	ND<1.5 U	-1	16	35
ND<0.5 U	ND<1.5 U	-1	16	36
ND<0.5 U	ND<1.5 U	-1	16	37
ND<0.5 U	ND<1.5 U	-1	16	38
ND<0.5 U	ND<1.5 U	-1	16	39
ND<1 U	ND<1.5 U	-0.5	16	40
ND<1 U	ND<1.5 U	-0.5	16	41
ND<1 U	ND<1.5 U	-0.5	16	42
ND<1 U	ND<1.5 U	-0.5	16	43
ND<1 U	ND<1.5 U	-0.5	16	44

ND<1.5 U	ND<1.5 U	0	16	44
ND<0.75 U	ND<1.5 U	-0.75	16	45
ND<0.75 U	ND<1.5 U	-0.75	16	46
ND<0.75 U	ND<1.5 U	-0.75	16	47
ND<0.75 U	ND<1.5 U	-0.75	16	48
ND<0.75 U	ND<1.5 U	-0.75	16	49
ND<0.75 U	ND<1.5 U	-0.75	16	50
ND<0.75 U	ND<1.5 U	-0.75	16	51
ND<0.5 U	ND<1.5 U	-1	16	52
ND<0.5 U	ND<1.5 U	-1	16	53
ND<0.5 U	ND<1.5 U	-1	16	54
ND<0.5 U	ND<1.5 U	-1	16	55
ND<0.5 U	ND<1.5 U	-1	16	56
ND<0.5 U	ND<1.5 U	-1	16	57
ND<0.5 U	ND<1.5 U	-1	16	58
ND<0.5 U	ND<1.5 U	-1	16	59
ND<0.5 U	ND<1.5 U	-1	16	60
ND<0.5 U	ND<1.5 U	-1	16	61
ND<1 U	ND<1.5 U	-0.5	16	62
ND<1 U	ND<1.5 U	-0.5	16	63
ND<1 U	ND<1.5 U	-0.5	16	64
ND<1 U	ND<1.5 U	-0.5	16	65
ND<1 U	ND<1.5 U	-0.5	16	66

ND<0.75 U	ND<1.5 U	-0.75	16	67
ND<0.75 U	ND<1.5 U	-0.75	16	68

ND<0.75 U	ND<1.5 U	-0.75	16	69
ND<0.75 U	ND<1.5 U	-0.75	16	70
ND<0.75 U	ND<1.5 U	-0.75	16	71
ND<0.75 U	ND<1.5 U	-0.75	16	72
ND<0.75 U	ND<1.5 U	-0.75	16	73
ND<0.5 U	ND<1.5 U	-1	16	74
ND<0.5 U	ND<1.5 U	-1	16	75
ND<0.5 U	ND<1.5 U	-1	16	76
ND<0.5 U	ND<1.5 U	-1	16	77
ND<0.5 U	ND<1.5 U	-1	16	78
ND<0.5 U	ND<1.5 U	-1	16	79
ND<0.5 U	ND<1.5 U	-1	16	80
ND<0.5 U	ND<1.5 U	-1	16	81
ND<0.5 U	ND<1.5 U	-1	16	82
ND<0.5 U	ND<1.5 U	-1	16	83
ND<1 U	ND<1.5 U	-0.5	16	84
ND<1 U	ND<1.5 U	-0.5	16	85
ND<1 U	ND<1.5 U	-0.5	16	86
ND<1 U	ND<1.5 U	-0.5	16	87
ND<1 U	ND<1.5 U	-0.5	16	88

ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.75 U	ND<0.75 U	0	16	88
ND<0.5 U	ND<0.75 U	-0.25	16	89
ND<0.5 U	ND<0.75 U	-0.25	16	90
ND<0.5 U	ND<0.75 U	-0.25	16	91
ND<0.5 U	ND<0.75 U	-0.25	16	92
ND<0.5 U	ND<0.75 U	-0.25	16	93
ND<0.5 U	ND<0.75 U	-0.25	16	94
ND<0.5 U	ND<0.75 U	-0.25	16	95
ND<0.5 U	ND<0.75 U	-0.25	16	96
ND<0.5 U	ND<0.75 U	-0.25	16	97
ND<0.5 U	ND<0.75 U	-0.25	16	98
ND<1 U	ND<0.75 U	0.25	17	98
ND<1 U	ND<0.75 U	0.25	18	98
ND<1 U	ND<0.75 U	0.25	19	98
ND<1 U	ND<0.75 U	0.25	20	98
ND<1 U	ND<0.75 U	0.25	21	98

ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.75 U	ND<0.75 U	0	21	98
ND<0.5 U	ND<0.75 U	-0.25	21	99
ND<0.5 U	ND<0.75 U	-0.25	21	100
ND<0.5 U	ND<0.75 U	-0.25	21	101
ND<0.5 U	ND<0.75 U	-0.25	21	102
ND<0.5 U	ND<0.75 U	-0.25	21	103
ND<0.5 U	ND<0.75 U	-0.25	21	104
ND<0.5 U	ND<0.75 U	-0.25	21	105
ND<0.5 U	ND<0.75 U	-0.25	21	106
ND<0.5 U	ND<0.75 U	-0.25	21	107

ND<0.5 U	ND<0.75 U	-0.25	21	108
ND<1 U	ND<0.75 U	0.25	22	108
ND<1 U	ND<0.75 U	0.25	23	108
ND<1 U	ND<0.75 U	0.25	24	108
ND<1 U	ND<0.75 U	0.25	25	108
ND<1 U	ND<0.75 U	0.25	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.75 U	ND<0.75 U	0	26	108
ND<0.5 U	ND<0.75 U	-0.25	26	109
ND<0.5 U	ND<0.75 U	-0.25	26	110
ND<0.5 U	ND<0.75 U	-0.25	26	111
ND<0.5 U	ND<0.75 U	-0.25	26	112
ND<0.5 U	ND<0.75 U	-0.25	26	113
ND<0.5 U	ND<0.75 U	-0.25	26	114
ND<0.5 U	ND<0.75 U	-0.25	26	115
ND<0.5 U	ND<0.75 U	-0.25	26	116
ND<0.5 U	ND<0.75 U	-0.25	26	117
ND<0.5 U	ND<0.75 U	-0.25	26	118
ND<1 U	ND<0.75 U	0.25	27	118
ND<1 U	ND<0.75 U	0.25	28	118
ND<1 U	ND<0.75 U	0.25	29	118
ND<1 U	ND<0.75 U	0.25	30	118
ND<1 U	ND<0.75 U	0.25	31	118
ND<0.75 U	ND<0.75 U	0	31	118
ND<0.75 U	ND<0.75 U	0	31	118
ND<0.75 U	ND<0.75 U	0	31	118
ND<0.5 U	ND<0.75 U	-0.25	31	119
ND<0.5 U	ND<0.75 U	-0.25	31	120
ND<0.5 U	ND<0.75 U	-0.25	31	121
ND<0.5 U	ND<0.75 U	-0.25	31	122
ND<0.5 U	ND<0.75 U	-0.25	31	123
ND<0.5 U	ND<0.75 U	-0.25	31	124
ND<0.5 U	ND<0.75 U	-0.25	31	125
ND<0.5 U	ND<0.75 U	-0.25	31	126
ND<0.5 U	ND<0.75 U	-0.25	31	127
ND<0.5 U	ND<0.75 U	-0.25	31	128
ND<1 U	ND<0.75 U	0.25	32	128
ND<1 U	ND<0.75 U	0.25	33	128
ND<1 U	ND<0.75 U	0.25	34	128
ND<1 U	ND<0.75 U	0.25	35	128
ND<1 U	ND<0.75 U	0.25	36	128
ND<0.75 U	ND<0.75 U	0	36	128
ND<0.75 U	ND<0.75 U	0	36	128
ND<0.5 U	ND<0.75 U	-0.25	36	129
ND<0.5 U	ND<0.75 U	-0.25	36	130
ND<0.5 U	ND<0.75 U	-0.25	36	131
ND<0.5 U	ND<0.75 U	-0.25	36	132
ND<0.5 U	ND<0.75 U	-0.25	36	133
ND<0.5 U	ND<0.75 U	-0.25	36	134
ND<0.5 U	ND<0.75 U	-0.25	36	135
ND<0.5 U	ND<0.75 U	-0.25	36	136
ND<0.5 U	ND<0.75 U	-0.25	36	137

ND<0.5 U	ND<0.75 U	-0.25	36	138
ND<1 U	ND<0.75 U	0.25	37	138
ND<1 U	ND<0.75 U	0.25	38	138
ND<1 U	ND<0.75 U	0.25	39	138
ND<1 U	ND<0.75 U	0.25	40	138
ND<1 U	ND<0.75 U	0.25	41	138
ND<0.75 U	ND<0.75 U	0	41	138
ND<0.5 U	ND<0.75 U	-0.25	41	139
ND<0.5 U	ND<0.75 U	-0.25	41	140
ND<0.5 U	ND<0.75 U	-0.25	41	141
ND<0.5 U	ND<0.75 U	-0.25	41	142
ND<0.5 U	ND<0.75 U	-0.25	41	143
ND<0.5 U	ND<0.75 U	-0.25	41	144
ND<0.5 U	ND<0.75 U	-0.25	41	145
ND<0.5 U	ND<0.75 U	-0.25	41	146
ND<0.5 U	ND<0.75 U	-0.25	41	147
ND<0.5 U	ND<0.75 U	-0.25	41	148
ND<1 U	ND<0.75 U	0.25	42	148
ND<1 U	ND<0.75 U	0.25	43	148
ND<1 U	ND<0.75 U	0.25	44	148
ND<1 U	ND<0.75 U	0.25	45	148
ND<1 U	ND<0.75 U	0.25	46	148
ND<0.5 U	ND<0.75 U	-0.25	46	149
ND<0.5 U	ND<0.75 U	-0.25	46	150
ND<0.5 U	ND<0.75 U	-0.25	46	151
ND<0.5 U	ND<0.75 U	-0.25	46	152
ND<0.5 U	ND<0.75 U	-0.25	46	153
ND<0.5 U	ND<0.75 U	-0.25	46	154
ND<0.5 U	ND<0.75 U	-0.25	46	155
ND<0.5 U	ND<0.75 U	-0.25	46	156
ND<0.5 U	ND<0.75 U	-0.25	46	157
ND<0.5 U	ND<0.75 U	-0.25	46	158
ND<1 U	ND<0.75 U	0.25	47	158
ND<1 U	ND<0.75 U	0.25	48	158
ND<1 U	ND<0.75 U	0.25	49	158
ND<1 U	ND<0.75 U	0.25	50	158
ND<1 U	ND<0.75 U	0.25	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<0.5 U	ND<0.5 U	0	51	158
ND<1 U	ND<0.5 U	0.5	52	158
ND<1 U	ND<0.5 U	0.5	53	158
ND<1 U	ND<0.5 U	0.5	54	158
ND<1 U	ND<0.5 U	0.5	55	158
ND<1 U	ND<0.5 U	0.5	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158

ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<0.5 U	ND<0.5 U	0	56	158
ND<1 U	ND<0.5 U	0.5	57	158
ND<1 U	ND<0.5 U	0.5	58	158
ND<1 U	ND<0.5 U	0.5	59	158
ND<1 U	ND<0.5 U	0.5	60	158
ND<1 U	ND<0.5 U	0.5	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<0.5 U	ND<0.5 U	0	61	158
ND<1 U	ND<0.5 U	0.5	62	158
ND<1 U	ND<0.5 U	0.5	63	158
ND<1 U	ND<0.5 U	0.5	64	158
ND<1 U	ND<0.5 U	0.5	65	158
ND<1 U	ND<0.5 U	0.5	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<0.5 U	ND<0.5 U	0	66	158
ND<1 U	ND<0.5 U	0.5	67	158
ND<1 U	ND<0.5 U	0.5	68	158
ND<1 U	ND<0.5 U	0.5	69	158
ND<1 U	ND<0.5 U	0.5	70	158
ND<1 U	ND<0.5 U	0.5	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<0.5 U	ND<0.5 U	0	71	158
ND<1 U	ND<0.5 U	0.5	72	158
ND<1 U	ND<0.5 U	0.5	73	158
ND<1 U	ND<0.5 U	0.5	74	158
ND<1 U	ND<0.5 U	0.5	75	158
ND<1 U	ND<0.5 U	0.5	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<0.5 U	ND<0.5 U	0	76	158
ND<1 U	ND<0.5 U	0.5	77	158
ND<1 U	ND<0.5 U	0.5	78	158
ND<1 U	ND<0.5 U	0.5	79	158
ND<1 U	ND<0.5 U	0.5	80	158
ND<1 U	ND<0.5 U	0.5	81	158

ND<0.5 U	ND<0.5 U	0	81	158
ND<0.5 U	ND<0.5 U	0	81	158
ND<0.5 U	ND<0.5 U	0	81	158
ND<1 U	ND<0.5 U	0.5	82	158
ND<1 U	ND<0.5 U	0.5	83	158
ND<1 U	ND<0.5 U	0.5	84	158
ND<1 U	ND<0.5 U	0.5	85	158
ND<1 U	ND<0.5 U	0.5	86	158
ND<0.5 U	ND<0.5 U	0	86	158
ND<0.5 U	ND<0.5 U	0	86	158
ND<1 U	ND<0.5 U	0.5	87	158
ND<1 U	ND<0.5 U	0.5	88	158
ND<1 U	ND<0.5 U	0.5	89	158
ND<1 U	ND<0.5 U	0.5	90	158
ND<1 U	ND<0.5 U	0.5	91	158
ND<0.5 U	ND<0.5 U	0	91	158
ND<1 U	ND<0.5 U	0.5	92	158
ND<1 U	ND<0.5 U	0.5	93	158
ND<1 U	ND<0.5 U	0.5	94	158
ND<1 U	ND<0.5 U	0.5	95	158
ND<1 U	ND<0.5 U	0.5	96	158
ND<1 U	ND<0.5 U	0.5	97	158
ND<1 U	ND<0.5 U	0.5	98	158
ND<1 U	ND<0.5 U	0.5	99	158
ND<1 U	ND<0.5 U	0.5	100	158
ND<1 U	ND<0.5 U	0.5	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158
ND<1 U	ND<1 U	0	101	158

S Statistic = 101 - 158 = -57

Tied Group	**Value**	**Members**
1	0.5	11
2	1.5	4
3	0.75	7
4	1	5

Time Period	**Observations**
11/25/2009	1
3/4/2010	1

```
4/30/2010                    1
7/26/2010                    1
10/13/2010                   1
1/14/2011                    1
4/21/2011                    1
7/21/2011                    1
10/31/2011                   1
1/13/2012                    1
4/27/2012                    1
7/26/2012                    1
10/18/2012                   1
1/29/2013                    1
7/29/2013                    1
1/31/2014                    1
7/17/2014                    1
1/27/2015                    1
7/21/2015                    1
1/27/2016                    1
7/26/2016                    1
1/30/2017                    1
7/24/2017                    1
1/29/2018                    1
7/24/2018                    1
1/30/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 4224
B = 0
C = 1284
D = 0
E = 184
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2066.33
Z-Score = -1.23194
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.23194| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Xylenes
Location: MW-3

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<2 U	ND<0.5 U	1.5	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<0.5 U	ND<0.5 U	0	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<0.75 U	ND<0.5 U	0.25	5	0
ND<0.75 U	ND<0.5 U	0.25	6	0
ND<1.5 U	ND<0.5 U	1	7	0
ND<0.75 U	ND<0.5 U	0.25	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
ND<0.75 U	ND<0.5 U	0.25	12	0
ND<0.75 U	ND<0.5 U	0.25	13	0
ND<0.75 U	ND<0.5 U	0.25	14	0
ND<0.75 U	ND<0.5 U	0.25	15	0
ND<0.75 U	ND<0.5 U	0.25	16	0
ND<0.75 U	ND<0.5 U	0.25	17	0
ND<0.75 U	ND<0.5 U	0.25	18	0
ND<0.75 U	ND<0.5 U	0.25	19	0
ND<0.75 U	ND<0.5 U	0.25	20	0
ND<0.75 U	ND<0.5 U	0.25	21	0
ND<0.75 U	ND<0.5 U	0.25	22	0
ND<0.75 U	ND<0.5 U	0.25	23	0
ND<0.75 U	ND<0.5 U	0.25	24	0
ND<0.75 U	ND<0.5 U	0.25	25	0
ND<0.75 U	ND<0.5 U	0.25	26	0
ND<0.75 U	ND<0.5 U	0.25	27	0
ND<0.75 U	ND<0.5 U	0.25	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<1 U	ND<0.5 U	0.5	29	0

ND<1 U	ND<0.5 U	0.5	30	0
ND<1 U	ND<0.5 U	0.5	31	0
ND<1 U	ND<0.5 U	0.5	32	0
ND<1 U	ND<0.5 U	0.5	33	0
ND<2 U	ND<0.5 U	1.5	34	0
ND<1.5 U	ND<0.5 U	1	35	0
ND<0.5 U	ND<0.5 U	0	35	0
ND<1.5 U	ND<0.5 U	1	36	0
ND<0.5 U	ND<0.5 U	0	36	0
ND<0.5 U	ND<0.5 U	0	36	0
ND<1.5 U	ND<0.5 U	1	37	0
ND<0.75 U	ND<0.5 U	0.25	38	0
ND<0.75 U	ND<0.5 U	0.25	39	0
ND<1.5 U	ND<0.5 U	1	40	0
ND<0.75 U	ND<0.5 U	0.25	41	0
ND<0.75 U	ND<0.5 U	0.25	42	0
ND<0.75 U	ND<0.5 U	0.25	43	0
ND<0.75 U	ND<0.5 U	0.25	44	0
ND<0.75 U	ND<0.5 U	0.25	45	0
ND<0.75 U	ND<0.5 U	0.25	46	0
ND<0.75 U	ND<0.5 U	0.25	47	0
ND<0.75 U	ND<0.5 U	0.25	48	0
ND<0.75 U	ND<0.5 U	0.25	49	0
ND<0.75 U	ND<0.5 U	0.25	50	0
ND<0.75 U	ND<0.5 U	0.25	51	0
ND<0.75 U	ND<0.5 U	0.25	52	0
ND<0.75 U	ND<0.5 U	0.25	53	0
ND<0.75 U	ND<0.5 U	0.25	54	0
ND<0.75 U	ND<0.5 U	0.25	55	0
ND<0.75 U	ND<0.5 U	0.25	56	0
ND<0.75 U	ND<0.5 U	0.25	57	0
ND<0.75 U	ND<0.5 U	0.25	58	0
ND<0.75 U	ND<0.5 U	0.25	59	0
ND<0.75 U	ND<0.5 U	0.25	60	0
ND<0.75 U	ND<0.5 U	0.25	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<1 U	ND<0.5 U	0.5	62	0
ND<1 U	ND<0.5 U	0.5	63	0
ND<1 U	ND<0.5 U	0.5	64	0
ND<1 U	ND<0.5 U	0.5	65	0
ND<1 U	ND<0.5 U	0.5	66	0
ND<1.5 U	ND<2 U	-0.5	66	1

ND<0.5 U	ND<2 U	-1.5	66	2
ND<1.5 U	ND<2 U	-0.5	66	3
ND<0.5 U	ND<2 U	-1.5	66	4
ND<0.5 U	ND<2 U	-1.5	66	5
ND<1.5 U	ND<2 U	-0.5	66	6
ND<0.75 U	ND<2 U	-1.25	66	7
ND<0.75 U	ND<2 U	-1.25	66	8
ND<1.5 U	ND<2 U	-0.5	66	9
ND<0.75 U	ND<2 U	-1.25	66	10
ND<0.75 U	ND<2 U	-1.25	66	11
ND<0.75 U	ND<2 U	-1.25	66	12
ND<0.75 U	ND<2 U	-1.25	66	13
ND<0.75 U	ND<2 U	-1.25	66	14
ND<0.75 U	ND<2 U	-1.25	66	15
ND<0.75 U	ND<2 U	-1.25	66	16
ND<0.75 U	ND<2 U	-1.25	66	17
ND<0.75 U	ND<2 U	-1.25	66	18
ND<0.75 U	ND<2 U	-1.25	66	19
ND<0.75 U	ND<2 U	-1.25	66	20
ND<0.75 U	ND<2 U	-1.25	66	21
ND<0.75 U	ND<2 U	-1.25	66	22
ND<0.75 U	ND<2 U	-1.25	66	23
ND<0.75 U	ND<2 U	-1.25	66	24
ND<0.75 U	ND<2 U	-1.25	66	25
ND<0.75 U	ND<2 U	-1.25	66	26
ND<0.75 U	ND<2 U	-1.25	66	27
ND<0.75 U	ND<2 U	-1.25	66	28
ND<0.75 U	ND<2 U	-1.25	66	29
ND<0.75 U	ND<2 U	-1.25	66	30
ND<0.5 U	ND<2 U	-1.5	66	31
ND<0.5 U	ND<2 U	-1.5	66	32
ND<0.5 U	ND<2 U	-1.5	66	33
ND<0.5 U	ND<2 U	-1.5	66	34
ND<0.5 U	ND<2 U	-1.5	66	35
ND<0.5 U	ND<2 U	-1.5	66	36
ND<0.5 U	ND<2 U	-1.5	66	37
ND<0.5 U	ND<2 U	-1.5	66	38
ND<0.5 U	ND<2 U	-1.5	66	39
ND<0.5 U	ND<2 U	-1.5	66	40
ND<0.5 U	ND<2 U	-1.5	66	41
ND<0.5 U	ND<2 U	-1.5	66	42
ND<0.5 U	ND<2 U	-1.5	66	43
ND<0.5 U	ND<2 U	-1.5	66	44
ND<1 U	ND<2 U	-1	66	45
ND<1 U	ND<2 U	-1	66	46
ND<1 U	ND<2 U	-1	66	47
ND<1 U	ND<2 U	-1	66	48
ND<1 U	ND<2 U	-1	66	49
ND<0.5 U	ND<1.5 U	-1	66	50
ND<1.5 U	ND<1.5 U	0	66	50
ND<0.5 U	ND<1.5 U	-1	66	51
ND<0.5 U	ND<1.5 U	-1	66	52
ND<1.5 U	ND<1.5 U	0	66	52
ND<0.75 U	ND<1.5 U	-0.75	66	53
ND<0.75 U	ND<1.5 U	-0.75	66	54
ND<1.5 U	ND<1.5 U	0	66	54

ND<0.75 U	ND<1.5 U	-0.75	66	55
ND<0.75 U	ND<1.5 U	-0.75	66	56
ND<0.75 U	ND<1.5 U	-0.75	66	57
ND<0.75 U	ND<1.5 U	-0.75	66	58
ND<0.75 U	ND<1.5 U	-0.75	66	59
ND<0.75 U	ND<1.5 U	-0.75	66	60
ND<0.75 U	ND<1.5 U	-0.75	66	61
ND<0.75 U	ND<1.5 U	-0.75	66	62
ND<0.75 U	ND<1.5 U	-0.75	66	63
ND<0.75 U	ND<1.5 U	-0.75	66	64
ND<0.75 U	ND<1.5 U	-0.75	66	65
ND<0.75 U	ND<1.5 U	-0.75	66	66
ND<0.75 U	ND<1.5 U	-0.75	66	67
ND<0.75 U	ND<1.5 U	-0.75	66	68
ND<0.75 U	ND<1.5 U	-0.75	66	69
ND<0.75 U	ND<1.5 U	-0.75	66	70
ND<0.75 U	ND<1.5 U	-0.75	66	71
ND<0.75 U	ND<1.5 U	-0.75	66	72
ND<0.75 U	ND<1.5 U	-0.75	66	73
ND<0.75 U	ND<1.5 U	-0.75	66	74
ND<0.75 U	ND<1.5 U	-0.75	66	75
ND<0.5 U	ND<1.5 U	-1	66	76
ND<0.5 U	ND<1.5 U	-1	66	77
ND<0.5 U	ND<1.5 U	-1	66	78
ND<0.5 U	ND<1.5 U	-1	66	79
ND<0.5 U	ND<1.5 U	-1	66	80
ND<0.5 U	ND<1.5 U	-1	66	81
ND<0.5 U	ND<1.5 U	-1	66	82
ND<0.5 U	ND<1.5 U	-1	66	83
ND<0.5 U	ND<1.5 U	-1	66	84
ND<0.5 U	ND<1.5 U	-1	66	85
ND<0.5 U	ND<1.5 U	-1	66	86
ND<0.5 U	ND<1.5 U	-1	66	87
ND<0.5 U	ND<1.5 U	-1	66	88
ND<0.5 U	ND<1.5 U	-1	66	89
ND<1 U	ND<1.5 U	-0.5	66	90
ND<1 U	ND<1.5 U	-0.5	66	91
ND<1 U	ND<1.5 U	-0.5	66	92
ND<1 U	ND<1.5 U	-0.5	66	93
ND<1 U	ND<1.5 U	-0.5	66	94
ND<1.5 U	ND<0.5 U	1	67	94
ND<0.5 U	ND<0.5 U	0	67	94
ND<0.5 U	ND<0.5 U	0	67	94
ND<1.5 U	ND<0.5 U	1	68	94
ND<0.75 U	ND<0.5 U	0.25	69	94
ND<0.75 U	ND<0.5 U	0.25	70	94
ND<1.5 U	ND<0.5 U	1	71	94
ND<0.75 U	ND<0.5 U	0.25	72	94
ND<0.75 U	ND<0.5 U	0.25	73	94
ND<0.75 U	ND<0.5 U	0.25	74	94
ND<0.75 U	ND<0.5 U	0.25	75	94
ND<0.75 U	ND<0.5 U	0.25	76	94
ND<0.75 U	ND<0.5 U	0.25	77	94
ND<0.75 U	ND<0.5 U	0.25	78	94
ND<0.75 U	ND<0.5 U	0.25	79	94
ND<0.75 U	ND<0.5 U	0.25	80	94

ND<0.75 U	ND<0.5 U	0.25	81	94
ND<0.75 U	ND<0.5 U	0.25	82	94
ND<0.75 U	ND<0.5 U	0.25	83	94
ND<0.75 U	ND<0.5 U	0.25	84	94
ND<0.75 U	ND<0.5 U	0.25	85	94
ND<0.75 U	ND<0.5 U	0.25	86	94
ND<0.75 U	ND<0.5 U	0.25	87	94
ND<0.75 U	ND<0.5 U	0.25	88	94
ND<0.75 U	ND<0.5 U	0.25	89	94
ND<0.75 U	ND<0.5 U	0.25	90	94
ND<0.75 U	ND<0.5 U	0.25	91	94
ND<0.75 U	ND<0.5 U	0.25	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<0.5 U	ND<0.5 U	0	92	94
ND<1 U	ND<0.5 U	0.5	93	94
ND<1 U	ND<0.5 U	0.5	94	94
ND<1 U	ND<0.5 U	0.5	95	94
ND<1 U	ND<0.5 U	0.5	96	94
ND<1 U	ND<0.5 U	0.5	97	94

ND<0.5 U	ND<1.5 U	-1	97	95
ND<0.5 U	ND<1.5 U	-1	97	96
ND<1.5 U	ND<1.5 U	0	97	96
ND<0.75 U	ND<1.5 U	-0.75	97	97
ND<0.75 U	ND<1.5 U	-0.75	97	98
ND<1.5 U	ND<1.5 U	0	97	98
ND<0.75 U	ND<1.5 U	-0.75	97	99
ND<0.75 U	ND<1.5 U	-0.75	97	100
ND<0.75 U	ND<1.5 U	-0.75	97	101
ND<0.75 U	ND<1.5 U	-0.75	97	102
ND<0.75 U	ND<1.5 U	-0.75	97	103
ND<0.75 U	ND<1.5 U	-0.75	97	104
ND<0.75 U	ND<1.5 U	-0.75	97	105
ND<0.75 U	ND<1.5 U	-0.75	97	106
ND<0.75 U	ND<1.5 U	-0.75	97	107
ND<0.75 U	ND<1.5 U	-0.75	97	108
ND<0.75 U	ND<1.5 U	-0.75	97	109
ND<0.75 U	ND<1.5 U	-0.75	97	110
ND<0.75 U	ND<1.5 U	-0.75	97	111
ND<0.75 U	ND<1.5 U	-0.75	97	112
ND<0.75 U	ND<1.5 U	-0.75	97	113
ND<0.75 U	ND<1.5 U	-0.75	97	114
ND<0.75 U	ND<1.5 U	-0.75	97	115
ND<0.75 U	ND<1.5 U	-0.75	97	116
ND<0.75 U	ND<1.5 U	-0.75	97	117

ND<0.75 U	ND<1.5 U	-0.75	97	118
ND<0.75 U	ND<1.5 U	-0.75	97	119
ND<0.5 U	ND<1.5 U	-1	97	120
ND<0.5 U	ND<1.5 U	-1	97	121
ND<0.5 U	ND<1.5 U	-1	97	122
ND<0.5 U	ND<1.5 U	-1	97	123
ND<0.5 U	ND<1.5 U	-1	97	124
ND<0.5 U	ND<1.5 U	-1	97	125
ND<0.5 U	ND<1.5 U	-1	97	126
ND<0.5 U	ND<1.5 U	-1	97	127
ND<0.5 U	ND<1.5 U	-1	97	128
ND<0.5 U	ND<1.5 U	-1	97	129
ND<0.5 U	ND<1.5 U	-1	97	130
ND<0.5 U	ND<1.5 U	-1	97	131
ND<0.5 U	ND<1.5 U	-1	97	132
ND<0.5 U	ND<1.5 U	-1	97	133
ND<1 U	ND<1.5 U	-0.5	97	134
ND<1 U	ND<1.5 U	-0.5	97	135
ND<1 U	ND<1.5 U	-0.5	97	136
ND<1 U	ND<1.5 U	-0.5	97	137
ND<1 U	ND<1.5 U	-0.5	97	138

ND<0.5 U	ND<0.5 U	0	97	138
ND<1.5 U	ND<0.5 U	1	98	138
ND<0.75 U	ND<0.5 U	0.25	99	138
ND<0.75 U	ND<0.5 U	0.25	100	138
ND<1.5 U	ND<0.5 U	1	101	138
ND<0.75 U	ND<0.5 U	0.25	102	138
ND<0.75 U	ND<0.5 U	0.25	103	138
ND<0.75 U	ND<0.5 U	0.25	104	138
ND<0.75 U	ND<0.5 U	0.25	105	138
ND<0.75 U	ND<0.5 U	0.25	106	138
ND<0.75 U	ND<0.5 U	0.25	107	138
ND<0.75 U	ND<0.5 U	0.25	108	138
ND<0.75 U	ND<0.5 U	0.25	109	138
ND<0.75 U	ND<0.5 U	0.25	110	138
ND<0.75 U	ND<0.5 U	0.25	111	138
ND<0.75 U	ND<0.5 U	0.25	112	138
ND<0.75 U	ND<0.5 U	0.25	113	138
ND<0.75 U	ND<0.5 U	0.25	114	138
ND<0.75 U	ND<0.5 U	0.25	115	138
ND<0.75 U	ND<0.5 U	0.25	116	138
ND<0.75 U	ND<0.5 U	0.25	117	138
ND<0.75 U	ND<0.5 U	0.25	118	138
ND<0.75 U	ND<0.5 U	0.25	119	138
ND<0.75 U	ND<0.5 U	0.25	120	138
ND<0.75 U	ND<0.5 U	0.25	121	138
ND<0.75 U	ND<0.5 U	0.25	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138

ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<0.5 U	ND<0.5 U	0	122	138
ND<1 U	ND<0.5 U	0.5	123	138
ND<1 U	ND<0.5 U	0.5	124	138
ND<1 U	ND<0.5 U	0.5	125	138
ND<1 U	ND<0.5 U	0.5	126	138
ND<1 U	ND<0.5 U	0.5	127	138
ND<1.5 U	ND<0.5 U	1	128	138
ND<0.75 U	ND<0.5 U	0.25	129	138
ND<0.75 U	ND<0.5 U	0.25	130	138
ND<1.5 U	ND<0.5 U	1	131	138
ND<0.75 U	ND<0.5 U	0.25	132	138
ND<0.75 U	ND<0.5 U	0.25	133	138
ND<0.75 U	ND<0.5 U	0.25	134	138
ND<0.75 U	ND<0.5 U	0.25	135	138
ND<0.75 U	ND<0.5 U	0.25	136	138
ND<0.75 U	ND<0.5 U	0.25	137	138
ND<0.75 U	ND<0.5 U	0.25	138	138
ND<0.75 U	ND<0.5 U	0.25	139	138
ND<0.75 U	ND<0.5 U	0.25	140	138
ND<0.75 U	ND<0.5 U	0.25	141	138
ND<0.75 U	ND<0.5 U	0.25	142	138
ND<0.75 U	ND<0.5 U	0.25	143	138
ND<0.75 U	ND<0.5 U	0.25	144	138
ND<0.75 U	ND<0.5 U	0.25	145	138
ND<0.75 U	ND<0.5 U	0.25	146	138
ND<0.75 U	ND<0.5 U	0.25	147	138
ND<0.75 U	ND<0.5 U	0.25	148	138
ND<0.75 U	ND<0.5 U	0.25	149	138
ND<0.75 U	ND<0.5 U	0.25	150	138
ND<0.75 U	ND<0.5 U	0.25	151	138
ND<0.75 U	ND<0.5 U	0.25	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<0.5 U	ND<0.5 U	0	152	138
ND<1 U	ND<0.5 U	0.5	153	138
ND<1 U	ND<0.5 U	0.5	154	138
ND<1 U	ND<0.5 U	0.5	155	138
ND<1 U	ND<0.5 U	0.5	156	138
ND<1 U	ND<0.5 U	0.5	157	138
ND<0.75 U	ND<1.5 U	-0.75	157	139

ND<0.75 U	ND<1.5 U	-0.75	157	140
ND<1.5 U	ND<1.5 U	0	157	140
ND<0.75 U	ND<1.5 U	-0.75	157	141
ND<0.75 U	ND<1.5 U	-0.75	157	142
ND<0.75 U	ND<1.5 U	-0.75	157	143
ND<0.75 U	ND<1.5 U	-0.75	157	144
ND<0.75 U	ND<1.5 U	-0.75	157	145
ND<0.75 U	ND<1.5 U	-0.75	157	146
ND<0.75 U	ND<1.5 U	-0.75	157	147
ND<0.75 U	ND<1.5 U	-0.75	157	148
ND<0.75 U	ND<1.5 U	-0.75	157	149
ND<0.75 U	ND<1.5 U	-0.75	157	150
ND<0.75 U	ND<1.5 U	-0.75	157	151
ND<0.75 U	ND<1.5 U	-0.75	157	152
ND<0.75 U	ND<1.5 U	-0.75	157	153
ND<0.75 U	ND<1.5 U	-0.75	157	154
ND<0.75 U	ND<1.5 U	-0.75	157	155
ND<0.75 U	ND<1.5 U	-0.75	157	156
ND<0.75 U	ND<1.5 U	-0.75	157	157
ND<0.75 U	ND<1.5 U	-0.75	157	158
ND<0.75 U	ND<1.5 U	-0.75	157	159
ND<0.75 U	ND<1.5 U	-0.75	157	160
ND<0.75 U	ND<1.5 U	-0.75	157	161
ND<0.5 U	ND<1.5 U	-1	157	162
ND<0.5 U	ND<1.5 U	-1	157	163
ND<0.5 U	ND<1.5 U	-1	157	164
ND<0.5 U	ND<1.5 U	-1	157	165
ND<0.5 U	ND<1.5 U	-1	157	166
ND<0.5 U	ND<1.5 U	-1	157	167
ND<0.5 U	ND<1.5 U	-1	157	168
ND<0.5 U	ND<1.5 U	-1	157	169
ND<0.5 U	ND<1.5 U	-1	157	170
ND<0.5 U	ND<1.5 U	-1	157	171
ND<0.5 U	ND<1.5 U	-1	157	172
ND<0.5 U	ND<1.5 U	-1	157	173
ND<0.5 U	ND<1.5 U	-1	157	174
ND<0.5 U	ND<1.5 U	-1	157	175
ND<1 U	ND<1.5 U	-0.5	157	176
ND<1 U	ND<1.5 U	-0.5	157	177
ND<1 U	ND<1.5 U	-0.5	157	178
ND<1 U	ND<1.5 U	-0.5	157	179
ND<1 U	ND<1.5 U	-0.5	157	180

ND<0.75 U	ND<0.75 U	0	157	180
ND<1.5 U	ND<0.75 U	0.75	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180

ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.75 U	ND<0.75 U	0	158	180
ND<0.5 U	ND<0.75 U	-0.25	158	181
ND<0.5 U	ND<0.75 U	-0.25	158	182
ND<0.5 U	ND<0.75 U	-0.25	158	183
ND<0.5 U	ND<0.75 U	-0.25	158	184
ND<0.5 U	ND<0.75 U	-0.25	158	185
ND<0.5 U	ND<0.75 U	-0.25	158	186
ND<0.5 U	ND<0.75 U	-0.25	158	187
ND<0.5 U	ND<0.75 U	-0.25	158	188
ND<0.5 U	ND<0.75 U	-0.25	158	189
ND<0.5 U	ND<0.75 U	-0.25	158	190
ND<0.5 U	ND<0.75 U	-0.25	158	191
ND<0.5 U	ND<0.75 U	-0.25	158	192
ND<0.5 U	ND<0.75 U	-0.25	158	193
ND<0.5 U	ND<0.75 U	-0.25	158	194
ND<1 U	ND<0.75 U	0.25	159	194
ND<1 U	ND<0.75 U	0.25	160	194
ND<1 U	ND<0.75 U	0.25	161	194
ND<1 U	ND<0.75 U	0.25	162	194
ND<1 U	ND<0.75 U	0.25	163	194
ND<1.5 U	ND<0.75 U	0.75	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.75 U	ND<0.75 U	0	164	194
ND<0.5 U	ND<0.75 U	-0.25	164	195
ND<0.5 U	ND<0.75 U	-0.25	164	196
ND<0.5 U	ND<0.75 U	-0.25	164	197
ND<0.5 U	ND<0.75 U	-0.25	164	198
ND<0.5 U	ND<0.75 U	-0.25	164	199
ND<0.5 U	ND<0.75 U	-0.25	164	200

ND<0.5 U	ND<0.75 U	-0.25	164	201
ND<0.5 U	ND<0.75 U	-0.25	164	202
ND<0.5 U	ND<0.75 U	-0.25	164	203
ND<0.5 U	ND<0.75 U	-0.25	164	204
ND<0.5 U	ND<0.75 U	-0.25	164	205
ND<0.5 U	ND<0.75 U	-0.25	164	206
ND<0.5 U	ND<0.75 U	-0.25	164	207
ND<0.5 U	ND<0.75 U	-0.25	164	208
ND<1 U	ND<0.75 U	0.25	165	208
ND<1 U	ND<0.75 U	0.25	166	208
ND<1 U	ND<0.75 U	0.25	167	208
ND<1 U	ND<0.75 U	0.25	168	208
ND<1 U	ND<0.75 U	0.25	169	208
ND<0.75 U	ND<1.5 U	-0.75	169	209
ND<0.75 U	ND<1.5 U	-0.75	169	210
ND<0.75 U	ND<1.5 U	-0.75	169	211
ND<0.75 U	ND<1.5 U	-0.75	169	212
ND<0.75 U	ND<1.5 U	-0.75	169	213
ND<0.75 U	ND<1.5 U	-0.75	169	214
ND<0.75 U	ND<1.5 U	-0.75	169	215
ND<0.75 U	ND<1.5 U	-0.75	169	216
ND<0.75 U	ND<1.5 U	-0.75	169	217
ND<0.75 U	ND<1.5 U	-0.75	169	218
ND<0.75 U	ND<1.5 U	-0.75	169	219
ND<0.75 U	ND<1.5 U	-0.75	169	220
ND<0.75 U	ND<1.5 U	-0.75	169	221
ND<0.75 U	ND<1.5 U	-0.75	169	222
ND<0.75 U	ND<1.5 U	-0.75	169	223
ND<0.75 U	ND<1.5 U	-0.75	169	224
ND<0.75 U	ND<1.5 U	-0.75	169	225
ND<0.75 U	ND<1.5 U	-0.75	169	226
ND<0.75 U	ND<1.5 U	-0.75	169	227
ND<0.75 U	ND<1.5 U	-0.75	169	228
ND<0.75 U	ND<1.5 U	-0.75	169	229
ND<0.5 U	ND<1.5 U	-1	169	230
ND<0.5 U	ND<1.5 U	-1	169	231
ND<0.5 U	ND<1.5 U	-1	169	232
ND<0.5 U	ND<1.5 U	-1	169	233
ND<0.5 U	ND<1.5 U	-1	169	234
ND<0.5 U	ND<1.5 U	-1	169	235
ND<0.5 U	ND<1.5 U	-1	169	236
ND<0.5 U	ND<1.5 U	-1	169	237
ND<0.5 U	ND<1.5 U	-1	169	238
ND<0.5 U	ND<1.5 U	-1	169	239
ND<0.5 U	ND<1.5 U	-1	169	240
ND<0.5 U	ND<1.5 U	-1	169	241
ND<0.5 U	ND<1.5 U	-1	169	242
ND<0.5 U	ND<1.5 U	-1	169	243
ND<1 U	ND<1.5 U	-0.5	169	244
ND<1 U	ND<1.5 U	-0.5	169	245
ND<1 U	ND<1.5 U	-0.5	169	246
ND<1 U	ND<1.5 U	-0.5	169	247
ND<1 U	ND<1.5 U	-0.5	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248

ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.75 U	ND<0.75 U	0	169	248
ND<0.5 U	ND<0.75 U	-0.25	169	249
ND<0.5 U	ND<0.75 U	-0.25	169	250
ND<0.5 U	ND<0.75 U	-0.25	169	251
ND<0.5 U	ND<0.75 U	-0.25	169	252
ND<0.5 U	ND<0.75 U	-0.25	169	253
ND<0.5 U	ND<0.75 U	-0.25	169	254
ND<0.5 U	ND<0.75 U	-0.25	169	255
ND<0.5 U	ND<0.75 U	-0.25	169	256
ND<0.5 U	ND<0.75 U	-0.25	169	257
ND<0.5 U	ND<0.75 U	-0.25	169	258
ND<0.5 U	ND<0.75 U	-0.25	169	259
ND<0.5 U	ND<0.75 U	-0.25	169	260
ND<0.5 U	ND<0.75 U	-0.25	169	261
ND<0.5 U	ND<0.75 U	-0.25	169	262
ND<1 U	ND<0.75 U	0.25	170	262
ND<1 U	ND<0.75 U	0.25	171	262
ND<1 U	ND<0.75 U	0.25	172	262
ND<1 U	ND<0.75 U	0.25	173	262
ND<1 U	ND<0.75 U	0.25	174	262

ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262
ND<0.75 U	ND<0.75 U	0	174	262

ND<0.5 U	ND<0.75 U	-0.25	174	263
ND<0.5 U	ND<0.75 U	-0.25	174	264
ND<0.5 U	ND<0.75 U	-0.25	174	265
ND<0.5 U	ND<0.75 U	-0.25	174	266
ND<0.5 U	ND<0.75 U	-0.25	174	267
ND<0.5 U	ND<0.75 U	-0.25	174	268
ND<0.5 U	ND<0.75 U	-0.25	174	269
ND<0.5 U	ND<0.75 U	-0.25	174	270
ND<0.5 U	ND<0.75 U	-0.25	174	271
ND<0.5 U	ND<0.75 U	-0.25	174	272
ND<0.5 U	ND<0.75 U	-0.25	174	273
ND<0.5 U	ND<0.75 U	-0.25	174	274
ND<0.5 U	ND<0.75 U	-0.25	174	275
ND<0.5 U	ND<0.75 U	-0.25	174	276
ND<1 U	ND<0.75 U	0.25	175	276
ND<1 U	ND<0.75 U	0.25	176	276
ND<1 U	ND<0.75 U	0.25	177	276
ND<1 U	ND<0.75 U	0.25	178	276
ND<1 U	ND<0.75 U	0.25	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.75 U	ND<0.75 U	0	179	276
ND<0.5 U	ND<0.75 U	-0.25	179	277
ND<0.5 U	ND<0.75 U	-0.25	179	278
ND<0.5 U	ND<0.75 U	-0.25	179	279
ND<0.5 U	ND<0.75 U	-0.25	179	280
ND<0.5 U	ND<0.75 U	-0.25	179	281
ND<0.5 U	ND<0.75 U	-0.25	179	282
ND<0.5 U	ND<0.75 U	-0.25	179	283
ND<0.5 U	ND<0.75 U	-0.25	179	284
ND<0.5 U	ND<0.75 U	-0.25	179	285
ND<0.5 U	ND<0.75 U	-0.25	179	286
ND<0.5 U	ND<0.75 U	-0.25	179	287
ND<0.5 U	ND<0.75 U	-0.25	179	288
ND<0.5 U	ND<0.75 U	-0.25	179	289
ND<0.5 U	ND<0.75 U	-0.25	179	290
ND<1 U	ND<0.75 U	0.25	180	290
ND<1 U	ND<0.75 U	0.25	181	290
ND<1 U	ND<0.75 U	0.25	182	290
ND<1 U	ND<0.75 U	0.25	183	290
ND<1 U	ND<0.75 U	0.25	184	290

ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.75 U	ND<0.75 U	0	184	290
ND<0.5 U	ND<0.75 U	-0.25	184	291
ND<0.5 U	ND<0.75 U	-0.25	184	292
ND<0.5 U	ND<0.75 U	-0.25	184	293
ND<0.5 U	ND<0.75 U	-0.25	184	294
ND<0.5 U	ND<0.75 U	-0.25	184	295
ND<0.5 U	ND<0.75 U	-0.25	184	296
ND<0.5 U	ND<0.75 U	-0.25	184	297
ND<0.5 U	ND<0.75 U	-0.25	184	298
ND<0.5 U	ND<0.75 U	-0.25	184	299
ND<0.5 U	ND<0.75 U	-0.25	184	300
ND<0.5 U	ND<0.75 U	-0.25	184	301
ND<0.5 U	ND<0.75 U	-0.25	184	302
ND<0.5 U	ND<0.75 U	-0.25	184	303
ND<0.5 U	ND<0.75 U	-0.25	184	304
ND<1 U	ND<0.75 U	0.25	185	304
ND<1 U	ND<0.75 U	0.25	186	304
ND<1 U	ND<0.75 U	0.25	187	304
ND<1 U	ND<0.75 U	0.25	188	304
ND<1 U	ND<0.75 U	0.25	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.75 U	ND<0.75 U	0	189	304
ND<0.5 U	ND<0.75 U	-0.25	189	305
ND<0.5 U	ND<0.75 U	-0.25	189	306
ND<0.5 U	ND<0.75 U	-0.25	189	307

ND<0.5 U	ND<0.75 U	-0.25	189	308
ND<0.5 U	ND<0.75 U	-0.25	189	309
ND<0.5 U	ND<0.75 U	-0.25	189	310
ND<0.5 U	ND<0.75 U	-0.25	189	311
ND<0.5 U	ND<0.75 U	-0.25	189	312
ND<0.5 U	ND<0.75 U	-0.25	189	313
ND<0.5 U	ND<0.75 U	-0.25	189	314
ND<0.5 U	ND<0.75 U	-0.25	189	315
ND<0.5 U	ND<0.75 U	-0.25	189	316
ND<0.5 U	ND<0.75 U	-0.25	189	317
ND<0.5 U	ND<0.75 U	-0.25	189	318
ND<1 U	ND<0.75 U	0.25	190	318
ND<1 U	ND<0.75 U	0.25	191	318
ND<1 U	ND<0.75 U	0.25	192	318
ND<1 U	ND<0.75 U	0.25	193	318
ND<1 U	ND<0.75 U	0.25	194	318

ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.75 U	ND<0.75 U	0	194	318
ND<0.5 U	ND<0.75 U	-0.25	194	319
ND<0.5 U	ND<0.75 U	-0.25	194	320
ND<0.5 U	ND<0.75 U	-0.25	194	321
ND<0.5 U	ND<0.75 U	-0.25	194	322
ND<0.5 U	ND<0.75 U	-0.25	194	323
ND<0.5 U	ND<0.75 U	-0.25	194	324
ND<0.5 U	ND<0.75 U	-0.25	194	325
ND<0.5 U	ND<0.75 U	-0.25	194	326
ND<0.5 U	ND<0.75 U	-0.25	194	327
ND<0.5 U	ND<0.75 U	-0.25	194	328
ND<0.5 U	ND<0.75 U	-0.25	194	329
ND<0.5 U	ND<0.75 U	-0.25	194	330
ND<0.5 U	ND<0.75 U	-0.25	194	331
ND<0.5 U	ND<0.75 U	-0.25	194	332
ND<1 U	ND<0.75 U	0.25	195	332
ND<1 U	ND<0.75 U	0.25	196	332
ND<1 U	ND<0.75 U	0.25	197	332
ND<1 U	ND<0.75 U	0.25	198	332
ND<1 U	ND<0.75 U	0.25	199	332

ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332

ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.75 U	ND<0.75 U	0	199	332
ND<0.5 U	ND<0.75 U	-0.25	199	333
ND<0.5 U	ND<0.75 U	-0.25	199	334
ND<0.5 U	ND<0.75 U	-0.25	199	335
ND<0.5 U	ND<0.75 U	-0.25	199	336
ND<0.5 U	ND<0.75 U	-0.25	199	337
ND<0.5 U	ND<0.75 U	-0.25	199	338
ND<0.5 U	ND<0.75 U	-0.25	199	339
ND<0.5 U	ND<0.75 U	-0.25	199	340
ND<0.5 U	ND<0.75 U	-0.25	199	341
ND<0.5 U	ND<0.75 U	-0.25	199	342
ND<0.5 U	ND<0.75 U	-0.25	199	343
ND<0.5 U	ND<0.75 U	-0.25	199	344
ND<0.5 U	ND<0.75 U	-0.25	199	345
ND<0.5 U	ND<0.75 U	-0.25	199	346
ND<1 U	ND<0.75 U	0.25	200	346
ND<1 U	ND<0.75 U	0.25	201	346
ND<1 U	ND<0.75 U	0.25	202	346
ND<1 U	ND<0.75 U	0.25	203	346
ND<1 U	ND<0.75 U	0.25	204	346

ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.75 U	ND<0.75 U	0	204	346
ND<0.5 U	ND<0.75 U	-0.25	204	347
ND<0.5 U	ND<0.75 U	-0.25	204	348
ND<0.5 U	ND<0.75 U	-0.25	204	349
ND<0.5 U	ND<0.75 U	-0.25	204	350
ND<0.5 U	ND<0.75 U	-0.25	204	351
ND<0.5 U	ND<0.75 U	-0.25	204	352
ND<0.5 U	ND<0.75 U	-0.25	204	353
ND<0.5 U	ND<0.75 U	-0.25	204	354
ND<0.5 U	ND<0.75 U	-0.25	204	355
ND<0.5 U	ND<0.75 U	-0.25	204	356
ND<0.5 U	ND<0.75 U	-0.25	204	357
ND<0.5 U	ND<0.75 U	-0.25	204	358
ND<0.5 U	ND<0.75 U	-0.25	204	359
ND<0.5 U	ND<0.75 U	-0.25	204	360
ND<1 U	ND<0.75 U	0.25	205	360

ND<1 U	ND<0.75 U	0.25	206	360
ND<1 U	ND<0.75 U	0.25	207	360
ND<1 U	ND<0.75 U	0.25	208	360
ND<1 U	ND<0.75 U	0.25	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.75 U	ND<0.75 U	0	209	360
ND<0.5 U	ND<0.75 U	-0.25	209	361
ND<0.5 U	ND<0.75 U	-0.25	209	362
ND<0.5 U	ND<0.75 U	-0.25	209	363
ND<0.5 U	ND<0.75 U	-0.25	209	364
ND<0.5 U	ND<0.75 U	-0.25	209	365
ND<0.5 U	ND<0.75 U	-0.25	209	366
ND<0.5 U	ND<0.75 U	-0.25	209	367
ND<0.5 U	ND<0.75 U	-0.25	209	368
ND<0.5 U	ND<0.75 U	-0.25	209	369
ND<0.5 U	ND<0.75 U	-0.25	209	370
ND<0.5 U	ND<0.75 U	-0.25	209	371
ND<0.5 U	ND<0.75 U	-0.25	209	372
ND<0.5 U	ND<0.75 U	-0.25	209	373
ND<0.5 U	ND<0.75 U	-0.25	209	374
ND<1 U	ND<0.75 U	0.25	210	374
ND<1 U	ND<0.75 U	0.25	211	374
ND<1 U	ND<0.75 U	0.25	212	374
ND<1 U	ND<0.75 U	0.25	213	374
ND<1 U	ND<0.75 U	0.25	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.75 U	ND<0.75 U	0	214	374
ND<0.5 U	ND<0.75 U	-0.25	214	375
ND<0.5 U	ND<0.75 U	-0.25	214	376
ND<0.5 U	ND<0.75 U	-0.25	214	377
ND<0.5 U	ND<0.75 U	-0.25	214	378
ND<0.5 U	ND<0.75 U	-0.25	214	379
ND<0.5 U	ND<0.75 U	-0.25	214	380
ND<0.5 U	ND<0.75 U	-0.25	214	381
ND<0.5 U	ND<0.75 U	-0.25	214	382
ND<0.5 U	ND<0.75 U	-0.25	214	383

ND<0.5 U	ND<0.75 U	-0.25	214	384
ND<0.5 U	ND<0.75 U	-0.25	214	385
ND<0.5 U	ND<0.75 U	-0.25	214	386
ND<0.5 U	ND<0.75 U	-0.25	214	387
ND<0.5 U	ND<0.75 U	-0.25	214	388
ND<1 U	ND<0.75 U	0.25	215	388
ND<1 U	ND<0.75 U	0.25	216	388
ND<1 U	ND<0.75 U	0.25	217	388
ND<1 U	ND<0.75 U	0.25	218	388
ND<1 U	ND<0.75 U	0.25	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.75 U	ND<0.75 U	0	219	388
ND<0.5 U	ND<0.75 U	-0.25	219	389
ND<0.5 U	ND<0.75 U	-0.25	219	390
ND<0.5 U	ND<0.75 U	-0.25	219	391
ND<0.5 U	ND<0.75 U	-0.25	219	392
ND<0.5 U	ND<0.75 U	-0.25	219	393
ND<0.5 U	ND<0.75 U	-0.25	219	394
ND<0.5 U	ND<0.75 U	-0.25	219	395
ND<0.5 U	ND<0.75 U	-0.25	219	396
ND<0.5 U	ND<0.75 U	-0.25	219	397
ND<0.5 U	ND<0.75 U	-0.25	219	398
ND<0.5 U	ND<0.75 U	-0.25	219	399
ND<0.5 U	ND<0.75 U	-0.25	219	400
ND<0.5 U	ND<0.75 U	-0.25	219	401
ND<0.5 U	ND<0.75 U	-0.25	219	402
ND<1 U	ND<0.75 U	0.25	220	402
ND<1 U	ND<0.75 U	0.25	221	402
ND<1 U	ND<0.75 U	0.25	222	402
ND<1 U	ND<0.75 U	0.25	223	402
ND<1 U	ND<0.75 U	0.25	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.75 U	ND<0.75 U	0	224	402
ND<0.5 U	ND<0.75 U	-0.25	224	403
ND<0.5 U	ND<0.75 U	-0.25	224	404
ND<0.5 U	ND<0.75 U	-0.25	224	405
ND<0.5 U	ND<0.75 U	-0.25	224	406
ND<0.5 U	ND<0.75 U	-0.25	224	407
ND<0.5 U	ND<0.75 U	-0.25	224	408
ND<0.5 U	ND<0.75 U	-0.25	224	409

ND<0.5 U	ND<0.75 U	-0.25	224	410
ND<0.5 U	ND<0.75 U	-0.25	224	411
ND<0.5 U	ND<0.75 U	-0.25	224	412
ND<0.5 U	ND<0.75 U	-0.25	224	413
ND<0.5 U	ND<0.75 U	-0.25	224	414
ND<0.5 U	ND<0.75 U	-0.25	224	415
ND<0.5 U	ND<0.75 U	-0.25	224	416
ND<1 U	ND<0.75 U	0.25	225	416
ND<1 U	ND<0.75 U	0.25	226	416
ND<1 U	ND<0.75 U	0.25	227	416
ND<1 U	ND<0.75 U	0.25	228	416
ND<1 U	ND<0.75 U	0.25	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.75 U	ND<0.75 U	0	229	416
ND<0.5 U	ND<0.75 U	-0.25	229	417
ND<0.5 U	ND<0.75 U	-0.25	229	418
ND<0.5 U	ND<0.75 U	-0.25	229	419
ND<0.5 U	ND<0.75 U	-0.25	229	420
ND<0.5 U	ND<0.75 U	-0.25	229	421
ND<0.5 U	ND<0.75 U	-0.25	229	422
ND<0.5 U	ND<0.75 U	-0.25	229	423
ND<0.5 U	ND<0.75 U	-0.25	229	424
ND<0.5 U	ND<0.75 U	-0.25	229	425
ND<0.5 U	ND<0.75 U	-0.25	229	426
ND<0.5 U	ND<0.75 U	-0.25	229	427
ND<0.5 U	ND<0.75 U	-0.25	229	428
ND<0.5 U	ND<0.75 U	-0.25	229	429
ND<0.5 U	ND<0.75 U	-0.25	229	430
ND<1 U	ND<0.75 U	0.25	230	430
ND<1 U	ND<0.75 U	0.25	231	430
ND<1 U	ND<0.75 U	0.25	232	430
ND<1 U	ND<0.75 U	0.25	233	430
ND<1 U	ND<0.75 U	0.25	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.75 U	ND<0.75 U	0	234	430
ND<0.5 U	ND<0.75 U	-0.25	234	431
ND<0.5 U	ND<0.75 U	-0.25	234	432
ND<0.5 U	ND<0.75 U	-0.25	234	433
ND<0.5 U	ND<0.75 U	-0.25	234	434
ND<0.5 U	ND<0.75 U	-0.25	234	435
ND<0.5 U	ND<0.75 U	-0.25	234	436
ND<0.5 U	ND<0.75 U	-0.25	234	437
ND<0.5 U	ND<0.75 U	-0.25	234	438
ND<0.5 U	ND<0.75 U	-0.25	234	439

ND<0.5 U	ND<0.75 U	-0.25	234	440
ND<0.5 U	ND<0.75 U	-0.25	234	441
ND<0.5 U	ND<0.75 U	-0.25	234	442
ND<0.5 U	ND<0.75 U	-0.25	234	443
ND<0.5 U	ND<0.75 U	-0.25	234	444
ND<1 U	ND<0.75 U	0.25	235	444
ND<1 U	ND<0.75 U	0.25	236	444
ND<1 U	ND<0.75 U	0.25	237	444
ND<1 U	ND<0.75 U	0.25	238	444
ND<1 U	ND<0.75 U	0.25	239	444
ND<0.75 U	ND<0.75 U	0	239	444
ND<0.75 U	ND<0.75 U	0	239	444
ND<0.75 U	ND<0.75 U	0	239	444
ND<0.75 U	ND<0.75 U	0	239	444
ND<0.75 U	ND<0.75 U	0	239	444
ND<0.75 U	ND<0.75 U	0	239	444
ND<0.5 U	ND<0.75 U	-0.25	239	445
ND<0.5 U	ND<0.75 U	-0.25	239	446
ND<0.5 U	ND<0.75 U	-0.25	239	447
ND<0.5 U	ND<0.75 U	-0.25	239	448
ND<0.5 U	ND<0.75 U	-0.25	239	449
ND<0.5 U	ND<0.75 U	-0.25	239	450
ND<0.5 U	ND<0.75 U	-0.25	239	451
ND<0.5 U	ND<0.75 U	-0.25	239	452
ND<0.5 U	ND<0.75 U	-0.25	239	453
ND<0.5 U	ND<0.75 U	-0.25	239	454
ND<0.5 U	ND<0.75 U	-0.25	239	455
ND<0.5 U	ND<0.75 U	-0.25	239	456
ND<0.5 U	ND<0.75 U	-0.25	239	457
ND<0.5 U	ND<0.75 U	-0.25	239	458
ND<1 U	ND<0.75 U	0.25	240	458
ND<1 U	ND<0.75 U	0.25	241	458
ND<1 U	ND<0.75 U	0.25	242	458
ND<1 U	ND<0.75 U	0.25	243	458
ND<1 U	ND<0.75 U	0.25	244	458
ND<0.75 U	ND<0.75 U	0	244	458
ND<0.75 U	ND<0.75 U	0	244	458
ND<0.75 U	ND<0.75 U	0	244	458
ND<0.75 U	ND<0.75 U	0	244	458
ND<0.75 U	ND<0.75 U	0	244	458
ND<0.5 U	ND<0.75 U	-0.25	244	459
ND<0.5 U	ND<0.75 U	-0.25	244	460
ND<0.5 U	ND<0.75 U	-0.25	244	461
ND<0.5 U	ND<0.75 U	-0.25	244	462
ND<0.5 U	ND<0.75 U	-0.25	244	463
ND<0.5 U	ND<0.75 U	-0.25	244	464
ND<0.5 U	ND<0.75 U	-0.25	244	465
ND<0.5 U	ND<0.75 U	-0.25	244	466
ND<0.5 U	ND<0.75 U	-0.25	244	467
ND<0.5 U	ND<0.75 U	-0.25	244	468
ND<0.5 U	ND<0.75 U	-0.25	244	469
ND<0.5 U	ND<0.75 U	-0.25	244	470
ND<0.5 U	ND<0.75 U	-0.25	244	471
ND<0.5 U	ND<0.75 U	-0.25	244	472
ND<1 U	ND<0.75 U	0.25	245	472

ND<1 U	ND<0.75 U	0.25	246	472
ND<1 U	ND<0.75 U	0.25	247	472
ND<1 U	ND<0.75 U	0.25	248	472
ND<1 U	ND<0.75 U	0.25	249	472
ND<0.75 U	ND<0.75 U	0	249	472
ND<0.75 U	ND<0.75 U	0	249	472
ND<0.75 U	ND<0.75 U	0	249	472
ND<0.75 U	ND<0.75 U	0	249	472
ND<0.5 U	ND<0.75 U	-0.25	249	473
ND<0.5 U	ND<0.75 U	-0.25	249	474
ND<0.5 U	ND<0.75 U	-0.25	249	475
ND<0.5 U	ND<0.75 U	-0.25	249	476
ND<0.5 U	ND<0.75 U	-0.25	249	477
ND<0.5 U	ND<0.75 U	-0.25	249	478
ND<0.5 U	ND<0.75 U	-0.25	249	479
ND<0.5 U	ND<0.75 U	-0.25	249	480
ND<0.5 U	ND<0.75 U	-0.25	249	481
ND<0.5 U	ND<0.75 U	-0.25	249	482
ND<0.5 U	ND<0.75 U	-0.25	249	483
ND<0.5 U	ND<0.75 U	-0.25	249	484
ND<0.5 U	ND<0.75 U	-0.25	249	485
ND<0.5 U	ND<0.75 U	-0.25	249	486
ND<1 U	ND<0.75 U	0.25	250	486
ND<1 U	ND<0.75 U	0.25	251	486
ND<1 U	ND<0.75 U	0.25	252	486
ND<1 U	ND<0.75 U	0.25	253	486
ND<1 U	ND<0.75 U	0.25	254	486
ND<0.75 U	ND<0.75 U	0	254	486
ND<0.75 U	ND<0.75 U	0	254	486
ND<0.75 U	ND<0.75 U	0	254	486
ND<0.5 U	ND<0.75 U	-0.25	254	487
ND<0.5 U	ND<0.75 U	-0.25	254	488
ND<0.5 U	ND<0.75 U	-0.25	254	489
ND<0.5 U	ND<0.75 U	-0.25	254	490
ND<0.5 U	ND<0.75 U	-0.25	254	491
ND<0.5 U	ND<0.75 U	-0.25	254	492
ND<0.5 U	ND<0.75 U	-0.25	254	493
ND<0.5 U	ND<0.75 U	-0.25	254	494
ND<0.5 U	ND<0.75 U	-0.25	254	495
ND<0.5 U	ND<0.75 U	-0.25	254	496
ND<0.5 U	ND<0.75 U	-0.25	254	497
ND<0.5 U	ND<0.75 U	-0.25	254	498
ND<0.5 U	ND<0.75 U	-0.25	254	499
ND<0.5 U	ND<0.75 U	-0.25	254	500
ND<1 U	ND<0.75 U	0.25	255	500
ND<1 U	ND<0.75 U	0.25	256	500
ND<1 U	ND<0.75 U	0.25	257	500
ND<1 U	ND<0.75 U	0.25	258	500
ND<1 U	ND<0.75 U	0.25	259	500
ND<0.75 U	ND<0.75 U	0	259	500
ND<0.75 U	ND<0.75 U	0	259	500
ND<0.5 U	ND<0.75 U	-0.25	259	501
ND<0.5 U	ND<0.75 U	-0.25	259	502
ND<0.5 U	ND<0.75 U	-0.25	259	503

ND<0.5 U	ND<0.75 U	-0.25	259	504
ND<0.5 U	ND<0.75 U	-0.25	259	505
ND<0.5 U	ND<0.75 U	-0.25	259	506
ND<0.5 U	ND<0.75 U	-0.25	259	507
ND<0.5 U	ND<0.75 U	-0.25	259	508
ND<0.5 U	ND<0.75 U	-0.25	259	509
ND<0.5 U	ND<0.75 U	-0.25	259	510
ND<0.5 U	ND<0.75 U	-0.25	259	511
ND<0.5 U	ND<0.75 U	-0.25	259	512
ND<0.5 U	ND<0.75 U	-0.25	259	513
ND<0.5 U	ND<0.75 U	-0.25	259	514
ND<1 U	ND<0.75 U	0.25	260	514
ND<1 U	ND<0.75 U	0.25	261	514
ND<1 U	ND<0.75 U	0.25	262	514
ND<1 U	ND<0.75 U	0.25	263	514
ND<1 U	ND<0.75 U	0.25	264	514
ND<0.75 U	ND<0.75 U	0	264	514
ND<0.5 U	ND<0.75 U	-0.25	264	515
ND<0.5 U	ND<0.75 U	-0.25	264	516
ND<0.5 U	ND<0.75 U	-0.25	264	517
ND<0.5 U	ND<0.75 U	-0.25	264	518
ND<0.5 U	ND<0.75 U	-0.25	264	519
ND<0.5 U	ND<0.75 U	-0.25	264	520
ND<0.5 U	ND<0.75 U	-0.25	264	521
ND<0.5 U	ND<0.75 U	-0.25	264	522
ND<0.5 U	ND<0.75 U	-0.25	264	523
ND<0.5 U	ND<0.75 U	-0.25	264	524
ND<0.5 U	ND<0.75 U	-0.25	264	525
ND<0.5 U	ND<0.75 U	-0.25	264	526
ND<0.5 U	ND<0.75 U	-0.25	264	527
ND<0.5 U	ND<0.75 U	-0.25	264	528
ND<1 U	ND<0.75 U	0.25	265	528
ND<1 U	ND<0.75 U	0.25	266	528
ND<1 U	ND<0.75 U	0.25	267	528
ND<1 U	ND<0.75 U	0.25	268	528
ND<1 U	ND<0.75 U	0.25	269	528
ND<0.5 U	ND<0.75 U	-0.25	269	529
ND<0.5 U	ND<0.75 U	-0.25	269	530
ND<0.5 U	ND<0.75 U	-0.25	269	531
ND<0.5 U	ND<0.75 U	-0.25	269	532
ND<0.5 U	ND<0.75 U	-0.25	269	533
ND<0.5 U	ND<0.75 U	-0.25	269	534
ND<0.5 U	ND<0.75 U	-0.25	269	535
ND<0.5 U	ND<0.75 U	-0.25	269	536
ND<0.5 U	ND<0.75 U	-0.25	269	537
ND<0.5 U	ND<0.75 U	-0.25	269	538
ND<0.5 U	ND<0.75 U	-0.25	269	539
ND<0.5 U	ND<0.75 U	-0.25	269	540
ND<0.5 U	ND<0.75 U	-0.25	269	541
ND<0.5 U	ND<0.75 U	-0.25	269	542
ND<1 U	ND<0.75 U	0.25	270	542
ND<1 U	ND<0.75 U	0.25	271	542
ND<1 U	ND<0.75 U	0.25	272	542
ND<1 U	ND<0.75 U	0.25	273	542
ND<1 U	ND<0.75 U	0.25	274	542

ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<0.5 U	ND<0.5 U	0	274	542
ND<1 U	ND<0.5 U	0.5	275	542
ND<1 U	ND<0.5 U	0.5	276	542
ND<1 U	ND<0.5 U	0.5	277	542
ND<1 U	ND<0.5 U	0.5	278	542
ND<1 U	ND<0.5 U	0.5	279	542

ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<0.5 U	ND<0.5 U	0	279	542
ND<1 U	ND<0.5 U	0.5	280	542
ND<1 U	ND<0.5 U	0.5	281	542
ND<1 U	ND<0.5 U	0.5	282	542
ND<1 U	ND<0.5 U	0.5	283	542
ND<1 U	ND<0.5 U	0.5	284	542

ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<0.5 U	ND<0.5 U	0	284	542
ND<1 U	ND<0.5 U	0.5	285	542
ND<1 U	ND<0.5 U	0.5	286	542
ND<1 U	ND<0.5 U	0.5	287	542
ND<1 U	ND<0.5 U	0.5	288	542
ND<1 U	ND<0.5 U	0.5	289	542

ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542

ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<0.5 U	ND<0.5 U	0	289	542
ND<1 U	ND<0.5 U	0.5	290	542
ND<1 U	ND<0.5 U	0.5	291	542
ND<1 U	ND<0.5 U	0.5	292	542
ND<1 U	ND<0.5 U	0.5	293	542
ND<1 U	ND<0.5 U	0.5	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<0.5 U	ND<0.5 U	0	294	542
ND<1 U	ND<0.5 U	0.5	295	542
ND<1 U	ND<0.5 U	0.5	296	542
ND<1 U	ND<0.5 U	0.5	297	542
ND<1 U	ND<0.5 U	0.5	298	542
ND<1 U	ND<0.5 U	0.5	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<0.5 U	ND<0.5 U	0	299	542
ND<1 U	ND<0.5 U	0.5	300	542
ND<1 U	ND<0.5 U	0.5	301	542
ND<1 U	ND<0.5 U	0.5	302	542
ND<1 U	ND<0.5 U	0.5	303	542
ND<1 U	ND<0.5 U	0.5	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<0.5 U	ND<0.5 U	0	304	542
ND<1 U	ND<0.5 U	0.5	305	542
ND<1 U	ND<0.5 U	0.5	306	542
ND<1 U	ND<0.5 U	0.5	307	542
ND<1 U	ND<0.5 U	0.5	308	542
ND<1 U	ND<0.5 U	0.5	309	542
ND<0.5 U	ND<0.5 U	0	309	542

ND<0.5 U	ND<0.5 U	0	309	542
ND<0.5 U	ND<0.5 U	0	309	542
ND<0.5 U	ND<0.5 U	0	309	542
ND<0.5 U	ND<0.5 U	0	309	542
ND<0.5 U	ND<0.5 U	0	309	542
ND<1 U	ND<0.5 U	0.5	310	542
ND<1 U	ND<0.5 U	0.5	311	542
ND<1 U	ND<0.5 U	0.5	312	542
ND<1 U	ND<0.5 U	0.5	313	542
ND<1 U	ND<0.5 U	0.5	314	542
ND<0.5 U	ND<0.5 U	0	314	542
ND<0.5 U	ND<0.5 U	0	314	542
ND<0.5 U	ND<0.5 U	0	314	542
ND<0.5 U	ND<0.5 U	0	314	542
ND<0.5 U	ND<0.5 U	0	314	542
ND<1 U	ND<0.5 U	0.5	315	542
ND<1 U	ND<0.5 U	0.5	316	542
ND<1 U	ND<0.5 U	0.5	317	542
ND<1 U	ND<0.5 U	0.5	318	542
ND<1 U	ND<0.5 U	0.5	319	542
ND<0.5 U	ND<0.5 U	0	319	542
ND<0.5 U	ND<0.5 U	0	319	542
ND<0.5 U	ND<0.5 U	0	319	542
ND<0.5 U	ND<0.5 U	0	319	542
ND<1 U	ND<0.5 U	0.5	320	542
ND<1 U	ND<0.5 U	0.5	321	542
ND<1 U	ND<0.5 U	0.5	322	542
ND<1 U	ND<0.5 U	0.5	323	542
ND<1 U	ND<0.5 U	0.5	324	542
ND<0.5 U	ND<0.5 U	0	324	542
ND<0.5 U	ND<0.5 U	0	324	542
ND<0.5 U	ND<0.5 U	0	324	542
ND<1 U	ND<0.5 U	0.5	325	542
ND<1 U	ND<0.5 U	0.5	326	542
ND<1 U	ND<0.5 U	0.5	327	542
ND<1 U	ND<0.5 U	0.5	328	542
ND<1 U	ND<0.5 U	0.5	329	542
ND<0.5 U	ND<0.5 U	0	329	542
ND<0.5 U	ND<0.5 U	0	329	542
ND<1 U	ND<0.5 U	0.5	330	542
ND<1 U	ND<0.5 U	0.5	331	542
ND<1 U	ND<0.5 U	0.5	332	542
ND<1 U	ND<0.5 U	0.5	333	542
ND<1 U	ND<0.5 U	0.5	334	542
ND<0.5 U	ND<0.5 U	0	334	542
ND<1 U	ND<0.5 U	0.5	335	542
ND<1 U	ND<0.5 U	0.5	336	542
ND<1 U	ND<0.5 U	0.5	337	542
ND<1 U	ND<0.5 U	0.5	338	542
ND<1 U	ND<0.5 U	0.5	339	542
ND<1 U	ND<0.5 U	0.5	340	542

ND<1 U	ND<0.5 U	0.5	341	542
ND<1 U	ND<0.5 U	0.5	342	542
ND<1 U	ND<0.5 U	0.5	343	542
ND<1 U	ND<0.5 U	0.5	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542
ND<1 U	ND<1 U	0	344	542

S Statistic = 344 - 542 = -198

Tied Group	**Value**	**Members**
1	0.5	19
2	1.5	4
3	0.75	23
4	1	5

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1

```
3/20/2012                     1
4/27/2012                     1
5/24/2012                     1
6/15/2012                     1
7/26/2012                     1
8/15/2012                     1
9/11/2012                     1
10/18/2012                    1
11/14/2012                    1
12/5/2012                     1
1/29/2013                     1
7/29/2013                     1
1/31/2014                     1
7/17/2014                     1
1/27/2015                     1
7/21/2015                     1
1/27/2016                     1
7/26/2016                     1
1/30/2017                     1
7/24/2017                     1
1/29/2018                     1
7/24/2018                     1
1/30/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 40968
B = 0
C = 16524
D = 0
E = 880
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 13783.3
Z-Score = -1.67799
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.67799| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Xylenes

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<2 U	ND<0.5 U	1.5	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<0.5 U	ND<0.5 U	0	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<1.5 U	ND<0.5 U	1	5	0
ND<1.5 U	ND<0.5 U	1	6	0
ND<1.5 U	ND<0.5 U	1	7	0
ND<0.75 U	ND<0.5 U	0.25	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
ND<0.75 U	ND<0.5 U	0.25	12	0
ND<0.75 U	ND<0.5 U	0.25	13	0
ND<0.75 U	ND<0.5 U	0.25	14	0
ND<0.75 U	ND<0.5 U	0.25	15	0
ND<0.75 U	ND<0.5 U	0.25	16	0
ND<0.75 U	ND<0.5 U	0.25	17	0
ND<0.75 U	ND<0.5 U	0.25	18	0
ND<0.75 U	ND<0.5 U	0.25	19	0
ND<0.75 U	ND<0.5 U	0.25	20	0
ND<0.75 U	ND<0.5 U	0.25	21	0
ND<0.75 U	ND<0.5 U	0.25	22	0
ND<0.75 U	ND<0.5 U	0.25	23	0
ND<0.75 U	ND<0.5 U	0.25	24	0
ND<0.75 U	ND<0.5 U	0.25	25	0
ND<0.75 U	ND<0.5 U	0.25	26	0
ND<0.75 U	ND<0.5 U	0.25	27	0
ND<0.75 U	ND<0.5 U	0.25	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<1 U	ND<0.5 U	0.5	29	0

ND<1 U	ND<0.5 U	0.5	30	0
ND<1 U	ND<0.5 U	0.5	31	0
ND<1 U	ND<0.5 U	0.5	32	0
ND<1 U	ND<0.5 U	0.5	33	0
ND<2 U	ND<0.5 U	1.5	34	0
ND<1.5 U	ND<0.5 U	1	35	0
ND<0.5 U	ND<0.5 U	0	35	0
ND<1.5 U	ND<0.5 U	1	36	0
ND<0.5 U	ND<0.5 U	0	36	0
ND<0.5 U	ND<0.5 U	0	36	0
ND<1.5 U	ND<0.5 U	1	37	0
ND<1.5 U	ND<0.5 U	1	38	0
ND<1.5 U	ND<0.5 U	1	39	0
ND<1.5 U	ND<0.5 U	1	40	0
ND<0.75 U	ND<0.5 U	0.25	41	0
ND<0.75 U	ND<0.5 U	0.25	42	0
ND<0.75 U	ND<0.5 U	0.25	43	0
ND<0.75 U	ND<0.5 U	0.25	44	0
ND<0.75 U	ND<0.5 U	0.25	45	0
ND<0.75 U	ND<0.5 U	0.25	46	0
ND<0.75 U	ND<0.5 U	0.25	47	0
ND<0.75 U	ND<0.5 U	0.25	48	0
ND<0.75 U	ND<0.5 U	0.25	49	0
ND<0.75 U	ND<0.5 U	0.25	50	0
ND<0.75 U	ND<0.5 U	0.25	51	0
ND<0.75 U	ND<0.5 U	0.25	52	0
ND<0.75 U	ND<0.5 U	0.25	53	0
ND<0.75 U	ND<0.5 U	0.25	54	0
ND<0.75 U	ND<0.5 U	0.25	55	0
ND<0.75 U	ND<0.5 U	0.25	56	0
ND<0.75 U	ND<0.5 U	0.25	57	0
ND<0.75 U	ND<0.5 U	0.25	58	0
ND<0.75 U	ND<0.5 U	0.25	59	0
ND<0.75 U	ND<0.5 U	0.25	60	0
ND<0.75 U	ND<0.5 U	0.25	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<0.5 U	ND<0.5 U	0	61	0
ND<1 U	ND<0.5 U	0.5	62	0
ND<1 U	ND<0.5 U	0.5	63	0
ND<1 U	ND<0.5 U	0.5	64	0
ND<1 U	ND<0.5 U	0.5	65	0
ND<1 U	ND<0.5 U	0.5	66	0
ND<1.5 U	ND<2 U	-0.5	66	1

ND<0.5 U	ND<2 U	-1.5	66	2
ND<1.5 U	ND<2 U	-0.5	66	3
ND<0.5 U	ND<2 U	-1.5	66	4
ND<0.5 U	ND<2 U	-1.5	66	5
ND<1.5 U	ND<2 U	-0.5	66	6
ND<1.5 U	ND<2 U	-0.5	66	7
ND<1.5 U	ND<2 U	-0.5	66	8
ND<1.5 U	ND<2 U	-0.5	66	9
ND<0.75 U	ND<2 U	-1.25	66	10
ND<0.75 U	ND<2 U	-1.25	66	11
ND<0.75 U	ND<2 U	-1.25	66	12
ND<0.75 U	ND<2 U	-1.25	66	13
ND<0.75 U	ND<2 U	-1.25	66	14
ND<0.75 U	ND<2 U	-1.25	66	15
ND<0.75 U	ND<2 U	-1.25	66	16
ND<0.75 U	ND<2 U	-1.25	66	17
ND<0.75 U	ND<2 U	-1.25	66	18
ND<0.75 U	ND<2 U	-1.25	66	19
ND<0.75 U	ND<2 U	-1.25	66	20
ND<0.75 U	ND<2 U	-1.25	66	21
ND<0.75 U	ND<2 U	-1.25	66	22
ND<0.75 U	ND<2 U	-1.25	66	23
ND<0.75 U	ND<2 U	-1.25	66	24
ND<0.75 U	ND<2 U	-1.25	66	25
ND<0.75 U	ND<2 U	-1.25	66	26
ND<0.75 U	ND<2 U	-1.25	66	27
ND<0.75 U	ND<2 U	-1.25	66	28
ND<0.75 U	ND<2 U	-1.25	66	29
ND<0.75 U	ND<2 U	-1.25	66	30
ND<0.5 U	ND<2 U	-1.5	66	31
ND<0.5 U	ND<2 U	-1.5	66	32
ND<0.5 U	ND<2 U	-1.5	66	33
ND<0.5 U	ND<2 U	-1.5	66	34
ND<0.5 U	ND<2 U	-1.5	66	35
ND<0.5 U	ND<2 U	-1.5	66	36
ND<0.5 U	ND<2 U	-1.5	66	37
ND<0.5 U	ND<2 U	-1.5	66	38
ND<0.5 U	ND<2 U	-1.5	66	39
ND<0.5 U	ND<2 U	-1.5	66	40
ND<0.5 U	ND<2 U	-1.5	66	41
ND<0.5 U	ND<2 U	-1.5	66	42
ND<0.5 U	ND<2 U	-1.5	66	43
ND<0.5 U	ND<2 U	-1.5	66	44
ND<1 U	ND<2 U	-1	66	45
ND<1 U	ND<2 U	-1	66	46
ND<1 U	ND<2 U	-1	66	47
ND<1 U	ND<2 U	-1	66	48
ND<1 U	ND<2 U	-1	66	49

ND<0.5 U	ND<1.5 U	-1	66	50
ND<1.5 U	ND<1.5 U	0	66	50
ND<0.5 U	ND<1.5 U	-1	66	51
ND<0.5 U	ND<1.5 U	-1	66	52
ND<1.5 U	ND<1.5 U	0	66	52
ND<1.5 U	ND<1.5 U	0	66	52
ND<1.5 U	ND<1.5 U	0	66	52
ND<1.5 U	ND<1.5 U	0	66	52

ND<0.75 U	ND<1.5 U	-0.75	66	53
ND<0.75 U	ND<1.5 U	-0.75	66	54
ND<0.75 U	ND<1.5 U	-0.75	66	55
ND<0.75 U	ND<1.5 U	-0.75	66	56
ND<0.75 U	ND<1.5 U	-0.75	66	57
ND<0.75 U	ND<1.5 U	-0.75	66	58
ND<0.75 U	ND<1.5 U	-0.75	66	59
ND<0.75 U	ND<1.5 U	-0.75	66	60
ND<0.75 U	ND<1.5 U	-0.75	66	61
ND<0.75 U	ND<1.5 U	-0.75	66	62
ND<0.75 U	ND<1.5 U	-0.75	66	63
ND<0.75 U	ND<1.5 U	-0.75	66	64
ND<0.75 U	ND<1.5 U	-0.75	66	65
ND<0.75 U	ND<1.5 U	-0.75	66	66
ND<0.75 U	ND<1.5 U	-0.75	66	67
ND<0.75 U	ND<1.5 U	-0.75	66	68
ND<0.75 U	ND<1.5 U	-0.75	66	69
ND<0.75 U	ND<1.5 U	-0.75	66	70
ND<0.75 U	ND<1.5 U	-0.75	66	71
ND<0.75 U	ND<1.5 U	-0.75	66	72
ND<0.75 U	ND<1.5 U	-0.75	66	73
ND<0.5 U	ND<1.5 U	-1	66	74
ND<0.5 U	ND<1.5 U	-1	66	75
ND<0.5 U	ND<1.5 U	-1	66	76
ND<0.5 U	ND<1.5 U	-1	66	77
ND<0.5 U	ND<1.5 U	-1	66	78
ND<0.5 U	ND<1.5 U	-1	66	79
ND<0.5 U	ND<1.5 U	-1	66	80
ND<0.5 U	ND<1.5 U	-1	66	81
ND<0.5 U	ND<1.5 U	-1	66	82
ND<0.5 U	ND<1.5 U	-1	66	83
ND<0.5 U	ND<1.5 U	-1	66	84
ND<0.5 U	ND<1.5 U	-1	66	85
ND<0.5 U	ND<1.5 U	-1	66	86
ND<0.5 U	ND<1.5 U	-1	66	87
ND<1 U	ND<1.5 U	-0.5	66	88
ND<1 U	ND<1.5 U	-0.5	66	89
ND<1 U	ND<1.5 U	-0.5	66	90
ND<1 U	ND<1.5 U	-0.5	66	91
ND<1 U	ND<1.5 U	-0.5	66	92
ND<1.5 U	ND<0.5 U	1	67	92
ND<0.5 U	ND<0.5 U	0	67	92
ND<0.5 U	ND<0.5 U	0	67	92
ND<1.5 U	ND<0.5 U	1	68	92
ND<1.5 U	ND<0.5 U	1	69	92
ND<1.5 U	ND<0.5 U	1	70	92
ND<1.5 U	ND<0.5 U	1	71	92
ND<0.75 U	ND<0.5 U	0.25	72	92
ND<0.75 U	ND<0.5 U	0.25	73	92
ND<0.75 U	ND<0.5 U	0.25	74	92
ND<0.75 U	ND<0.5 U	0.25	75	92
ND<0.75 U	ND<0.5 U	0.25	76	92
ND<0.75 U	ND<0.5 U	0.25	77	92
ND<0.75 U	ND<0.5 U	0.25	78	92
ND<0.75 U	ND<0.5 U	0.25	79	92
ND<0.75 U	ND<0.5 U	0.25	80	92

ND<0.75 U	ND<0.5 U	0.25	81	92
ND<0.75 U	ND<0.5 U	0.25	82	92
ND<0.75 U	ND<0.5 U	0.25	83	92
ND<0.75 U	ND<0.5 U	0.25	84	92
ND<0.75 U	ND<0.5 U	0.25	85	92
ND<0.75 U	ND<0.5 U	0.25	86	92
ND<0.75 U	ND<0.5 U	0.25	87	92
ND<0.75 U	ND<0.5 U	0.25	88	92
ND<0.75 U	ND<0.5 U	0.25	89	92
ND<0.75 U	ND<0.5 U	0.25	90	92
ND<0.75 U	ND<0.5 U	0.25	91	92
ND<0.75 U	ND<0.5 U	0.25	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<0.5 U	ND<0.5 U	0	92	92
ND<1 U	ND<0.5 U	0.5	93	92
ND<1 U	ND<0.5 U	0.5	94	92
ND<1 U	ND<0.5 U	0.5	95	92
ND<1 U	ND<0.5 U	0.5	96	92
ND<1 U	ND<0.5 U	0.5	97	92
ND<0.5 U	ND<1.5 U	-1	97	93
ND<0.5 U	ND<1.5 U	-1	97	94
ND<1.5 U	ND<1.5 U	0	97	94
ND<1.5 U	ND<1.5 U	0	97	94
ND<1.5 U	ND<1.5 U	0	97	94
ND<1.5 U	ND<1.5 U	0	97	94
ND<0.75 U	ND<1.5 U	-0.75	97	95
ND<0.75 U	ND<1.5 U	-0.75	97	96
ND<0.75 U	ND<1.5 U	-0.75	97	97
ND<0.75 U	ND<1.5 U	-0.75	97	98
ND<0.75 U	ND<1.5 U	-0.75	97	99
ND<0.75 U	ND<1.5 U	-0.75	97	100
ND<0.75 U	ND<1.5 U	-0.75	97	101
ND<0.75 U	ND<1.5 U	-0.75	97	102
ND<0.75 U	ND<1.5 U	-0.75	97	103
ND<0.75 U	ND<1.5 U	-0.75	97	104
ND<0.75 U	ND<1.5 U	-0.75	97	105
ND<0.75 U	ND<1.5 U	-0.75	97	106
ND<0.75 U	ND<1.5 U	-0.75	97	107
ND<0.75 U	ND<1.5 U	-0.75	97	108
ND<0.75 U	ND<1.5 U	-0.75	97	109
ND<0.75 U	ND<1.5 U	-0.75	97	110
ND<0.75 U	ND<1.5 U	-0.75	97	111
ND<0.75 U	ND<1.5 U	-0.75	97	112
ND<0.75 U	ND<1.5 U	-0.75	97	113

ND<0.75 U	ND<1.5 U	-0.75	97	114
ND<0.75 U	ND<1.5 U	-0.75	97	115
ND<0.5 U	ND<1.5 U	-1	97	116
ND<0.5 U	ND<1.5 U	-1	97	117
ND<0.5 U	ND<1.5 U	-1	97	118
ND<0.5 U	ND<1.5 U	-1	97	119
ND<0.5 U	ND<1.5 U	-1	97	120
ND<0.5 U	ND<1.5 U	-1	97	121
ND<0.5 U	ND<1.5 U	-1	97	122
ND<0.5 U	ND<1.5 U	-1	97	123
ND<0.5 U	ND<1.5 U	-1	97	124
ND<0.5 U	ND<1.5 U	-1	97	125
ND<0.5 U	ND<1.5 U	-1	97	126
ND<0.5 U	ND<1.5 U	-1	97	127
ND<0.5 U	ND<1.5 U	-1	97	128
ND<0.5 U	ND<1.5 U	-1	97	129
ND<1 U	ND<1.5 U	-0.5	97	130
ND<1 U	ND<1.5 U	-0.5	97	131
ND<1 U	ND<1.5 U	-0.5	97	132
ND<1 U	ND<1.5 U	-0.5	97	133
ND<1 U	ND<1.5 U	-0.5	97	134
ND<0.5 U	ND<0.5 U	0	97	134
ND<1.5 U	ND<0.5 U	1	98	134
ND<1.5 U	ND<0.5 U	1	99	134
ND<1.5 U	ND<0.5 U	1	100	134
ND<1.5 U	ND<0.5 U	1	101	134
ND<0.75 U	ND<0.5 U	0.25	102	134
ND<0.75 U	ND<0.5 U	0.25	103	134
ND<0.75 U	ND<0.5 U	0.25	104	134
ND<0.75 U	ND<0.5 U	0.25	105	134
ND<0.75 U	ND<0.5 U	0.25	106	134
ND<0.75 U	ND<0.5 U	0.25	107	134
ND<0.75 U	ND<0.5 U	0.25	108	134
ND<0.75 U	ND<0.5 U	0.25	109	134
ND<0.75 U	ND<0.5 U	0.25	110	134
ND<0.75 U	ND<0.5 U	0.25	111	134
ND<0.75 U	ND<0.5 U	0.25	112	134
ND<0.75 U	ND<0.5 U	0.25	113	134
ND<0.75 U	ND<0.5 U	0.25	114	134
ND<0.75 U	ND<0.5 U	0.25	115	134
ND<0.75 U	ND<0.5 U	0.25	116	134
ND<0.75 U	ND<0.5 U	0.25	117	134
ND<0.75 U	ND<0.5 U	0.25	118	134
ND<0.75 U	ND<0.5 U	0.25	119	134
ND<0.75 U	ND<0.5 U	0.25	120	134
ND<0.75 U	ND<0.5 U	0.25	121	134
ND<0.75 U	ND<0.5 U	0.25	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134

ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<0.5 U	ND<0.5 U	0	122	134
ND<1 U	ND<0.5 U	0.5	123	134
ND<1 U	ND<0.5 U	0.5	124	134
ND<1 U	ND<0.5 U	0.5	125	134
ND<1 U	ND<0.5 U	0.5	126	134
ND<1 U	ND<0.5 U	0.5	127	134
ND<1.5 U	ND<0.5 U	1	128	134
ND<1.5 U	ND<0.5 U	1	129	134
ND<1.5 U	ND<0.5 U	1	130	134
ND<1.5 U	ND<0.5 U	1	131	134
ND<0.75 U	ND<0.5 U	0.25	132	134
ND<0.75 U	ND<0.5 U	0.25	133	134
ND<0.75 U	ND<0.5 U	0.25	134	134
ND<0.75 U	ND<0.5 U	0.25	135	134
ND<0.75 U	ND<0.5 U	0.25	136	134
ND<0.75 U	ND<0.5 U	0.25	137	134
ND<0.75 U	ND<0.5 U	0.25	138	134
ND<0.75 U	ND<0.5 U	0.25	139	134
ND<0.75 U	ND<0.5 U	0.25	140	134
ND<0.75 U	ND<0.5 U	0.25	141	134
ND<0.75 U	ND<0.5 U	0.25	142	134
ND<0.75 U	ND<0.5 U	0.25	143	134
ND<0.75 U	ND<0.5 U	0.25	144	134
ND<0.75 U	ND<0.5 U	0.25	145	134
ND<0.75 U	ND<0.5 U	0.25	146	134
ND<0.75 U	ND<0.5 U	0.25	147	134
ND<0.75 U	ND<0.5 U	0.25	148	134
ND<0.75 U	ND<0.5 U	0.25	149	134
ND<0.75 U	ND<0.5 U	0.25	150	134
ND<0.75 U	ND<0.5 U	0.25	151	134
ND<0.75 U	ND<0.5 U	0.25	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<0.5 U	ND<0.5 U	0	152	134
ND<1 U	ND<0.5 U	0.5	153	134
ND<1 U	ND<0.5 U	0.5	154	134
ND<1 U	ND<0.5 U	0.5	155	134
ND<1 U	ND<0.5 U	0.5	156	134
ND<1 U	ND<0.5 U	0.5	157	134
ND<1.5 U	ND<1.5 U	0	157	134

ND<1.5 U	ND<1.5 U	0	157	134
ND<1.5 U	ND<1.5 U	0	157	134
ND<0.75 U	ND<1.5 U	-0.75	157	135
ND<0.75 U	ND<1.5 U	-0.75	157	136
ND<0.75 U	ND<1.5 U	-0.75	157	137
ND<0.75 U	ND<1.5 U	-0.75	157	138
ND<0.75 U	ND<1.5 U	-0.75	157	139
ND<0.75 U	ND<1.5 U	-0.75	157	140
ND<0.75 U	ND<1.5 U	-0.75	157	141
ND<0.75 U	ND<1.5 U	-0.75	157	142
ND<0.75 U	ND<1.5 U	-0.75	157	143
ND<0.75 U	ND<1.5 U	-0.75	157	144
ND<0.75 U	ND<1.5 U	-0.75	157	145
ND<0.75 U	ND<1.5 U	-0.75	157	146
ND<0.75 U	ND<1.5 U	-0.75	157	147
ND<0.75 U	ND<1.5 U	-0.75	157	148
ND<0.75 U	ND<1.5 U	-0.75	157	149
ND<0.75 U	ND<1.5 U	-0.75	157	150
ND<0.75 U	ND<1.5 U	-0.75	157	151
ND<0.75 U	ND<1.5 U	-0.75	157	152
ND<0.75 U	ND<1.5 U	-0.75	157	153
ND<0.75 U	ND<1.5 U	-0.75	157	154
ND<0.75 U	ND<1.5 U	-0.75	157	155
ND<0.5 U	ND<1.5 U	-1	157	156
ND<0.5 U	ND<1.5 U	-1	157	157
ND<0.5 U	ND<1.5 U	-1	157	158
ND<0.5 U	ND<1.5 U	-1	157	159
ND<0.5 U	ND<1.5 U	-1	157	160
ND<0.5 U	ND<1.5 U	-1	157	161
ND<0.5 U	ND<1.5 U	-1	157	162
ND<0.5 U	ND<1.5 U	-1	157	163
ND<0.5 U	ND<1.5 U	-1	157	164
ND<0.5 U	ND<1.5 U	-1	157	165
ND<0.5 U	ND<1.5 U	-1	157	166
ND<0.5 U	ND<1.5 U	-1	157	167
ND<0.5 U	ND<1.5 U	-1	157	168
ND<0.5 U	ND<1.5 U	-1	157	169
ND<1 U	ND<1.5 U	-0.5	157	170
ND<1 U	ND<1.5 U	-0.5	157	171
ND<1 U	ND<1.5 U	-0.5	157	172
ND<1 U	ND<1.5 U	-0.5	157	173
ND<1 U	ND<1.5 U	-0.5	157	174
ND<1.5 U	ND<1.5 U	0	157	174
ND<1.5 U	ND<1.5 U	0	157	174
ND<0.75 U	ND<1.5 U	-0.75	157	175
ND<0.75 U	ND<1.5 U	-0.75	157	176
ND<0.75 U	ND<1.5 U	-0.75	157	177
ND<0.75 U	ND<1.5 U	-0.75	157	178
ND<0.75 U	ND<1.5 U	-0.75	157	179
ND<0.75 U	ND<1.5 U	-0.75	157	180
ND<0.75 U	ND<1.5 U	-0.75	157	181
ND<0.75 U	ND<1.5 U	-0.75	157	182
ND<0.75 U	ND<1.5 U	-0.75	157	183
ND<0.75 U	ND<1.5 U	-0.75	157	184
ND<0.75 U	ND<1.5 U	-0.75	157	185
ND<0.75 U	ND<1.5 U	-0.75	157	186

ND<0.75 U	ND<1.5 U	-0.75	157	187
ND<0.75 U	ND<1.5 U	-0.75	157	188
ND<0.75 U	ND<1.5 U	-0.75	157	189
ND<0.75 U	ND<1.5 U	-0.75	157	190
ND<0.75 U	ND<1.5 U	-0.75	157	191
ND<0.75 U	ND<1.5 U	-0.75	157	192
ND<0.75 U	ND<1.5 U	-0.75	157	193
ND<0.75 U	ND<1.5 U	-0.75	157	194
ND<0.75 U	ND<1.5 U	-0.75	157	195
ND<0.5 U	ND<1.5 U	-1	157	196
ND<0.5 U	ND<1.5 U	-1	157	197
ND<0.5 U	ND<1.5 U	-1	157	198
ND<0.5 U	ND<1.5 U	-1	157	199
ND<0.5 U	ND<1.5 U	-1	157	200
ND<0.5 U	ND<1.5 U	-1	157	201
ND<0.5 U	ND<1.5 U	-1	157	202
ND<0.5 U	ND<1.5 U	-1	157	203
ND<0.5 U	ND<1.5 U	-1	157	204
ND<0.5 U	ND<1.5 U	-1	157	205
ND<0.5 U	ND<1.5 U	-1	157	206
ND<0.5 U	ND<1.5 U	-1	157	207
ND<0.5 U	ND<1.5 U	-1	157	208
ND<0.5 U	ND<1.5 U	-1	157	209
ND<1 U	ND<1.5 U	-0.5	157	210
ND<1 U	ND<1.5 U	-0.5	157	211
ND<1 U	ND<1.5 U	-0.5	157	212
ND<1 U	ND<1.5 U	-0.5	157	213
ND<1 U	ND<1.5 U	-0.5	157	214
ND<1.5 U	ND<1.5 U	0	157	214
ND<0.75 U	ND<1.5 U	-0.75	157	215
ND<0.75 U	ND<1.5 U	-0.75	157	216
ND<0.75 U	ND<1.5 U	-0.75	157	217
ND<0.75 U	ND<1.5 U	-0.75	157	218
ND<0.75 U	ND<1.5 U	-0.75	157	219
ND<0.75 U	ND<1.5 U	-0.75	157	220
ND<0.75 U	ND<1.5 U	-0.75	157	221
ND<0.75 U	ND<1.5 U	-0.75	157	222
ND<0.75 U	ND<1.5 U	-0.75	157	223
ND<0.75 U	ND<1.5 U	-0.75	157	224
ND<0.75 U	ND<1.5 U	-0.75	157	225
ND<0.75 U	ND<1.5 U	-0.75	157	226
ND<0.75 U	ND<1.5 U	-0.75	157	227
ND<0.75 U	ND<1.5 U	-0.75	157	228
ND<0.75 U	ND<1.5 U	-0.75	157	229
ND<0.75 U	ND<1.5 U	-0.75	157	230
ND<0.75 U	ND<1.5 U	-0.75	157	231
ND<0.75 U	ND<1.5 U	-0.75	157	232
ND<0.75 U	ND<1.5 U	-0.75	157	233
ND<0.75 U	ND<1.5 U	-0.75	157	234
ND<0.75 U	ND<1.5 U	-0.75	157	235
ND<0.5 U	ND<1.5 U	-1	157	236
ND<0.5 U	ND<1.5 U	-1	157	237
ND<0.5 U	ND<1.5 U	-1	157	238
ND<0.5 U	ND<1.5 U	-1	157	239
ND<0.5 U	ND<1.5 U	-1	157	240
ND<0.5 U	ND<1.5 U	-1	157	241

ND<0.5 U	ND<1.5 U	-1	157	242
ND<0.5 U	ND<1.5 U	-1	157	243
ND<0.5 U	ND<1.5 U	-1	157	244
ND<0.5 U	ND<1.5 U	-1	157	245
ND<0.5 U	ND<1.5 U	-1	157	246
ND<0.5 U	ND<1.5 U	-1	157	247
ND<0.5 U	ND<1.5 U	-1	157	248
ND<0.5 U	ND<1.5 U	-1	157	249
ND<1 U	ND<1.5 U	-0.5	157	250
ND<1 U	ND<1.5 U	-0.5	157	251
ND<1 U	ND<1.5 U	-0.5	157	252
ND<1 U	ND<1.5 U	-0.5	157	253
ND<1 U	ND<1.5 U	-0.5	157	254
ND<0.75 U	ND<1.5 U	-0.75	157	255
ND<0.75 U	ND<1.5 U	-0.75	157	256
ND<0.75 U	ND<1.5 U	-0.75	157	257
ND<0.75 U	ND<1.5 U	-0.75	157	258
ND<0.75 U	ND<1.5 U	-0.75	157	259
ND<0.75 U	ND<1.5 U	-0.75	157	260
ND<0.75 U	ND<1.5 U	-0.75	157	261
ND<0.75 U	ND<1.5 U	-0.75	157	262
ND<0.75 U	ND<1.5 U	-0.75	157	263
ND<0.75 U	ND<1.5 U	-0.75	157	264
ND<0.75 U	ND<1.5 U	-0.75	157	265
ND<0.75 U	ND<1.5 U	-0.75	157	266
ND<0.75 U	ND<1.5 U	-0.75	157	267
ND<0.75 U	ND<1.5 U	-0.75	157	268
ND<0.75 U	ND<1.5 U	-0.75	157	269
ND<0.75 U	ND<1.5 U	-0.75	157	270
ND<0.75 U	ND<1.5 U	-0.75	157	271
ND<0.75 U	ND<1.5 U	-0.75	157	272
ND<0.75 U	ND<1.5 U	-0.75	157	273
ND<0.75 U	ND<1.5 U	-0.75	157	274
ND<0.75 U	ND<1.5 U	-0.75	157	275
ND<0.5 U	ND<1.5 U	-1	157	276
ND<0.5 U	ND<1.5 U	-1	157	277
ND<0.5 U	ND<1.5 U	-1	157	278
ND<0.5 U	ND<1.5 U	-1	157	279
ND<0.5 U	ND<1.5 U	-1	157	280
ND<0.5 U	ND<1.5 U	-1	157	281
ND<0.5 U	ND<1.5 U	-1	157	282
ND<0.5 U	ND<1.5 U	-1	157	283
ND<0.5 U	ND<1.5 U	-1	157	284
ND<0.5 U	ND<1.5 U	-1	157	285
ND<0.5 U	ND<1.5 U	-1	157	286
ND<0.5 U	ND<1.5 U	-1	157	287
ND<0.5 U	ND<1.5 U	-1	157	288
ND<0.5 U	ND<1.5 U	-1	157	289
ND<1 U	ND<1.5 U	-0.5	157	290
ND<1 U	ND<1.5 U	-0.5	157	291
ND<1 U	ND<1.5 U	-0.5	157	292
ND<1 U	ND<1.5 U	-0.5	157	293
ND<1 U	ND<1.5 U	-0.5	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294

ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.75 U	ND<0.75 U	0	157	294
ND<0.5 U	ND<0.75 U	-0.25	157	295
ND<0.5 U	ND<0.75 U	-0.25	157	296
ND<0.5 U	ND<0.75 U	-0.25	157	297
ND<0.5 U	ND<0.75 U	-0.25	157	298
ND<0.5 U	ND<0.75 U	-0.25	157	299
ND<0.5 U	ND<0.75 U	-0.25	157	300
ND<0.5 U	ND<0.75 U	-0.25	157	301
ND<0.5 U	ND<0.75 U	-0.25	157	302
ND<0.5 U	ND<0.75 U	-0.25	157	303
ND<0.5 U	ND<0.75 U	-0.25	157	304
ND<0.5 U	ND<0.75 U	-0.25	157	305
ND<0.5 U	ND<0.75 U	-0.25	157	306
ND<0.5 U	ND<0.75 U	-0.25	157	307
ND<0.5 U	ND<0.75 U	-0.25	157	308
ND<1 U	ND<0.75 U	0.25	158	308
ND<1 U	ND<0.75 U	0.25	159	308
ND<1 U	ND<0.75 U	0.25	160	308
ND<1 U	ND<0.75 U	0.25	161	308
ND<1 U	ND<0.75 U	0.25	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308
ND<0.75 U	ND<0.75 U	0	162	308

ND<0.5 U	ND<0.75 U	-0.25	162	309
ND<0.5 U	ND<0.75 U	-0.25	162	310
ND<0.5 U	ND<0.75 U	-0.25	162	311
ND<0.5 U	ND<0.75 U	-0.25	162	312
ND<0.5 U	ND<0.75 U	-0.25	162	313
ND<0.5 U	ND<0.75 U	-0.25	162	314
ND<0.5 U	ND<0.75 U	-0.25	162	315
ND<0.5 U	ND<0.75 U	-0.25	162	316
ND<0.5 U	ND<0.75 U	-0.25	162	317
ND<0.5 U	ND<0.75 U	-0.25	162	318
ND<0.5 U	ND<0.75 U	-0.25	162	319
ND<0.5 U	ND<0.75 U	-0.25	162	320
ND<0.5 U	ND<0.75 U	-0.25	162	321
ND<0.5 U	ND<0.75 U	-0.25	162	322
ND<1 U	ND<0.75 U	0.25	163	322
ND<1 U	ND<0.75 U	0.25	164	322
ND<1 U	ND<0.75 U	0.25	165	322
ND<1 U	ND<0.75 U	0.25	166	322
ND<1 U	ND<0.75 U	0.25	167	322

ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.75 U	ND<0.75 U	0	167	322
ND<0.5 U	ND<0.75 U	-0.25	167	323
ND<0.5 U	ND<0.75 U	-0.25	167	324
ND<0.5 U	ND<0.75 U	-0.25	167	325
ND<0.5 U	ND<0.75 U	-0.25	167	326
ND<0.5 U	ND<0.75 U	-0.25	167	327
ND<0.5 U	ND<0.75 U	-0.25	167	328
ND<0.5 U	ND<0.75 U	-0.25	167	329
ND<0.5 U	ND<0.75 U	-0.25	167	330
ND<0.5 U	ND<0.75 U	-0.25	167	331
ND<0.5 U	ND<0.75 U	-0.25	167	332
ND<0.5 U	ND<0.75 U	-0.25	167	333
ND<0.5 U	ND<0.75 U	-0.25	167	334
ND<0.5 U	ND<0.75 U	-0.25	167	335
ND<0.5 U	ND<0.75 U	-0.25	167	336
ND<1 U	ND<0.75 U	0.25	168	336
ND<1 U	ND<0.75 U	0.25	169	336
ND<1 U	ND<0.75 U	0.25	170	336
ND<1 U	ND<0.75 U	0.25	171	336
ND<1 U	ND<0.75 U	0.25	172	336

ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.75 U	ND<0.75 U	0	172	336
ND<0.5 U	ND<0.75 U	-0.25	172	337
ND<0.5 U	ND<0.75 U	-0.25	172	338
ND<0.5 U	ND<0.75 U	-0.25	172	339
ND<0.5 U	ND<0.75 U	-0.25	172	340
ND<0.5 U	ND<0.75 U	-0.25	172	341
ND<0.5 U	ND<0.75 U	-0.25	172	342
ND<0.5 U	ND<0.75 U	-0.25	172	343
ND<0.5 U	ND<0.75 U	-0.25	172	344
ND<0.5 U	ND<0.75 U	-0.25	172	345
ND<0.5 U	ND<0.75 U	-0.25	172	346
ND<0.5 U	ND<0.75 U	-0.25	172	347
ND<0.5 U	ND<0.75 U	-0.25	172	348
ND<0.5 U	ND<0.75 U	-0.25	172	349
ND<0.5 U	ND<0.75 U	-0.25	172	350
ND<1 U	ND<0.75 U	0.25	173	350
ND<1 U	ND<0.75 U	0.25	174	350
ND<1 U	ND<0.75 U	0.25	175	350
ND<1 U	ND<0.75 U	0.25	176	350
ND<1 U	ND<0.75 U	0.25	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.75 U	ND<0.75 U	0	177	350
ND<0.5 U	ND<0.75 U	-0.25	177	351
ND<0.5 U	ND<0.75 U	-0.25	177	352
ND<0.5 U	ND<0.75 U	-0.25	177	353

ND<0.5 U	ND<0.75 U	-0.25	177	354
ND<0.5 U	ND<0.75 U	-0.25	177	355
ND<0.5 U	ND<0.75 U	-0.25	177	356
ND<0.5 U	ND<0.75 U	-0.25	177	357
ND<0.5 U	ND<0.75 U	-0.25	177	358
ND<0.5 U	ND<0.75 U	-0.25	177	359
ND<0.5 U	ND<0.75 U	-0.25	177	360
ND<0.5 U	ND<0.75 U	-0.25	177	361
ND<0.5 U	ND<0.75 U	-0.25	177	362
ND<0.5 U	ND<0.75 U	-0.25	177	363
ND<0.5 U	ND<0.75 U	-0.25	177	364
ND<1 U	ND<0.75 U	0.25	178	364
ND<1 U	ND<0.75 U	0.25	179	364
ND<1 U	ND<0.75 U	0.25	180	364
ND<1 U	ND<0.75 U	0.25	181	364
ND<1 U	ND<0.75 U	0.25	182	364

ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.75 U	ND<0.75 U	0	182	364
ND<0.5 U	ND<0.75 U	-0.25	182	365
ND<0.5 U	ND<0.75 U	-0.25	182	366
ND<0.5 U	ND<0.75 U	-0.25	182	367
ND<0.5 U	ND<0.75 U	-0.25	182	368
ND<0.5 U	ND<0.75 U	-0.25	182	369
ND<0.5 U	ND<0.75 U	-0.25	182	370
ND<0.5 U	ND<0.75 U	-0.25	182	371
ND<0.5 U	ND<0.75 U	-0.25	182	372
ND<0.5 U	ND<0.75 U	-0.25	182	373
ND<0.5 U	ND<0.75 U	-0.25	182	374
ND<0.5 U	ND<0.75 U	-0.25	182	375
ND<0.5 U	ND<0.75 U	-0.25	182	376
ND<0.5 U	ND<0.75 U	-0.25	182	377
ND<0.5 U	ND<0.75 U	-0.25	182	378
ND<1 U	ND<0.75 U	0.25	183	378
ND<1 U	ND<0.75 U	0.25	184	378
ND<1 U	ND<0.75 U	0.25	185	378
ND<1 U	ND<0.75 U	0.25	186	378
ND<1 U	ND<0.75 U	0.25	187	378

ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378

ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.75 U	ND<0.75 U	0	187	378
ND<0.5 U	ND<0.75 U	-0.25	187	379
ND<0.5 U	ND<0.75 U	-0.25	187	380
ND<0.5 U	ND<0.75 U	-0.25	187	381
ND<0.5 U	ND<0.75 U	-0.25	187	382
ND<0.5 U	ND<0.75 U	-0.25	187	383
ND<0.5 U	ND<0.75 U	-0.25	187	384
ND<0.5 U	ND<0.75 U	-0.25	187	385
ND<0.5 U	ND<0.75 U	-0.25	187	386
ND<0.5 U	ND<0.75 U	-0.25	187	387
ND<0.5 U	ND<0.75 U	-0.25	187	388
ND<0.5 U	ND<0.75 U	-0.25	187	389
ND<0.5 U	ND<0.75 U	-0.25	187	390
ND<0.5 U	ND<0.75 U	-0.25	187	391
ND<0.5 U	ND<0.75 U	-0.25	187	392
ND<1 U	ND<0.75 U	0.25	188	392
ND<1 U	ND<0.75 U	0.25	189	392
ND<1 U	ND<0.75 U	0.25	190	392
ND<1 U	ND<0.75 U	0.25	191	392
ND<1 U	ND<0.75 U	0.25	192	392

ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.75 U	ND<0.75 U	0	192	392
ND<0.5 U	ND<0.75 U	-0.25	192	393
ND<0.5 U	ND<0.75 U	-0.25	192	394
ND<0.5 U	ND<0.75 U	-0.25	192	395
ND<0.5 U	ND<0.75 U	-0.25	192	396
ND<0.5 U	ND<0.75 U	-0.25	192	397
ND<0.5 U	ND<0.75 U	-0.25	192	398
ND<0.5 U	ND<0.75 U	-0.25	192	399
ND<0.5 U	ND<0.75 U	-0.25	192	400
ND<0.5 U	ND<0.75 U	-0.25	192	401
ND<0.5 U	ND<0.75 U	-0.25	192	402
ND<0.5 U	ND<0.75 U	-0.25	192	403
ND<0.5 U	ND<0.75 U	-0.25	192	404
ND<0.5 U	ND<0.75 U	-0.25	192	405
ND<0.5 U	ND<0.75 U	-0.25	192	406
ND<1 U	ND<0.75 U	0.25	193	406

ND<1 U	ND<0.75 U	0.25	194	406
ND<1 U	ND<0.75 U	0.25	195	406
ND<1 U	ND<0.75 U	0.25	196	406
ND<1 U	ND<0.75 U	0.25	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.75 U	ND<0.75 U	0	197	406
ND<0.5 U	ND<0.75 U	-0.25	197	407
ND<0.5 U	ND<0.75 U	-0.25	197	408
ND<0.5 U	ND<0.75 U	-0.25	197	409
ND<0.5 U	ND<0.75 U	-0.25	197	410
ND<0.5 U	ND<0.75 U	-0.25	197	411
ND<0.5 U	ND<0.75 U	-0.25	197	412
ND<0.5 U	ND<0.75 U	-0.25	197	413
ND<0.5 U	ND<0.75 U	-0.25	197	414
ND<0.5 U	ND<0.75 U	-0.25	197	415
ND<0.5 U	ND<0.75 U	-0.25	197	416
ND<0.5 U	ND<0.75 U	-0.25	197	417
ND<0.5 U	ND<0.75 U	-0.25	197	418
ND<0.5 U	ND<0.75 U	-0.25	197	419
ND<0.5 U	ND<0.75 U	-0.25	197	420
ND<1 U	ND<0.75 U	0.25	198	420
ND<1 U	ND<0.75 U	0.25	199	420
ND<1 U	ND<0.75 U	0.25	200	420
ND<1 U	ND<0.75 U	0.25	201	420
ND<1 U	ND<0.75 U	0.25	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.75 U	ND<0.75 U	0	202	420
ND<0.5 U	ND<0.75 U	-0.25	202	421
ND<0.5 U	ND<0.75 U	-0.25	202	422
ND<0.5 U	ND<0.75 U	-0.25	202	423
ND<0.5 U	ND<0.75 U	-0.25	202	424
ND<0.5 U	ND<0.75 U	-0.25	202	425
ND<0.5 U	ND<0.75 U	-0.25	202	426
ND<0.5 U	ND<0.75 U	-0.25	202	427
ND<0.5 U	ND<0.75 U	-0.25	202	428
ND<0.5 U	ND<0.75 U	-0.25	202	429

ND<0.5 U	ND<0.75 U	-0.25	202	430
ND<0.5 U	ND<0.75 U	-0.25	202	431
ND<0.5 U	ND<0.75 U	-0.25	202	432
ND<0.5 U	ND<0.75 U	-0.25	202	433
ND<0.5 U	ND<0.75 U	-0.25	202	434
ND<1 U	ND<0.75 U	0.25	203	434
ND<1 U	ND<0.75 U	0.25	204	434
ND<1 U	ND<0.75 U	0.25	205	434
ND<1 U	ND<0.75 U	0.25	206	434
ND<1 U	ND<0.75 U	0.25	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.75 U	ND<0.75 U	0	207	434
ND<0.5 U	ND<0.75 U	-0.25	207	435
ND<0.5 U	ND<0.75 U	-0.25	207	436
ND<0.5 U	ND<0.75 U	-0.25	207	437
ND<0.5 U	ND<0.75 U	-0.25	207	438
ND<0.5 U	ND<0.75 U	-0.25	207	439
ND<0.5 U	ND<0.75 U	-0.25	207	440
ND<0.5 U	ND<0.75 U	-0.25	207	441
ND<0.5 U	ND<0.75 U	-0.25	207	442
ND<0.5 U	ND<0.75 U	-0.25	207	443
ND<0.5 U	ND<0.75 U	-0.25	207	444
ND<0.5 U	ND<0.75 U	-0.25	207	445
ND<0.5 U	ND<0.75 U	-0.25	207	446
ND<0.5 U	ND<0.75 U	-0.25	207	447
ND<0.5 U	ND<0.75 U	-0.25	207	448
ND<1 U	ND<0.75 U	0.25	208	448
ND<1 U	ND<0.75 U	0.25	209	448
ND<1 U	ND<0.75 U	0.25	210	448
ND<1 U	ND<0.75 U	0.25	211	448
ND<1 U	ND<0.75 U	0.25	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.75 U	ND<0.75 U	0	212	448
ND<0.5 U	ND<0.75 U	-0.25	212	449
ND<0.5 U	ND<0.75 U	-0.25	212	450
ND<0.5 U	ND<0.75 U	-0.25	212	451
ND<0.5 U	ND<0.75 U	-0.25	212	452
ND<0.5 U	ND<0.75 U	-0.25	212	453
ND<0.5 U	ND<0.75 U	-0.25	212	454
ND<0.5 U	ND<0.75 U	-0.25	212	455

ND<0.5 U	ND<0.75 U	-0.25	212	456
ND<0.5 U	ND<0.75 U	-0.25	212	457
ND<0.5 U	ND<0.75 U	-0.25	212	458
ND<0.5 U	ND<0.75 U	-0.25	212	459
ND<0.5 U	ND<0.75 U	-0.25	212	460
ND<0.5 U	ND<0.75 U	-0.25	212	461
ND<0.5 U	ND<0.75 U	-0.25	212	462
ND<1 U	ND<0.75 U	0.25	213	462
ND<1 U	ND<0.75 U	0.25	214	462
ND<1 U	ND<0.75 U	0.25	215	462
ND<1 U	ND<0.75 U	0.25	216	462
ND<1 U	ND<0.75 U	0.25	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.75 U	ND<0.75 U	0	217	462
ND<0.5 U	ND<0.75 U	-0.25	217	463
ND<0.5 U	ND<0.75 U	-0.25	217	464
ND<0.5 U	ND<0.75 U	-0.25	217	465
ND<0.5 U	ND<0.75 U	-0.25	217	466
ND<0.5 U	ND<0.75 U	-0.25	217	467
ND<0.5 U	ND<0.75 U	-0.25	217	468
ND<0.5 U	ND<0.75 U	-0.25	217	469
ND<0.5 U	ND<0.75 U	-0.25	217	470
ND<0.5 U	ND<0.75 U	-0.25	217	471
ND<0.5 U	ND<0.75 U	-0.25	217	472
ND<0.5 U	ND<0.75 U	-0.25	217	473
ND<0.5 U	ND<0.75 U	-0.25	217	474
ND<0.5 U	ND<0.75 U	-0.25	217	475
ND<0.5 U	ND<0.75 U	-0.25	217	476
ND<1 U	ND<0.75 U	0.25	218	476
ND<1 U	ND<0.75 U	0.25	219	476
ND<1 U	ND<0.75 U	0.25	220	476
ND<1 U	ND<0.75 U	0.25	221	476
ND<1 U	ND<0.75 U	0.25	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.75 U	ND<0.75 U	0	222	476
ND<0.5 U	ND<0.75 U	-0.25	222	477
ND<0.5 U	ND<0.75 U	-0.25	222	478
ND<0.5 U	ND<0.75 U	-0.25	222	479
ND<0.5 U	ND<0.75 U	-0.25	222	480
ND<0.5 U	ND<0.75 U	-0.25	222	481
ND<0.5 U	ND<0.75 U	-0.25	222	482
ND<0.5 U	ND<0.75 U	-0.25	222	483
ND<0.5 U	ND<0.75 U	-0.25	222	484
ND<0.5 U	ND<0.75 U	-0.25	222	485

ND<0.5 U	ND<0.75 U	-0.25	222	486
ND<0.5 U	ND<0.75 U	-0.25	222	487
ND<0.5 U	ND<0.75 U	-0.25	222	488
ND<0.5 U	ND<0.75 U	-0.25	222	489
ND<0.5 U	ND<0.75 U	-0.25	222	490
ND<1 U	ND<0.75 U	0.25	223	490
ND<1 U	ND<0.75 U	0.25	224	490
ND<1 U	ND<0.75 U	0.25	225	490
ND<1 U	ND<0.75 U	0.25	226	490
ND<1 U	ND<0.75 U	0.25	227	490
ND<0.75 U	ND<0.75 U	0	227	490
ND<0.75 U	ND<0.75 U	0	227	490
ND<0.75 U	ND<0.75 U	0	227	490
ND<0.75 U	ND<0.75 U	0	227	490
ND<0.75 U	ND<0.75 U	0	227	490
ND<0.75 U	ND<0.75 U	0	227	490
ND<0.5 U	ND<0.75 U	-0.25	227	491
ND<0.5 U	ND<0.75 U	-0.25	227	492
ND<0.5 U	ND<0.75 U	-0.25	227	493
ND<0.5 U	ND<0.75 U	-0.25	227	494
ND<0.5 U	ND<0.75 U	-0.25	227	495
ND<0.5 U	ND<0.75 U	-0.25	227	496
ND<0.5 U	ND<0.75 U	-0.25	227	497
ND<0.5 U	ND<0.75 U	-0.25	227	498
ND<0.5 U	ND<0.75 U	-0.25	227	499
ND<0.5 U	ND<0.75 U	-0.25	227	500
ND<0.5 U	ND<0.75 U	-0.25	227	501
ND<0.5 U	ND<0.75 U	-0.25	227	502
ND<0.5 U	ND<0.75 U	-0.25	227	503
ND<0.5 U	ND<0.75 U	-0.25	227	504
ND<1 U	ND<0.75 U	0.25	228	504
ND<1 U	ND<0.75 U	0.25	229	504
ND<1 U	ND<0.75 U	0.25	230	504
ND<1 U	ND<0.75 U	0.25	231	504
ND<1 U	ND<0.75 U	0.25	232	504
ND<0.75 U	ND<0.75 U	0	232	504
ND<0.75 U	ND<0.75 U	0	232	504
ND<0.75 U	ND<0.75 U	0	232	504
ND<0.75 U	ND<0.75 U	0	232	504
ND<0.75 U	ND<0.75 U	0	232	504
ND<0.5 U	ND<0.75 U	-0.25	232	505
ND<0.5 U	ND<0.75 U	-0.25	232	506
ND<0.5 U	ND<0.75 U	-0.25	232	507
ND<0.5 U	ND<0.75 U	-0.25	232	508
ND<0.5 U	ND<0.75 U	-0.25	232	509
ND<0.5 U	ND<0.75 U	-0.25	232	510
ND<0.5 U	ND<0.75 U	-0.25	232	511
ND<0.5 U	ND<0.75 U	-0.25	232	512
ND<0.5 U	ND<0.75 U	-0.25	232	513
ND<0.5 U	ND<0.75 U	-0.25	232	514
ND<0.5 U	ND<0.75 U	-0.25	232	515
ND<0.5 U	ND<0.75 U	-0.25	232	516
ND<0.5 U	ND<0.75 U	-0.25	232	517
ND<0.5 U	ND<0.75 U	-0.25	232	518
ND<1 U	ND<0.75 U	0.25	233	518

ND<1 U	ND<0.75 U	0.25	234	518
ND<1 U	ND<0.75 U	0.25	235	518
ND<1 U	ND<0.75 U	0.25	236	518
ND<1 U	ND<0.75 U	0.25	237	518

ND<0.75 U	ND<0.75 U	0	237	518
ND<0.75 U	ND<0.75 U	0	237	518
ND<0.75 U	ND<0.75 U	0	237	518
ND<0.75 U	ND<0.75 U	0	237	518
ND<0.5 U	ND<0.75 U	-0.25	237	519
ND<0.5 U	ND<0.75 U	-0.25	237	520
ND<0.5 U	ND<0.75 U	-0.25	237	521
ND<0.5 U	ND<0.75 U	-0.25	237	522
ND<0.5 U	ND<0.75 U	-0.25	237	523
ND<0.5 U	ND<0.75 U	-0.25	237	524
ND<0.5 U	ND<0.75 U	-0.25	237	525
ND<0.5 U	ND<0.75 U	-0.25	237	526
ND<0.5 U	ND<0.75 U	-0.25	237	527
ND<0.5 U	ND<0.75 U	-0.25	237	528
ND<0.5 U	ND<0.75 U	-0.25	237	529
ND<0.5 U	ND<0.75 U	-0.25	237	530
ND<0.5 U	ND<0.75 U	-0.25	237	531
ND<0.5 U	ND<0.75 U	-0.25	237	532
ND<1 U	ND<0.75 U	0.25	238	532
ND<1 U	ND<0.75 U	0.25	239	532
ND<1 U	ND<0.75 U	0.25	240	532
ND<1 U	ND<0.75 U	0.25	241	532
ND<1 U	ND<0.75 U	0.25	242	532

ND<0.75 U	ND<0.75 U	0	242	532
ND<0.75 U	ND<0.75 U	0	242	532
ND<0.75 U	ND<0.75 U	0	242	532
ND<0.5 U	ND<0.75 U	-0.25	242	533
ND<0.5 U	ND<0.75 U	-0.25	242	534
ND<0.5 U	ND<0.75 U	-0.25	242	535
ND<0.5 U	ND<0.75 U	-0.25	242	536
ND<0.5 U	ND<0.75 U	-0.25	242	537
ND<0.5 U	ND<0.75 U	-0.25	242	538
ND<0.5 U	ND<0.75 U	-0.25	242	539
ND<0.5 U	ND<0.75 U	-0.25	242	540
ND<0.5 U	ND<0.75 U	-0.25	242	541
ND<0.5 U	ND<0.75 U	-0.25	242	542
ND<0.5 U	ND<0.75 U	-0.25	242	543
ND<0.5 U	ND<0.75 U	-0.25	242	544
ND<0.5 U	ND<0.75 U	-0.25	242	545
ND<0.5 U	ND<0.75 U	-0.25	242	546
ND<1 U	ND<0.75 U	0.25	243	546
ND<1 U	ND<0.75 U	0.25	244	546
ND<1 U	ND<0.75 U	0.25	245	546
ND<1 U	ND<0.75 U	0.25	246	546
ND<1 U	ND<0.75 U	0.25	247	546

ND<0.75 U	ND<0.75 U	0	247	546
ND<0.75 U	ND<0.75 U	0	247	546
ND<0.5 U	ND<0.75 U	-0.25	247	547
ND<0.5 U	ND<0.75 U	-0.25	247	548
ND<0.5 U	ND<0.75 U	-0.25	247	549

ND<0.5 U	ND<0.75 U	-0.25	247	550
ND<0.5 U	ND<0.75 U	-0.25	247	551
ND<0.5 U	ND<0.75 U	-0.25	247	552
ND<0.5 U	ND<0.75 U	-0.25	247	553
ND<0.5 U	ND<0.75 U	-0.25	247	554
ND<0.5 U	ND<0.75 U	-0.25	247	555
ND<0.5 U	ND<0.75 U	-0.25	247	556
ND<0.5 U	ND<0.75 U	-0.25	247	557
ND<0.5 U	ND<0.75 U	-0.25	247	558
ND<0.5 U	ND<0.75 U	-0.25	247	559
ND<0.5 U	ND<0.75 U	-0.25	247	560
ND<1 U	ND<0.75 U	0.25	248	560
ND<1 U	ND<0.75 U	0.25	249	560
ND<1 U	ND<0.75 U	0.25	250	560
ND<1 U	ND<0.75 U	0.25	251	560
ND<1 U	ND<0.75 U	0.25	252	560
ND<0.75 U	ND<0.75 U	0	252	560
ND<0.5 U	ND<0.75 U	-0.25	252	561
ND<0.5 U	ND<0.75 U	-0.25	252	562
ND<0.5 U	ND<0.75 U	-0.25	252	563
ND<0.5 U	ND<0.75 U	-0.25	252	564
ND<0.5 U	ND<0.75 U	-0.25	252	565
ND<0.5 U	ND<0.75 U	-0.25	252	566
ND<0.5 U	ND<0.75 U	-0.25	252	567
ND<0.5 U	ND<0.75 U	-0.25	252	568
ND<0.5 U	ND<0.75 U	-0.25	252	569
ND<0.5 U	ND<0.75 U	-0.25	252	570
ND<0.5 U	ND<0.75 U	-0.25	252	571
ND<0.5 U	ND<0.75 U	-0.25	252	572
ND<0.5 U	ND<0.75 U	-0.25	252	573
ND<0.5 U	ND<0.75 U	-0.25	252	574
ND<1 U	ND<0.75 U	0.25	253	574
ND<1 U	ND<0.75 U	0.25	254	574
ND<1 U	ND<0.75 U	0.25	255	574
ND<1 U	ND<0.75 U	0.25	256	574
ND<1 U	ND<0.75 U	0.25	257	574
ND<0.5 U	ND<0.75 U	-0.25	257	575
ND<0.5 U	ND<0.75 U	-0.25	257	576
ND<0.5 U	ND<0.75 U	-0.25	257	577
ND<0.5 U	ND<0.75 U	-0.25	257	578
ND<0.5 U	ND<0.75 U	-0.25	257	579
ND<0.5 U	ND<0.75 U	-0.25	257	580
ND<0.5 U	ND<0.75 U	-0.25	257	581
ND<0.5 U	ND<0.75 U	-0.25	257	582
ND<0.5 U	ND<0.75 U	-0.25	257	583
ND<0.5 U	ND<0.75 U	-0.25	257	584
ND<0.5 U	ND<0.75 U	-0.25	257	585
ND<0.5 U	ND<0.75 U	-0.25	257	586
ND<0.5 U	ND<0.75 U	-0.25	257	587
ND<0.5 U	ND<0.75 U	-0.25	257	588
ND<1 U	ND<0.75 U	0.25	258	588
ND<1 U	ND<0.75 U	0.25	259	588
ND<1 U	ND<0.75 U	0.25	260	588
ND<1 U	ND<0.75 U	0.25	261	588
ND<1 U	ND<0.75 U	0.25	262	588

ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<0.5 U	ND<0.5 U	0	262	588
ND<1 U	ND<0.5 U	0.5	263	588
ND<1 U	ND<0.5 U	0.5	264	588
ND<1 U	ND<0.5 U	0.5	265	588
ND<1 U	ND<0.5 U	0.5	266	588
ND<1 U	ND<0.5 U	0.5	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<0.5 U	ND<0.5 U	0	267	588
ND<1 U	ND<0.5 U	0.5	268	588
ND<1 U	ND<0.5 U	0.5	269	588
ND<1 U	ND<0.5 U	0.5	270	588
ND<1 U	ND<0.5 U	0.5	271	588
ND<1 U	ND<0.5 U	0.5	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<0.5 U	ND<0.5 U	0	272	588
ND<1 U	ND<0.5 U	0.5	273	588
ND<1 U	ND<0.5 U	0.5	274	588
ND<1 U	ND<0.5 U	0.5	275	588
ND<1 U	ND<0.5 U	0.5	276	588
ND<1 U	ND<0.5 U	0.5	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588

ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<0.5 U	ND<0.5 U	0	277	588
ND<1 U	ND<0.5 U	0.5	278	588
ND<1 U	ND<0.5 U	0.5	279	588
ND<1 U	ND<0.5 U	0.5	280	588
ND<1 U	ND<0.5 U	0.5	281	588
ND<1 U	ND<0.5 U	0.5	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<0.5 U	ND<0.5 U	0	282	588
ND<1 U	ND<0.5 U	0.5	283	588
ND<1 U	ND<0.5 U	0.5	284	588
ND<1 U	ND<0.5 U	0.5	285	588
ND<1 U	ND<0.5 U	0.5	286	588
ND<1 U	ND<0.5 U	0.5	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<0.5 U	ND<0.5 U	0	287	588
ND<1 U	ND<0.5 U	0.5	288	588
ND<1 U	ND<0.5 U	0.5	289	588
ND<1 U	ND<0.5 U	0.5	290	588
ND<1 U	ND<0.5 U	0.5	291	588
ND<1 U	ND<0.5 U	0.5	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<0.5 U	ND<0.5 U	0	292	588
ND<1 U	ND<0.5 U	0.5	293	588
ND<1 U	ND<0.5 U	0.5	294	588
ND<1 U	ND<0.5 U	0.5	295	588
ND<1 U	ND<0.5 U	0.5	296	588
ND<1 U	ND<0.5 U	0.5	297	588
ND<0.5 U	ND<0.5 U	0	297	588

ND<0.5 U	ND<0.5 U	0	297	588
ND<0.5 U	ND<0.5 U	0	297	588
ND<0.5 U	ND<0.5 U	0	297	588
ND<0.5 U	ND<0.5 U	0	297	588
ND<0.5 U	ND<0.5 U	0	297	588
ND<1 U	ND<0.5 U	0.5	298	588
ND<1 U	ND<0.5 U	0.5	299	588
ND<1 U	ND<0.5 U	0.5	300	588
ND<1 U	ND<0.5 U	0.5	301	588
ND<1 U	ND<0.5 U	0.5	302	588
ND<0.5 U	ND<0.5 U	0	302	588
ND<0.5 U	ND<0.5 U	0	302	588
ND<0.5 U	ND<0.5 U	0	302	588
ND<0.5 U	ND<0.5 U	0	302	588
ND<0.5 U	ND<0.5 U	0	302	588
ND<1 U	ND<0.5 U	0.5	303	588
ND<1 U	ND<0.5 U	0.5	304	588
ND<1 U	ND<0.5 U	0.5	305	588
ND<1 U	ND<0.5 U	0.5	306	588
ND<1 U	ND<0.5 U	0.5	307	588
ND<0.5 U	ND<0.5 U	0	307	588
ND<0.5 U	ND<0.5 U	0	307	588
ND<0.5 U	ND<0.5 U	0	307	588
ND<0.5 U	ND<0.5 U	0	307	588
ND<1 U	ND<0.5 U	0.5	308	588
ND<1 U	ND<0.5 U	0.5	309	588
ND<1 U	ND<0.5 U	0.5	310	588
ND<1 U	ND<0.5 U	0.5	311	588
ND<1 U	ND<0.5 U	0.5	312	588
ND<0.5 U	ND<0.5 U	0	312	588
ND<0.5 U	ND<0.5 U	0	312	588
ND<0.5 U	ND<0.5 U	0	312	588
ND<1 U	ND<0.5 U	0.5	313	588
ND<1 U	ND<0.5 U	0.5	314	588
ND<1 U	ND<0.5 U	0.5	315	588
ND<1 U	ND<0.5 U	0.5	316	588
ND<1 U	ND<0.5 U	0.5	317	588
ND<0.5 U	ND<0.5 U	0	317	588
ND<0.5 U	ND<0.5 U	0	317	588
ND<1 U	ND<0.5 U	0.5	318	588
ND<1 U	ND<0.5 U	0.5	319	588
ND<1 U	ND<0.5 U	0.5	320	588
ND<1 U	ND<0.5 U	0.5	321	588
ND<1 U	ND<0.5 U	0.5	322	588
ND<0.5 U	ND<0.5 U	0	322	588
ND<1 U	ND<0.5 U	0.5	323	588
ND<1 U	ND<0.5 U	0.5	324	588
ND<1 U	ND<0.5 U	0.5	325	588
ND<1 U	ND<0.5 U	0.5	326	588
ND<1 U	ND<0.5 U	0.5	327	588
ND<1 U	ND<0.5 U	0.5	328	588

ND<1 U	ND<0.5 U	0.5	329	588
ND<1 U	ND<0.5 U	0.5	330	588
ND<1 U	ND<0.5 U	0.5	331	588
ND<1 U	ND<0.5 U	0.5	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588
ND<1 U	ND<1 U	0	332	588

S Statistic = 332 - 588 = -256

Tied Group	**Value**	**Members**
1	0.5	19
2	1.5	6
3	0.75	21
4	1	5

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1

```
3/20/2012            1
4/27/2012            1
5/24/2012            1
6/15/2012            1
7/26/2012            1
8/15/2012            1
9/11/2012            1
10/18/2012           1
11/14/2012           1
12/5/2012            1
1/29/2013            1
7/29/2013            1
1/31/2014            1
7/17/2014            1
1/27/2015            1
7/21/2015            1
1/27/2016            1
7/26/2016            1
1/30/2017            1
7/24/2017            1
1/29/2018            1
7/24/2018            1
1/30/2019            1
7/29/2019            1
There are 0 time periods with multiple data
```

```
A = 35256
B = 0
C = 13974
D = 0
E = 812
F = 0
a = 289068
b = 1.1934e+006
c = 5304
Group Variance = 14100.7
Z-Score = -2.14744
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-2.14744| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Xylenes

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<2 U	ND<0.5 U	1.5	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<0.5 U	ND<0.5 U	0	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<1.5 U	ND<0.5 U	1	5	0
ND<1.5 U	ND<0.5 U	1	6	0
ND<1.5 U	ND<0.5 U	1	7	0
ND<0.75 U	ND<0.5 U	0.25	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
ND<0.75 U	ND<0.5 U	0.25	12	0
ND<0.75 U	ND<0.5 U	0.25	13	0
ND<0.75 U	ND<0.5 U	0.25	14	0
ND<0.75 U	ND<0.5 U	0.25	15	0
ND<0.75 U	ND<0.5 U	0.25	16	0
ND<0.75 U	ND<0.5 U	0.25	17	0
ND<0.75 U	ND<0.5 U	0.25	18	0
ND<0.75 U	ND<0.5 U	0.25	19	0
ND<0.75 U	ND<0.5 U	0.25	20	0
ND<0.75 U	ND<0.5 U	0.25	21	0
ND<0.75 U	ND<0.5 U	0.25	22	0
ND<0.75 U	ND<0.5 U	0.25	23	0
ND<0.75 U	ND<0.5 U	0.25	24	0
ND<0.75 U	ND<0.5 U	0.25	25	0
ND<0.75 U	ND<0.5 U	0.25	26	0
ND<0.75 U	ND<0.5 U	0.25	27	0
ND<0.75 U	ND<0.5 U	0.25	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0

ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<1 U	ND<0.5 U	0.5	29	0
ND<1 U	ND<0.5 U	0.5	30	0
ND<1 U	ND<0.5 U	0.5	31	0
ND<1 U	ND<0.5 U	0.5	32	0
ND<1 U	ND<0.5 U	0.5	33	0
ND<1 U	ND<0.5 U	0.5	34	0
ND<1 U	ND<0.5 U	0.5	35	0
ND<1 U	ND<0.5 U	0.5	36	0
ND<1 U	ND<0.5 U	0.5	37	0
ND<1 U	ND<0.5 U	0.5	38	0
ND<2 U	ND<0.5 U	1.5	39	0
ND<1.5 U	ND<0.5 U	1	40	0
ND<0.5 U	ND<0.5 U	0	40	0
ND<1.5 U	ND<0.5 U	1	41	0
ND<0.5 U	ND<0.5 U	0	41	0
ND<0.5 U	ND<0.5 U	0	41	0
ND<1.5 U	ND<0.5 U	1	42	0
ND<1.5 U	ND<0.5 U	1	43	0
ND<1.5 U	ND<0.5 U	1	44	0
ND<1.5 U	ND<0.5 U	1	45	0
ND<0.75 U	ND<0.5 U	0.25	46	0
ND<0.75 U	ND<0.5 U	0.25	47	0
ND<0.75 U	ND<0.5 U	0.25	48	0
ND<0.75 U	ND<0.5 U	0.25	49	0
ND<0.75 U	ND<0.5 U	0.25	50	0
ND<0.75 U	ND<0.5 U	0.25	51	0
ND<0.75 U	ND<0.5 U	0.25	52	0
ND<0.75 U	ND<0.5 U	0.25	53	0
ND<0.75 U	ND<0.5 U	0.25	54	0
ND<0.75 U	ND<0.5 U	0.25	55	0
ND<0.75 U	ND<0.5 U	0.25	56	0
ND<0.75 U	ND<0.5 U	0.25	57	0
ND<0.75 U	ND<0.5 U	0.25	58	0
ND<0.75 U	ND<0.5 U	0.25	59	0
ND<0.75 U	ND<0.5 U	0.25	60	0
ND<0.75 U	ND<0.5 U	0.25	61	0
ND<0.75 U	ND<0.5 U	0.25	62	0
ND<0.75 U	ND<0.5 U	0.25	63	0
ND<0.75 U	ND<0.5 U	0.25	64	0
ND<0.75 U	ND<0.5 U	0.25	65	0
ND<0.75 U	ND<0.5 U	0.25	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0

ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<1 U	ND<0.5 U	0.5	67	0
ND<1 U	ND<0.5 U	0.5	68	0
ND<1 U	ND<0.5 U	0.5	69	0
ND<1 U	ND<0.5 U	0.5	70	0
ND<1 U	ND<0.5 U	0.5	71	0
ND<1 U	ND<0.5 U	0.5	72	0
ND<1 U	ND<0.5 U	0.5	73	0
ND<1 U	ND<0.5 U	0.5	74	0
ND<1 U	ND<0.5 U	0.5	75	0
ND<1 U	ND<0.5 U	0.5	76	0
ND<1.5 U	ND<2 U	-0.5	76	1
ND<0.5 U	ND<2 U	-1.5	76	2
ND<1.5 U	ND<2 U	-0.5	76	3
ND<0.5 U	ND<2 U	-1.5	76	4
ND<0.5 U	ND<2 U	-1.5	76	5
ND<1.5 U	ND<2 U	-0.5	76	6
ND<1.5 U	ND<2 U	-0.5	76	7
ND<1.5 U	ND<2 U	-0.5	76	8
ND<1.5 U	ND<2 U	-0.5	76	9
ND<0.75 U	ND<2 U	-1.25	76	10
ND<0.75 U	ND<2 U	-1.25	76	11
ND<0.75 U	ND<2 U	-1.25	76	12
ND<0.75 U	ND<2 U	-1.25	76	13
ND<0.75 U	ND<2 U	-1.25	76	14
ND<0.75 U	ND<2 U	-1.25	76	15
ND<0.75 U	ND<2 U	-1.25	76	16
ND<0.75 U	ND<2 U	-1.25	76	17
ND<0.75 U	ND<2 U	-1.25	76	18
ND<0.75 U	ND<2 U	-1.25	76	19
ND<0.75 U	ND<2 U	-1.25	76	20
ND<0.75 U	ND<2 U	-1.25	76	21
ND<0.75 U	ND<2 U	-1.25	76	22
ND<0.75 U	ND<2 U	-1.25	76	23
ND<0.75 U	ND<2 U	-1.25	76	24
ND<0.75 U	ND<2 U	-1.25	76	25
ND<0.75 U	ND<2 U	-1.25	76	26
ND<0.75 U	ND<2 U	-1.25	76	27
ND<0.75 U	ND<2 U	-1.25	76	28
ND<0.75 U	ND<2 U	-1.25	76	29
ND<0.75 U	ND<2 U	-1.25	76	30
ND<0.5 U	ND<2 U	-1.5	76	31
ND<0.5 U	ND<2 U	-1.5	76	32

ND<0.5 U	ND<2 U	-1.5	76	33
ND<0.5 U	ND<2 U	-1.5	76	34
ND<0.5 U	ND<2 U	-1.5	76	35
ND<0.5 U	ND<2 U	-1.5	76	36
ND<0.5 U	ND<2 U	-1.5	76	37
ND<0.5 U	ND<2 U	-1.5	76	38
ND<0.5 U	ND<2 U	-1.5	76	39
ND<0.5 U	ND<2 U	-1.5	76	40
ND<0.5 U	ND<2 U	-1.5	76	41
ND<0.5 U	ND<2 U	-1.5	76	42
ND<0.5 U	ND<2 U	-1.5	76	43
ND<0.5 U	ND<2 U	-1.5	76	44
ND<0.5 U	ND<2 U	-1.5	76	45
ND<0.5 U	ND<2 U	-1.5	76	46
ND<0.5 U	ND<2 U	-1.5	76	47
ND<0.5 U	ND<2 U	-1.5	76	48
ND<0.5 U	ND<2 U	-1.5	76	49
ND<0.5 U	ND<2 U	-1.5	76	50
ND<0.5 U	ND<2 U	-1.5	76	51
ND<0.5 U	ND<2 U	-1.5	76	52
ND<1 U	ND<2 U	-1	76	53
ND<1 U	ND<2 U	-1	76	54
ND<1 U	ND<2 U	-1	76	55
ND<1 U	ND<2 U	-1	76	56
ND<1 U	ND<2 U	-1	76	57
ND<1 U	ND<2 U	-1	76	58
ND<1 U	ND<2 U	-1	76	59
ND<1 U	ND<2 U	-1	76	60
ND<1 U	ND<2 U	-1	76	61
ND<1 U	ND<2 U	-1	76	62
ND<0.5 U	ND<1.5 U	-1	76	63
ND<1.5 U	ND<1.5 U	0	76	63
ND<0.5 U	ND<1.5 U	-1	76	64
ND<0.5 U	ND<1.5 U	-1	76	65
ND<1.5 U	ND<1.5 U	0	76	65
ND<1.5 U	ND<1.5 U	0	76	65
ND<1.5 U	ND<1.5 U	0	76	65
ND<1.5 U	ND<1.5 U	0	76	65
ND<0.75 U	ND<1.5 U	-0.75	76	66
ND<0.75 U	ND<1.5 U	-0.75	76	67
ND<0.75 U	ND<1.5 U	-0.75	76	68
ND<0.75 U	ND<1.5 U	-0.75	76	69
ND<0.75 U	ND<1.5 U	-0.75	76	70
ND<0.75 U	ND<1.5 U	-0.75	76	71
ND<0.75 U	ND<1.5 U	-0.75	76	72
ND<0.75 U	ND<1.5 U	-0.75	76	73
ND<0.75 U	ND<1.5 U	-0.75	76	74
ND<0.75 U	ND<1.5 U	-0.75	76	75
ND<0.75 U	ND<1.5 U	-0.75	76	76
ND<0.75 U	ND<1.5 U	-0.75	76	77
ND<0.75 U	ND<1.5 U	-0.75	76	78
ND<0.75 U	ND<1.5 U	-0.75	76	79
ND<0.75 U	ND<1.5 U	-0.75	76	80
ND<0.75 U	ND<1.5 U	-0.75	76	81
ND<0.75 U	ND<1.5 U	-0.75	76	82
ND<0.75 U	ND<1.5 U	-0.75	76	83

ND<0.75 U	ND<1.5 U	-0.75	76	84
ND<0.75 U	ND<1.5 U	-0.75	76	85
ND<0.75 U	ND<1.5 U	-0.75	76	86
ND<0.5 U	ND<1.5 U	-1	76	87
ND<0.5 U	ND<1.5 U	-1	76	88
ND<0.5 U	ND<1.5 U	-1	76	89
ND<0.5 U	ND<1.5 U	-1	76	90
ND<0.5 U	ND<1.5 U	-1	76	91
ND<0.5 U	ND<1.5 U	-1	76	92
ND<0.5 U	ND<1.5 U	-1	76	93
ND<0.5 U	ND<1.5 U	-1	76	94
ND<0.5 U	ND<1.5 U	-1	76	95
ND<0.5 U	ND<1.5 U	-1	76	96
ND<0.5 U	ND<1.5 U	-1	76	97
ND<0.5 U	ND<1.5 U	-1	76	98
ND<0.5 U	ND<1.5 U	-1	76	99
ND<0.5 U	ND<1.5 U	-1	76	100
ND<0.5 U	ND<1.5 U	-1	76	101
ND<0.5 U	ND<1.5 U	-1	76	102
ND<0.5 U	ND<1.5 U	-1	76	103
ND<0.5 U	ND<1.5 U	-1	76	104
ND<0.5 U	ND<1.5 U	-1	76	105
ND<0.5 U	ND<1.5 U	-1	76	106
ND<0.5 U	ND<1.5 U	-1	76	107
ND<0.5 U	ND<1.5 U	-1	76	108
ND<1 U	ND<1.5 U	-0.5	76	109
ND<1 U	ND<1.5 U	-0.5	76	110
ND<1 U	ND<1.5 U	-0.5	76	111
ND<1 U	ND<1.5 U	-0.5	76	112
ND<1 U	ND<1.5 U	-0.5	76	113
ND<1 U	ND<1.5 U	-0.5	76	114
ND<1 U	ND<1.5 U	-0.5	76	115
ND<1 U	ND<1.5 U	-0.5	76	116
ND<1 U	ND<1.5 U	-0.5	76	117
ND<1 U	ND<1.5 U	-0.5	76	118
ND<1.5 U	ND<0.5 U	1	77	118
ND<0.5 U	ND<0.5 U	0	77	118
ND<0.5 U	ND<0.5 U	0	77	118
ND<1.5 U	ND<0.5 U	1	78	118
ND<1.5 U	ND<0.5 U	1	79	118
ND<1.5 U	ND<0.5 U	1	80	118
ND<1.5 U	ND<0.5 U	1	81	118
ND<0.75 U	ND<0.5 U	0.25	82	118
ND<0.75 U	ND<0.5 U	0.25	83	118
ND<0.75 U	ND<0.5 U	0.25	84	118
ND<0.75 U	ND<0.5 U	0.25	85	118
ND<0.75 U	ND<0.5 U	0.25	86	118
ND<0.75 U	ND<0.5 U	0.25	87	118
ND<0.75 U	ND<0.5 U	0.25	88	118
ND<0.75 U	ND<0.5 U	0.25	89	118
ND<0.75 U	ND<0.5 U	0.25	90	118
ND<0.75 U	ND<0.5 U	0.25	91	118
ND<0.75 U	ND<0.5 U	0.25	92	118
ND<0.75 U	ND<0.5 U	0.25	93	118
ND<0.75 U	ND<0.5 U	0.25	94	118
ND<0.75 U	ND<0.5 U	0.25	95	118

ND<0.75 U	ND<0.5 U	0.25	96	118
ND<0.75 U	ND<0.5 U	0.25	97	118
ND<0.75 U	ND<0.5 U	0.25	98	118
ND<0.75 U	ND<0.5 U	0.25	99	118
ND<0.75 U	ND<0.5 U	0.25	100	118
ND<0.75 U	ND<0.5 U	0.25	101	118
ND<0.75 U	ND<0.5 U	0.25	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<0.5 U	ND<0.5 U	0	102	118
ND<1 U	ND<0.5 U	0.5	103	118
ND<1 U	ND<0.5 U	0.5	104	118
ND<1 U	ND<0.5 U	0.5	105	118
ND<1 U	ND<0.5 U	0.5	106	118
ND<1 U	ND<0.5 U	0.5	107	118
ND<1 U	ND<0.5 U	0.5	108	118
ND<1 U	ND<0.5 U	0.5	109	118
ND<1 U	ND<0.5 U	0.5	110	118
ND<1 U	ND<0.5 U	0.5	111	118
ND<1 U	ND<0.5 U	0.5	112	118

ND<0.5 U	ND<1.5 U	-1	112	119
ND<0.5 U	ND<1.5 U	-1	112	120
ND<1.5 U	ND<1.5 U	0	112	120
ND<1.5 U	ND<1.5 U	0	112	120
ND<1.5 U	ND<1.5 U	0	112	120
ND<1.5 U	ND<1.5 U	0	112	120
ND<0.75 U	ND<1.5 U	-0.75	112	121
ND<0.75 U	ND<1.5 U	-0.75	112	122
ND<0.75 U	ND<1.5 U	-0.75	112	123
ND<0.75 U	ND<1.5 U	-0.75	112	124
ND<0.75 U	ND<1.5 U	-0.75	112	125
ND<0.75 U	ND<1.5 U	-0.75	112	126
ND<0.75 U	ND<1.5 U	-0.75	112	127
ND<0.75 U	ND<1.5 U	-0.75	112	128
ND<0.75 U	ND<1.5 U	-0.75	112	129
ND<0.75 U	ND<1.5 U	-0.75	112	130
ND<0.75 U	ND<1.5 U	-0.75	112	131

ND<0.75 U	ND<1.5 U	-0.75	112	132
ND<0.75 U	ND<1.5 U	-0.75	112	133
ND<0.75 U	ND<1.5 U	-0.75	112	134
ND<0.75 U	ND<1.5 U	-0.75	112	135
ND<0.75 U	ND<1.5 U	-0.75	112	136
ND<0.75 U	ND<1.5 U	-0.75	112	137
ND<0.75 U	ND<1.5 U	-0.75	112	138
ND<0.75 U	ND<1.5 U	-0.75	112	139
ND<0.75 U	ND<1.5 U	-0.75	112	140
ND<0.75 U	ND<1.5 U	-0.75	112	141
ND<0.5 U	ND<1.5 U	-1	112	142
ND<0.5 U	ND<1.5 U	-1	112	143
ND<0.5 U	ND<1.5 U	-1	112	144
ND<0.5 U	ND<1.5 U	-1	112	145
ND<0.5 U	ND<1.5 U	-1	112	146
ND<0.5 U	ND<1.5 U	-1	112	147
ND<0.5 U	ND<1.5 U	-1	112	148
ND<0.5 U	ND<1.5 U	-1	112	149
ND<0.5 U	ND<1.5 U	-1	112	150
ND<0.5 U	ND<1.5 U	-1	112	151
ND<0.5 U	ND<1.5 U	-1	112	152
ND<0.5 U	ND<1.5 U	-1	112	153
ND<0.5 U	ND<1.5 U	-1	112	154
ND<0.5 U	ND<1.5 U	-1	112	155
ND<0.5 U	ND<1.5 U	-1	112	156
ND<0.5 U	ND<1.5 U	-1	112	157
ND<0.5 U	ND<1.5 U	-1	112	158
ND<0.5 U	ND<1.5 U	-1	112	159
ND<0.5 U	ND<1.5 U	-1	112	160
ND<0.5 U	ND<1.5 U	-1	112	161
ND<0.5 U	ND<1.5 U	-1	112	162
ND<0.5 U	ND<1.5 U	-1	112	163
ND<1 U	ND<1.5 U	-0.5	112	164
ND<1 U	ND<1.5 U	-0.5	112	165
ND<1 U	ND<1.5 U	-0.5	112	166
ND<1 U	ND<1.5 U	-0.5	112	167
ND<1 U	ND<1.5 U	-0.5	112	168
ND<1 U	ND<1.5 U	-0.5	112	169
ND<1 U	ND<1.5 U	-0.5	112	170
ND<1 U	ND<1.5 U	-0.5	112	171
ND<1 U	ND<1.5 U	-0.5	112	172
ND<1 U	ND<1.5 U	-0.5	112	173
ND<0.5 U	ND<0.5 U	0	112	173
ND<1.5 U	ND<0.5 U	1	113	173
ND<1.5 U	ND<0.5 U	1	114	173
ND<1.5 U	ND<0.5 U	1	115	173
ND<1.5 U	ND<0.5 U	1	116	173
ND<0.75 U	ND<0.5 U	0.25	117	173
ND<0.75 U	ND<0.5 U	0.25	118	173
ND<0.75 U	ND<0.5 U	0.25	119	173
ND<0.75 U	ND<0.5 U	0.25	120	173
ND<0.75 U	ND<0.5 U	0.25	121	173
ND<0.75 U	ND<0.5 U	0.25	122	173
ND<0.75 U	ND<0.5 U	0.25	123	173
ND<0.75 U	ND<0.5 U	0.25	124	173
ND<0.75 U	ND<0.5 U	0.25	125	173

ND<0.75 U	ND<0.5 U	0.25	126	173
ND<0.75 U	ND<0.5 U	0.25	127	173
ND<0.75 U	ND<0.5 U	0.25	128	173
ND<0.75 U	ND<0.5 U	0.25	129	173
ND<0.75 U	ND<0.5 U	0.25	130	173
ND<0.75 U	ND<0.5 U	0.25	131	173
ND<0.75 U	ND<0.5 U	0.25	132	173
ND<0.75 U	ND<0.5 U	0.25	133	173
ND<0.75 U	ND<0.5 U	0.25	134	173
ND<0.75 U	ND<0.5 U	0.25	135	173
ND<0.75 U	ND<0.5 U	0.25	136	173
ND<0.75 U	ND<0.5 U	0.25	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<0.5 U	ND<0.5 U	0	137	173
ND<1 U	ND<0.5 U	0.5	138	173
ND<1 U	ND<0.5 U	0.5	139	173
ND<1 U	ND<0.5 U	0.5	140	173
ND<1 U	ND<0.5 U	0.5	141	173
ND<1 U	ND<0.5 U	0.5	142	173
ND<1 U	ND<0.5 U	0.5	143	173
ND<1 U	ND<0.5 U	0.5	144	173
ND<1 U	ND<0.5 U	0.5	145	173
ND<1 U	ND<0.5 U	0.5	146	173
ND<1 U	ND<0.5 U	0.5	147	173
ND<1.5 U	ND<0.5 U	1	148	173
ND<1.5 U	ND<0.5 U	1	149	173
ND<1.5 U	ND<0.5 U	1	150	173
ND<1.5 U	ND<0.5 U	1	151	173
ND<0.75 U	ND<0.5 U	0.25	152	173
ND<0.75 U	ND<0.5 U	0.25	153	173
ND<0.75 U	ND<0.5 U	0.25	154	173
ND<0.75 U	ND<0.5 U	0.25	155	173
ND<0.75 U	ND<0.5 U	0.25	156	173
ND<0.75 U	ND<0.5 U	0.25	157	173
ND<0.75 U	ND<0.5 U	0.25	158	173
ND<0.75 U	ND<0.5 U	0.25	159	173

ND<0.75 U	ND<0.5 U	0.25	160	173
ND<0.75 U	ND<0.5 U	0.25	161	173
ND<0.75 U	ND<0.5 U	0.25	162	173
ND<0.75 U	ND<0.5 U	0.25	163	173
ND<0.75 U	ND<0.5 U	0.25	164	173
ND<0.75 U	ND<0.5 U	0.25	165	173
ND<0.75 U	ND<0.5 U	0.25	166	173
ND<0.75 U	ND<0.5 U	0.25	167	173
ND<0.75 U	ND<0.5 U	0.25	168	173
ND<0.75 U	ND<0.5 U	0.25	169	173
ND<0.75 U	ND<0.5 U	0.25	170	173
ND<0.75 U	ND<0.5 U	0.25	171	173
ND<0.75 U	ND<0.5 U	0.25	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<0.5 U	ND<0.5 U	0	172	173
ND<1 U	ND<0.5 U	0.5	173	173
ND<1 U	ND<0.5 U	0.5	174	173
ND<1 U	ND<0.5 U	0.5	175	173
ND<1 U	ND<0.5 U	0.5	176	173
ND<1 U	ND<0.5 U	0.5	177	173
ND<1 U	ND<0.5 U	0.5	178	173
ND<1 U	ND<0.5 U	0.5	179	173
ND<1 U	ND<0.5 U	0.5	180	173
ND<1 U	ND<0.5 U	0.5	181	173
ND<1 U	ND<0.5 U	0.5	182	173
ND<1.5 U	ND<1.5 U	0	182	173
ND<1.5 U	ND<1.5 U	0	182	173
ND<1.5 U	ND<1.5 U	0	182	173
ND<0.75 U	ND<1.5 U	-0.75	182	174
ND<0.75 U	ND<1.5 U	-0.75	182	175
ND<0.75 U	ND<1.5 U	-0.75	182	176
ND<0.75 U	ND<1.5 U	-0.75	182	177
ND<0.75 U	ND<1.5 U	-0.75	182	178
ND<0.75 U	ND<1.5 U	-0.75	182	179
ND<0.75 U	ND<1.5 U	-0.75	182	180
ND<0.75 U	ND<1.5 U	-0.75	182	181

ND<0.75 U	ND<1.5 U	-0.75	182	182
ND<0.75 U	ND<1.5 U	-0.75	182	183
ND<0.75 U	ND<1.5 U	-0.75	182	184
ND<0.75 U	ND<1.5 U	-0.75	182	185
ND<0.75 U	ND<1.5 U	-0.75	182	186
ND<0.75 U	ND<1.5 U	-0.75	182	187
ND<0.75 U	ND<1.5 U	-0.75	182	188
ND<0.75 U	ND<1.5 U	-0.75	182	189
ND<0.75 U	ND<1.5 U	-0.75	182	190
ND<0.75 U	ND<1.5 U	-0.75	182	191
ND<0.75 U	ND<1.5 U	-0.75	182	192
ND<0.75 U	ND<1.5 U	-0.75	182	193
ND<0.75 U	ND<1.5 U	-0.75	182	194
ND<0.5 U	ND<1.5 U	-1	182	195
ND<0.5 U	ND<1.5 U	-1	182	196
ND<0.5 U	ND<1.5 U	-1	182	197
ND<0.5 U	ND<1.5 U	-1	182	198
ND<0.5 U	ND<1.5 U	-1	182	199
ND<0.5 U	ND<1.5 U	-1	182	200
ND<0.5 U	ND<1.5 U	-1	182	201
ND<0.5 U	ND<1.5 U	-1	182	202
ND<0.5 U	ND<1.5 U	-1	182	203
ND<0.5 U	ND<1.5 U	-1	182	204
ND<0.5 U	ND<1.5 U	-1	182	205
ND<0.5 U	ND<1.5 U	-1	182	206
ND<0.5 U	ND<1.5 U	-1	182	207
ND<0.5 U	ND<1.5 U	-1	182	208
ND<0.5 U	ND<1.5 U	-1	182	209
ND<0.5 U	ND<1.5 U	-1	182	210
ND<0.5 U	ND<1.5 U	-1	182	211
ND<0.5 U	ND<1.5 U	-1	182	212
ND<0.5 U	ND<1.5 U	-1	182	213
ND<0.5 U	ND<1.5 U	-1	182	214
ND<0.5 U	ND<1.5 U	-1	182	215
ND<0.5 U	ND<1.5 U	-1	182	216
ND<1 U	ND<1.5 U	-0.5	182	217
ND<1 U	ND<1.5 U	-0.5	182	218
ND<1 U	ND<1.5 U	-0.5	182	219
ND<1 U	ND<1.5 U	-0.5	182	220
ND<1 U	ND<1.5 U	-0.5	182	221
ND<1 U	ND<1.5 U	-0.5	182	222
ND<1 U	ND<1.5 U	-0.5	182	223
ND<1 U	ND<1.5 U	-0.5	182	224
ND<1 U	ND<1.5 U	-0.5	182	225
ND<1 U	ND<1.5 U	-0.5	182	226

ND<1.5 U	ND<1.5 U	0	182	226
ND<1.5 U	ND<1.5 U	0	182	226
ND<0.75 U	ND<1.5 U	-0.75	182	227
ND<0.75 U	ND<1.5 U	-0.75	182	228
ND<0.75 U	ND<1.5 U	-0.75	182	229
ND<0.75 U	ND<1.5 U	-0.75	182	230
ND<0.75 U	ND<1.5 U	-0.75	182	231
ND<0.75 U	ND<1.5 U	-0.75	182	232
ND<0.75 U	ND<1.5 U	-0.75	182	233
ND<0.75 U	ND<1.5 U	-0.75	182	234
ND<0.75 U	ND<1.5 U	-0.75	182	235

ND<0.75 U	ND<1.5 U	-0.75	182	236
ND<0.75 U	ND<1.5 U	-0.75	182	237
ND<0.75 U	ND<1.5 U	-0.75	182	238
ND<0.75 U	ND<1.5 U	-0.75	182	239
ND<0.75 U	ND<1.5 U	-0.75	182	240
ND<0.75 U	ND<1.5 U	-0.75	182	241
ND<0.75 U	ND<1.5 U	-0.75	182	242
ND<0.75 U	ND<1.5 U	-0.75	182	243
ND<0.75 U	ND<1.5 U	-0.75	182	244
ND<0.75 U	ND<1.5 U	-0.75	182	245
ND<0.75 U	ND<1.5 U	-0.75	182	246
ND<0.75 U	ND<1.5 U	-0.75	182	247
ND<0.5 U	ND<1.5 U	-1	182	248
ND<0.5 U	ND<1.5 U	-1	182	249
ND<0.5 U	ND<1.5 U	-1	182	250
ND<0.5 U	ND<1.5 U	-1	182	251
ND<0.5 U	ND<1.5 U	-1	182	252
ND<0.5 U	ND<1.5 U	-1	182	253
ND<0.5 U	ND<1.5 U	-1	182	254
ND<0.5 U	ND<1.5 U	-1	182	255
ND<0.5 U	ND<1.5 U	-1	182	256
ND<0.5 U	ND<1.5 U	-1	182	257
ND<0.5 U	ND<1.5 U	-1	182	258
ND<0.5 U	ND<1.5 U	-1	182	259
ND<0.5 U	ND<1.5 U	-1	182	260
ND<0.5 U	ND<1.5 U	-1	182	261
ND<0.5 U	ND<1.5 U	-1	182	262
ND<0.5 U	ND<1.5 U	-1	182	263
ND<0.5 U	ND<1.5 U	-1	182	264
ND<0.5 U	ND<1.5 U	-1	182	265
ND<0.5 U	ND<1.5 U	-1	182	266
ND<0.5 U	ND<1.5 U	-1	182	267
ND<0.5 U	ND<1.5 U	-1	182	268
ND<0.5 U	ND<1.5 U	-1	182	269
ND<1 U	ND<1.5 U	-0.5	182	270
ND<1 U	ND<1.5 U	-0.5	182	271
ND<1 U	ND<1.5 U	-0.5	182	272
ND<1 U	ND<1.5 U	-0.5	182	273
ND<1 U	ND<1.5 U	-0.5	182	274
ND<1 U	ND<1.5 U	-0.5	182	275
ND<1 U	ND<1.5 U	-0.5	182	276
ND<1 U	ND<1.5 U	-0.5	182	277
ND<1 U	ND<1.5 U	-0.5	182	278
ND<1 U	ND<1.5 U	-0.5	182	279
ND<1.5 U	ND<1.5 U	0	182	279
ND<0.75 U	ND<1.5 U	-0.75	182	280
ND<0.75 U	ND<1.5 U	-0.75	182	281
ND<0.75 U	ND<1.5 U	-0.75	182	282
ND<0.75 U	ND<1.5 U	-0.75	182	283
ND<0.75 U	ND<1.5 U	-0.75	182	284
ND<0.75 U	ND<1.5 U	-0.75	182	285
ND<0.75 U	ND<1.5 U	-0.75	182	286
ND<0.75 U	ND<1.5 U	-0.75	182	287
ND<0.75 U	ND<1.5 U	-0.75	182	288
ND<0.75 U	ND<1.5 U	-0.75	182	289
ND<0.75 U	ND<1.5 U	-0.75	182	290

ND<0.75 U	ND<1.5 U	-0.75	182	291
ND<0.75 U	ND<1.5 U	-0.75	182	292
ND<0.75 U	ND<1.5 U	-0.75	182	293
ND<0.75 U	ND<1.5 U	-0.75	182	294
ND<0.75 U	ND<1.5 U	-0.75	182	295
ND<0.75 U	ND<1.5 U	-0.75	182	296
ND<0.75 U	ND<1.5 U	-0.75	182	297
ND<0.75 U	ND<1.5 U	-0.75	182	298
ND<0.75 U	ND<1.5 U	-0.75	182	299
ND<0.75 U	ND<1.5 U	-0.75	182	300
ND<0.5 U	ND<1.5 U	-1	182	301
ND<0.5 U	ND<1.5 U	-1	182	302
ND<0.5 U	ND<1.5 U	-1	182	303
ND<0.5 U	ND<1.5 U	-1	182	304
ND<0.5 U	ND<1.5 U	-1	182	305
ND<0.5 U	ND<1.5 U	-1	182	306
ND<0.5 U	ND<1.5 U	-1	182	307
ND<0.5 U	ND<1.5 U	-1	182	308
ND<0.5 U	ND<1.5 U	-1	182	309
ND<0.5 U	ND<1.5 U	-1	182	310
ND<0.5 U	ND<1.5 U	-1	182	311
ND<0.5 U	ND<1.5 U	-1	182	312
ND<0.5 U	ND<1.5 U	-1	182	313
ND<0.5 U	ND<1.5 U	-1	182	314
ND<0.5 U	ND<1.5 U	-1	182	315
ND<0.5 U	ND<1.5 U	-1	182	316
ND<0.5 U	ND<1.5 U	-1	182	317
ND<0.5 U	ND<1.5 U	-1	182	318
ND<0.5 U	ND<1.5 U	-1	182	319
ND<0.5 U	ND<1.5 U	-1	182	320
ND<0.5 U	ND<1.5 U	-1	182	321
ND<0.5 U	ND<1.5 U	-1	182	322
ND<1 U	ND<1.5 U	-0.5	182	323
ND<1 U	ND<1.5 U	-0.5	182	324
ND<1 U	ND<1.5 U	-0.5	182	325
ND<1 U	ND<1.5 U	-0.5	182	326
ND<1 U	ND<1.5 U	-0.5	182	327
ND<1 U	ND<1.5 U	-0.5	182	328
ND<1 U	ND<1.5 U	-0.5	182	329
ND<1 U	ND<1.5 U	-0.5	182	330
ND<1 U	ND<1.5 U	-0.5	182	331
ND<1 U	ND<1.5 U	-0.5	182	332
ND<0.75 U	ND<1.5 U	-0.75	182	333
ND<0.75 U	ND<1.5 U	-0.75	182	334
ND<0.75 U	ND<1.5 U	-0.75	182	335
ND<0.75 U	ND<1.5 U	-0.75	182	336
ND<0.75 U	ND<1.5 U	-0.75	182	337
ND<0.75 U	ND<1.5 U	-0.75	182	338
ND<0.75 U	ND<1.5 U	-0.75	182	339
ND<0.75 U	ND<1.5 U	-0.75	182	340
ND<0.75 U	ND<1.5 U	-0.75	182	341
ND<0.75 U	ND<1.5 U	-0.75	182	342
ND<0.75 U	ND<1.5 U	-0.75	182	343
ND<0.75 U	ND<1.5 U	-0.75	182	344
ND<0.75 U	ND<1.5 U	-0.75	182	345
ND<0.75 U	ND<1.5 U	-0.75	182	346

ND<0.75 U	ND<1.5 U	-0.75	182	347
ND<0.75 U	ND<1.5 U	-0.75	182	348
ND<0.75 U	ND<1.5 U	-0.75	182	349
ND<0.75 U	ND<1.5 U	-0.75	182	350
ND<0.75 U	ND<1.5 U	-0.75	182	351
ND<0.75 U	ND<1.5 U	-0.75	182	352
ND<0.75 U	ND<1.5 U	-0.75	182	353
ND<0.5 U	ND<1.5 U	-1	182	354
ND<0.5 U	ND<1.5 U	-1	182	355
ND<0.5 U	ND<1.5 U	-1	182	356
ND<0.5 U	ND<1.5 U	-1	182	357
ND<0.5 U	ND<1.5 U	-1	182	358
ND<0.5 U	ND<1.5 U	-1	182	359
ND<0.5 U	ND<1.5 U	-1	182	360
ND<0.5 U	ND<1.5 U	-1	182	361
ND<0.5 U	ND<1.5 U	-1	182	362
ND<0.5 U	ND<1.5 U	-1	182	363
ND<0.5 U	ND<1.5 U	-1	182	364
ND<0.5 U	ND<1.5 U	-1	182	365
ND<0.5 U	ND<1.5 U	-1	182	366
ND<0.5 U	ND<1.5 U	-1	182	367
ND<0.5 U	ND<1.5 U	-1	182	368
ND<0.5 U	ND<1.5 U	-1	182	369
ND<0.5 U	ND<1.5 U	-1	182	370
ND<0.5 U	ND<1.5 U	-1	182	371
ND<0.5 U	ND<1.5 U	-1	182	372
ND<0.5 U	ND<1.5 U	-1	182	373
ND<0.5 U	ND<1.5 U	-1	182	374
ND<0.5 U	ND<1.5 U	-1	182	375
ND<1 U	ND<1.5 U	-0.5	182	376
ND<1 U	ND<1.5 U	-0.5	182	377
ND<1 U	ND<1.5 U	-0.5	182	378
ND<1 U	ND<1.5 U	-0.5	182	379
ND<1 U	ND<1.5 U	-0.5	182	380
ND<1 U	ND<1.5 U	-0.5	182	381
ND<1 U	ND<1.5 U	-0.5	182	382
ND<1 U	ND<1.5 U	-0.5	182	383
ND<1 U	ND<1.5 U	-0.5	182	384
ND<1 U	ND<1.5 U	-0.5	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385

ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.75 U	ND<0.75 U	0	182	385
ND<0.5 U	ND<0.75 U	-0.25	182	386
ND<0.5 U	ND<0.75 U	-0.25	182	387
ND<0.5 U	ND<0.75 U	-0.25	182	388
ND<0.5 U	ND<0.75 U	-0.25	182	389
ND<0.5 U	ND<0.75 U	-0.25	182	390
ND<0.5 U	ND<0.75 U	-0.25	182	391
ND<0.5 U	ND<0.75 U	-0.25	182	392
ND<0.5 U	ND<0.75 U	-0.25	182	393
ND<0.5 U	ND<0.75 U	-0.25	182	394
ND<0.5 U	ND<0.75 U	-0.25	182	395
ND<0.5 U	ND<0.75 U	-0.25	182	396
ND<0.5 U	ND<0.75 U	-0.25	182	397
ND<0.5 U	ND<0.75 U	-0.25	182	398
ND<0.5 U	ND<0.75 U	-0.25	182	399
ND<0.5 U	ND<0.75 U	-0.25	182	400
ND<0.5 U	ND<0.75 U	-0.25	182	401
ND<0.5 U	ND<0.75 U	-0.25	182	402
ND<0.5 U	ND<0.75 U	-0.25	182	403
ND<0.5 U	ND<0.75 U	-0.25	182	404
ND<0.5 U	ND<0.75 U	-0.25	182	405
ND<0.5 U	ND<0.75 U	-0.25	182	406
ND<0.5 U	ND<0.75 U	-0.25	182	407
ND<1 U	ND<0.75 U	0.25	183	407
ND<1 U	ND<0.75 U	0.25	184	407
ND<1 U	ND<0.75 U	0.25	185	407
ND<1 U	ND<0.75 U	0.25	186	407
ND<1 U	ND<0.75 U	0.25	187	407
ND<1 U	ND<0.75 U	0.25	188	407
ND<1 U	ND<0.75 U	0.25	189	407
ND<1 U	ND<0.75 U	0.25	190	407
ND<1 U	ND<0.75 U	0.25	191	407
ND<1 U	ND<0.75 U	0.25	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.75 U	ND<0.75 U	0	192	407
ND<0.5 U	ND<0.75 U	-0.25	192	408
ND<0.5 U	ND<0.75 U	-0.25	192	409

ND<0.5 U	ND<0.75 U	-0.25	192	410
ND<0.5 U	ND<0.75 U	-0.25	192	411
ND<0.5 U	ND<0.75 U	-0.25	192	412
ND<0.5 U	ND<0.75 U	-0.25	192	413
ND<0.5 U	ND<0.75 U	-0.25	192	414
ND<0.5 U	ND<0.75 U	-0.25	192	415
ND<0.5 U	ND<0.75 U	-0.25	192	416
ND<0.5 U	ND<0.75 U	-0.25	192	417
ND<0.5 U	ND<0.75 U	-0.25	192	418
ND<0.5 U	ND<0.75 U	-0.25	192	419
ND<0.5 U	ND<0.75 U	-0.25	192	420
ND<0.5 U	ND<0.75 U	-0.25	192	421
ND<0.5 U	ND<0.75 U	-0.25	192	422
ND<0.5 U	ND<0.75 U	-0.25	192	423
ND<0.5 U	ND<0.75 U	-0.25	192	424
ND<0.5 U	ND<0.75 U	-0.25	192	425
ND<0.5 U	ND<0.75 U	-0.25	192	426
ND<0.5 U	ND<0.75 U	-0.25	192	427
ND<0.5 U	ND<0.75 U	-0.25	192	428
ND<0.5 U	ND<0.75 U	-0.25	192	429
ND<1 U	ND<0.75 U	0.25	193	429
ND<1 U	ND<0.75 U	0.25	194	429
ND<1 U	ND<0.75 U	0.25	195	429
ND<1 U	ND<0.75 U	0.25	196	429
ND<1 U	ND<0.75 U	0.25	197	429
ND<1 U	ND<0.75 U	0.25	198	429
ND<1 U	ND<0.75 U	0.25	199	429
ND<1 U	ND<0.75 U	0.25	200	429
ND<1 U	ND<0.75 U	0.25	201	429
ND<1 U	ND<0.75 U	0.25	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.75 U	ND<0.75 U	0	202	429
ND<0.5 U	ND<0.75 U	-0.25	202	430
ND<0.5 U	ND<0.75 U	-0.25	202	431
ND<0.5 U	ND<0.75 U	-0.25	202	432
ND<0.5 U	ND<0.75 U	-0.25	202	433
ND<0.5 U	ND<0.75 U	-0.25	202	434
ND<0.5 U	ND<0.75 U	-0.25	202	435
ND<0.5 U	ND<0.75 U	-0.25	202	436
ND<0.5 U	ND<0.75 U	-0.25	202	437

ND<0.5 U	ND<0.75 U	-0.25	202	438
ND<0.5 U	ND<0.75 U	-0.25	202	439
ND<0.5 U	ND<0.75 U	-0.25	202	440
ND<0.5 U	ND<0.75 U	-0.25	202	441
ND<0.5 U	ND<0.75 U	-0.25	202	442
ND<0.5 U	ND<0.75 U	-0.25	202	443
ND<0.5 U	ND<0.75 U	-0.25	202	444
ND<0.5 U	ND<0.75 U	-0.25	202	445
ND<0.5 U	ND<0.75 U	-0.25	202	446
ND<0.5 U	ND<0.75 U	-0.25	202	447
ND<0.5 U	ND<0.75 U	-0.25	202	448
ND<0.5 U	ND<0.75 U	-0.25	202	449
ND<0.5 U	ND<0.75 U	-0.25	202	450
ND<0.5 U	ND<0.75 U	-0.25	202	451
ND<1 U	ND<0.75 U	0.25	203	451
ND<1 U	ND<0.75 U	0.25	204	451
ND<1 U	ND<0.75 U	0.25	205	451
ND<1 U	ND<0.75 U	0.25	206	451
ND<1 U	ND<0.75 U	0.25	207	451
ND<1 U	ND<0.75 U	0.25	208	451
ND<1 U	ND<0.75 U	0.25	209	451
ND<1 U	ND<0.75 U	0.25	210	451
ND<1 U	ND<0.75 U	0.25	211	451
ND<1 U	ND<0.75 U	0.25	212	451

ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.75 U	ND<0.75 U	0	212	451
ND<0.5 U	ND<0.75 U	-0.25	212	452
ND<0.5 U	ND<0.75 U	-0.25	212	453
ND<0.5 U	ND<0.75 U	-0.25	212	454
ND<0.5 U	ND<0.75 U	-0.25	212	455
ND<0.5 U	ND<0.75 U	-0.25	212	456
ND<0.5 U	ND<0.75 U	-0.25	212	457
ND<0.5 U	ND<0.75 U	-0.25	212	458
ND<0.5 U	ND<0.75 U	-0.25	212	459
ND<0.5 U	ND<0.75 U	-0.25	212	460
ND<0.5 U	ND<0.75 U	-0.25	212	461
ND<0.5 U	ND<0.75 U	-0.25	212	462
ND<0.5 U	ND<0.75 U	-0.25	212	463
ND<0.5 U	ND<0.75 U	-0.25	212	464
ND<0.5 U	ND<0.75 U	-0.25	212	465
ND<0.5 U	ND<0.75 U	-0.25	212	466

ND<0.5 U	ND<0.75 U	-0.25	212	467
ND<0.5 U	ND<0.75 U	-0.25	212	468
ND<0.5 U	ND<0.75 U	-0.25	212	469
ND<0.5 U	ND<0.75 U	-0.25	212	470
ND<0.5 U	ND<0.75 U	-0.25	212	471
ND<0.5 U	ND<0.75 U	-0.25	212	472
ND<0.5 U	ND<0.75 U	-0.25	212	473
ND<1 U	ND<0.75 U	0.25	213	473
ND<1 U	ND<0.75 U	0.25	214	473
ND<1 U	ND<0.75 U	0.25	215	473
ND<1 U	ND<0.75 U	0.25	216	473
ND<1 U	ND<0.75 U	0.25	217	473
ND<1 U	ND<0.75 U	0.25	218	473
ND<1 U	ND<0.75 U	0.25	219	473
ND<1 U	ND<0.75 U	0.25	220	473
ND<1 U	ND<0.75 U	0.25	221	473
ND<1 U	ND<0.75 U	0.25	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.75 U	ND<0.75 U	0	222	473
ND<0.5 U	ND<0.75 U	-0.25	222	474
ND<0.5 U	ND<0.75 U	-0.25	222	475
ND<0.5 U	ND<0.75 U	-0.25	222	476
ND<0.5 U	ND<0.75 U	-0.25	222	477
ND<0.5 U	ND<0.75 U	-0.25	222	478
ND<0.5 U	ND<0.75 U	-0.25	222	479
ND<0.5 U	ND<0.75 U	-0.25	222	480
ND<0.5 U	ND<0.75 U	-0.25	222	481
ND<0.5 U	ND<0.75 U	-0.25	222	482
ND<0.5 U	ND<0.75 U	-0.25	222	483
ND<0.5 U	ND<0.75 U	-0.25	222	484
ND<0.5 U	ND<0.75 U	-0.25	222	485
ND<0.5 U	ND<0.75 U	-0.25	222	486
ND<0.5 U	ND<0.75 U	-0.25	222	487
ND<0.5 U	ND<0.75 U	-0.25	222	488
ND<0.5 U	ND<0.75 U	-0.25	222	489
ND<0.5 U	ND<0.75 U	-0.25	222	490
ND<0.5 U	ND<0.75 U	-0.25	222	491
ND<0.5 U	ND<0.75 U	-0.25	222	492
ND<0.5 U	ND<0.75 U	-0.25	222	493
ND<0.5 U	ND<0.75 U	-0.25	222	494
ND<0.5 U	ND<0.75 U	-0.25	222	495
ND<1 U	ND<0.75 U	0.25	223	495

ND<1 U	ND<0.75 U	0.25	224	495
ND<1 U	ND<0.75 U	0.25	225	495
ND<1 U	ND<0.75 U	0.25	226	495
ND<1 U	ND<0.75 U	0.25	227	495
ND<1 U	ND<0.75 U	0.25	228	495
ND<1 U	ND<0.75 U	0.25	229	495
ND<1 U	ND<0.75 U	0.25	230	495
ND<1 U	ND<0.75 U	0.25	231	495
ND<1 U	ND<0.75 U	0.25	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.75 U	ND<0.75 U	0	232	495
ND<0.5 U	ND<0.75 U	-0.25	232	496
ND<0.5 U	ND<0.75 U	-0.25	232	497
ND<0.5 U	ND<0.75 U	-0.25	232	498
ND<0.5 U	ND<0.75 U	-0.25	232	499
ND<0.5 U	ND<0.75 U	-0.25	232	500
ND<0.5 U	ND<0.75 U	-0.25	232	501
ND<0.5 U	ND<0.75 U	-0.25	232	502
ND<0.5 U	ND<0.75 U	-0.25	232	503
ND<0.5 U	ND<0.75 U	-0.25	232	504
ND<0.5 U	ND<0.75 U	-0.25	232	505
ND<0.5 U	ND<0.75 U	-0.25	232	506
ND<0.5 U	ND<0.75 U	-0.25	232	507
ND<0.5 U	ND<0.75 U	-0.25	232	508
ND<0.5 U	ND<0.75 U	-0.25	232	509
ND<0.5 U	ND<0.75 U	-0.25	232	510
ND<0.5 U	ND<0.75 U	-0.25	232	511
ND<0.5 U	ND<0.75 U	-0.25	232	512
ND<0.5 U	ND<0.75 U	-0.25	232	513
ND<0.5 U	ND<0.75 U	-0.25	232	514
ND<0.5 U	ND<0.75 U	-0.25	232	515
ND<0.5 U	ND<0.75 U	-0.25	232	516
ND<0.5 U	ND<0.75 U	-0.25	232	517
ND<1 U	ND<0.75 U	0.25	233	517
ND<1 U	ND<0.75 U	0.25	234	517
ND<1 U	ND<0.75 U	0.25	235	517
ND<1 U	ND<0.75 U	0.25	236	517
ND<1 U	ND<0.75 U	0.25	237	517
ND<1 U	ND<0.75 U	0.25	238	517
ND<1 U	ND<0.75 U	0.25	239	517
ND<1 U	ND<0.75 U	0.25	240	517
ND<1 U	ND<0.75 U	0.25	241	517
ND<1 U	ND<0.75 U	0.25	242	517

ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.75 U	ND<0.75 U	0	242	517
ND<0.5 U	ND<0.75 U	-0.25	242	518
ND<0.5 U	ND<0.75 U	-0.25	242	519
ND<0.5 U	ND<0.75 U	-0.25	242	520
ND<0.5 U	ND<0.75 U	-0.25	242	521
ND<0.5 U	ND<0.75 U	-0.25	242	522
ND<0.5 U	ND<0.75 U	-0.25	242	523
ND<0.5 U	ND<0.75 U	-0.25	242	524
ND<0.5 U	ND<0.75 U	-0.25	242	525
ND<0.5 U	ND<0.75 U	-0.25	242	526
ND<0.5 U	ND<0.75 U	-0.25	242	527
ND<0.5 U	ND<0.75 U	-0.25	242	528
ND<0.5 U	ND<0.75 U	-0.25	242	529
ND<0.5 U	ND<0.75 U	-0.25	242	530
ND<0.5 U	ND<0.75 U	-0.25	242	531
ND<0.5 U	ND<0.75 U	-0.25	242	532
ND<0.5 U	ND<0.75 U	-0.25	242	533
ND<0.5 U	ND<0.75 U	-0.25	242	534
ND<0.5 U	ND<0.75 U	-0.25	242	535
ND<0.5 U	ND<0.75 U	-0.25	242	536
ND<0.5 U	ND<0.75 U	-0.25	242	537
ND<0.5 U	ND<0.75 U	-0.25	242	538
ND<0.5 U	ND<0.75 U	-0.25	242	539
ND<1 U	ND<0.75 U	0.25	243	539
ND<1 U	ND<0.75 U	0.25	244	539
ND<1 U	ND<0.75 U	0.25	245	539
ND<1 U	ND<0.75 U	0.25	246	539
ND<1 U	ND<0.75 U	0.25	247	539
ND<1 U	ND<0.75 U	0.25	248	539
ND<1 U	ND<0.75 U	0.25	249	539
ND<1 U	ND<0.75 U	0.25	250	539
ND<1 U	ND<0.75 U	0.25	251	539
ND<1 U	ND<0.75 U	0.25	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539

ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.75 U	ND<0.75 U	0	252	539
ND<0.5 U	ND<0.75 U	-0.25	252	540
ND<0.5 U	ND<0.75 U	-0.25	252	541
ND<0.5 U	ND<0.75 U	-0.25	252	542
ND<0.5 U	ND<0.75 U	-0.25	252	543
ND<0.5 U	ND<0.75 U	-0.25	252	544
ND<0.5 U	ND<0.75 U	-0.25	252	545
ND<0.5 U	ND<0.75 U	-0.25	252	546
ND<0.5 U	ND<0.75 U	-0.25	252	547
ND<0.5 U	ND<0.75 U	-0.25	252	548
ND<0.5 U	ND<0.75 U	-0.25	252	549
ND<0.5 U	ND<0.75 U	-0.25	252	550
ND<0.5 U	ND<0.75 U	-0.25	252	551
ND<0.5 U	ND<0.75 U	-0.25	252	552
ND<0.5 U	ND<0.75 U	-0.25	252	553
ND<0.5 U	ND<0.75 U	-0.25	252	554
ND<0.5 U	ND<0.75 U	-0.25	252	555
ND<0.5 U	ND<0.75 U	-0.25	252	556
ND<0.5 U	ND<0.75 U	-0.25	252	557
ND<0.5 U	ND<0.75 U	-0.25	252	558
ND<0.5 U	ND<0.75 U	-0.25	252	559
ND<0.5 U	ND<0.75 U	-0.25	252	560
ND<0.5 U	ND<0.75 U	-0.25	252	561
ND<1 U	ND<0.75 U	0.25	253	561
ND<1 U	ND<0.75 U	0.25	254	561
ND<1 U	ND<0.75 U	0.25	255	561
ND<1 U	ND<0.75 U	0.25	256	561
ND<1 U	ND<0.75 U	0.25	257	561
ND<1 U	ND<0.75 U	0.25	258	561
ND<1 U	ND<0.75 U	0.25	259	561
ND<1 U	ND<0.75 U	0.25	260	561
ND<1 U	ND<0.75 U	0.25	261	561
ND<1 U	ND<0.75 U	0.25	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.75 U	ND<0.75 U	0	262	561
ND<0.5 U	ND<0.75 U	-0.25	262	562
ND<0.5 U	ND<0.75 U	-0.25	262	563
ND<0.5 U	ND<0.75 U	-0.25	262	564
ND<0.5 U	ND<0.75 U	-0.25	262	565
ND<0.5 U	ND<0.75 U	-0.25	262	566
ND<0.5 U	ND<0.75 U	-0.25	262	567
ND<0.5 U	ND<0.75 U	-0.25	262	568
ND<0.5 U	ND<0.75 U	-0.25	262	569

ND<0.5 U	ND<0.75 U	-0.25	262	570
ND<0.5 U	ND<0.75 U	-0.25	262	571
ND<0.5 U	ND<0.75 U	-0.25	262	572
ND<0.5 U	ND<0.75 U	-0.25	262	573
ND<0.5 U	ND<0.75 U	-0.25	262	574
ND<0.5 U	ND<0.75 U	-0.25	262	575
ND<0.5 U	ND<0.75 U	-0.25	262	576
ND<0.5 U	ND<0.75 U	-0.25	262	577
ND<0.5 U	ND<0.75 U	-0.25	262	578
ND<0.5 U	ND<0.75 U	-0.25	262	579
ND<0.5 U	ND<0.75 U	-0.25	262	580
ND<0.5 U	ND<0.75 U	-0.25	262	581
ND<0.5 U	ND<0.75 U	-0.25	262	582
ND<0.5 U	ND<0.75 U	-0.25	262	583
ND<1 U	ND<0.75 U	0.25	263	583
ND<1 U	ND<0.75 U	0.25	264	583
ND<1 U	ND<0.75 U	0.25	265	583
ND<1 U	ND<0.75 U	0.25	266	583
ND<1 U	ND<0.75 U	0.25	267	583
ND<1 U	ND<0.75 U	0.25	268	583
ND<1 U	ND<0.75 U	0.25	269	583
ND<1 U	ND<0.75 U	0.25	270	583
ND<1 U	ND<0.75 U	0.25	271	583
ND<1 U	ND<0.75 U	0.25	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.75 U	ND<0.75 U	0	272	583
ND<0.5 U	ND<0.75 U	-0.25	272	584
ND<0.5 U	ND<0.75 U	-0.25	272	585
ND<0.5 U	ND<0.75 U	-0.25	272	586
ND<0.5 U	ND<0.75 U	-0.25	272	587
ND<0.5 U	ND<0.75 U	-0.25	272	588
ND<0.5 U	ND<0.75 U	-0.25	272	589
ND<0.5 U	ND<0.75 U	-0.25	272	590
ND<0.5 U	ND<0.75 U	-0.25	272	591
ND<0.5 U	ND<0.75 U	-0.25	272	592
ND<0.5 U	ND<0.75 U	-0.25	272	593
ND<0.5 U	ND<0.75 U	-0.25	272	594
ND<0.5 U	ND<0.75 U	-0.25	272	595
ND<0.5 U	ND<0.75 U	-0.25	272	596
ND<0.5 U	ND<0.75 U	-0.25	272	597
ND<0.5 U	ND<0.75 U	-0.25	272	598
ND<0.5 U	ND<0.75 U	-0.25	272	599
ND<0.5 U	ND<0.75 U	-0.25	272	600
ND<0.5 U	ND<0.75 U	-0.25	272	601
ND<0.5 U	ND<0.75 U	-0.25	272	602
ND<0.5 U	ND<0.75 U	-0.25	272	603
ND<0.5 U	ND<0.75 U	-0.25	272	604

ND<0.5 U	ND<0.75 U	-0.25	272	605
ND<1 U	ND<0.75 U	0.25	273	605
ND<1 U	ND<0.75 U	0.25	274	605
ND<1 U	ND<0.75 U	0.25	275	605
ND<1 U	ND<0.75 U	0.25	276	605
ND<1 U	ND<0.75 U	0.25	277	605
ND<1 U	ND<0.75 U	0.25	278	605
ND<1 U	ND<0.75 U	0.25	279	605
ND<1 U	ND<0.75 U	0.25	280	605
ND<1 U	ND<0.75 U	0.25	281	605
ND<1 U	ND<0.75 U	0.25	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.75 U	ND<0.75 U	0	282	605
ND<0.5 U	ND<0.75 U	-0.25	282	606
ND<0.5 U	ND<0.75 U	-0.25	282	607
ND<0.5 U	ND<0.75 U	-0.25	282	608
ND<0.5 U	ND<0.75 U	-0.25	282	609
ND<0.5 U	ND<0.75 U	-0.25	282	610
ND<0.5 U	ND<0.75 U	-0.25	282	611
ND<0.5 U	ND<0.75 U	-0.25	282	612
ND<0.5 U	ND<0.75 U	-0.25	282	613
ND<0.5 U	ND<0.75 U	-0.25	282	614
ND<0.5 U	ND<0.75 U	-0.25	282	615
ND<0.5 U	ND<0.75 U	-0.25	282	616
ND<0.5 U	ND<0.75 U	-0.25	282	617
ND<0.5 U	ND<0.75 U	-0.25	282	618
ND<0.5 U	ND<0.75 U	-0.25	282	619
ND<0.5 U	ND<0.75 U	-0.25	282	620
ND<0.5 U	ND<0.75 U	-0.25	282	621
ND<0.5 U	ND<0.75 U	-0.25	282	622
ND<0.5 U	ND<0.75 U	-0.25	282	623
ND<0.5 U	ND<0.75 U	-0.25	282	624
ND<0.5 U	ND<0.75 U	-0.25	282	625
ND<0.5 U	ND<0.75 U	-0.25	282	626
ND<0.5 U	ND<0.75 U	-0.25	282	627
ND<1 U	ND<0.75 U	0.25	283	627
ND<1 U	ND<0.75 U	0.25	284	627
ND<1 U	ND<0.75 U	0.25	285	627
ND<1 U	ND<0.75 U	0.25	286	627
ND<1 U	ND<0.75 U	0.25	287	627
ND<1 U	ND<0.75 U	0.25	288	627
ND<1 U	ND<0.75 U	0.25	289	627
ND<1 U	ND<0.75 U	0.25	290	627
ND<1 U	ND<0.75 U	0.25	291	627
ND<1 U	ND<0.75 U	0.25	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627

ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.75 U	ND<0.75 U	0	292	627
ND<0.5 U	ND<0.75 U	-0.25	292	628
ND<0.5 U	ND<0.75 U	-0.25	292	629
ND<0.5 U	ND<0.75 U	-0.25	292	630
ND<0.5 U	ND<0.75 U	-0.25	292	631
ND<0.5 U	ND<0.75 U	-0.25	292	632
ND<0.5 U	ND<0.75 U	-0.25	292	633
ND<0.5 U	ND<0.75 U	-0.25	292	634
ND<0.5 U	ND<0.75 U	-0.25	292	635
ND<0.5 U	ND<0.75 U	-0.25	292	636
ND<0.5 U	ND<0.75 U	-0.25	292	637
ND<0.5 U	ND<0.75 U	-0.25	292	638
ND<0.5 U	ND<0.75 U	-0.25	292	639
ND<0.5 U	ND<0.75 U	-0.25	292	640
ND<0.5 U	ND<0.75 U	-0.25	292	641
ND<0.5 U	ND<0.75 U	-0.25	292	642
ND<0.5 U	ND<0.75 U	-0.25	292	643
ND<0.5 U	ND<0.75 U	-0.25	292	644
ND<0.5 U	ND<0.75 U	-0.25	292	645
ND<0.5 U	ND<0.75 U	-0.25	292	646
ND<0.5 U	ND<0.75 U	-0.25	292	647
ND<0.5 U	ND<0.75 U	-0.25	292	648
ND<0.5 U	ND<0.75 U	-0.25	292	649
ND<1 U	ND<0.75 U	0.25	293	649
ND<1 U	ND<0.75 U	0.25	294	649
ND<1 U	ND<0.75 U	0.25	295	649
ND<1 U	ND<0.75 U	0.25	296	649
ND<1 U	ND<0.75 U	0.25	297	649
ND<1 U	ND<0.75 U	0.25	298	649
ND<1 U	ND<0.75 U	0.25	299	649
ND<1 U	ND<0.75 U	0.25	300	649
ND<1 U	ND<0.75 U	0.25	301	649
ND<1 U	ND<0.75 U	0.25	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.75 U	ND<0.75 U	0	302	649
ND<0.5 U	ND<0.75 U	-0.25	302	650
ND<0.5 U	ND<0.75 U	-0.25	302	651
ND<0.5 U	ND<0.75 U	-0.25	302	652
ND<0.5 U	ND<0.75 U	-0.25	302	653
ND<0.5 U	ND<0.75 U	-0.25	302	654
ND<0.5 U	ND<0.75 U	-0.25	302	655
ND<0.5 U	ND<0.75 U	-0.25	302	656
ND<0.5 U	ND<0.75 U	-0.25	302	657
ND<0.5 U	ND<0.75 U	-0.25	302	658

ND<0.5 U	ND<0.75 U	-0.25	302	659
ND<0.5 U	ND<0.75 U	-0.25	302	660
ND<0.5 U	ND<0.75 U	-0.25	302	661
ND<0.5 U	ND<0.75 U	-0.25	302	662
ND<0.5 U	ND<0.75 U	-0.25	302	663
ND<0.5 U	ND<0.75 U	-0.25	302	664
ND<0.5 U	ND<0.75 U	-0.25	302	665
ND<0.5 U	ND<0.75 U	-0.25	302	666
ND<0.5 U	ND<0.75 U	-0.25	302	667
ND<0.5 U	ND<0.75 U	-0.25	302	668
ND<0.5 U	ND<0.75 U	-0.25	302	669
ND<0.5 U	ND<0.75 U	-0.25	302	670
ND<0.5 U	ND<0.75 U	-0.25	302	671
ND<1 U	ND<0.75 U	0.25	303	671
ND<1 U	ND<0.75 U	0.25	304	671
ND<1 U	ND<0.75 U	0.25	305	671
ND<1 U	ND<0.75 U	0.25	306	671
ND<1 U	ND<0.75 U	0.25	307	671
ND<1 U	ND<0.75 U	0.25	308	671
ND<1 U	ND<0.75 U	0.25	309	671
ND<1 U	ND<0.75 U	0.25	310	671
ND<1 U	ND<0.75 U	0.25	311	671
ND<1 U	ND<0.75 U	0.25	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.75 U	ND<0.75 U	0	312	671
ND<0.5 U	ND<0.75 U	-0.25	312	672
ND<0.5 U	ND<0.75 U	-0.25	312	673
ND<0.5 U	ND<0.75 U	-0.25	312	674
ND<0.5 U	ND<0.75 U	-0.25	312	675
ND<0.5 U	ND<0.75 U	-0.25	312	676
ND<0.5 U	ND<0.75 U	-0.25	312	677
ND<0.5 U	ND<0.75 U	-0.25	312	678
ND<0.5 U	ND<0.75 U	-0.25	312	679
ND<0.5 U	ND<0.75 U	-0.25	312	680
ND<0.5 U	ND<0.75 U	-0.25	312	681
ND<0.5 U	ND<0.75 U	-0.25	312	682
ND<0.5 U	ND<0.75 U	-0.25	312	683
ND<0.5 U	ND<0.75 U	-0.25	312	684
ND<0.5 U	ND<0.75 U	-0.25	312	685
ND<0.5 U	ND<0.75 U	-0.25	312	686
ND<0.5 U	ND<0.75 U	-0.25	312	687
ND<0.5 U	ND<0.75 U	-0.25	312	688
ND<0.5 U	ND<0.75 U	-0.25	312	689
ND<0.5 U	ND<0.75 U	-0.25	312	690
ND<0.5 U	ND<0.75 U	-0.25	312	691
ND<0.5 U	ND<0.75 U	-0.25	312	692
ND<0.5 U	ND<0.75 U	-0.25	312	693
ND<1 U	ND<0.75 U	0.25	313	693
ND<1 U	ND<0.75 U	0.25	314	693
ND<1 U	ND<0.75 U	0.25	315	693
ND<1 U	ND<0.75 U	0.25	316	693

ND<1 U	ND<0.75 U	0.25	317	693
ND<1 U	ND<0.75 U	0.25	318	693
ND<1 U	ND<0.75 U	0.25	319	693
ND<1 U	ND<0.75 U	0.25	320	693
ND<1 U	ND<0.75 U	0.25	321	693
ND<1 U	ND<0.75 U	0.25	322	693
ND<0.75 U	ND<0.75 U	0	322	693
ND<0.75 U	ND<0.75 U	0	322	693
ND<0.75 U	ND<0.75 U	0	322	693
ND<0.75 U	ND<0.75 U	0	322	693
ND<0.75 U	ND<0.75 U	0	322	693
ND<0.75 U	ND<0.75 U	0	322	693
ND<0.5 U	ND<0.75 U	-0.25	322	694
ND<0.5 U	ND<0.75 U	-0.25	322	695
ND<0.5 U	ND<0.75 U	-0.25	322	696
ND<0.5 U	ND<0.75 U	-0.25	322	697
ND<0.5 U	ND<0.75 U	-0.25	322	698
ND<0.5 U	ND<0.75 U	-0.25	322	699
ND<0.5 U	ND<0.75 U	-0.25	322	700
ND<0.5 U	ND<0.75 U	-0.25	322	701
ND<0.5 U	ND<0.75 U	-0.25	322	702
ND<0.5 U	ND<0.75 U	-0.25	322	703
ND<0.5 U	ND<0.75 U	-0.25	322	704
ND<0.5 U	ND<0.75 U	-0.25	322	705
ND<0.5 U	ND<0.75 U	-0.25	322	706
ND<0.5 U	ND<0.75 U	-0.25	322	707
ND<0.5 U	ND<0.75 U	-0.25	322	708
ND<0.5 U	ND<0.75 U	-0.25	322	709
ND<0.5 U	ND<0.75 U	-0.25	322	710
ND<0.5 U	ND<0.75 U	-0.25	322	711
ND<0.5 U	ND<0.75 U	-0.25	322	712
ND<0.5 U	ND<0.75 U	-0.25	322	713
ND<0.5 U	ND<0.75 U	-0.25	322	714
ND<0.5 U	ND<0.75 U	-0.25	322	715
ND<1 U	ND<0.75 U	0.25	323	715
ND<1 U	ND<0.75 U	0.25	324	715
ND<1 U	ND<0.75 U	0.25	325	715
ND<1 U	ND<0.75 U	0.25	326	715
ND<1 U	ND<0.75 U	0.25	327	715
ND<1 U	ND<0.75 U	0.25	328	715
ND<1 U	ND<0.75 U	0.25	329	715
ND<1 U	ND<0.75 U	0.25	330	715
ND<1 U	ND<0.75 U	0.25	331	715
ND<1 U	ND<0.75 U	0.25	332	715
ND<0.75 U	ND<0.75 U	0	332	715
ND<0.75 U	ND<0.75 U	0	332	715
ND<0.75 U	ND<0.75 U	0	332	715
ND<0.75 U	ND<0.75 U	0	332	715
ND<0.75 U	ND<0.75 U	0	332	715
ND<0.5 U	ND<0.75 U	-0.25	332	716
ND<0.5 U	ND<0.75 U	-0.25	332	717
ND<0.5 U	ND<0.75 U	-0.25	332	718
ND<0.5 U	ND<0.75 U	-0.25	332	719
ND<0.5 U	ND<0.75 U	-0.25	332	720
ND<0.5 U	ND<0.75 U	-0.25	332	721

ND<0.5 U	ND<0.75 U	-0.25	332	722
ND<0.5 U	ND<0.75 U	-0.25	332	723
ND<0.5 U	ND<0.75 U	-0.25	332	724
ND<0.5 U	ND<0.75 U	-0.25	332	725
ND<0.5 U	ND<0.75 U	-0.25	332	726
ND<0.5 U	ND<0.75 U	-0.25	332	727
ND<0.5 U	ND<0.75 U	-0.25	332	728
ND<0.5 U	ND<0.75 U	-0.25	332	729
ND<0.5 U	ND<0.75 U	-0.25	332	730
ND<0.5 U	ND<0.75 U	-0.25	332	731
ND<0.5 U	ND<0.75 U	-0.25	332	732
ND<0.5 U	ND<0.75 U	-0.25	332	733
ND<0.5 U	ND<0.75 U	-0.25	332	734
ND<0.5 U	ND<0.75 U	-0.25	332	735
ND<0.5 U	ND<0.75 U	-0.25	332	736
ND<0.5 U	ND<0.75 U	-0.25	332	737
ND<1 U	ND<0.75 U	0.25	333	737
ND<1 U	ND<0.75 U	0.25	334	737
ND<1 U	ND<0.75 U	0.25	335	737
ND<1 U	ND<0.75 U	0.25	336	737
ND<1 U	ND<0.75 U	0.25	337	737
ND<1 U	ND<0.75 U	0.25	338	737
ND<1 U	ND<0.75 U	0.25	339	737
ND<1 U	ND<0.75 U	0.25	340	737
ND<1 U	ND<0.75 U	0.25	341	737
ND<1 U	ND<0.75 U	0.25	342	737
ND<0.75 U	ND<0.75 U	0	342	737
ND<0.75 U	ND<0.75 U	0	342	737
ND<0.75 U	ND<0.75 U	0	342	737
ND<0.75 U	ND<0.75 U	0	342	737
ND<0.5 U	ND<0.75 U	-0.25	342	738
ND<0.5 U	ND<0.75 U	-0.25	342	739
ND<0.5 U	ND<0.75 U	-0.25	342	740
ND<0.5 U	ND<0.75 U	-0.25	342	741
ND<0.5 U	ND<0.75 U	-0.25	342	742
ND<0.5 U	ND<0.75 U	-0.25	342	743
ND<0.5 U	ND<0.75 U	-0.25	342	744
ND<0.5 U	ND<0.75 U	-0.25	342	745
ND<0.5 U	ND<0.75 U	-0.25	342	746
ND<0.5 U	ND<0.75 U	-0.25	342	747
ND<0.5 U	ND<0.75 U	-0.25	342	748
ND<0.5 U	ND<0.75 U	-0.25	342	749
ND<0.5 U	ND<0.75 U	-0.25	342	750
ND<0.5 U	ND<0.75 U	-0.25	342	751
ND<0.5 U	ND<0.75 U	-0.25	342	752
ND<0.5 U	ND<0.75 U	-0.25	342	753
ND<0.5 U	ND<0.75 U	-0.25	342	754
ND<0.5 U	ND<0.75 U	-0.25	342	755
ND<0.5 U	ND<0.75 U	-0.25	342	756
ND<0.5 U	ND<0.75 U	-0.25	342	757
ND<0.5 U	ND<0.75 U	-0.25	342	758
ND<0.5 U	ND<0.75 U	-0.25	342	759
ND<1 U	ND<0.75 U	0.25	343	759
ND<1 U	ND<0.75 U	0.25	344	759
ND<1 U	ND<0.75 U	0.25	345	759
ND<1 U	ND<0.75 U	0.25	346	759

ND<1 U	ND<0.75 U	0.25	347	759
ND<1 U	ND<0.75 U	0.25	348	759
ND<1 U	ND<0.75 U	0.25	349	759
ND<1 U	ND<0.75 U	0.25	350	759
ND<1 U	ND<0.75 U	0.25	351	759
ND<1 U	ND<0.75 U	0.25	352	759

ND<0.75 U	ND<0.75 U	0	352	759
ND<0.75 U	ND<0.75 U	0	352	759
ND<0.75 U	ND<0.75 U	0	352	759
ND<0.5 U	ND<0.75 U	-0.25	352	760
ND<0.5 U	ND<0.75 U	-0.25	352	761
ND<0.5 U	ND<0.75 U	-0.25	352	762
ND<0.5 U	ND<0.75 U	-0.25	352	763
ND<0.5 U	ND<0.75 U	-0.25	352	764
ND<0.5 U	ND<0.75 U	-0.25	352	765
ND<0.5 U	ND<0.75 U	-0.25	352	766
ND<0.5 U	ND<0.75 U	-0.25	352	767
ND<0.5 U	ND<0.75 U	-0.25	352	768
ND<0.5 U	ND<0.75 U	-0.25	352	769
ND<0.5 U	ND<0.75 U	-0.25	352	770
ND<0.5 U	ND<0.75 U	-0.25	352	771
ND<0.5 U	ND<0.75 U	-0.25	352	772
ND<0.5 U	ND<0.75 U	-0.25	352	773
ND<0.5 U	ND<0.75 U	-0.25	352	774
ND<0.5 U	ND<0.75 U	-0.25	352	775
ND<0.5 U	ND<0.75 U	-0.25	352	776
ND<0.5 U	ND<0.75 U	-0.25	352	777
ND<0.5 U	ND<0.75 U	-0.25	352	778
ND<0.5 U	ND<0.75 U	-0.25	352	779
ND<0.5 U	ND<0.75 U	-0.25	352	780
ND<0.5 U	ND<0.75 U	-0.25	352	781
ND<1 U	ND<0.75 U	0.25	353	781
ND<1 U	ND<0.75 U	0.25	354	781
ND<1 U	ND<0.75 U	0.25	355	781
ND<1 U	ND<0.75 U	0.25	356	781
ND<1 U	ND<0.75 U	0.25	357	781
ND<1 U	ND<0.75 U	0.25	358	781
ND<1 U	ND<0.75 U	0.25	359	781
ND<1 U	ND<0.75 U	0.25	360	781
ND<1 U	ND<0.75 U	0.25	361	781
ND<1 U	ND<0.75 U	0.25	362	781

ND<0.75 U	ND<0.75 U	0	362	781
ND<0.75 U	ND<0.75 U	0	362	781
ND<0.5 U	ND<0.75 U	-0.25	362	782
ND<0.5 U	ND<0.75 U	-0.25	362	783
ND<0.5 U	ND<0.75 U	-0.25	362	784
ND<0.5 U	ND<0.75 U	-0.25	362	785
ND<0.5 U	ND<0.75 U	-0.25	362	786
ND<0.5 U	ND<0.75 U	-0.25	362	787
ND<0.5 U	ND<0.75 U	-0.25	362	788
ND<0.5 U	ND<0.75 U	-0.25	362	789
ND<0.5 U	ND<0.75 U	-0.25	362	790
ND<0.5 U	ND<0.75 U	-0.25	362	791
ND<0.5 U	ND<0.75 U	-0.25	362	792
ND<0.5 U	ND<0.75 U	-0.25	362	793

ND<0.5 U	ND<0.75 U	-0.25	362	794
ND<0.5 U	ND<0.75 U	-0.25	362	795
ND<0.5 U	ND<0.75 U	-0.25	362	796
ND<0.5 U	ND<0.75 U	-0.25	362	797
ND<0.5 U	ND<0.75 U	-0.25	362	798
ND<0.5 U	ND<0.75 U	-0.25	362	799
ND<0.5 U	ND<0.75 U	-0.25	362	800
ND<0.5 U	ND<0.75 U	-0.25	362	801
ND<0.5 U	ND<0.75 U	-0.25	362	802
ND<0.5 U	ND<0.75 U	-0.25	362	803
ND<1 U	ND<0.75 U	0.25	363	803
ND<1 U	ND<0.75 U	0.25	364	803
ND<1 U	ND<0.75 U	0.25	365	803
ND<1 U	ND<0.75 U	0.25	366	803
ND<1 U	ND<0.75 U	0.25	367	803
ND<1 U	ND<0.75 U	0.25	368	803
ND<1 U	ND<0.75 U	0.25	369	803
ND<1 U	ND<0.75 U	0.25	370	803
ND<1 U	ND<0.75 U	0.25	371	803
ND<1 U	ND<0.75 U	0.25	372	803
ND<0.75 U	ND<0.75 U	0	372	803
ND<0.5 U	ND<0.75 U	-0.25	372	804
ND<0.5 U	ND<0.75 U	-0.25	372	805
ND<0.5 U	ND<0.75 U	-0.25	372	806
ND<0.5 U	ND<0.75 U	-0.25	372	807
ND<0.5 U	ND<0.75 U	-0.25	372	808
ND<0.5 U	ND<0.75 U	-0.25	372	809
ND<0.5 U	ND<0.75 U	-0.25	372	810
ND<0.5 U	ND<0.75 U	-0.25	372	811
ND<0.5 U	ND<0.75 U	-0.25	372	812
ND<0.5 U	ND<0.75 U	-0.25	372	813
ND<0.5 U	ND<0.75 U	-0.25	372	814
ND<0.5 U	ND<0.75 U	-0.25	372	815
ND<0.5 U	ND<0.75 U	-0.25	372	816
ND<0.5 U	ND<0.75 U	-0.25	372	817
ND<0.5 U	ND<0.75 U	-0.25	372	818
ND<0.5 U	ND<0.75 U	-0.25	372	819
ND<0.5 U	ND<0.75 U	-0.25	372	820
ND<0.5 U	ND<0.75 U	-0.25	372	821
ND<0.5 U	ND<0.75 U	-0.25	372	822
ND<0.5 U	ND<0.75 U	-0.25	372	823
ND<0.5 U	ND<0.75 U	-0.25	372	824
ND<0.5 U	ND<0.75 U	-0.25	372	825
ND<1 U	ND<0.75 U	0.25	373	825
ND<1 U	ND<0.75 U	0.25	374	825
ND<1 U	ND<0.75 U	0.25	375	825
ND<1 U	ND<0.75 U	0.25	376	825
ND<1 U	ND<0.75 U	0.25	377	825
ND<1 U	ND<0.75 U	0.25	378	825
ND<1 U	ND<0.75 U	0.25	379	825
ND<1 U	ND<0.75 U	0.25	380	825
ND<1 U	ND<0.75 U	0.25	381	825
ND<1 U	ND<0.75 U	0.25	382	825
ND<0.5 U	ND<0.75 U	-0.25	382	826
ND<0.5 U	ND<0.75 U	-0.25	382	827

ND<0.5 U	ND<0.75 U	-0.25	382	828
ND<0.5 U	ND<0.75 U	-0.25	382	829
ND<0.5 U	ND<0.75 U	-0.25	382	830
ND<0.5 U	ND<0.75 U	-0.25	382	831
ND<0.5 U	ND<0.75 U	-0.25	382	832
ND<0.5 U	ND<0.75 U	-0.25	382	833
ND<0.5 U	ND<0.75 U	-0.25	382	834
ND<0.5 U	ND<0.75 U	-0.25	382	835
ND<0.5 U	ND<0.75 U	-0.25	382	836
ND<0.5 U	ND<0.75 U	-0.25	382	837
ND<0.5 U	ND<0.75 U	-0.25	382	838
ND<0.5 U	ND<0.75 U	-0.25	382	839
ND<0.5 U	ND<0.75 U	-0.25	382	840
ND<0.5 U	ND<0.75 U	-0.25	382	841
ND<0.5 U	ND<0.75 U	-0.25	382	842
ND<0.5 U	ND<0.75 U	-0.25	382	843
ND<0.5 U	ND<0.75 U	-0.25	382	844
ND<0.5 U	ND<0.75 U	-0.25	382	845
ND<0.5 U	ND<0.75 U	-0.25	382	846
ND<0.5 U	ND<0.75 U	-0.25	382	847
ND<1 U	ND<0.75 U	0.25	383	847
ND<1 U	ND<0.75 U	0.25	384	847
ND<1 U	ND<0.75 U	0.25	385	847
ND<1 U	ND<0.75 U	0.25	386	847
ND<1 U	ND<0.75 U	0.25	387	847
ND<1 U	ND<0.75 U	0.25	388	847
ND<1 U	ND<0.75 U	0.25	389	847
ND<1 U	ND<0.75 U	0.25	390	847
ND<1 U	ND<0.75 U	0.25	391	847
ND<1 U	ND<0.75 U	0.25	392	847

ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<0.5 U	ND<0.5 U	0	392	847
ND<1 U	ND<0.5 U	0.5	393	847
ND<1 U	ND<0.5 U	0.5	394	847
ND<1 U	ND<0.5 U	0.5	395	847
ND<1 U	ND<0.5 U	0.5	396	847
ND<1 U	ND<0.5 U	0.5	397	847

ND<1 U	ND<0.5 U	0.5	398	847
ND<1 U	ND<0.5 U	0.5	399	847
ND<1 U	ND<0.5 U	0.5	400	847
ND<1 U	ND<0.5 U	0.5	401	847
ND<1 U	ND<0.5 U	0.5	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<0.5 U	ND<0.5 U	0	402	847
ND<1 U	ND<0.5 U	0.5	403	847
ND<1 U	ND<0.5 U	0.5	404	847
ND<1 U	ND<0.5 U	0.5	405	847
ND<1 U	ND<0.5 U	0.5	406	847
ND<1 U	ND<0.5 U	0.5	407	847
ND<1 U	ND<0.5 U	0.5	408	847
ND<1 U	ND<0.5 U	0.5	409	847
ND<1 U	ND<0.5 U	0.5	410	847
ND<1 U	ND<0.5 U	0.5	411	847
ND<1 U	ND<0.5 U	0.5	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<0.5 U	ND<0.5 U	0	412	847
ND<1 U	ND<0.5 U	0.5	413	847

ND<1 U	ND<0.5 U	0.5	414	847
ND<1 U	ND<0.5 U	0.5	415	847
ND<1 U	ND<0.5 U	0.5	416	847
ND<1 U	ND<0.5 U	0.5	417	847
ND<1 U	ND<0.5 U	0.5	418	847
ND<1 U	ND<0.5 U	0.5	419	847
ND<1 U	ND<0.5 U	0.5	420	847
ND<1 U	ND<0.5 U	0.5	421	847
ND<1 U	ND<0.5 U	0.5	422	847

ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<0.5 U	ND<0.5 U	0	422	847
ND<1 U	ND<0.5 U	0.5	423	847
ND<1 U	ND<0.5 U	0.5	424	847
ND<1 U	ND<0.5 U	0.5	425	847
ND<1 U	ND<0.5 U	0.5	426	847
ND<1 U	ND<0.5 U	0.5	427	847
ND<1 U	ND<0.5 U	0.5	428	847
ND<1 U	ND<0.5 U	0.5	429	847
ND<1 U	ND<0.5 U	0.5	430	847
ND<1 U	ND<0.5 U	0.5	431	847
ND<1 U	ND<0.5 U	0.5	432	847

ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<0.5 U	ND<0.5 U	0	432	847
ND<1 U	ND<0.5 U	0.5	433	847

ND<1 U	ND<0.5 U	0.5	434	847
ND<1 U	ND<0.5 U	0.5	435	847
ND<1 U	ND<0.5 U	0.5	436	847
ND<1 U	ND<0.5 U	0.5	437	847
ND<1 U	ND<0.5 U	0.5	438	847
ND<1 U	ND<0.5 U	0.5	439	847
ND<1 U	ND<0.5 U	0.5	440	847
ND<1 U	ND<0.5 U	0.5	441	847
ND<1 U	ND<0.5 U	0.5	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<0.5 U	ND<0.5 U	0	442	847
ND<1 U	ND<0.5 U	0.5	443	847
ND<1 U	ND<0.5 U	0.5	444	847
ND<1 U	ND<0.5 U	0.5	445	847
ND<1 U	ND<0.5 U	0.5	446	847
ND<1 U	ND<0.5 U	0.5	447	847
ND<1 U	ND<0.5 U	0.5	448	847
ND<1 U	ND<0.5 U	0.5	449	847
ND<1 U	ND<0.5 U	0.5	450	847
ND<1 U	ND<0.5 U	0.5	451	847
ND<1 U	ND<0.5 U	0.5	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<0.5 U	ND<0.5 U	0	452	847
ND<1 U	ND<0.5 U	0.5	453	847
ND<1 U	ND<0.5 U	0.5	454	847
ND<1 U	ND<0.5 U	0.5	455	847
ND<1 U	ND<0.5 U	0.5	456	847
ND<1 U	ND<0.5 U	0.5	457	847

ND<1 U	ND<0.5 U	0.5	458	847
ND<1 U	ND<0.5 U	0.5	459	847
ND<1 U	ND<0.5 U	0.5	460	847
ND<1 U	ND<0.5 U	0.5	461	847
ND<1 U	ND<0.5 U	0.5	462	847

ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<0.5 U	ND<0.5 U	0	462	847
ND<1 U	ND<0.5 U	0.5	463	847
ND<1 U	ND<0.5 U	0.5	464	847
ND<1 U	ND<0.5 U	0.5	465	847
ND<1 U	ND<0.5 U	0.5	466	847
ND<1 U	ND<0.5 U	0.5	467	847
ND<1 U	ND<0.5 U	0.5	468	847
ND<1 U	ND<0.5 U	0.5	469	847
ND<1 U	ND<0.5 U	0.5	470	847
ND<1 U	ND<0.5 U	0.5	471	847
ND<1 U	ND<0.5 U	0.5	472	847

ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<0.5 U	ND<0.5 U	0	472	847
ND<1 U	ND<0.5 U	0.5	473	847
ND<1 U	ND<0.5 U	0.5	474	847
ND<1 U	ND<0.5 U	0.5	475	847
ND<1 U	ND<0.5 U	0.5	476	847
ND<1 U	ND<0.5 U	0.5	477	847
ND<1 U	ND<0.5 U	0.5	478	847
ND<1 U	ND<0.5 U	0.5	479	847
ND<1 U	ND<0.5 U	0.5	480	847
ND<1 U	ND<0.5 U	0.5	481	847
ND<1 U	ND<0.5 U	0.5	482	847

ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847

ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<0.5 U	ND<0.5 U	0	482	847
ND<1 U	ND<0.5 U	0.5	483	847
ND<1 U	ND<0.5 U	0.5	484	847
ND<1 U	ND<0.5 U	0.5	485	847
ND<1 U	ND<0.5 U	0.5	486	847
ND<1 U	ND<0.5 U	0.5	487	847
ND<1 U	ND<0.5 U	0.5	488	847
ND<1 U	ND<0.5 U	0.5	489	847
ND<1 U	ND<0.5 U	0.5	490	847
ND<1 U	ND<0.5 U	0.5	491	847
ND<1 U	ND<0.5 U	0.5	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<0.5 U	ND<0.5 U	0	492	847
ND<1 U	ND<0.5 U	0.5	493	847
ND<1 U	ND<0.5 U	0.5	494	847
ND<1 U	ND<0.5 U	0.5	495	847
ND<1 U	ND<0.5 U	0.5	496	847
ND<1 U	ND<0.5 U	0.5	497	847
ND<1 U	ND<0.5 U	0.5	498	847
ND<1 U	ND<0.5 U	0.5	499	847
ND<1 U	ND<0.5 U	0.5	500	847
ND<1 U	ND<0.5 U	0.5	501	847
ND<1 U	ND<0.5 U	0.5	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<0.5 U	ND<0.5 U	0	502	847
ND<1 U	ND<0.5 U	0.5	503	847
ND<1 U	ND<0.5 U	0.5	504	847
ND<1 U	ND<0.5 U	0.5	505	847
ND<1 U	ND<0.5 U	0.5	506	847

ND<1 U	ND<0.5 U	0.5	507	847
ND<1 U	ND<0.5 U	0.5	508	847
ND<1 U	ND<0.5 U	0.5	509	847
ND<1 U	ND<0.5 U	0.5	510	847
ND<1 U	ND<0.5 U	0.5	511	847
ND<1 U	ND<0.5 U	0.5	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<0.5 U	ND<0.5 U	0	512	847
ND<1 U	ND<0.5 U	0.5	513	847
ND<1 U	ND<0.5 U	0.5	514	847
ND<1 U	ND<0.5 U	0.5	515	847
ND<1 U	ND<0.5 U	0.5	516	847
ND<1 U	ND<0.5 U	0.5	517	847
ND<1 U	ND<0.5 U	0.5	518	847
ND<1 U	ND<0.5 U	0.5	519	847
ND<1 U	ND<0.5 U	0.5	520	847
ND<1 U	ND<0.5 U	0.5	521	847
ND<1 U	ND<0.5 U	0.5	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<0.5 U	ND<0.5 U	0	522	847
ND<1 U	ND<0.5 U	0.5	523	847
ND<1 U	ND<0.5 U	0.5	524	847
ND<1 U	ND<0.5 U	0.5	525	847
ND<1 U	ND<0.5 U	0.5	526	847
ND<1 U	ND<0.5 U	0.5	527	847
ND<1 U	ND<0.5 U	0.5	528	847
ND<1 U	ND<0.5 U	0.5	529	847
ND<1 U	ND<0.5 U	0.5	530	847
ND<1 U	ND<0.5 U	0.5	531	847
ND<1 U	ND<0.5 U	0.5	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<0.5 U	ND<0.5 U	0	532	847
ND<1 U	ND<0.5 U	0.5	533	847
ND<1 U	ND<0.5 U	0.5	534	847
ND<1 U	ND<0.5 U	0.5	535	847
ND<1 U	ND<0.5 U	0.5	536	847

ND<1 U	ND<0.5 U	0.5	537	847
ND<1 U	ND<0.5 U	0.5	538	847
ND<1 U	ND<0.5 U	0.5	539	847
ND<1 U	ND<0.5 U	0.5	540	847
ND<1 U	ND<0.5 U	0.5	541	847
ND<1 U	ND<0.5 U	0.5	542	847
ND<0.5 U	ND<0.5 U	0	542	847
ND<0.5 U	ND<0.5 U	0	542	847
ND<0.5 U	ND<0.5 U	0	542	847
ND<0.5 U	ND<0.5 U	0	542	847
ND<0.5 U	ND<0.5 U	0	542	847
ND<0.5 U	ND<0.5 U	0	542	847
ND<1 U	ND<0.5 U	0.5	543	847
ND<1 U	ND<0.5 U	0.5	544	847
ND<1 U	ND<0.5 U	0.5	545	847
ND<1 U	ND<0.5 U	0.5	546	847
ND<1 U	ND<0.5 U	0.5	547	847
ND<1 U	ND<0.5 U	0.5	548	847
ND<1 U	ND<0.5 U	0.5	549	847
ND<1 U	ND<0.5 U	0.5	550	847
ND<1 U	ND<0.5 U	0.5	551	847
ND<1 U	ND<0.5 U	0.5	552	847
ND<0.5 U	ND<0.5 U	0	552	847
ND<0.5 U	ND<0.5 U	0	552	847
ND<0.5 U	ND<0.5 U	0	552	847
ND<0.5 U	ND<0.5 U	0	552	847
ND<0.5 U	ND<0.5 U	0	552	847
ND<1 U	ND<0.5 U	0.5	553	847
ND<1 U	ND<0.5 U	0.5	554	847
ND<1 U	ND<0.5 U	0.5	555	847
ND<1 U	ND<0.5 U	0.5	556	847
ND<1 U	ND<0.5 U	0.5	557	847
ND<1 U	ND<0.5 U	0.5	558	847
ND<1 U	ND<0.5 U	0.5	559	847
ND<1 U	ND<0.5 U	0.5	560	847
ND<1 U	ND<0.5 U	0.5	561	847
ND<1 U	ND<0.5 U	0.5	562	847
ND<0.5 U	ND<0.5 U	0	562	847
ND<0.5 U	ND<0.5 U	0	562	847
ND<0.5 U	ND<0.5 U	0	562	847
ND<0.5 U	ND<0.5 U	0	562	847
ND<1 U	ND<0.5 U	0.5	563	847
ND<1 U	ND<0.5 U	0.5	564	847
ND<1 U	ND<0.5 U	0.5	565	847
ND<1 U	ND<0.5 U	0.5	566	847
ND<1 U	ND<0.5 U	0.5	567	847
ND<1 U	ND<0.5 U	0.5	568	847
ND<1 U	ND<0.5 U	0.5	569	847
ND<1 U	ND<0.5 U	0.5	570	847
ND<1 U	ND<0.5 U	0.5	571	847
ND<1 U	ND<0.5 U	0.5	572	847
ND<0.5 U	ND<0.5 U	0	572	847
ND<0.5 U	ND<0.5 U	0	572	847

ND<0.5 U	ND<0.5 U	0	572	847
ND<1 U	ND<0.5 U	0.5	573	847
ND<1 U	ND<0.5 U	0.5	574	847
ND<1 U	ND<0.5 U	0.5	575	847
ND<1 U	ND<0.5 U	0.5	576	847
ND<1 U	ND<0.5 U	0.5	577	847
ND<1 U	ND<0.5 U	0.5	578	847
ND<1 U	ND<0.5 U	0.5	579	847
ND<1 U	ND<0.5 U	0.5	580	847
ND<1 U	ND<0.5 U	0.5	581	847
ND<1 U	ND<0.5 U	0.5	582	847
ND<0.5 U	ND<0.5 U	0	582	847
ND<0.5 U	ND<0.5 U	0	582	847
ND<1 U	ND<0.5 U	0.5	583	847
ND<1 U	ND<0.5 U	0.5	584	847
ND<1 U	ND<0.5 U	0.5	585	847
ND<1 U	ND<0.5 U	0.5	586	847
ND<1 U	ND<0.5 U	0.5	587	847
ND<1 U	ND<0.5 U	0.5	588	847
ND<1 U	ND<0.5 U	0.5	589	847
ND<1 U	ND<0.5 U	0.5	590	847
ND<1 U	ND<0.5 U	0.5	591	847
ND<1 U	ND<0.5 U	0.5	592	847
ND<0.5 U	ND<0.5 U	0	592	847
ND<1 U	ND<0.5 U	0.5	593	847
ND<1 U	ND<0.5 U	0.5	594	847
ND<1 U	ND<0.5 U	0.5	595	847
ND<1 U	ND<0.5 U	0.5	596	847
ND<1 U	ND<0.5 U	0.5	597	847
ND<1 U	ND<0.5 U	0.5	598	847
ND<1 U	ND<0.5 U	0.5	599	847
ND<1 U	ND<0.5 U	0.5	600	847
ND<1 U	ND<0.5 U	0.5	601	847
ND<1 U	ND<0.5 U	0.5	602	847
ND<1 U	ND<0.5 U	0.5	603	847
ND<1 U	ND<0.5 U	0.5	604	847
ND<1 U	ND<0.5 U	0.5	605	847
ND<1 U	ND<0.5 U	0.5	606	847
ND<1 U	ND<0.5 U	0.5	607	847
ND<1 U	ND<0.5 U	0.5	608	847
ND<1 U	ND<0.5 U	0.5	609	847
ND<1 U	ND<0.5 U	0.5	610	847
ND<1 U	ND<0.5 U	0.5	611	847
ND<1 U	ND<0.5 U	0.5	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847

ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847
ND<1 U	ND<1 U	0	612	847

S Statistic = 612 - 847 = -235

Tied Group	Value	Members
1	0.5	27
2	1.5	6
3	0.75	21
4	1	10

Time Period	Observations
11/24/2009	1
1/27/2010	1

3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1

```
4/12/2018                          1
7/24/2018                          1
10/29/2018                         1
1/30/2019                          1
4/29/2019                          1
7/29/2019                          1
There are 0 time periods with multiple data
```

```
A = 63918
B = 0
C = 26370
D = 0
E = 1242
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 27649
Z-Score = -1.40727
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.40727| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Xylenes

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<0.5 U	ND<0.5 U	0	0	0
ND<2 U	ND<0.5 U	1.5	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<0.5 U	ND<0.5 U	0	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<0.5 U	ND<0.5 U	0	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<1.5 U	ND<0.5 U	1	5	0
ND<1.5 U	ND<0.5 U	1	6	0
ND<1.5 U	ND<0.5 U	1	7	0
1	ND<0.5 U	0.5	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
1.6	ND<0.5 U	1.1	12	0
7.9	ND<0.5 U	7.4	13	0
ND<0.75 U	ND<0.5 U	0.25	14	0
ND<0.75 U	ND<0.5 U	0.25	15	0
ND<0.75 U	ND<0.5 U	0.25	16	0
ND<0.75 U	ND<0.5 U	0.25	17	0
ND<0.75 U	ND<0.5 U	0.25	18	0
ND<0.75 U	ND<0.5 U	0.25	19	0
ND<0.75 U	ND<0.5 U	0.25	20	0
ND<0.75 U	ND<0.5 U	0.25	21	0
ND<0.75 U	ND<0.5 U	0.25	22	0
ND<0.75 U	ND<0.5 U	0.25	23	0
ND<0.75 U	ND<0.5 U	0.25	24	0
ND<0.75 U	ND<0.5 U	0.25	25	0
ND<0.75 U	ND<0.5 U	0.25	26	0
ND<0.75 U	ND<0.5 U	0.25	27	0
ND<0.75 U	ND<0.5 U	0.25	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0

ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<0.5 U	ND<0.5 U	0	28	0
ND<1 U	ND<0.5 U	0.5	29	0
ND<1 U	ND<0.5 U	0.5	30	0
ND<1 U	ND<0.5 U	0.5	31	0
ND<1 U	ND<0.5 U	0.5	32	0
ND<1 U	ND<0.5 U	0.5	33	0
2.8	ND<0.5 U	2.3	34	0
ND<1 U	ND<0.5 U	0.5	35	0
ND<1 U	ND<0.5 U	0.5	36	0
ND<1 U	ND<0.5 U	0.5	37	0
ND<1 U	ND<0.5 U	0.5	38	0
ND<2 U	ND<0.5 U	1.5	39	0
ND<1.5 U	ND<0.5 U	1	40	0
ND<0.5 U	ND<0.5 U	0	40	0
ND<1.5 U	ND<0.5 U	1	41	0
ND<0.5 U	ND<0.5 U	0	41	0
ND<0.5 U	ND<0.5 U	0	41	0
ND<1.5 U	ND<0.5 U	1	42	0
ND<1.5 U	ND<0.5 U	1	43	0
ND<1.5 U	ND<0.5 U	1	44	0
ND<1.5 U	ND<0.5 U	1	45	0
1	ND<0.5 U	0.5	46	0
ND<0.75 U	ND<0.5 U	0.25	47	0
ND<0.75 U	ND<0.5 U	0.25	48	0
ND<0.75 U	ND<0.5 U	0.25	49	0
1.6	ND<0.5 U	1.1	50	0
7.9	ND<0.5 U	7.4	51	0
ND<0.75 U	ND<0.5 U	0.25	52	0
ND<0.75 U	ND<0.5 U	0.25	53	0
ND<0.75 U	ND<0.5 U	0.25	54	0
ND<0.75 U	ND<0.5 U	0.25	55	0
ND<0.75 U	ND<0.5 U	0.25	56	0
ND<0.75 U	ND<0.5 U	0.25	57	0
ND<0.75 U	ND<0.5 U	0.25	58	0
ND<0.75 U	ND<0.5 U	0.25	59	0
ND<0.75 U	ND<0.5 U	0.25	60	0
ND<0.75 U	ND<0.5 U	0.25	61	0
ND<0.75 U	ND<0.5 U	0.25	62	0
ND<0.75 U	ND<0.5 U	0.25	63	0
ND<0.75 U	ND<0.5 U	0.25	64	0
ND<0.75 U	ND<0.5 U	0.25	65	0
ND<0.75 U	ND<0.5 U	0.25	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0

ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<0.5 U	ND<0.5 U	0	66	0
ND<1 U	ND<0.5 U	0.5	67	0
ND<1 U	ND<0.5 U	0.5	68	0
ND<1 U	ND<0.5 U	0.5	69	0
ND<1 U	ND<0.5 U	0.5	70	0
ND<1 U	ND<0.5 U	0.5	71	0
2.8	ND<0.5 U	2.3	72	0
ND<1 U	ND<0.5 U	0.5	73	0
ND<1 U	ND<0.5 U	0.5	74	0
ND<1 U	ND<0.5 U	0.5	75	0
ND<1 U	ND<0.5 U	0.5	76	0
ND<1.5 U	ND<2 U	-0.5	76	1
ND<0.5 U	ND<2 U	-1.5	76	2
ND<1.5 U	ND<2 U	-0.5	76	3
ND<0.5 U	ND<2 U	-1.5	76	4
ND<0.5 U	ND<2 U	-1.5	76	5
ND<1.5 U	ND<2 U	-0.5	76	6
ND<1.5 U	ND<2 U	-0.5	76	7
ND<1.5 U	ND<2 U	-0.5	76	8
ND<1.5 U	ND<2 U	-0.5	76	9
1	ND<2 U	-1	76	10
ND<0.75 U	ND<2 U	-1.25	76	11
ND<0.75 U	ND<2 U	-1.25	76	12
ND<0.75 U	ND<2 U	-1.25	76	13
1.6	ND<2 U	-0.4	76	14
7.9	ND<2 U	5.9	77	14
ND<0.75 U	ND<2 U	-1.25	77	15
ND<0.75 U	ND<2 U	-1.25	77	16
ND<0.75 U	ND<2 U	-1.25	77	17
ND<0.75 U	ND<2 U	-1.25	77	18
ND<0.75 U	ND<2 U	-1.25	77	19
ND<0.75 U	ND<2 U	-1.25	77	20
ND<0.75 U	ND<2 U	-1.25	77	21
ND<0.75 U	ND<2 U	-1.25	77	22
ND<0.75 U	ND<2 U	-1.25	77	23
ND<0.75 U	ND<2 U	-1.25	77	24
ND<0.75 U	ND<2 U	-1.25	77	25
ND<0.75 U	ND<2 U	-1.25	77	26
ND<0.75 U	ND<2 U	-1.25	77	27
ND<0.75 U	ND<2 U	-1.25	77	28
ND<0.75 U	ND<2 U	-1.25	77	29
ND<0.5 U	ND<2 U	-1.5	77	30
ND<0.5 U	ND<2 U	-1.5	77	31

ND<0.5 U	ND<2 U	-1.5	77	32
ND<0.5 U	ND<2 U	-1.5	77	33
ND<0.5 U	ND<2 U	-1.5	77	34
ND<0.5 U	ND<2 U	-1.5	77	35
ND<0.5 U	ND<2 U	-1.5	77	36
ND<0.5 U	ND<2 U	-1.5	77	37
ND<0.5 U	ND<2 U	-1.5	77	38
ND<0.5 U	ND<2 U	-1.5	77	39
ND<0.5 U	ND<2 U	-1.5	77	40
ND<0.5 U	ND<2 U	-1.5	77	41
ND<0.5 U	ND<2 U	-1.5	77	42
ND<0.5 U	ND<2 U	-1.5	77	43
ND<0.5 U	ND<2 U	-1.5	77	44
ND<0.5 U	ND<2 U	-1.5	77	45
ND<0.5 U	ND<2 U	-1.5	77	46
ND<0.5 U	ND<2 U	-1.5	77	47
ND<0.5 U	ND<2 U	-1.5	77	48
ND<0.5 U	ND<2 U	-1.5	77	49
ND<0.5 U	ND<2 U	-1.5	77	50
ND<0.5 U	ND<2 U	-1.5	77	51
ND<1 U	ND<2 U	-1	77	52
ND<1 U	ND<2 U	-1	77	53
ND<1 U	ND<2 U	-1	77	54
ND<1 U	ND<2 U	-1	77	55
ND<1 U	ND<2 U	-1	77	56
2.8	ND<2 U	0.8	78	56
ND<1 U	ND<2 U	-1	78	57
ND<1 U	ND<2 U	-1	78	58
ND<1 U	ND<2 U	-1	78	59
ND<1 U	ND<2 U	-1	78	60
ND<0.5 U	ND<1.5 U	-1	78	61
ND<1.5 U	ND<1.5 U	0	78	61
ND<0.5 U	ND<1.5 U	-1	78	62
ND<0.5 U	ND<1.5 U	-1	78	63
ND<1.5 U	ND<1.5 U	0	78	63
ND<1.5 U	ND<1.5 U	0	78	63
ND<1.5 U	ND<1.5 U	0	78	63
ND<1.5 U	ND<1.5 U	0	78	63
1	ND<1.5 U	-0.5	78	64
ND<0.75 U	ND<1.5 U	-0.75	78	65
ND<0.75 U	ND<1.5 U	-0.75	78	66
ND<0.75 U	ND<1.5 U	-0.75	78	67
1.6	ND<1.5 U	0.1	79	67
7.9	ND<1.5 U	6.4	80	67
ND<0.75 U	ND<1.5 U	-0.75	80	68
ND<0.75 U	ND<1.5 U	-0.75	80	69
ND<0.75 U	ND<1.5 U	-0.75	80	70
ND<0.75 U	ND<1.5 U	-0.75	80	71
ND<0.75 U	ND<1.5 U	-0.75	80	72
ND<0.75 U	ND<1.5 U	-0.75	80	73
ND<0.75 U	ND<1.5 U	-0.75	80	74
ND<0.75 U	ND<1.5 U	-0.75	80	75
ND<0.75 U	ND<1.5 U	-0.75	80	76
ND<0.75 U	ND<1.5 U	-0.75	80	77
ND<0.75 U	ND<1.5 U	-0.75	80	78
ND<0.75 U	ND<1.5 U	-0.75	80	79

ND<0.75 U	ND<1.5 U	-0.75	80	80
ND<0.75 U	ND<1.5 U	-0.75	80	81
ND<0.75 U	ND<1.5 U	-0.75	80	82
ND<0.5 U	ND<1.5 U	-1	80	83
ND<0.5 U	ND<1.5 U	-1	80	84
ND<0.5 U	ND<1.5 U	-1	80	85
ND<0.5 U	ND<1.5 U	-1	80	86
ND<0.5 U	ND<1.5 U	-1	80	87
ND<0.5 U	ND<1.5 U	-1	80	88
ND<0.5 U	ND<1.5 U	-1	80	89
ND<0.5 U	ND<1.5 U	-1	80	90
ND<0.5 U	ND<1.5 U	-1	80	91
ND<0.5 U	ND<1.5 U	-1	80	92
ND<0.5 U	ND<1.5 U	-1	80	93
ND<0.5 U	ND<1.5 U	-1	80	94
ND<0.5 U	ND<1.5 U	-1	80	95
ND<0.5 U	ND<1.5 U	-1	80	96
ND<0.5 U	ND<1.5 U	-1	80	97
ND<0.5 U	ND<1.5 U	-1	80	98
ND<0.5 U	ND<1.5 U	-1	80	99
ND<0.5 U	ND<1.5 U	-1	80	100
ND<0.5 U	ND<1.5 U	-1	80	101
ND<0.5 U	ND<1.5 U	-1	80	102
ND<0.5 U	ND<1.5 U	-1	80	103
ND<0.5 U	ND<1.5 U	-1	80	104
ND<1 U	ND<1.5 U	-0.5	80	105
ND<1 U	ND<1.5 U	-0.5	80	106
ND<1 U	ND<1.5 U	-0.5	80	107
ND<1 U	ND<1.5 U	-0.5	80	108
ND<1 U	ND<1.5 U	-0.5	80	109
2.8	ND<1.5 U	1.3	81	109
ND<1 U	ND<1.5 U	-0.5	81	110
ND<1 U	ND<1.5 U	-0.5	81	111
ND<1 U	ND<1.5 U	-0.5	81	112
ND<1 U	ND<1.5 U	-0.5	81	113
ND<1.5 U	ND<0.5 U	1	82	113
ND<0.5 U	ND<0.5 U	0	82	113
ND<0.5 U	ND<0.5 U	0	82	113
ND<1.5 U	ND<0.5 U	1	83	113
ND<1.5 U	ND<0.5 U	1	84	113
ND<1.5 U	ND<0.5 U	1	85	113
ND<1.5 U	ND<0.5 U	1	86	113
1	ND<0.5 U	0.5	87	113
ND<0.75 U	ND<0.5 U	0.25	88	113
ND<0.75 U	ND<0.5 U	0.25	89	113
ND<0.75 U	ND<0.5 U	0.25	90	113
1.6	ND<0.5 U	1.1	91	113
7.9	ND<0.5 U	7.4	92	113
ND<0.75 U	ND<0.5 U	0.25	93	113
ND<0.75 U	ND<0.5 U	0.25	94	113
ND<0.75 U	ND<0.5 U	0.25	95	113
ND<0.75 U	ND<0.5 U	0.25	96	113
ND<0.75 U	ND<0.5 U	0.25	97	113
ND<0.75 U	ND<0.5 U	0.25	98	113
ND<0.75 U	ND<0.5 U	0.25	99	113
ND<0.75 U	ND<0.5 U	0.25	100	113

ND<0.75 U	ND<0.5 U	0.25	101	113
ND<0.75 U	ND<0.5 U	0.25	102	113
ND<0.75 U	ND<0.5 U	0.25	103	113
ND<0.75 U	ND<0.5 U	0.25	104	113
ND<0.75 U	ND<0.5 U	0.25	105	113
ND<0.75 U	ND<0.5 U	0.25	106	113
ND<0.75 U	ND<0.5 U	0.25	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<0.5 U	ND<0.5 U	0	107	113
ND<1 U	ND<0.5 U	0.5	108	113
ND<1 U	ND<0.5 U	0.5	109	113
ND<1 U	ND<0.5 U	0.5	110	113
ND<1 U	ND<0.5 U	0.5	111	113
ND<1 U	ND<0.5 U	0.5	112	113
2.8	ND<0.5 U	2.3	113	113
ND<1 U	ND<0.5 U	0.5	114	113
ND<1 U	ND<0.5 U	0.5	115	113
ND<1 U	ND<0.5 U	0.5	116	113
ND<1 U	ND<0.5 U	0.5	117	113
ND<0.5 U	ND<1.5 U	-1	117	114
ND<0.5 U	ND<1.5 U	-1	117	115
ND<1.5 U	ND<1.5 U	0	117	115
ND<1.5 U	ND<1.5 U	0	117	115
ND<1.5 U	ND<1.5 U	0	117	115
ND<1.5 U	ND<1.5 U	0	117	115
1	ND<1.5 U	-0.5	117	116
ND<0.75 U	ND<1.5 U	-0.75	117	117
ND<0.75 U	ND<1.5 U	-0.75	117	118
ND<0.75 U	ND<1.5 U	-0.75	117	119
1.6	ND<1.5 U	0.1	118	119
7.9	ND<1.5 U	6.4	119	119
ND<0.75 U	ND<1.5 U	-0.75	119	120
ND<0.75 U	ND<1.5 U	-0.75	119	121
ND<0.75 U	ND<1.5 U	-0.75	119	122
ND<0.75 U	ND<1.5 U	-0.75	119	123
ND<0.75 U	ND<1.5 U	-0.75	119	124

ND<0.75 U	ND<1.5 U	-0.75	119	125
ND<0.75 U	ND<1.5 U	-0.75	119	126
ND<0.75 U	ND<1.5 U	-0.75	119	127
ND<0.75 U	ND<1.5 U	-0.75	119	128
ND<0.75 U	ND<1.5 U	-0.75	119	129
ND<0.75 U	ND<1.5 U	-0.75	119	130
ND<0.75 U	ND<1.5 U	-0.75	119	131
ND<0.75 U	ND<1.5 U	-0.75	119	132
ND<0.75 U	ND<1.5 U	-0.75	119	133
ND<0.75 U	ND<1.5 U	-0.75	119	134
ND<0.5 U	ND<1.5 U	-1	119	135
ND<0.5 U	ND<1.5 U	-1	119	136
ND<0.5 U	ND<1.5 U	-1	119	137
ND<0.5 U	ND<1.5 U	-1	119	138
ND<0.5 U	ND<1.5 U	-1	119	139
ND<0.5 U	ND<1.5 U	-1	119	140
ND<0.5 U	ND<1.5 U	-1	119	141
ND<0.5 U	ND<1.5 U	-1	119	142
ND<0.5 U	ND<1.5 U	-1	119	143
ND<0.5 U	ND<1.5 U	-1	119	144
ND<0.5 U	ND<1.5 U	-1	119	145
ND<0.5 U	ND<1.5 U	-1	119	146
ND<0.5 U	ND<1.5 U	-1	119	147
ND<0.5 U	ND<1.5 U	-1	119	148
ND<0.5 U	ND<1.5 U	-1	119	149
ND<0.5 U	ND<1.5 U	-1	119	150
ND<0.5 U	ND<1.5 U	-1	119	151
ND<0.5 U	ND<1.5 U	-1	119	152
ND<0.5 U	ND<1.5 U	-1	119	153
ND<0.5 U	ND<1.5 U	-1	119	154
ND<0.5 U	ND<1.5 U	-1	119	155
ND<0.5 U	ND<1.5 U	-1	119	156
ND<1 U	ND<1.5 U	-0.5	119	157
ND<1 U	ND<1.5 U	-0.5	119	158
ND<1 U	ND<1.5 U	-0.5	119	159
ND<1 U	ND<1.5 U	-0.5	119	160
ND<1 U	ND<1.5 U	-0.5	119	161
2.8	ND<1.5 U	1.3	120	161
ND<1 U	ND<1.5 U	-0.5	120	162
ND<1 U	ND<1.5 U	-0.5	120	163
ND<1 U	ND<1.5 U	-0.5	120	164
ND<1 U	ND<1.5 U	-0.5	120	165

ND<0.5 U	ND<0.5 U	0	120	165
ND<1.5 U	ND<0.5 U	1	121	165
ND<1.5 U	ND<0.5 U	1	122	165
ND<1.5 U	ND<0.5 U	1	123	165
ND<1.5 U	ND<0.5 U	1	124	165
1	ND<0.5 U	0.5	125	165
ND<0.75 U	ND<0.5 U	0.25	126	165
ND<0.75 U	ND<0.5 U	0.25	127	165
ND<0.75 U	ND<0.5 U	0.25	128	165
1.6	ND<0.5 U	1.1	129	165
7.9	ND<0.5 U	7.4	130	165
ND<0.75 U	ND<0.5 U	0.25	131	165
ND<0.75 U	ND<0.5 U	0.25	132	165
ND<0.75 U	ND<0.5 U	0.25	133	165

ND<0.75 U	ND<0.5 U	0.25	134	165
ND<0.75 U	ND<0.5 U	0.25	135	165
ND<0.75 U	ND<0.5 U	0.25	136	165
ND<0.75 U	ND<0.5 U	0.25	137	165
ND<0.75 U	ND<0.5 U	0.25	138	165
ND<0.75 U	ND<0.5 U	0.25	139	165
ND<0.75 U	ND<0.5 U	0.25	140	165
ND<0.75 U	ND<0.5 U	0.25	141	165
ND<0.75 U	ND<0.5 U	0.25	142	165
ND<0.75 U	ND<0.5 U	0.25	143	165
ND<0.75 U	ND<0.5 U	0.25	144	165
ND<0.75 U	ND<0.5 U	0.25	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<0.5 U	ND<0.5 U	0	145	165
ND<1 U	ND<0.5 U	0.5	146	165
ND<1 U	ND<0.5 U	0.5	147	165
ND<1 U	ND<0.5 U	0.5	148	165
ND<1 U	ND<0.5 U	0.5	149	165
ND<1 U	ND<0.5 U	0.5	150	165
2.8	ND<0.5 U	2.3	151	165
ND<1 U	ND<0.5 U	0.5	152	165
ND<1 U	ND<0.5 U	0.5	153	165
ND<1 U	ND<0.5 U	0.5	154	165
ND<1 U	ND<0.5 U	0.5	155	165
ND<1.5 U	ND<0.5 U	1	156	165
ND<1.5 U	ND<0.5 U	1	157	165
ND<1.5 U	ND<0.5 U	1	158	165
ND<1.5 U	ND<0.5 U	1	159	165
1	ND<0.5 U	0.5	160	165
ND<0.75 U	ND<0.5 U	0.25	161	165
ND<0.75 U	ND<0.5 U	0.25	162	165
ND<0.75 U	ND<0.5 U	0.25	163	165
1.6	ND<0.5 U	1.1	164	165
7.9	ND<0.5 U	7.4	165	165
ND<0.75 U	ND<0.5 U	0.25	166	165
ND<0.75 U	ND<0.5 U	0.25	167	165

ND<0.75 U	ND<0.5 U	0.25	168	165
ND<0.75 U	ND<0.5 U	0.25	169	165
ND<0.75 U	ND<0.5 U	0.25	170	165
ND<0.75 U	ND<0.5 U	0.25	171	165
ND<0.75 U	ND<0.5 U	0.25	172	165
ND<0.75 U	ND<0.5 U	0.25	173	165
ND<0.75 U	ND<0.5 U	0.25	174	165
ND<0.75 U	ND<0.5 U	0.25	175	165
ND<0.75 U	ND<0.5 U	0.25	176	165
ND<0.75 U	ND<0.5 U	0.25	177	165
ND<0.75 U	ND<0.5 U	0.25	178	165
ND<0.75 U	ND<0.5 U	0.25	179	165
ND<0.75 U	ND<0.5 U	0.25	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<0.5 U	ND<0.5 U	0	180	165
ND<1 U	ND<0.5 U	0.5	181	165
ND<1 U	ND<0.5 U	0.5	182	165
ND<1 U	ND<0.5 U	0.5	183	165
ND<1 U	ND<0.5 U	0.5	184	165
ND<1 U	ND<0.5 U	0.5	185	165
2.8	ND<0.5 U	2.3	186	165
ND<1 U	ND<0.5 U	0.5	187	165
ND<1 U	ND<0.5 U	0.5	188	165
ND<1 U	ND<0.5 U	0.5	189	165
ND<1 U	ND<0.5 U	0.5	190	165
ND<1.5 U	ND<1.5 U	0	190	165
ND<1.5 U	ND<1.5 U	0	190	165
ND<1.5 U	ND<1.5 U	0	190	165
1	ND<1.5 U	-0.5	190	166
ND<0.75 U	ND<1.5 U	-0.75	190	167
ND<0.75 U	ND<1.5 U	-0.75	190	168
ND<0.75 U	ND<1.5 U	-0.75	190	169
1.6	ND<1.5 U	0.1	191	169
7.9	ND<1.5 U	6.4	192	169
ND<0.75 U	ND<1.5 U	-0.75	192	170
ND<0.75 U	ND<1.5 U	-0.75	192	171

ND<0.75 U	ND<1.5 U	-0.75	192	172
ND<0.75 U	ND<1.5 U	-0.75	192	173
ND<0.75 U	ND<1.5 U	-0.75	192	174
ND<0.75 U	ND<1.5 U	-0.75	192	175
ND<0.75 U	ND<1.5 U	-0.75	192	176
ND<0.75 U	ND<1.5 U	-0.75	192	177
ND<0.75 U	ND<1.5 U	-0.75	192	178
ND<0.75 U	ND<1.5 U	-0.75	192	179
ND<0.75 U	ND<1.5 U	-0.75	192	180
ND<0.75 U	ND<1.5 U	-0.75	192	181
ND<0.75 U	ND<1.5 U	-0.75	192	182
ND<0.75 U	ND<1.5 U	-0.75	192	183
ND<0.75 U	ND<1.5 U	-0.75	192	184
ND<0.5 U	ND<1.5 U	-1	192	185
ND<0.5 U	ND<1.5 U	-1	192	186
ND<0.5 U	ND<1.5 U	-1	192	187
ND<0.5 U	ND<1.5 U	-1	192	188
ND<0.5 U	ND<1.5 U	-1	192	189
ND<0.5 U	ND<1.5 U	-1	192	190
ND<0.5 U	ND<1.5 U	-1	192	191
ND<0.5 U	ND<1.5 U	-1	192	192
ND<0.5 U	ND<1.5 U	-1	192	193
ND<0.5 U	ND<1.5 U	-1	192	194
ND<0.5 U	ND<1.5 U	-1	192	195
ND<0.5 U	ND<1.5 U	-1	192	196
ND<0.5 U	ND<1.5 U	-1	192	197
ND<0.5 U	ND<1.5 U	-1	192	198
ND<0.5 U	ND<1.5 U	-1	192	199
ND<0.5 U	ND<1.5 U	-1	192	200
ND<0.5 U	ND<1.5 U	-1	192	201
ND<0.5 U	ND<1.5 U	-1	192	202
ND<0.5 U	ND<1.5 U	-1	192	203
ND<0.5 U	ND<1.5 U	-1	192	204
ND<0.5 U	ND<1.5 U	-1	192	205
ND<0.5 U	ND<1.5 U	-1	192	206
ND<1 U	ND<1.5 U	-0.5	192	207
ND<1 U	ND<1.5 U	-0.5	192	208
ND<1 U	ND<1.5 U	-0.5	192	209
ND<1 U	ND<1.5 U	-0.5	192	210
ND<1 U	ND<1.5 U	-0.5	192	211
2.8	ND<1.5 U	1.3	193	211
ND<1 U	ND<1.5 U	-0.5	193	212
ND<1 U	ND<1.5 U	-0.5	193	213
ND<1 U	ND<1.5 U	-0.5	193	214
ND<1 U	ND<1.5 U	-0.5	193	215
ND<1.5 U	ND<1.5 U	0	193	215
ND<1.5 U	ND<1.5 U	0	193	215
1	ND<1.5 U	-0.5	193	216
ND<0.75 U	ND<1.5 U	-0.75	193	217
ND<0.75 U	ND<1.5 U	-0.75	193	218
ND<0.75 U	ND<1.5 U	-0.75	193	219
1.6	ND<1.5 U	0.1	194	219
7.9	ND<1.5 U	6.4	195	219
ND<0.75 U	ND<1.5 U	-0.75	195	220
ND<0.75 U	ND<1.5 U	-0.75	195	221
ND<0.75 U	ND<1.5 U	-0.75	195	222

ND<0.75 U	ND<1.5 U	-0.75	195	223
ND<0.75 U	ND<1.5 U	-0.75	195	224
ND<0.75 U	ND<1.5 U	-0.75	195	225
ND<0.75 U	ND<1.5 U	-0.75	195	226
ND<0.75 U	ND<1.5 U	-0.75	195	227
ND<0.75 U	ND<1.5 U	-0.75	195	228
ND<0.75 U	ND<1.5 U	-0.75	195	229
ND<0.75 U	ND<1.5 U	-0.75	195	230
ND<0.75 U	ND<1.5 U	-0.75	195	231
ND<0.75 U	ND<1.5 U	-0.75	195	232
ND<0.75 U	ND<1.5 U	-0.75	195	233
ND<0.75 U	ND<1.5 U	-0.75	195	234
ND<0.5 U	ND<1.5 U	-1	195	235
ND<0.5 U	ND<1.5 U	-1	195	236
ND<0.5 U	ND<1.5 U	-1	195	237
ND<0.5 U	ND<1.5 U	-1	195	238
ND<0.5 U	ND<1.5 U	-1	195	239
ND<0.5 U	ND<1.5 U	-1	195	240
ND<0.5 U	ND<1.5 U	-1	195	241
ND<0.5 U	ND<1.5 U	-1	195	242
ND<0.5 U	ND<1.5 U	-1	195	243
ND<0.5 U	ND<1.5 U	-1	195	244
ND<0.5 U	ND<1.5 U	-1	195	245
ND<0.5 U	ND<1.5 U	-1	195	246
ND<0.5 U	ND<1.5 U	-1	195	247
ND<0.5 U	ND<1.5 U	-1	195	248
ND<0.5 U	ND<1.5 U	-1	195	249
ND<0.5 U	ND<1.5 U	-1	195	250
ND<0.5 U	ND<1.5 U	-1	195	251
ND<0.5 U	ND<1.5 U	-1	195	252
ND<0.5 U	ND<1.5 U	-1	195	253
ND<0.5 U	ND<1.5 U	-1	195	254
ND<0.5 U	ND<1.5 U	-1	195	255
ND<0.5 U	ND<1.5 U	-1	195	256
ND<1 U	ND<1.5 U	-0.5	195	257
ND<1 U	ND<1.5 U	-0.5	195	258
ND<1 U	ND<1.5 U	-0.5	195	259
ND<1 U	ND<1.5 U	-0.5	195	260
ND<1 U	ND<1.5 U	-0.5	195	261
2.8	ND<1.5 U	1.3	196	261
ND<1 U	ND<1.5 U	-0.5	196	262
ND<1 U	ND<1.5 U	-0.5	196	263
ND<1 U	ND<1.5 U	-0.5	196	264
ND<1 U	ND<1.5 U	-0.5	196	265
ND<1.5 U	ND<1.5 U	0	196	265
1	ND<1.5 U	-0.5	196	266
ND<0.75 U	ND<1.5 U	-0.75	196	267
ND<0.75 U	ND<1.5 U	-0.75	196	268
ND<0.75 U	ND<1.5 U	-0.75	196	269
1.6	ND<1.5 U	0.1	197	269
7.9	ND<1.5 U	6.4	198	269
ND<0.75 U	ND<1.5 U	-0.75	198	270
ND<0.75 U	ND<1.5 U	-0.75	198	271
ND<0.75 U	ND<1.5 U	-0.75	198	272
ND<0.75 U	ND<1.5 U	-0.75	198	273
ND<0.75 U	ND<1.5 U	-0.75	198	274

ND<0.75 U	ND<1.5 U	-0.75	198	275
ND<0.75 U	ND<1.5 U	-0.75	198	276
ND<0.75 U	ND<1.5 U	-0.75	198	277
ND<0.75 U	ND<1.5 U	-0.75	198	278
ND<0.75 U	ND<1.5 U	-0.75	198	279
ND<0.75 U	ND<1.5 U	-0.75	198	280
ND<0.75 U	ND<1.5 U	-0.75	198	281
ND<0.75 U	ND<1.5 U	-0.75	198	282
ND<0.75 U	ND<1.5 U	-0.75	198	283
ND<0.75 U	ND<1.5 U	-0.75	198	284
ND<0.5 U	ND<1.5 U	-1	198	285
ND<0.5 U	ND<1.5 U	-1	198	286
ND<0.5 U	ND<1.5 U	-1	198	287
ND<0.5 U	ND<1.5 U	-1	198	288
ND<0.5 U	ND<1.5 U	-1	198	289
ND<0.5 U	ND<1.5 U	-1	198	290
ND<0.5 U	ND<1.5 U	-1	198	291
ND<0.5 U	ND<1.5 U	-1	198	292
ND<0.5 U	ND<1.5 U	-1	198	293
ND<0.5 U	ND<1.5 U	-1	198	294
ND<0.5 U	ND<1.5 U	-1	198	295
ND<0.5 U	ND<1.5 U	-1	198	296
ND<0.5 U	ND<1.5 U	-1	198	297
ND<0.5 U	ND<1.5 U	-1	198	298
ND<0.5 U	ND<1.5 U	-1	198	299
ND<0.5 U	ND<1.5 U	-1	198	300
ND<0.5 U	ND<1.5 U	-1	198	301
ND<0.5 U	ND<1.5 U	-1	198	302
ND<0.5 U	ND<1.5 U	-1	198	303
ND<0.5 U	ND<1.5 U	-1	198	304
ND<0.5 U	ND<1.5 U	-1	198	305
ND<0.5 U	ND<1.5 U	-1	198	306
ND<1 U	ND<1.5 U	-0.5	198	307
ND<1 U	ND<1.5 U	-0.5	198	308
ND<1 U	ND<1.5 U	-0.5	198	309
ND<1 U	ND<1.5 U	-0.5	198	310
ND<1 U	ND<1.5 U	-0.5	198	311
2.8	ND<1.5 U	1.3	199	311
ND<1 U	ND<1.5 U	-0.5	199	312
ND<1 U	ND<1.5 U	-0.5	199	313
ND<1 U	ND<1.5 U	-0.5	199	314
ND<1 U	ND<1.5 U	-0.5	199	315
1	ND<1.5 U	-0.5	199	316
ND<0.75 U	ND<1.5 U	-0.75	199	317
ND<0.75 U	ND<1.5 U	-0.75	199	318
ND<0.75 U	ND<1.5 U	-0.75	199	319
1.6	ND<1.5 U	0.1	200	319
7.9	ND<1.5 U	6.4	201	319
ND<0.75 U	ND<1.5 U	-0.75	201	320
ND<0.75 U	ND<1.5 U	-0.75	201	321
ND<0.75 U	ND<1.5 U	-0.75	201	322
ND<0.75 U	ND<1.5 U	-0.75	201	323
ND<0.75 U	ND<1.5 U	-0.75	201	324
ND<0.75 U	ND<1.5 U	-0.75	201	325
ND<0.75 U	ND<1.5 U	-0.75	201	326
ND<0.75 U	ND<1.5 U	-0.75	201	327

ND<0.75 U	ND<1.5 U	-0.75	201	328
ND<0.75 U	ND<1.5 U	-0.75	201	329
ND<0.75 U	ND<1.5 U	-0.75	201	330
ND<0.75 U	ND<1.5 U	-0.75	201	331
ND<0.75 U	ND<1.5 U	-0.75	201	332
ND<0.75 U	ND<1.5 U	-0.75	201	333
ND<0.75 U	ND<1.5 U	-0.75	201	334
ND<0.5 U	ND<1.5 U	-1	201	335
ND<0.5 U	ND<1.5 U	-1	201	336
ND<0.5 U	ND<1.5 U	-1	201	337
ND<0.5 U	ND<1.5 U	-1	201	338
ND<0.5 U	ND<1.5 U	-1	201	339
ND<0.5 U	ND<1.5 U	-1	201	340
ND<0.5 U	ND<1.5 U	-1	201	341
ND<0.5 U	ND<1.5 U	-1	201	342
ND<0.5 U	ND<1.5 U	-1	201	343
ND<0.5 U	ND<1.5 U	-1	201	344
ND<0.5 U	ND<1.5 U	-1	201	345
ND<0.5 U	ND<1.5 U	-1	201	346
ND<0.5 U	ND<1.5 U	-1	201	347
ND<0.5 U	ND<1.5 U	-1	201	348
ND<0.5 U	ND<1.5 U	-1	201	349
ND<0.5 U	ND<1.5 U	-1	201	350
ND<0.5 U	ND<1.5 U	-1	201	351
ND<0.5 U	ND<1.5 U	-1	201	352
ND<0.5 U	ND<1.5 U	-1	201	353
ND<0.5 U	ND<1.5 U	-1	201	354
ND<0.5 U	ND<1.5 U	-1	201	355
ND<0.5 U	ND<1.5 U	-1	201	356
ND<1 U	ND<1.5 U	-0.5	201	357
ND<1 U	ND<1.5 U	-0.5	201	358
ND<1 U	ND<1.5 U	-0.5	201	359
ND<1 U	ND<1.5 U	-0.5	201	360
ND<1 U	ND<1.5 U	-0.5	201	361
2.8	ND<1.5 U	1.3	202	361
ND<1 U	ND<1.5 U	-0.5	202	362
ND<1 U	ND<1.5 U	-0.5	202	363
ND<1 U	ND<1.5 U	-0.5	202	364
ND<1 U	ND<1.5 U	-0.5	202	365
ND<0.75 U	1	-0.25	202	366
ND<0.75 U	1	-0.25	202	367
ND<0.75 U	1	-0.25	202	368
1.6	1	0.6	203	368
7.9	1	6.9	204	368
ND<0.75 U	1	-0.25	204	369
ND<0.75 U	1	-0.25	204	370
ND<0.75 U	1	-0.25	204	371
ND<0.75 U	1	-0.25	204	372
ND<0.75 U	1	-0.25	204	373
ND<0.75 U	1	-0.25	204	374
ND<0.75 U	1	-0.25	204	375
ND<0.75 U	1	-0.25	204	376
ND<0.75 U	1	-0.25	204	377
ND<0.75 U	1	-0.25	204	378
ND<0.75 U	1	-0.25	204	379
ND<0.75 U	1	-0.25	204	380

ND<0.75 U	1	-0.25	204	381
ND<0.75 U	1	-0.25	204	382
ND<0.75 U	1	-0.25	204	383
ND<0.5 U	1	-0.5	204	384
ND<0.5 U	1	-0.5	204	385
ND<0.5 U	1	-0.5	204	386
ND<0.5 U	1	-0.5	204	387
ND<0.5 U	1	-0.5	204	388
ND<0.5 U	1	-0.5	204	389
ND<0.5 U	1	-0.5	204	390
ND<0.5 U	1	-0.5	204	391
ND<0.5 U	1	-0.5	204	392
ND<0.5 U	1	-0.5	204	393
ND<0.5 U	1	-0.5	204	394
ND<0.5 U	1	-0.5	204	395
ND<0.5 U	1	-0.5	204	396
ND<0.5 U	1	-0.5	204	397
ND<0.5 U	1	-0.5	204	398
ND<0.5 U	1	-0.5	204	399
ND<0.5 U	1	-0.5	204	400
ND<0.5 U	1	-0.5	204	401
ND<0.5 U	1	-0.5	204	402
ND<0.5 U	1	-0.5	204	403
ND<0.5 U	1	-0.5	204	404
ND<0.5 U	1	-0.5	204	405
ND<1 U	1	0	204	405
ND<1 U	1	0	204	405
ND<1 U	1	0	204	405
ND<1 U	1	0	204	405
ND<1 U	1	0	204	405
2.8	1	1.8	205	405
ND<1 U	1	0	205	405
ND<1 U	1	0	205	405
ND<1 U	1	0	205	405
ND<1 U	1	0	205	405
ND<0.75 U	ND<0.75 U	0	205	405
ND<0.75 U	ND<0.75 U	0	205	405
1.6	ND<0.75 U	0.85	206	405
7.9	ND<0.75 U	7.15	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.75 U	ND<0.75 U	0	207	405
ND<0.5 U	ND<0.75 U	-0.25	207	406
ND<0.5 U	ND<0.75 U	-0.25	207	407

ND<0.5 U	ND<0.75 U	-0.25	207	408
ND<0.5 U	ND<0.75 U	-0.25	207	409
ND<0.5 U	ND<0.75 U	-0.25	207	410
ND<0.5 U	ND<0.75 U	-0.25	207	411
ND<0.5 U	ND<0.75 U	-0.25	207	412
ND<0.5 U	ND<0.75 U	-0.25	207	413
ND<0.5 U	ND<0.75 U	-0.25	207	414
ND<0.5 U	ND<0.75 U	-0.25	207	415
ND<0.5 U	ND<0.75 U	-0.25	207	416
ND<0.5 U	ND<0.75 U	-0.25	207	417
ND<0.5 U	ND<0.75 U	-0.25	207	418
ND<0.5 U	ND<0.75 U	-0.25	207	419
ND<0.5 U	ND<0.75 U	-0.25	207	420
ND<0.5 U	ND<0.75 U	-0.25	207	421
ND<0.5 U	ND<0.75 U	-0.25	207	422
ND<0.5 U	ND<0.75 U	-0.25	207	423
ND<0.5 U	ND<0.75 U	-0.25	207	424
ND<0.5 U	ND<0.75 U	-0.25	207	425
ND<0.5 U	ND<0.75 U	-0.25	207	426
ND<0.5 U	ND<0.75 U	-0.25	207	427
ND<1 U	ND<0.75 U	0.25	208	427
ND<1 U	ND<0.75 U	0.25	209	427
ND<1 U	ND<0.75 U	0.25	210	427
ND<1 U	ND<0.75 U	0.25	211	427
ND<1 U	ND<0.75 U	0.25	212	427
2.8	ND<0.75 U	2.05	213	427
ND<1 U	ND<0.75 U	0.25	214	427
ND<1 U	ND<0.75 U	0.25	215	427
ND<1 U	ND<0.75 U	0.25	216	427
ND<1 U	ND<0.75 U	0.25	217	427
ND<0.75 U	ND<0.75 U	0	217	427
1.6	ND<0.75 U	0.85	218	427
7.9	ND<0.75 U	7.15	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.75 U	ND<0.75 U	0	219	427
ND<0.5 U	ND<0.75 U	-0.25	219	428
ND<0.5 U	ND<0.75 U	-0.25	219	429
ND<0.5 U	ND<0.75 U	-0.25	219	430
ND<0.5 U	ND<0.75 U	-0.25	219	431
ND<0.5 U	ND<0.75 U	-0.25	219	432
ND<0.5 U	ND<0.75 U	-0.25	219	433
ND<0.5 U	ND<0.75 U	-0.25	219	434
ND<0.5 U	ND<0.75 U	-0.25	219	435

ND<0.5 U	ND<0.75 U	-0.25	219	436
ND<0.5 U	ND<0.75 U	-0.25	219	437
ND<0.5 U	ND<0.75 U	-0.25	219	438
ND<0.5 U	ND<0.75 U	-0.25	219	439
ND<0.5 U	ND<0.75 U	-0.25	219	440
ND<0.5 U	ND<0.75 U	-0.25	219	441
ND<0.5 U	ND<0.75 U	-0.25	219	442
ND<0.5 U	ND<0.75 U	-0.25	219	443
ND<0.5 U	ND<0.75 U	-0.25	219	444
ND<0.5 U	ND<0.75 U	-0.25	219	445
ND<0.5 U	ND<0.75 U	-0.25	219	446
ND<0.5 U	ND<0.75 U	-0.25	219	447
ND<0.5 U	ND<0.75 U	-0.25	219	448
ND<0.5 U	ND<0.75 U	-0.25	219	449
ND<1 U	ND<0.75 U	0.25	220	449
ND<1 U	ND<0.75 U	0.25	221	449
ND<1 U	ND<0.75 U	0.25	222	449
ND<1 U	ND<0.75 U	0.25	223	449
ND<1 U	ND<0.75 U	0.25	224	449
2.8	ND<0.75 U	2.05	225	449
ND<1 U	ND<0.75 U	0.25	226	449
ND<1 U	ND<0.75 U	0.25	227	449
ND<1 U	ND<0.75 U	0.25	228	449
ND<1 U	ND<0.75 U	0.25	229	449
1.6	ND<0.75 U	0.85	230	449
7.9	ND<0.75 U	7.15	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.75 U	ND<0.75 U	0	231	449
ND<0.5 U	ND<0.75 U	-0.25	231	450
ND<0.5 U	ND<0.75 U	-0.25	231	451
ND<0.5 U	ND<0.75 U	-0.25	231	452
ND<0.5 U	ND<0.75 U	-0.25	231	453
ND<0.5 U	ND<0.75 U	-0.25	231	454
ND<0.5 U	ND<0.75 U	-0.25	231	455
ND<0.5 U	ND<0.75 U	-0.25	231	456
ND<0.5 U	ND<0.75 U	-0.25	231	457
ND<0.5 U	ND<0.75 U	-0.25	231	458
ND<0.5 U	ND<0.75 U	-0.25	231	459
ND<0.5 U	ND<0.75 U	-0.25	231	460
ND<0.5 U	ND<0.75 U	-0.25	231	461
ND<0.5 U	ND<0.75 U	-0.25	231	462
ND<0.5 U	ND<0.75 U	-0.25	231	463
ND<0.5 U	ND<0.75 U	-0.25	231	464

ND<0.5 U	ND<0.75 U	-0.25	231	465
ND<0.5 U	ND<0.75 U	-0.25	231	466
ND<0.5 U	ND<0.75 U	-0.25	231	467
ND<0.5 U	ND<0.75 U	-0.25	231	468
ND<0.5 U	ND<0.75 U	-0.25	231	469
ND<0.5 U	ND<0.75 U	-0.25	231	470
ND<0.5 U	ND<0.75 U	-0.25	231	471
ND<1 U	ND<0.75 U	0.25	232	471
ND<1 U	ND<0.75 U	0.25	233	471
ND<1 U	ND<0.75 U	0.25	234	471
ND<1 U	ND<0.75 U	0.25	235	471
ND<1 U	ND<0.75 U	0.25	236	471
2.8	ND<0.75 U	2.05	237	471
ND<1 U	ND<0.75 U	0.25	238	471
ND<1 U	ND<0.75 U	0.25	239	471
ND<1 U	ND<0.75 U	0.25	240	471
ND<1 U	ND<0.75 U	0.25	241	471
7.9	1.6	6.3	242	471
ND<0.75 U	1.6	-0.85	242	472
ND<0.75 U	1.6	-0.85	242	473
ND<0.75 U	1.6	-0.85	242	474
ND<0.75 U	1.6	-0.85	242	475
ND<0.75 U	1.6	-0.85	242	476
ND<0.75 U	1.6	-0.85	242	477
ND<0.75 U	1.6	-0.85	242	478
ND<0.75 U	1.6	-0.85	242	479
ND<0.75 U	1.6	-0.85	242	480
ND<0.75 U	1.6	-0.85	242	481
ND<0.75 U	1.6	-0.85	242	482
ND<0.75 U	1.6	-0.85	242	483
ND<0.75 U	1.6	-0.85	242	484
ND<0.75 U	1.6	-0.85	242	485
ND<0.75 U	1.6	-0.85	242	486
ND<0.5 U	1.6	-1.1	242	487
ND<0.5 U	1.6	-1.1	242	488
ND<0.5 U	1.6	-1.1	242	489
ND<0.5 U	1.6	-1.1	242	490
ND<0.5 U	1.6	-1.1	242	491
ND<0.5 U	1.6	-1.1	242	492
ND<0.5 U	1.6	-1.1	242	493
ND<0.5 U	1.6	-1.1	242	494
ND<0.5 U	1.6	-1.1	242	495
ND<0.5 U	1.6	-1.1	242	496
ND<0.5 U	1.6	-1.1	242	497
ND<0.5 U	1.6	-1.1	242	498
ND<0.5 U	1.6	-1.1	242	499
ND<0.5 U	1.6	-1.1	242	500
ND<0.5 U	1.6	-1.1	242	501
ND<0.5 U	1.6	-1.1	242	502
ND<0.5 U	1.6	-1.1	242	503
ND<0.5 U	1.6	-1.1	242	504
ND<0.5 U	1.6	-1.1	242	505
ND<0.5 U	1.6	-1.1	242	506
ND<0.5 U	1.6	-1.1	242	507
ND<0.5 U	1.6	-1.1	242	508
ND<1 U	1.6	-0.6	242	509

ND<1 U	1.6	-0.6	242	510
ND<1 U	1.6	-0.6	242	511
ND<1 U	1.6	-0.6	242	512
ND<1 U	1.6	-0.6	242	513
2.8	1.6	1.2	243	513
ND<1 U	1.6	-0.6	243	514
ND<1 U	1.6	-0.6	243	515
ND<1 U	1.6	-0.6	243	516
ND<1 U	1.6	-0.6	243	517
ND<0.75 U	7.9	-7.15	243	518
ND<0.75 U	7.9	-7.15	243	519
ND<0.75 U	7.9	-7.15	243	520
ND<0.75 U	7.9	-7.15	243	521
ND<0.75 U	7.9	-7.15	243	522
ND<0.75 U	7.9	-7.15	243	523
ND<0.75 U	7.9	-7.15	243	524
ND<0.75 U	7.9	-7.15	243	525
ND<0.75 U	7.9	-7.15	243	526
ND<0.75 U	7.9	-7.15	243	527
ND<0.75 U	7.9	-7.15	243	528
ND<0.75 U	7.9	-7.15	243	529
ND<0.75 U	7.9	-7.15	243	530
ND<0.75 U	7.9	-7.15	243	531
ND<0.75 U	7.9	-7.15	243	532
ND<0.5 U	7.9	-7.4	243	533
ND<0.5 U	7.9	-7.4	243	534
ND<0.5 U	7.9	-7.4	243	535
ND<0.5 U	7.9	-7.4	243	536
ND<0.5 U	7.9	-7.4	243	537
ND<0.5 U	7.9	-7.4	243	538
ND<0.5 U	7.9	-7.4	243	539
ND<0.5 U	7.9	-7.4	243	540
ND<0.5 U	7.9	-7.4	243	541
ND<0.5 U	7.9	-7.4	243	542
ND<0.5 U	7.9	-7.4	243	543
ND<0.5 U	7.9	-7.4	243	544
ND<0.5 U	7.9	-7.4	243	545
ND<0.5 U	7.9	-7.4	243	546
ND<0.5 U	7.9	-7.4	243	547
ND<0.5 U	7.9	-7.4	243	548
ND<0.5 U	7.9	-7.4	243	549
ND<0.5 U	7.9	-7.4	243	550
ND<0.5 U	7.9	-7.4	243	551
ND<0.5 U	7.9	-7.4	243	552
ND<0.5 U	7.9	-7.4	243	553
ND<0.5 U	7.9	-7.4	243	554
ND<1 U	7.9	-6.9	243	555
ND<1 U	7.9	-6.9	243	556
ND<1 U	7.9	-6.9	243	557
ND<1 U	7.9	-6.9	243	558
ND<1 U	7.9	-6.9	243	559
2.8	7.9	-5.1	243	560
ND<1 U	7.9	-6.9	243	561
ND<1 U	7.9	-6.9	243	562
ND<1 U	7.9	-6.9	243	563
ND<1 U	7.9	-6.9	243	564

ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.75 U	ND<0.75 U	0	243	564
ND<0.5 U	ND<0.75 U	-0.25	243	565
ND<0.5 U	ND<0.75 U	-0.25	243	566
ND<0.5 U	ND<0.75 U	-0.25	243	567
ND<0.5 U	ND<0.75 U	-0.25	243	568
ND<0.5 U	ND<0.75 U	-0.25	243	569
ND<0.5 U	ND<0.75 U	-0.25	243	570
ND<0.5 U	ND<0.75 U	-0.25	243	571
ND<0.5 U	ND<0.75 U	-0.25	243	572
ND<0.5 U	ND<0.75 U	-0.25	243	573
ND<0.5 U	ND<0.75 U	-0.25	243	574
ND<0.5 U	ND<0.75 U	-0.25	243	575
ND<0.5 U	ND<0.75 U	-0.25	243	576
ND<0.5 U	ND<0.75 U	-0.25	243	577
ND<0.5 U	ND<0.75 U	-0.25	243	578
ND<0.5 U	ND<0.75 U	-0.25	243	579
ND<0.5 U	ND<0.75 U	-0.25	243	580
ND<0.5 U	ND<0.75 U	-0.25	243	581
ND<0.5 U	ND<0.75 U	-0.25	243	582
ND<0.5 U	ND<0.75 U	-0.25	243	583
ND<0.5 U	ND<0.75 U	-0.25	243	584
ND<0.5 U	ND<0.75 U	-0.25	243	585
ND<0.5 U	ND<0.75 U	-0.25	243	586
ND<1 U	ND<0.75 U	0.25	244	586
ND<1 U	ND<0.75 U	0.25	245	586
ND<1 U	ND<0.75 U	0.25	246	586
ND<1 U	ND<0.75 U	0.25	247	586
ND<1 U	ND<0.75 U	0.25	248	586
2.8	ND<0.75 U	2.05	249	586
ND<1 U	ND<0.75 U	0.25	250	586
ND<1 U	ND<0.75 U	0.25	251	586
ND<1 U	ND<0.75 U	0.25	252	586
ND<1 U	ND<0.75 U	0.25	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586

ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.75 U	ND<0.75 U	0	253	586
ND<0.5 U	ND<0.75 U	-0.25	253	587
ND<0.5 U	ND<0.75 U	-0.25	253	588
ND<0.5 U	ND<0.75 U	-0.25	253	589
ND<0.5 U	ND<0.75 U	-0.25	253	590
ND<0.5 U	ND<0.75 U	-0.25	253	591
ND<0.5 U	ND<0.75 U	-0.25	253	592
ND<0.5 U	ND<0.75 U	-0.25	253	593
ND<0.5 U	ND<0.75 U	-0.25	253	594
ND<0.5 U	ND<0.75 U	-0.25	253	595
ND<0.5 U	ND<0.75 U	-0.25	253	596
ND<0.5 U	ND<0.75 U	-0.25	253	597
ND<0.5 U	ND<0.75 U	-0.25	253	598
ND<0.5 U	ND<0.75 U	-0.25	253	599
ND<0.5 U	ND<0.75 U	-0.25	253	600
ND<0.5 U	ND<0.75 U	-0.25	253	601
ND<0.5 U	ND<0.75 U	-0.25	253	602
ND<0.5 U	ND<0.75 U	-0.25	253	603
ND<0.5 U	ND<0.75 U	-0.25	253	604
ND<0.5 U	ND<0.75 U	-0.25	253	605
ND<0.5 U	ND<0.75 U	-0.25	253	606
ND<0.5 U	ND<0.75 U	-0.25	253	607
ND<0.5 U	ND<0.75 U	-0.25	253	608
ND<1 U	ND<0.75 U	0.25	254	608
ND<1 U	ND<0.75 U	0.25	255	608
ND<1 U	ND<0.75 U	0.25	256	608
ND<1 U	ND<0.75 U	0.25	257	608
ND<1 U	ND<0.75 U	0.25	258	608
2.8	ND<0.75 U	2.05	259	608
ND<1 U	ND<0.75 U	0.25	260	608
ND<1 U	ND<0.75 U	0.25	261	608
ND<1 U	ND<0.75 U	0.25	262	608
ND<1 U	ND<0.75 U	0.25	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.75 U	ND<0.75 U	0	263	608
ND<0.5 U	ND<0.75 U	-0.25	263	609
ND<0.5 U	ND<0.75 U	-0.25	263	610
ND<0.5 U	ND<0.75 U	-0.25	263	611
ND<0.5 U	ND<0.75 U	-0.25	263	612
ND<0.5 U	ND<0.75 U	-0.25	263	613
ND<0.5 U	ND<0.75 U	-0.25	263	614
ND<0.5 U	ND<0.75 U	-0.25	263	615
ND<0.5 U	ND<0.75 U	-0.25	263	616

ND<0.5 U	ND<0.75 U	-0.25	263	617
ND<0.5 U	ND<0.75 U	-0.25	263	618
ND<0.5 U	ND<0.75 U	-0.25	263	619
ND<0.5 U	ND<0.75 U	-0.25	263	620
ND<0.5 U	ND<0.75 U	-0.25	263	621
ND<0.5 U	ND<0.75 U	-0.25	263	622
ND<0.5 U	ND<0.75 U	-0.25	263	623
ND<0.5 U	ND<0.75 U	-0.25	263	624
ND<0.5 U	ND<0.75 U	-0.25	263	625
ND<0.5 U	ND<0.75 U	-0.25	263	626
ND<0.5 U	ND<0.75 U	-0.25	263	627
ND<0.5 U	ND<0.75 U	-0.25	263	628
ND<0.5 U	ND<0.75 U	-0.25	263	629
ND<0.5 U	ND<0.75 U	-0.25	263	630
ND<1 U	ND<0.75 U	0.25	264	630
ND<1 U	ND<0.75 U	0.25	265	630
ND<1 U	ND<0.75 U	0.25	266	630
ND<1 U	ND<0.75 U	0.25	267	630
ND<1 U	ND<0.75 U	0.25	268	630
2.8	ND<0.75 U	2.05	269	630
ND<1 U	ND<0.75 U	0.25	270	630
ND<1 U	ND<0.75 U	0.25	271	630
ND<1 U	ND<0.75 U	0.25	272	630
ND<1 U	ND<0.75 U	0.25	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.75 U	ND<0.75 U	0	273	630
ND<0.5 U	ND<0.75 U	-0.25	273	631
ND<0.5 U	ND<0.75 U	-0.25	273	632
ND<0.5 U	ND<0.75 U	-0.25	273	633
ND<0.5 U	ND<0.75 U	-0.25	273	634
ND<0.5 U	ND<0.75 U	-0.25	273	635
ND<0.5 U	ND<0.75 U	-0.25	273	636
ND<0.5 U	ND<0.75 U	-0.25	273	637
ND<0.5 U	ND<0.75 U	-0.25	273	638
ND<0.5 U	ND<0.75 U	-0.25	273	639
ND<0.5 U	ND<0.75 U	-0.25	273	640
ND<0.5 U	ND<0.75 U	-0.25	273	641
ND<0.5 U	ND<0.75 U	-0.25	273	642
ND<0.5 U	ND<0.75 U	-0.25	273	643
ND<0.5 U	ND<0.75 U	-0.25	273	644
ND<0.5 U	ND<0.75 U	-0.25	273	645
ND<0.5 U	ND<0.75 U	-0.25	273	646
ND<0.5 U	ND<0.75 U	-0.25	273	647
ND<0.5 U	ND<0.75 U	-0.25	273	648
ND<0.5 U	ND<0.75 U	-0.25	273	649
ND<0.5 U	ND<0.75 U	-0.25	273	650
ND<0.5 U	ND<0.75 U	-0.25	273	651

ND<0.5 U	ND<0.75 U	-0.25	273	652
ND<1 U	ND<0.75 U	0.25	274	652
ND<1 U	ND<0.75 U	0.25	275	652
ND<1 U	ND<0.75 U	0.25	276	652
ND<1 U	ND<0.75 U	0.25	277	652
ND<1 U	ND<0.75 U	0.25	278	652
2.8	ND<0.75 U	2.05	279	652
ND<1 U	ND<0.75 U	0.25	280	652
ND<1 U	ND<0.75 U	0.25	281	652
ND<1 U	ND<0.75 U	0.25	282	652
ND<1 U	ND<0.75 U	0.25	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.75 U	ND<0.75 U	0	283	652
ND<0.5 U	ND<0.75 U	-0.25	283	653
ND<0.5 U	ND<0.75 U	-0.25	283	654
ND<0.5 U	ND<0.75 U	-0.25	283	655
ND<0.5 U	ND<0.75 U	-0.25	283	656
ND<0.5 U	ND<0.75 U	-0.25	283	657
ND<0.5 U	ND<0.75 U	-0.25	283	658
ND<0.5 U	ND<0.75 U	-0.25	283	659
ND<0.5 U	ND<0.75 U	-0.25	283	660
ND<0.5 U	ND<0.75 U	-0.25	283	661
ND<0.5 U	ND<0.75 U	-0.25	283	662
ND<0.5 U	ND<0.75 U	-0.25	283	663
ND<0.5 U	ND<0.75 U	-0.25	283	664
ND<0.5 U	ND<0.75 U	-0.25	283	665
ND<0.5 U	ND<0.75 U	-0.25	283	666
ND<0.5 U	ND<0.75 U	-0.25	283	667
ND<0.5 U	ND<0.75 U	-0.25	283	668
ND<0.5 U	ND<0.75 U	-0.25	283	669
ND<0.5 U	ND<0.75 U	-0.25	283	670
ND<0.5 U	ND<0.75 U	-0.25	283	671
ND<0.5 U	ND<0.75 U	-0.25	283	672
ND<0.5 U	ND<0.75 U	-0.25	283	673
ND<0.5 U	ND<0.75 U	-0.25	283	674
ND<1 U	ND<0.75 U	0.25	284	674
ND<1 U	ND<0.75 U	0.25	285	674
ND<1 U	ND<0.75 U	0.25	286	674
ND<1 U	ND<0.75 U	0.25	287	674
ND<1 U	ND<0.75 U	0.25	288	674
2.8	ND<0.75 U	2.05	289	674
ND<1 U	ND<0.75 U	0.25	290	674
ND<1 U	ND<0.75 U	0.25	291	674
ND<1 U	ND<0.75 U	0.25	292	674
ND<1 U	ND<0.75 U	0.25	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674

ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.75 U	ND<0.75 U	0	293	674
ND<0.5 U	ND<0.75 U	-0.25	293	675
ND<0.5 U	ND<0.75 U	-0.25	293	676
ND<0.5 U	ND<0.75 U	-0.25	293	677
ND<0.5 U	ND<0.75 U	-0.25	293	678
ND<0.5 U	ND<0.75 U	-0.25	293	679
ND<0.5 U	ND<0.75 U	-0.25	293	680
ND<0.5 U	ND<0.75 U	-0.25	293	681
ND<0.5 U	ND<0.75 U	-0.25	293	682
ND<0.5 U	ND<0.75 U	-0.25	293	683
ND<0.5 U	ND<0.75 U	-0.25	293	684
ND<0.5 U	ND<0.75 U	-0.25	293	685
ND<0.5 U	ND<0.75 U	-0.25	293	686
ND<0.5 U	ND<0.75 U	-0.25	293	687
ND<0.5 U	ND<0.75 U	-0.25	293	688
ND<0.5 U	ND<0.75 U	-0.25	293	689
ND<0.5 U	ND<0.75 U	-0.25	293	690
ND<0.5 U	ND<0.75 U	-0.25	293	691
ND<0.5 U	ND<0.75 U	-0.25	293	692
ND<0.5 U	ND<0.75 U	-0.25	293	693
ND<0.5 U	ND<0.75 U	-0.25	293	694
ND<0.5 U	ND<0.75 U	-0.25	293	695
ND<0.5 U	ND<0.75 U	-0.25	293	696
ND<1 U	ND<0.75 U	0.25	294	696
ND<1 U	ND<0.75 U	0.25	295	696
ND<1 U	ND<0.75 U	0.25	296	696
ND<1 U	ND<0.75 U	0.25	297	696
ND<1 U	ND<0.75 U	0.25	298	696
2.8	ND<0.75 U	2.05	299	696
ND<1 U	ND<0.75 U	0.25	300	696
ND<1 U	ND<0.75 U	0.25	301	696
ND<1 U	ND<0.75 U	0.25	302	696
ND<1 U	ND<0.75 U	0.25	303	696

ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.75 U	ND<0.75 U	0	303	696
ND<0.5 U	ND<0.75 U	-0.25	303	697
ND<0.5 U	ND<0.75 U	-0.25	303	698
ND<0.5 U	ND<0.75 U	-0.25	303	699
ND<0.5 U	ND<0.75 U	-0.25	303	700
ND<0.5 U	ND<0.75 U	-0.25	303	701
ND<0.5 U	ND<0.75 U	-0.25	303	702
ND<0.5 U	ND<0.75 U	-0.25	303	703
ND<0.5 U	ND<0.75 U	-0.25	303	704
ND<0.5 U	ND<0.75 U	-0.25	303	705

ND<0.5 U	ND<0.75 U	-0.25	303	706
ND<0.5 U	ND<0.75 U	-0.25	303	707
ND<0.5 U	ND<0.75 U	-0.25	303	708
ND<0.5 U	ND<0.75 U	-0.25	303	709
ND<0.5 U	ND<0.75 U	-0.25	303	710
ND<0.5 U	ND<0.75 U	-0.25	303	711
ND<0.5 U	ND<0.75 U	-0.25	303	712
ND<0.5 U	ND<0.75 U	-0.25	303	713
ND<0.5 U	ND<0.75 U	-0.25	303	714
ND<0.5 U	ND<0.75 U	-0.25	303	715
ND<0.5 U	ND<0.75 U	-0.25	303	716
ND<0.5 U	ND<0.75 U	-0.25	303	717
ND<0.5 U	ND<0.75 U	-0.25	303	718
ND<1 U	ND<0.75 U	0.25	304	718
ND<1 U	ND<0.75 U	0.25	305	718
ND<1 U	ND<0.75 U	0.25	306	718
ND<1 U	ND<0.75 U	0.25	307	718
ND<1 U	ND<0.75 U	0.25	308	718
2.8	ND<0.75 U	2.05	309	718
ND<1 U	ND<0.75 U	0.25	310	718
ND<1 U	ND<0.75 U	0.25	311	718
ND<1 U	ND<0.75 U	0.25	312	718
ND<1 U	ND<0.75 U	0.25	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.75 U	ND<0.75 U	0	313	718
ND<0.5 U	ND<0.75 U	-0.25	313	719
ND<0.5 U	ND<0.75 U	-0.25	313	720
ND<0.5 U	ND<0.75 U	-0.25	313	721
ND<0.5 U	ND<0.75 U	-0.25	313	722
ND<0.5 U	ND<0.75 U	-0.25	313	723
ND<0.5 U	ND<0.75 U	-0.25	313	724
ND<0.5 U	ND<0.75 U	-0.25	313	725
ND<0.5 U	ND<0.75 U	-0.25	313	726
ND<0.5 U	ND<0.75 U	-0.25	313	727
ND<0.5 U	ND<0.75 U	-0.25	313	728
ND<0.5 U	ND<0.75 U	-0.25	313	729
ND<0.5 U	ND<0.75 U	-0.25	313	730
ND<0.5 U	ND<0.75 U	-0.25	313	731
ND<0.5 U	ND<0.75 U	-0.25	313	732
ND<0.5 U	ND<0.75 U	-0.25	313	733
ND<0.5 U	ND<0.75 U	-0.25	313	734
ND<0.5 U	ND<0.75 U	-0.25	313	735
ND<0.5 U	ND<0.75 U	-0.25	313	736
ND<0.5 U	ND<0.75 U	-0.25	313	737
ND<0.5 U	ND<0.75 U	-0.25	313	738
ND<0.5 U	ND<0.75 U	-0.25	313	739
ND<0.5 U	ND<0.75 U	-0.25	313	740
ND<1 U	ND<0.75 U	0.25	314	740
ND<1 U	ND<0.75 U	0.25	315	740
ND<1 U	ND<0.75 U	0.25	316	740
ND<1 U	ND<0.75 U	0.25	317	740

ND<1 U	ND<0.75 U	0.25	318	740
2.8	ND<0.75 U	2.05	319	740
ND<1 U	ND<0.75 U	0.25	320	740
ND<1 U	ND<0.75 U	0.25	321	740
ND<1 U	ND<0.75 U	0.25	322	740
ND<1 U	ND<0.75 U	0.25	323	740
ND<0.75 U	ND<0.75 U	0	323	740
ND<0.75 U	ND<0.75 U	0	323	740
ND<0.75 U	ND<0.75 U	0	323	740
ND<0.75 U	ND<0.75 U	0	323	740
ND<0.75 U	ND<0.75 U	0	323	740
ND<0.75 U	ND<0.75 U	0	323	740
ND<0.5 U	ND<0.75 U	-0.25	323	741
ND<0.5 U	ND<0.75 U	-0.25	323	742
ND<0.5 U	ND<0.75 U	-0.25	323	743
ND<0.5 U	ND<0.75 U	-0.25	323	744
ND<0.5 U	ND<0.75 U	-0.25	323	745
ND<0.5 U	ND<0.75 U	-0.25	323	746
ND<0.5 U	ND<0.75 U	-0.25	323	747
ND<0.5 U	ND<0.75 U	-0.25	323	748
ND<0.5 U	ND<0.75 U	-0.25	323	749
ND<0.5 U	ND<0.75 U	-0.25	323	750
ND<0.5 U	ND<0.75 U	-0.25	323	751
ND<0.5 U	ND<0.75 U	-0.25	323	752
ND<0.5 U	ND<0.75 U	-0.25	323	753
ND<0.5 U	ND<0.75 U	-0.25	323	754
ND<0.5 U	ND<0.75 U	-0.25	323	755
ND<0.5 U	ND<0.75 U	-0.25	323	756
ND<0.5 U	ND<0.75 U	-0.25	323	757
ND<0.5 U	ND<0.75 U	-0.25	323	758
ND<0.5 U	ND<0.75 U	-0.25	323	759
ND<0.5 U	ND<0.75 U	-0.25	323	760
ND<0.5 U	ND<0.75 U	-0.25	323	761
ND<0.5 U	ND<0.75 U	-0.25	323	762
ND<1 U	ND<0.75 U	0.25	324	762
ND<1 U	ND<0.75 U	0.25	325	762
ND<1 U	ND<0.75 U	0.25	326	762
ND<1 U	ND<0.75 U	0.25	327	762
ND<1 U	ND<0.75 U	0.25	328	762
2.8	ND<0.75 U	2.05	329	762
ND<1 U	ND<0.75 U	0.25	330	762
ND<1 U	ND<0.75 U	0.25	331	762
ND<1 U	ND<0.75 U	0.25	332	762
ND<1 U	ND<0.75 U	0.25	333	762
ND<0.75 U	ND<0.75 U	0	333	762
ND<0.75 U	ND<0.75 U	0	333	762
ND<0.75 U	ND<0.75 U	0	333	762
ND<0.75 U	ND<0.75 U	0	333	762
ND<0.75 U	ND<0.75 U	0	333	762
ND<0.5 U	ND<0.75 U	-0.25	333	763
ND<0.5 U	ND<0.75 U	-0.25	333	764
ND<0.5 U	ND<0.75 U	-0.25	333	765
ND<0.5 U	ND<0.75 U	-0.25	333	766
ND<0.5 U	ND<0.75 U	-0.25	333	767
ND<0.5 U	ND<0.75 U	-0.25	333	768

ND<0.5 U	ND<0.75 U	-0.25	333	769
ND<0.5 U	ND<0.75 U	-0.25	333	770
ND<0.5 U	ND<0.75 U	-0.25	333	771
ND<0.5 U	ND<0.75 U	-0.25	333	772
ND<0.5 U	ND<0.75 U	-0.25	333	773
ND<0.5 U	ND<0.75 U	-0.25	333	774
ND<0.5 U	ND<0.75 U	-0.25	333	775
ND<0.5 U	ND<0.75 U	-0.25	333	776
ND<0.5 U	ND<0.75 U	-0.25	333	777
ND<0.5 U	ND<0.75 U	-0.25	333	778
ND<0.5 U	ND<0.75 U	-0.25	333	779
ND<0.5 U	ND<0.75 U	-0.25	333	780
ND<0.5 U	ND<0.75 U	-0.25	333	781
ND<0.5 U	ND<0.75 U	-0.25	333	782
ND<0.5 U	ND<0.75 U	-0.25	333	783
ND<0.5 U	ND<0.75 U	-0.25	333	784
ND<1 U	ND<0.75 U	0.25	334	784
ND<1 U	ND<0.75 U	0.25	335	784
ND<1 U	ND<0.75 U	0.25	336	784
ND<1 U	ND<0.75 U	0.25	337	784
ND<1 U	ND<0.75 U	0.25	338	784
2.8	ND<0.75 U	2.05	339	784
ND<1 U	ND<0.75 U	0.25	340	784
ND<1 U	ND<0.75 U	0.25	341	784
ND<1 U	ND<0.75 U	0.25	342	784
ND<1 U	ND<0.75 U	0.25	343	784
ND<0.75 U	ND<0.75 U	0	343	784
ND<0.75 U	ND<0.75 U	0	343	784
ND<0.75 U	ND<0.75 U	0	343	784
ND<0.75 U	ND<0.75 U	0	343	784
ND<0.5 U	ND<0.75 U	-0.25	343	785
ND<0.5 U	ND<0.75 U	-0.25	343	786
ND<0.5 U	ND<0.75 U	-0.25	343	787
ND<0.5 U	ND<0.75 U	-0.25	343	788
ND<0.5 U	ND<0.75 U	-0.25	343	789
ND<0.5 U	ND<0.75 U	-0.25	343	790
ND<0.5 U	ND<0.75 U	-0.25	343	791
ND<0.5 U	ND<0.75 U	-0.25	343	792
ND<0.5 U	ND<0.75 U	-0.25	343	793
ND<0.5 U	ND<0.75 U	-0.25	343	794
ND<0.5 U	ND<0.75 U	-0.25	343	795
ND<0.5 U	ND<0.75 U	-0.25	343	796
ND<0.5 U	ND<0.75 U	-0.25	343	797
ND<0.5 U	ND<0.75 U	-0.25	343	798
ND<0.5 U	ND<0.75 U	-0.25	343	799
ND<0.5 U	ND<0.75 U	-0.25	343	800
ND<0.5 U	ND<0.75 U	-0.25	343	801
ND<0.5 U	ND<0.75 U	-0.25	343	802
ND<0.5 U	ND<0.75 U	-0.25	343	803
ND<0.5 U	ND<0.75 U	-0.25	343	804
ND<0.5 U	ND<0.75 U	-0.25	343	805
ND<0.5 U	ND<0.75 U	-0.25	343	806
ND<1 U	ND<0.75 U	0.25	344	806
ND<1 U	ND<0.75 U	0.25	345	806
ND<1 U	ND<0.75 U	0.25	346	806
ND<1 U	ND<0.75 U	0.25	347	806

ND<1 U	ND<0.75 U	0.25	348	806
2.8	ND<0.75 U	2.05	349	806
ND<1 U	ND<0.75 U	0.25	350	806
ND<1 U	ND<0.75 U	0.25	351	806
ND<1 U	ND<0.75 U	0.25	352	806
ND<1 U	ND<0.75 U	0.25	353	806
ND<0.75 U	ND<0.75 U	0	353	806
ND<0.75 U	ND<0.75 U	0	353	806
ND<0.75 U	ND<0.75 U	0	353	806
ND<0.5 U	ND<0.75 U	-0.25	353	807
ND<0.5 U	ND<0.75 U	-0.25	353	808
ND<0.5 U	ND<0.75 U	-0.25	353	809
ND<0.5 U	ND<0.75 U	-0.25	353	810
ND<0.5 U	ND<0.75 U	-0.25	353	811
ND<0.5 U	ND<0.75 U	-0.25	353	812
ND<0.5 U	ND<0.75 U	-0.25	353	813
ND<0.5 U	ND<0.75 U	-0.25	353	814
ND<0.5 U	ND<0.75 U	-0.25	353	815
ND<0.5 U	ND<0.75 U	-0.25	353	816
ND<0.5 U	ND<0.75 U	-0.25	353	817
ND<0.5 U	ND<0.75 U	-0.25	353	818
ND<0.5 U	ND<0.75 U	-0.25	353	819
ND<0.5 U	ND<0.75 U	-0.25	353	820
ND<0.5 U	ND<0.75 U	-0.25	353	821
ND<0.5 U	ND<0.75 U	-0.25	353	822
ND<0.5 U	ND<0.75 U	-0.25	353	823
ND<0.5 U	ND<0.75 U	-0.25	353	824
ND<0.5 U	ND<0.75 U	-0.25	353	825
ND<0.5 U	ND<0.75 U	-0.25	353	826
ND<0.5 U	ND<0.75 U	-0.25	353	827
ND<0.5 U	ND<0.75 U	-0.25	353	828
ND<1 U	ND<0.75 U	0.25	354	828
ND<1 U	ND<0.75 U	0.25	355	828
ND<1 U	ND<0.75 U	0.25	356	828
ND<1 U	ND<0.75 U	0.25	357	828
ND<1 U	ND<0.75 U	0.25	358	828
2.8	ND<0.75 U	2.05	359	828
ND<1 U	ND<0.75 U	0.25	360	828
ND<1 U	ND<0.75 U	0.25	361	828
ND<1 U	ND<0.75 U	0.25	362	828
ND<1 U	ND<0.75 U	0.25	363	828
ND<0.75 U	ND<0.75 U	0	363	828
ND<0.75 U	ND<0.75 U	0	363	828
ND<0.5 U	ND<0.75 U	-0.25	363	829
ND<0.5 U	ND<0.75 U	-0.25	363	830
ND<0.5 U	ND<0.75 U	-0.25	363	831
ND<0.5 U	ND<0.75 U	-0.25	363	832
ND<0.5 U	ND<0.75 U	-0.25	363	833
ND<0.5 U	ND<0.75 U	-0.25	363	834
ND<0.5 U	ND<0.75 U	-0.25	363	835
ND<0.5 U	ND<0.75 U	-0.25	363	836
ND<0.5 U	ND<0.75 U	-0.25	363	837
ND<0.5 U	ND<0.75 U	-0.25	363	838
ND<0.5 U	ND<0.75 U	-0.25	363	839
ND<0.5 U	ND<0.75 U	-0.25	363	840

ND<0.5 U	ND<0.75 U	-0.25	363	841
ND<0.5 U	ND<0.75 U	-0.25	363	842
ND<0.5 U	ND<0.75 U	-0.25	363	843
ND<0.5 U	ND<0.75 U	-0.25	363	844
ND<0.5 U	ND<0.75 U	-0.25	363	845
ND<0.5 U	ND<0.75 U	-0.25	363	846
ND<0.5 U	ND<0.75 U	-0.25	363	847
ND<0.5 U	ND<0.75 U	-0.25	363	848
ND<0.5 U	ND<0.75 U	-0.25	363	849
ND<0.5 U	ND<0.75 U	-0.25	363	850
ND<1 U	ND<0.75 U	0.25	364	850
ND<1 U	ND<0.75 U	0.25	365	850
ND<1 U	ND<0.75 U	0.25	366	850
ND<1 U	ND<0.75 U	0.25	367	850
ND<1 U	ND<0.75 U	0.25	368	850
2.8	ND<0.75 U	2.05	369	850
ND<1 U	ND<0.75 U	0.25	370	850
ND<1 U	ND<0.75 U	0.25	371	850
ND<1 U	ND<0.75 U	0.25	372	850
ND<1 U	ND<0.75 U	0.25	373	850
ND<0.75 U	ND<0.75 U	0	373	850
ND<0.5 U	ND<0.75 U	-0.25	373	851
ND<0.5 U	ND<0.75 U	-0.25	373	852
ND<0.5 U	ND<0.75 U	-0.25	373	853
ND<0.5 U	ND<0.75 U	-0.25	373	854
ND<0.5 U	ND<0.75 U	-0.25	373	855
ND<0.5 U	ND<0.75 U	-0.25	373	856
ND<0.5 U	ND<0.75 U	-0.25	373	857
ND<0.5 U	ND<0.75 U	-0.25	373	858
ND<0.5 U	ND<0.75 U	-0.25	373	859
ND<0.5 U	ND<0.75 U	-0.25	373	860
ND<0.5 U	ND<0.75 U	-0.25	373	861
ND<0.5 U	ND<0.75 U	-0.25	373	862
ND<0.5 U	ND<0.75 U	-0.25	373	863
ND<0.5 U	ND<0.75 U	-0.25	373	864
ND<0.5 U	ND<0.75 U	-0.25	373	865
ND<0.5 U	ND<0.75 U	-0.25	373	866
ND<0.5 U	ND<0.75 U	-0.25	373	867
ND<0.5 U	ND<0.75 U	-0.25	373	868
ND<0.5 U	ND<0.75 U	-0.25	373	869
ND<0.5 U	ND<0.75 U	-0.25	373	870
ND<0.5 U	ND<0.75 U	-0.25	373	871
ND<0.5 U	ND<0.75 U	-0.25	373	872
ND<1 U	ND<0.75 U	0.25	374	872
ND<1 U	ND<0.75 U	0.25	375	872
ND<1 U	ND<0.75 U	0.25	376	872
ND<1 U	ND<0.75 U	0.25	377	872
ND<1 U	ND<0.75 U	0.25	378	872
2.8	ND<0.75 U	2.05	379	872
ND<1 U	ND<0.75 U	0.25	380	872
ND<1 U	ND<0.75 U	0.25	381	872
ND<1 U	ND<0.75 U	0.25	382	872
ND<1 U	ND<0.75 U	0.25	383	872
ND<0.5 U	ND<0.75 U	-0.25	383	873
ND<0.5 U	ND<0.75 U	-0.25	383	874

ND<0.5 U	ND<0.75 U	-0.25	383	875
ND<0.5 U	ND<0.75 U	-0.25	383	876
ND<0.5 U	ND<0.75 U	-0.25	383	877
ND<0.5 U	ND<0.75 U	-0.25	383	878
ND<0.5 U	ND<0.75 U	-0.25	383	879
ND<0.5 U	ND<0.75 U	-0.25	383	880
ND<0.5 U	ND<0.75 U	-0.25	383	881
ND<0.5 U	ND<0.75 U	-0.25	383	882
ND<0.5 U	ND<0.75 U	-0.25	383	883
ND<0.5 U	ND<0.75 U	-0.25	383	884
ND<0.5 U	ND<0.75 U	-0.25	383	885
ND<0.5 U	ND<0.75 U	-0.25	383	886
ND<0.5 U	ND<0.75 U	-0.25	383	887
ND<0.5 U	ND<0.75 U	-0.25	383	888
ND<0.5 U	ND<0.75 U	-0.25	383	889
ND<0.5 U	ND<0.75 U	-0.25	383	890
ND<0.5 U	ND<0.75 U	-0.25	383	891
ND<0.5 U	ND<0.75 U	-0.25	383	892
ND<0.5 U	ND<0.75 U	-0.25	383	893
ND<0.5 U	ND<0.75 U	-0.25	383	894
ND<1 U	ND<0.75 U	0.25	384	894
ND<1 U	ND<0.75 U	0.25	385	894
ND<1 U	ND<0.75 U	0.25	386	894
ND<1 U	ND<0.75 U	0.25	387	894
ND<1 U	ND<0.75 U	0.25	388	894
2.8	ND<0.75 U	2.05	389	894
ND<1 U	ND<0.75 U	0.25	390	894
ND<1 U	ND<0.75 U	0.25	391	894
ND<1 U	ND<0.75 U	0.25	392	894
ND<1 U	ND<0.75 U	0.25	393	894

ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<0.5 U	ND<0.5 U	0	393	894
ND<1 U	ND<0.5 U	0.5	394	894
ND<1 U	ND<0.5 U	0.5	395	894
ND<1 U	ND<0.5 U	0.5	396	894
ND<1 U	ND<0.5 U	0.5	397	894
ND<1 U	ND<0.5 U	0.5	398	894

2.8	ND<0.5 U	2.3	399	894
ND<1 U	ND<0.5 U	0.5	400	894
ND<1 U	ND<0.5 U	0.5	401	894
ND<1 U	ND<0.5 U	0.5	402	894
ND<1 U	ND<0.5 U	0.5	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<0.5 U	ND<0.5 U	0	403	894
ND<1 U	ND<0.5 U	0.5	404	894
ND<1 U	ND<0.5 U	0.5	405	894
ND<1 U	ND<0.5 U	0.5	406	894
ND<1 U	ND<0.5 U	0.5	407	894
ND<1 U	ND<0.5 U	0.5	408	894
2.8	ND<0.5 U	2.3	409	894
ND<1 U	ND<0.5 U	0.5	410	894
ND<1 U	ND<0.5 U	0.5	411	894
ND<1 U	ND<0.5 U	0.5	412	894
ND<1 U	ND<0.5 U	0.5	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<0.5 U	ND<0.5 U	0	413	894
ND<1 U	ND<0.5 U	0.5	414	894

ND<1 U	ND<0.5 U	0.5	415	894
ND<1 U	ND<0.5 U	0.5	416	894
ND<1 U	ND<0.5 U	0.5	417	894
ND<1 U	ND<0.5 U	0.5	418	894
2.8	ND<0.5 U	2.3	419	894
ND<1 U	ND<0.5 U	0.5	420	894
ND<1 U	ND<0.5 U	0.5	421	894
ND<1 U	ND<0.5 U	0.5	422	894
ND<1 U	ND<0.5 U	0.5	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<0.5 U	ND<0.5 U	0	423	894
ND<1 U	ND<0.5 U	0.5	424	894
ND<1 U	ND<0.5 U	0.5	425	894
ND<1 U	ND<0.5 U	0.5	426	894
ND<1 U	ND<0.5 U	0.5	427	894
ND<1 U	ND<0.5 U	0.5	428	894
2.8	ND<0.5 U	2.3	429	894
ND<1 U	ND<0.5 U	0.5	430	894
ND<1 U	ND<0.5 U	0.5	431	894
ND<1 U	ND<0.5 U	0.5	432	894
ND<1 U	ND<0.5 U	0.5	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<0.5 U	ND<0.5 U	0	433	894
ND<1 U	ND<0.5 U	0.5	434	894

ND<1 U	ND<0.5 U	0.5	435	894
ND<1 U	ND<0.5 U	0.5	436	894
ND<1 U	ND<0.5 U	0.5	437	894
ND<1 U	ND<0.5 U	0.5	438	894
2.8	ND<0.5 U	2.3	439	894
ND<1 U	ND<0.5 U	0.5	440	894
ND<1 U	ND<0.5 U	0.5	441	894
ND<1 U	ND<0.5 U	0.5	442	894
ND<1 U	ND<0.5 U	0.5	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<0.5 U	ND<0.5 U	0	443	894
ND<1 U	ND<0.5 U	0.5	444	894
ND<1 U	ND<0.5 U	0.5	445	894
ND<1 U	ND<0.5 U	0.5	446	894
ND<1 U	ND<0.5 U	0.5	447	894
ND<1 U	ND<0.5 U	0.5	448	894
2.8	ND<0.5 U	2.3	449	894
ND<1 U	ND<0.5 U	0.5	450	894
ND<1 U	ND<0.5 U	0.5	451	894
ND<1 U	ND<0.5 U	0.5	452	894
ND<1 U	ND<0.5 U	0.5	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<0.5 U	ND<0.5 U	0	453	894
ND<1 U	ND<0.5 U	0.5	454	894
ND<1 U	ND<0.5 U	0.5	455	894
ND<1 U	ND<0.5 U	0.5	456	894
ND<1 U	ND<0.5 U	0.5	457	894
ND<1 U	ND<0.5 U	0.5	458	894

2.8	ND<0.5 U	2.3	459	894
ND<1 U	ND<0.5 U	0.5	460	894
ND<1 U	ND<0.5 U	0.5	461	894
ND<1 U	ND<0.5 U	0.5	462	894
ND<1 U	ND<0.5 U	0.5	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<0.5 U	ND<0.5 U	0	463	894
ND<1 U	ND<0.5 U	0.5	464	894
ND<1 U	ND<0.5 U	0.5	465	894
ND<1 U	ND<0.5 U	0.5	466	894
ND<1 U	ND<0.5 U	0.5	467	894
ND<1 U	ND<0.5 U	0.5	468	894
2.8	ND<0.5 U	2.3	469	894
ND<1 U	ND<0.5 U	0.5	470	894
ND<1 U	ND<0.5 U	0.5	471	894
ND<1 U	ND<0.5 U	0.5	472	894
ND<1 U	ND<0.5 U	0.5	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<0.5 U	ND<0.5 U	0	473	894
ND<1 U	ND<0.5 U	0.5	474	894
ND<1 U	ND<0.5 U	0.5	475	894
ND<1 U	ND<0.5 U	0.5	476	894
ND<1 U	ND<0.5 U	0.5	477	894
ND<1 U	ND<0.5 U	0.5	478	894
2.8	ND<0.5 U	2.3	479	894
ND<1 U	ND<0.5 U	0.5	480	894
ND<1 U	ND<0.5 U	0.5	481	894
ND<1 U	ND<0.5 U	0.5	482	894
ND<1 U	ND<0.5 U	0.5	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894

ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<0.5 U	ND<0.5 U	0	483	894
ND<1 U	ND<0.5 U	0.5	484	894
ND<1 U	ND<0.5 U	0.5	485	894
ND<1 U	ND<0.5 U	0.5	486	894
ND<1 U	ND<0.5 U	0.5	487	894
ND<1 U	ND<0.5 U	0.5	488	894
2.8	ND<0.5 U	2.3	489	894
ND<1 U	ND<0.5 U	0.5	490	894
ND<1 U	ND<0.5 U	0.5	491	894
ND<1 U	ND<0.5 U	0.5	492	894
ND<1 U	ND<0.5 U	0.5	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<0.5 U	ND<0.5 U	0	493	894
ND<1 U	ND<0.5 U	0.5	494	894
ND<1 U	ND<0.5 U	0.5	495	894
ND<1 U	ND<0.5 U	0.5	496	894
ND<1 U	ND<0.5 U	0.5	497	894
ND<1 U	ND<0.5 U	0.5	498	894
2.8	ND<0.5 U	2.3	499	894
ND<1 U	ND<0.5 U	0.5	500	894
ND<1 U	ND<0.5 U	0.5	501	894
ND<1 U	ND<0.5 U	0.5	502	894
ND<1 U	ND<0.5 U	0.5	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<0.5 U	ND<0.5 U	0	503	894
ND<1 U	ND<0.5 U	0.5	504	894
ND<1 U	ND<0.5 U	0.5	505	894
ND<1 U	ND<0.5 U	0.5	506	894
ND<1 U	ND<0.5 U	0.5	507	894

ND<1 U	ND<0.5 U	0.5	508	894
2.8	ND<0.5 U	2.3	509	894
ND<1 U	ND<0.5 U	0.5	510	894
ND<1 U	ND<0.5 U	0.5	511	894
ND<1 U	ND<0.5 U	0.5	512	894
ND<1 U	ND<0.5 U	0.5	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<0.5 U	ND<0.5 U	0	513	894
ND<1 U	ND<0.5 U	0.5	514	894
ND<1 U	ND<0.5 U	0.5	515	894
ND<1 U	ND<0.5 U	0.5	516	894
ND<1 U	ND<0.5 U	0.5	517	894
ND<1 U	ND<0.5 U	0.5	518	894
2.8	ND<0.5 U	2.3	519	894
ND<1 U	ND<0.5 U	0.5	520	894
ND<1 U	ND<0.5 U	0.5	521	894
ND<1 U	ND<0.5 U	0.5	522	894
ND<1 U	ND<0.5 U	0.5	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<0.5 U	ND<0.5 U	0	523	894
ND<1 U	ND<0.5 U	0.5	524	894
ND<1 U	ND<0.5 U	0.5	525	894
ND<1 U	ND<0.5 U	0.5	526	894
ND<1 U	ND<0.5 U	0.5	527	894
ND<1 U	ND<0.5 U	0.5	528	894
2.8	ND<0.5 U	2.3	529	894
ND<1 U	ND<0.5 U	0.5	530	894
ND<1 U	ND<0.5 U	0.5	531	894
ND<1 U	ND<0.5 U	0.5	532	894
ND<1 U	ND<0.5 U	0.5	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<0.5 U	ND<0.5 U	0	533	894
ND<1 U	ND<0.5 U	0.5	534	894
ND<1 U	ND<0.5 U	0.5	535	894
ND<1 U	ND<0.5 U	0.5	536	894
ND<1 U	ND<0.5 U	0.5	537	894

ND<1 U	ND<0.5 U	0.5	538	894
2.8	ND<0.5 U	2.3	539	894
ND<1 U	ND<0.5 U	0.5	540	894
ND<1 U	ND<0.5 U	0.5	541	894
ND<1 U	ND<0.5 U	0.5	542	894
ND<1 U	ND<0.5 U	0.5	543	894
ND<0.5 U	ND<0.5 U	0	543	894
ND<0.5 U	ND<0.5 U	0	543	894
ND<0.5 U	ND<0.5 U	0	543	894
ND<0.5 U	ND<0.5 U	0	543	894
ND<0.5 U	ND<0.5 U	0	543	894
ND<0.5 U	ND<0.5 U	0	543	894
ND<1 U	ND<0.5 U	0.5	544	894
ND<1 U	ND<0.5 U	0.5	545	894
ND<1 U	ND<0.5 U	0.5	546	894
ND<1 U	ND<0.5 U	0.5	547	894
ND<1 U	ND<0.5 U	0.5	548	894
2.8	ND<0.5 U	2.3	549	894
ND<1 U	ND<0.5 U	0.5	550	894
ND<1 U	ND<0.5 U	0.5	551	894
ND<1 U	ND<0.5 U	0.5	552	894
ND<1 U	ND<0.5 U	0.5	553	894
ND<0.5 U	ND<0.5 U	0	553	894
ND<0.5 U	ND<0.5 U	0	553	894
ND<0.5 U	ND<0.5 U	0	553	894
ND<0.5 U	ND<0.5 U	0	553	894
ND<0.5 U	ND<0.5 U	0	553	894
ND<1 U	ND<0.5 U	0.5	554	894
ND<1 U	ND<0.5 U	0.5	555	894
ND<1 U	ND<0.5 U	0.5	556	894
ND<1 U	ND<0.5 U	0.5	557	894
ND<1 U	ND<0.5 U	0.5	558	894
2.8	ND<0.5 U	2.3	559	894
ND<1 U	ND<0.5 U	0.5	560	894
ND<1 U	ND<0.5 U	0.5	561	894
ND<1 U	ND<0.5 U	0.5	562	894
ND<1 U	ND<0.5 U	0.5	563	894
ND<0.5 U	ND<0.5 U	0	563	894
ND<0.5 U	ND<0.5 U	0	563	894
ND<0.5 U	ND<0.5 U	0	563	894
ND<0.5 U	ND<0.5 U	0	563	894
ND<1 U	ND<0.5 U	0.5	564	894
ND<1 U	ND<0.5 U	0.5	565	894
ND<1 U	ND<0.5 U	0.5	566	894
ND<1 U	ND<0.5 U	0.5	567	894
ND<1 U	ND<0.5 U	0.5	568	894
2.8	ND<0.5 U	2.3	569	894
ND<1 U	ND<0.5 U	0.5	570	894
ND<1 U	ND<0.5 U	0.5	571	894
ND<1 U	ND<0.5 U	0.5	572	894
ND<1 U	ND<0.5 U	0.5	573	894
ND<0.5 U	ND<0.5 U	0	573	894
ND<0.5 U	ND<0.5 U	0	573	894

ND<0.5 U	ND<0.5 U	0	573	894
ND<1 U	ND<0.5 U	0.5	574	894
ND<1 U	ND<0.5 U	0.5	575	894
ND<1 U	ND<0.5 U	0.5	576	894
ND<1 U	ND<0.5 U	0.5	577	894
ND<1 U	ND<0.5 U	0.5	578	894
2.8	ND<0.5 U	2.3	579	894
ND<1 U	ND<0.5 U	0.5	580	894
ND<1 U	ND<0.5 U	0.5	581	894
ND<1 U	ND<0.5 U	0.5	582	894
ND<1 U	ND<0.5 U	0.5	583	894
ND<0.5 U	ND<0.5 U	0	583	894
ND<0.5 U	ND<0.5 U	0	583	894
ND<1 U	ND<0.5 U	0.5	584	894
ND<1 U	ND<0.5 U	0.5	585	894
ND<1 U	ND<0.5 U	0.5	586	894
ND<1 U	ND<0.5 U	0.5	587	894
ND<1 U	ND<0.5 U	0.5	588	894
2.8	ND<0.5 U	2.3	589	894
ND<1 U	ND<0.5 U	0.5	590	894
ND<1 U	ND<0.5 U	0.5	591	894
ND<1 U	ND<0.5 U	0.5	592	894
ND<1 U	ND<0.5 U	0.5	593	894
ND<0.5 U	ND<0.5 U	0	593	894
ND<1 U	ND<0.5 U	0.5	594	894
ND<1 U	ND<0.5 U	0.5	595	894
ND<1 U	ND<0.5 U	0.5	596	894
ND<1 U	ND<0.5 U	0.5	597	894
ND<1 U	ND<0.5 U	0.5	598	894
2.8	ND<0.5 U	2.3	599	894
ND<1 U	ND<0.5 U	0.5	600	894
ND<1 U	ND<0.5 U	0.5	601	894
ND<1 U	ND<0.5 U	0.5	602	894
ND<1 U	ND<0.5 U	0.5	603	894
ND<1 U	ND<0.5 U	0.5	604	894
ND<1 U	ND<0.5 U	0.5	605	894
ND<1 U	ND<0.5 U	0.5	606	894
ND<1 U	ND<0.5 U	0.5	607	894
ND<1 U	ND<0.5 U	0.5	608	894
2.8	ND<0.5 U	2.3	609	894
ND<1 U	ND<0.5 U	0.5	610	894
ND<1 U	ND<0.5 U	0.5	611	894
ND<1 U	ND<0.5 U	0.5	612	894
ND<1 U	ND<0.5 U	0.5	613	894
ND<1 U	ND<1 U	0	613	894
ND<1 U	ND<1 U	0	613	894
ND<1 U	ND<1 U	0	613	894
ND<1 U	ND<1 U	0	613	894
2.8	ND<1 U	1.8	614	894
ND<1 U	ND<1 U	0	614	894
ND<1 U	ND<1 U	0	614	894
ND<1 U	ND<1 U	0	614	894
ND<1 U	ND<1 U	0	614	894

ND<1 U	ND<1 U	0	614	894
ND<1 U	ND<1 U	0	614	894
ND<1 U	ND<1 U	0	614	894
2.8	ND<1 U	1.8	615	894
ND<1 U	ND<1 U	0	615	894
ND<1 U	ND<1 U	0	615	894
ND<1 U	ND<1 U	0	615	894
ND<1 U	ND<1 U	0	615	894
ND<1 U	ND<1 U	0	615	894
ND<1 U	ND<1 U	0	615	894
2.8	ND<1 U	1.8	616	894
ND<1 U	ND<1 U	0	616	894
ND<1 U	ND<1 U	0	616	894
ND<1 U	ND<1 U	0	616	894
ND<1 U	ND<1 U	0	616	894
ND<1 U	ND<1 U	0	616	894
2.8	ND<1 U	1.8	617	894
ND<1 U	ND<1 U	0	617	894
ND<1 U	ND<1 U	0	617	894
ND<1 U	ND<1 U	0	617	894
ND<1 U	ND<1 U	0	617	894
2.8	ND<1 U	1.8	618	894
ND<1 U	ND<1 U	0	618	894
ND<1 U	ND<1 U	0	618	894
ND<1 U	ND<1 U	0	618	894
ND<1 U	ND<1 U	0	618	894
ND<1 U	2.8	-1.8	618	895
ND<1 U	2.8	-1.8	618	896
ND<1 U	2.8	-1.8	618	897
ND<1 U	2.8	-1.8	618	898
ND<1 U	ND<1 U	0	618	898
ND<1 U	ND<1 U	0	618	898
ND<1 U	ND<1 U	0	618	898
ND<1 U	ND<1 U	0	618	898
ND<1 U	ND<1 U	0	618	898
ND<1 U	ND<1 U	0	618	898

S Statistic = 618 - 898 = -280

Tied Group	**Value**	**Members**
1	0.5	27
2	1.5	6
3	1	10
4	0.75	18

Time Period	**Observations**
11/24/2009	1
1/27/2010	1

3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1

```
4/12/2018                    1
7/24/2018                    1
10/29/2018                   1
1/30/2019                    1
4/29/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 56724
B = 0
C = 23286
D = 0
E = 1128
F = 0
a = 561600
b = 2.35872e+006
c = 8320
Group Variance = 28048.7
Z-Score = -1.6659
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.6659| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Xylenes

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
ND<1.5 U	ND<0.5 U	1	1	0
ND<1.5 U	ND<0.5 U	1	2	0
ND<1.5 U	ND<0.5 U	1	3	0
ND<1.5 U	ND<0.5 U	1	4	0
ND<0.75 U	ND<0.5 U	0.25	5	0
ND<0.75 U	ND<0.5 U	0.25	6	0
ND<0.75 U	ND<0.5 U	0.25	7	0
ND<0.75 U	ND<0.5 U	0.25	8	0
ND<0.75 U	ND<0.5 U	0.25	9	0
ND<0.75 U	ND<0.5 U	0.25	10	0
ND<0.75 U	ND<0.5 U	0.25	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<0.5 U	ND<0.5 U	0	11	0
ND<1 U	ND<0.5 U	0.5	12	0
ND<1 U	ND<0.5 U	0.5	13	0
ND<1 U	ND<0.5 U	0.5	14	0
ND<1 U	ND<0.5 U	0.5	15	0
ND<1 U	ND<0.5 U	0.5	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<1.5 U	ND<1.5 U	0	16	0
ND<0.75 U	ND<1.5 U	-0.75	16	1
ND<0.75 U	ND<1.5 U	-0.75	16	2
ND<0.75 U	ND<1.5 U	-0.75	16	3
ND<0.75 U	ND<1.5 U	-0.75	16	4
ND<0.75 U	ND<1.5 U	-0.75	16	5
ND<0.75 U	ND<1.5 U	-0.75	16	6
ND<0.75 U	ND<1.5 U	-0.75	16	7
ND<0.5 U	ND<1.5 U	-1	16	8
ND<0.5 U	ND<1.5 U	-1	16	9
ND<0.5 U	ND<1.5 U	-1	16	10
ND<0.5 U	ND<1.5 U	-1	16	11
ND<0.5 U	ND<1.5 U	-1	16	12
ND<0.5 U	ND<1.5 U	-1	16	13
ND<0.5 U	ND<1.5 U	-1	16	14
ND<0.5 U	ND<1.5 U	-1	16	15
ND<0.5 U	ND<1.5 U	-1	16	16
ND<1 U	ND<1.5 U	-0.5	16	17
ND<1 U	ND<1.5 U	-0.5	16	18

ND<1 U	ND<1.5 U	-0.5	16	19
ND<1 U	ND<1.5 U	-0.5	16	20
ND<1 U	ND<1.5 U	-0.5	16	21
ND<1.5 U	ND<1.5 U	0	16	21
ND<1.5 U	ND<1.5 U	0	16	21
ND<0.75 U	ND<1.5 U	-0.75	16	22
ND<0.75 U	ND<1.5 U	-0.75	16	23
ND<0.75 U	ND<1.5 U	-0.75	16	24
ND<0.75 U	ND<1.5 U	-0.75	16	25
ND<0.75 U	ND<1.5 U	-0.75	16	26
ND<0.75 U	ND<1.5 U	-0.75	16	27
ND<0.75 U	ND<1.5 U	-0.75	16	28
ND<0.5 U	ND<1.5 U	-1	16	29
ND<0.5 U	ND<1.5 U	-1	16	30
ND<0.5 U	ND<1.5 U	-1	16	31
ND<0.5 U	ND<1.5 U	-1	16	32
ND<0.5 U	ND<1.5 U	-1	16	33
ND<0.5 U	ND<1.5 U	-1	16	34
ND<0.5 U	ND<1.5 U	-1	16	35
ND<0.5 U	ND<1.5 U	-1	16	36
ND<0.5 U	ND<1.5 U	-1	16	37
ND<1 U	ND<1.5 U	-0.5	16	38
ND<1 U	ND<1.5 U	-0.5	16	39
ND<1 U	ND<1.5 U	-0.5	16	40
ND<1 U	ND<1.5 U	-0.5	16	41
ND<1 U	ND<1.5 U	-0.5	16	42
ND<1.5 U	ND<1.5 U	0	16	42
ND<0.75 U	ND<1.5 U	-0.75	16	43
ND<0.75 U	ND<1.5 U	-0.75	16	44
ND<0.75 U	ND<1.5 U	-0.75	16	45
ND<0.75 U	ND<1.5 U	-0.75	16	46
ND<0.75 U	ND<1.5 U	-0.75	16	47
ND<0.75 U	ND<1.5 U	-0.75	16	48
ND<0.75 U	ND<1.5 U	-0.75	16	49
ND<0.5 U	ND<1.5 U	-1	16	50
ND<0.5 U	ND<1.5 U	-1	16	51
ND<0.5 U	ND<1.5 U	-1	16	52
ND<0.5 U	ND<1.5 U	-1	16	53
ND<0.5 U	ND<1.5 U	-1	16	54
ND<0.5 U	ND<1.5 U	-1	16	55
ND<0.5 U	ND<1.5 U	-1	16	56
ND<0.5 U	ND<1.5 U	-1	16	57
ND<0.5 U	ND<1.5 U	-1	16	58
ND<1 U	ND<1.5 U	-0.5	16	59
ND<1 U	ND<1.5 U	-0.5	16	60
ND<1 U	ND<1.5 U	-0.5	16	61
ND<1 U	ND<1.5 U	-0.5	16	62
ND<1 U	ND<1.5 U	-0.5	16	63
ND<0.75 U	ND<1.5 U	-0.75	16	64
ND<0.75 U	ND<1.5 U	-0.75	16	65
ND<0.75 U	ND<1.5 U	-0.75	16	66
ND<0.75 U	ND<1.5 U	-0.75	16	67
ND<0.75 U	ND<1.5 U	-0.75	16	68
ND<0.75 U	ND<1.5 U	-0.75	16	69

ND<0.75 U	ND<1.5 U	-0.75	16	70
ND<0.5 U	ND<1.5 U	-1	16	71
ND<0.5 U	ND<1.5 U	-1	16	72
ND<0.5 U	ND<1.5 U	-1	16	73
ND<0.5 U	ND<1.5 U	-1	16	74
ND<0.5 U	ND<1.5 U	-1	16	75
ND<0.5 U	ND<1.5 U	-1	16	76
ND<0.5 U	ND<1.5 U	-1	16	77
ND<0.5 U	ND<1.5 U	-1	16	78
ND<0.5 U	ND<1.5 U	-1	16	79
ND<1 U	ND<1.5 U	-0.5	16	80
ND<1 U	ND<1.5 U	-0.5	16	81
ND<1 U	ND<1.5 U	-0.5	16	82
ND<1 U	ND<1.5 U	-0.5	16	83
ND<1 U	ND<1.5 U	-0.5	16	84

ND<0.75 U	ND<0.75 U	0	16	84
ND<0.75 U	ND<0.75 U	0	16	84
ND<0.75 U	ND<0.75 U	0	16	84
ND<0.75 U	ND<0.75 U	0	16	84
ND<0.75 U	ND<0.75 U	0	16	84
ND<0.75 U	ND<0.75 U	0	16	84
ND<0.5 U	ND<0.75 U	-0.25	16	85
ND<0.5 U	ND<0.75 U	-0.25	16	86
ND<0.5 U	ND<0.75 U	-0.25	16	87
ND<0.5 U	ND<0.75 U	-0.25	16	88
ND<0.5 U	ND<0.75 U	-0.25	16	89
ND<0.5 U	ND<0.75 U	-0.25	16	90
ND<0.5 U	ND<0.75 U	-0.25	16	91
ND<0.5 U	ND<0.75 U	-0.25	16	92
ND<0.5 U	ND<0.75 U	-0.25	16	93
ND<1 U	ND<0.75 U	0.25	17	93
ND<1 U	ND<0.75 U	0.25	18	93
ND<1 U	ND<0.75 U	0.25	19	93
ND<1 U	ND<0.75 U	0.25	20	93
ND<1 U	ND<0.75 U	0.25	21	93

ND<0.75 U	ND<0.75 U	0	21	93
ND<0.75 U	ND<0.75 U	0	21	93
ND<0.75 U	ND<0.75 U	0	21	93
ND<0.75 U	ND<0.75 U	0	21	93
ND<0.75 U	ND<0.75 U	0	21	93
ND<0.5 U	ND<0.75 U	-0.25	21	94
ND<0.5 U	ND<0.75 U	-0.25	21	95
ND<0.5 U	ND<0.75 U	-0.25	21	96
ND<0.5 U	ND<0.75 U	-0.25	21	97
ND<0.5 U	ND<0.75 U	-0.25	21	98
ND<0.5 U	ND<0.75 U	-0.25	21	99
ND<0.5 U	ND<0.75 U	-0.25	21	100
ND<0.5 U	ND<0.75 U	-0.25	21	101
ND<0.5 U	ND<0.75 U	-0.25	21	102
ND<1 U	ND<0.75 U	0.25	22	102
ND<1 U	ND<0.75 U	0.25	23	102
ND<1 U	ND<0.75 U	0.25	24	102
ND<1 U	ND<0.75 U	0.25	25	102
ND<1 U	ND<0.75 U	0.25	26	102

ND<0.75 U	ND<0.75 U	0	26	102
ND<0.75 U	ND<0.75 U	0	26	102
ND<0.75 U	ND<0.75 U	0	26	102
ND<0.75 U	ND<0.75 U	0	26	102
ND<0.5 U	ND<0.75 U	-0.25	26	103
ND<0.5 U	ND<0.75 U	-0.25	26	104
ND<0.5 U	ND<0.75 U	-0.25	26	105
ND<0.5 U	ND<0.75 U	-0.25	26	106
ND<0.5 U	ND<0.75 U	-0.25	26	107
ND<0.5 U	ND<0.75 U	-0.25	26	108
ND<0.5 U	ND<0.75 U	-0.25	26	109
ND<0.5 U	ND<0.75 U	-0.25	26	110
ND<0.5 U	ND<0.75 U	-0.25	26	111
ND<1 U	ND<0.75 U	0.25	27	111
ND<1 U	ND<0.75 U	0.25	28	111
ND<1 U	ND<0.75 U	0.25	29	111
ND<1 U	ND<0.75 U	0.25	30	111
ND<1 U	ND<0.75 U	0.25	31	111
ND<0.75 U	ND<0.75 U	0	31	111
ND<0.75 U	ND<0.75 U	0	31	111
ND<0.75 U	ND<0.75 U	0	31	111
ND<0.5 U	ND<0.75 U	-0.25	31	112
ND<0.5 U	ND<0.75 U	-0.25	31	113
ND<0.5 U	ND<0.75 U	-0.25	31	114
ND<0.5 U	ND<0.75 U	-0.25	31	115
ND<0.5 U	ND<0.75 U	-0.25	31	116
ND<0.5 U	ND<0.75 U	-0.25	31	117
ND<0.5 U	ND<0.75 U	-0.25	31	118
ND<0.5 U	ND<0.75 U	-0.25	31	119
ND<0.5 U	ND<0.75 U	-0.25	31	120
ND<1 U	ND<0.75 U	0.25	32	120
ND<1 U	ND<0.75 U	0.25	33	120
ND<1 U	ND<0.75 U	0.25	34	120
ND<1 U	ND<0.75 U	0.25	35	120
ND<1 U	ND<0.75 U	0.25	36	120
ND<0.75 U	ND<0.75 U	0	36	120
ND<0.75 U	ND<0.75 U	0	36	120
ND<0.5 U	ND<0.75 U	-0.25	36	121
ND<0.5 U	ND<0.75 U	-0.25	36	122
ND<0.5 U	ND<0.75 U	-0.25	36	123
ND<0.5 U	ND<0.75 U	-0.25	36	124
ND<0.5 U	ND<0.75 U	-0.25	36	125
ND<0.5 U	ND<0.75 U	-0.25	36	126
ND<0.5 U	ND<0.75 U	-0.25	36	127
ND<0.5 U	ND<0.75 U	-0.25	36	128
ND<0.5 U	ND<0.75 U	-0.25	36	129
ND<1 U	ND<0.75 U	0.25	37	129
ND<1 U	ND<0.75 U	0.25	38	129
ND<1 U	ND<0.75 U	0.25	39	129
ND<1 U	ND<0.75 U	0.25	40	129
ND<1 U	ND<0.75 U	0.25	41	129
ND<0.75 U	ND<0.75 U	0	41	129
ND<0.5 U	ND<0.75 U	-0.25	41	130
ND<0.5 U	ND<0.75 U	-0.25	41	131

ND<0.5 U	ND<0.75 U	-0.25	41	132
ND<0.5 U	ND<0.75 U	-0.25	41	133
ND<0.5 U	ND<0.75 U	-0.25	41	134
ND<0.5 U	ND<0.75 U	-0.25	41	135
ND<0.5 U	ND<0.75 U	-0.25	41	136
ND<0.5 U	ND<0.75 U	-0.25	41	137
ND<0.5 U	ND<0.75 U	-0.25	41	138
ND<1 U	ND<0.75 U	0.25	42	138
ND<1 U	ND<0.75 U	0.25	43	138
ND<1 U	ND<0.75 U	0.25	44	138
ND<1 U	ND<0.75 U	0.25	45	138
ND<1 U	ND<0.75 U	0.25	46	138
ND<0.5 U	ND<0.75 U	-0.25	46	139
ND<0.5 U	ND<0.75 U	-0.25	46	140
ND<0.5 U	ND<0.75 U	-0.25	46	141
ND<0.5 U	ND<0.75 U	-0.25	46	142
ND<0.5 U	ND<0.75 U	-0.25	46	143
ND<0.5 U	ND<0.75 U	-0.25	46	144
ND<0.5 U	ND<0.75 U	-0.25	46	145
ND<0.5 U	ND<0.75 U	-0.25	46	146
ND<0.5 U	ND<0.75 U	-0.25	46	147
ND<1 U	ND<0.75 U	0.25	47	147
ND<1 U	ND<0.75 U	0.25	48	147
ND<1 U	ND<0.75 U	0.25	49	147
ND<1 U	ND<0.75 U	0.25	50	147
ND<1 U	ND<0.75 U	0.25	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<0.5 U	ND<0.5 U	0	51	147
ND<1 U	ND<0.5 U	0.5	52	147
ND<1 U	ND<0.5 U	0.5	53	147
ND<1 U	ND<0.5 U	0.5	54	147
ND<1 U	ND<0.5 U	0.5	55	147
ND<1 U	ND<0.5 U	0.5	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<0.5 U	ND<0.5 U	0	56	147
ND<1 U	ND<0.5 U	0.5	57	147
ND<1 U	ND<0.5 U	0.5	58	147
ND<1 U	ND<0.5 U	0.5	59	147
ND<1 U	ND<0.5 U	0.5	60	147
ND<1 U	ND<0.5 U	0.5	61	147
ND<0.5 U	ND<0.5 U	0	61	147
ND<0.5 U	ND<0.5 U	0	61	147

ND<0.5 U	ND<0.5 U	0	61	147
ND<0.5 U	ND<0.5 U	0	61	147
ND<0.5 U	ND<0.5 U	0	61	147
ND<0.5 U	ND<0.5 U	0	61	147
ND<1 U	ND<0.5 U	0.5	62	147
ND<1 U	ND<0.5 U	0.5	63	147
ND<1 U	ND<0.5 U	0.5	64	147
ND<1 U	ND<0.5 U	0.5	65	147
ND<1 U	ND<0.5 U	0.5	66	147
ND<0.5 U	ND<0.5 U	0	66	147
ND<0.5 U	ND<0.5 U	0	66	147
ND<0.5 U	ND<0.5 U	0	66	147
ND<0.5 U	ND<0.5 U	0	66	147
ND<0.5 U	ND<0.5 U	0	66	147
ND<1 U	ND<0.5 U	0.5	67	147
ND<1 U	ND<0.5 U	0.5	68	147
ND<1 U	ND<0.5 U	0.5	69	147
ND<1 U	ND<0.5 U	0.5	70	147
ND<1 U	ND<0.5 U	0.5	71	147
ND<0.5 U	ND<0.5 U	0	71	147
ND<0.5 U	ND<0.5 U	0	71	147
ND<0.5 U	ND<0.5 U	0	71	147
ND<0.5 U	ND<0.5 U	0	71	147
ND<1 U	ND<0.5 U	0.5	72	147
ND<1 U	ND<0.5 U	0.5	73	147
ND<1 U	ND<0.5 U	0.5	74	147
ND<1 U	ND<0.5 U	0.5	75	147
ND<1 U	ND<0.5 U	0.5	76	147
ND<0.5 U	ND<0.5 U	0	76	147
ND<0.5 U	ND<0.5 U	0	76	147
ND<0.5 U	ND<0.5 U	0	76	147
ND<1 U	ND<0.5 U	0.5	77	147
ND<1 U	ND<0.5 U	0.5	78	147
ND<1 U	ND<0.5 U	0.5	79	147
ND<1 U	ND<0.5 U	0.5	80	147
ND<1 U	ND<0.5 U	0.5	81	147
ND<0.5 U	ND<0.5 U	0	81	147
ND<0.5 U	ND<0.5 U	0	81	147
ND<1 U	ND<0.5 U	0.5	82	147
ND<1 U	ND<0.5 U	0.5	83	147
ND<1 U	ND<0.5 U	0.5	84	147
ND<1 U	ND<0.5 U	0.5	85	147
ND<1 U	ND<0.5 U	0.5	86	147
ND<0.5 U	ND<0.5 U	0	86	147
ND<1 U	ND<0.5 U	0.5	87	147
ND<1 U	ND<0.5 U	0.5	88	147
ND<1 U	ND<0.5 U	0.5	89	147
ND<1 U	ND<0.5 U	0.5	90	147
ND<1 U	ND<0.5 U	0.5	91	147
ND<1 U	ND<0.5 U	0.5	92	147
ND<1 U	ND<0.5 U	0.5	93	147

ND<1 U	ND<0.5 U	0.5	94	147
ND<1 U	ND<0.5 U	0.5	95	147
ND<1 U	ND<0.5 U	0.5	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147
ND<1 U	ND<1 U	0	96	147

S Statistic = 96 - 147 = -51

Tied Group	**Value**	**Members**
1	0.5	10
2	1.5	4
3	0.75	7
4	1	5

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 3504

B = 0
C = 1014
D = 0
E = 164
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 1863.67
Z-Score = -1.15821
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.15821| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
214	257	-43	0	1
233	257	-24	0	2
277	257	20	1	2
274	257	17	2	2
356	257	99	3	2
245	257	-12	3	3
288	257	31	4	3
306	257	49	5	3
262	257	5	6	3
248	257	-9	6	4
219	257	-38	6	5
194	257	-63	6	6
255	257	-2	6	7
227	257	-30	6	8
227	257	-30	6	9
241	257	-16	6	10
284	257	27	7	10
646	257	389	8	10
298	257	41	9	10
308	257	51	10	10
340	257	83	11	10
225	257	-32	11	11
382	257	125	12	11
373	257	116	13	11
1280	257	1023	14	11
274	257	17	15	11
233	214	19	16	11
277	214	63	17	11
274	214	60	18	11
356	214	142	19	11
245	214	31	20	11
288	214	74	21	11
306	214	92	22	11
262	214	48	23	11
248	214	34	24	11
219	214	5	25	11
194	214	-20	25	12
255	214	41	26	12
227	214	13	27	12
227	214	13	28	12
241	214	27	29	12
284	214	70	30	12
646	214	432	31	12
298	214	84	32	12
308	214	94	33	12
340	214	126	34	12

225	214	11	35	12
382	214	168	36	12
373	214	159	37	12
1280	214	1066	38	12
274	214	60	39	12
277	233	44	40	12
274	233	41	41	12
356	233	123	42	12
245	233	12	43	12
288	233	55	44	12
306	233	73	45	12
262	233	29	46	12
248	233	15	47	12
219	233	-14	47	13
194	233	-39	47	14
255	233	22	48	14
227	233	-6	48	15
227	233	-6	48	16
241	233	8	49	16
284	233	51	50	16
646	233	413	51	16
298	233	65	52	16
308	233	75	53	16
340	233	107	54	16
225	233	-8	54	17
382	233	149	55	17
373	233	140	56	17
1280	233	1047	57	17
274	233	41	58	17
274	277	-3	58	18
356	277	79	59	18
245	277	-32	59	19
288	277	11	60	19
306	277	29	61	19
262	277	-15	61	20
248	277	-29	61	21
219	277	-58	61	22
194	277	-83	61	23
255	277	-22	61	24
227	277	-50	61	25
227	277	-50	61	26
241	277	-36	61	27
284	277	7	62	27
646	277	369	63	27
298	277	21	64	27
308	277	31	65	27
340	277	63	66	27
225	277	-52	66	28
382	277	105	67	28
373	277	96	68	28
1280	277	1003	69	28
274	277	-3	69	29
356	274	82	70	29
245	274	-29	70	30

288	274	14	71	30
306	274	32	72	30
262	274	-12	72	31
248	274	-26	72	32
219	274	-55	72	33
194	274	-80	72	34
255	274	-19	72	35
227	274	-47	72	36
227	274	-47	72	37
241	274	-33	72	38
284	274	10	73	38
646	274	372	74	38
298	274	24	75	38
308	274	34	76	38
340	274	66	77	38
225	274	-49	77	39
382	274	108	78	39
373	274	99	79	39
1280	274	1006	80	39
274	274	0	80	39

245	356	-111	80	40
288	356	-68	80	41
306	356	-50	80	42
262	356	-94	80	43
248	356	-108	80	44
219	356	-137	80	45
194	356	-162	80	46
255	356	-101	80	47
227	356	-129	80	48
227	356	-129	80	49
241	356	-115	80	50
284	356	-72	80	51
646	356	290	81	51
298	356	-58	81	52
308	356	-48	81	53
340	356	-16	81	54
225	356	-131	81	55
382	356	26	82	55
373	356	17	83	55
1280	356	924	84	55
274	356	-82	84	56

288	245	43	85	56
306	245	61	86	56
262	245	17	87	56
248	245	3	88	56
219	245	-26	88	57
194	245	-51	88	58
255	245	10	89	58
227	245	-18	89	59
227	245	-18	89	60
241	245	-4	89	61
284	245	39	90	61
646	245	401	91	61
298	245	53	92	61
308	245	63	93	61

340	245	95	94	61
225	245	-20	94	62
382	245	137	95	62
373	245	128	96	62
1280	245	1035	97	62
274	245	29	98	62
306	288	18	99	62
262	288	-26	99	63
248	288	-40	99	64
219	288	-69	99	65
194	288	-94	99	66
255	288	-33	99	67
227	288	-61	99	68
227	288	-61	99	69
241	288	-47	99	70
284	288	-4	99	71
646	288	358	100	71
298	288	10	101	71
308	288	20	102	71
340	288	52	103	71
225	288	-63	103	72
382	288	94	104	72
373	288	85	105	72
1280	288	992	106	72
274	288	-14	106	73
262	306	-44	106	74
248	306	-58	106	75
219	306	-87	106	76
194	306	-112	106	77
255	306	-51	106	78
227	306	-79	106	79
227	306	-79	106	80
241	306	-65	106	81
284	306	-22	106	82
646	306	340	107	82
298	306	-8	107	83
308	306	2	108	83
340	306	34	109	83
225	306	-81	109	84
382	306	76	110	84
373	306	67	111	84
1280	306	974	112	84
274	306	-32	112	85
248	262	-14	112	86
219	262	-43	112	87
194	262	-68	112	88
255	262	-7	112	89
227	262	-35	112	90
227	262	-35	112	91
241	262	-21	112	92
284	262	22	113	92
646	262	384	114	92
298	262	36	115	92
308	262	46	116	92

340	262	78	117	92
225	262	-37	117	93
382	262	120	118	93
373	262	111	119	93
1280	262	1018	120	93
274	262	12	121	93
219	248	-29	121	94
194	248	-54	121	95
255	248	7	122	95
227	248	-21	122	96
227	248	-21	122	97
241	248	-7	122	98
284	248	36	123	98
646	248	398	124	98
298	248	50	125	98
308	248	60	126	98
340	248	92	127	98
225	248	-23	127	99
382	248	134	128	99
373	248	125	129	99
1280	248	1032	130	99
274	248	26	131	99
194	219	-25	131	100
255	219	36	132	100
227	219	8	133	100
227	219	8	134	100
241	219	22	135	100
284	219	65	136	100
646	219	427	137	100
298	219	79	138	100
308	219	89	139	100
340	219	121	140	100
225	219	6	141	100
382	219	163	142	100
373	219	154	143	100
1280	219	1061	144	100
274	219	55	145	100
255	194	61	146	100
227	194	33	147	100
227	194	33	148	100
241	194	47	149	100
284	194	90	150	100
646	194	452	151	100
298	194	104	152	100
308	194	114	153	100
340	194	146	154	100
225	194	31	155	100
382	194	188	156	100
373	194	179	157	100
1280	194	1086	158	100
274	194	80	159	100
227	255	-28	159	101
227	255	-28	159	102

241	255	-14	159	103
284	255	29	160	103
646	255	391	161	103
298	255	43	162	103
308	255	53	163	103
340	255	85	164	103
225	255	-30	164	104
382	255	127	165	104
373	255	118	166	104
1280	255	1025	167	104
274	255	19	168	104
227	227	0	168	104
241	227	14	169	104
284	227	57	170	104
646	227	419	171	104
298	227	71	172	104
308	227	81	173	104
340	227	113	174	104
225	227	-2	174	105
382	227	155	175	105
373	227	146	176	105
1280	227	1053	177	105
274	227	47	178	105
241	227	14	179	105
284	227	57	180	105
646	227	419	181	105
298	227	71	182	105
308	227	81	183	105
340	227	113	184	105
225	227	-2	184	106
382	227	155	185	106
373	227	146	186	106
1280	227	1053	187	106
274	227	47	188	106
284	241	43	189	106
646	241	405	190	106
298	241	57	191	106
308	241	67	192	106
340	241	99	193	106
225	241	-16	193	107
382	241	141	194	107
373	241	132	195	107
1280	241	1039	196	107
274	241	33	197	107
646	284	362	198	107
298	284	14	199	107
308	284	24	200	107
340	284	56	201	107
225	284	-59	201	108
382	284	98	202	108
373	284	89	203	108
1280	284	996	204	108
274	284	-10	204	109

298	646	-348	204	110
308	646	-338	204	111
340	646	-306	204	112
225	646	-421	204	113
382	646	-264	204	114
373	646	-273	204	115
1280	646	634	205	115
274	646	-372	205	116
308	298	10	206	116
340	298	42	207	116
225	298	-73	207	117
382	298	84	208	117
373	298	75	209	117
1280	298	982	210	117
274	298	-24	210	118
340	308	32	211	118
225	308	-83	211	119
382	308	74	212	119
373	308	65	213	119
1280	308	972	214	119
274	308	-34	214	120
225	340	-115	214	121
382	340	42	215	121
373	340	33	216	121
1280	340	940	217	121
274	340	-66	217	122
382	225	157	218	122
373	225	148	219	122
1280	225	1055	220	122
274	225	49	221	122
373	382	-9	221	123
1280	382	898	222	123
274	382	-108	222	124
1280	373	907	223	124
274	373	-99	223	125
274	1280	-1006	223	126

S Statistic = 223 - 126 = 97

Tied Group	**Value**	**Members**
1	274	2
2	227	2

Time Period	**Observations**
11/24/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

```
10/13/2010                    1
1/14/2011                     1
4/21/2011                     1
7/21/2011                     1
10/31/2011                    1
1/13/2012                     1
4/27/2012                     1
7/26/2012                     1
10/18/2012                    1
1/29/2013                     1
7/29/2013                     1
1/31/2014                     1
7/17/2014                     1
1/27/2015                     1
7/21/2015                     1
1/27/2016                     1
7/26/2016                     1
1/30/2017                     1
7/24/2017                     1
1/29/2018                     1
7/24/2018                     1
1/30/2019                     1
7/29/2019                     1
There are 0 time periods with multiple data
```

```
A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2299
Z-Score = 2.00217
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.00217| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
251	403	-152	0	1
253	403	-150	0	2
256	403	-147	0	3
287	403	-116	0	4
351	403	-52	0	5
253	403	-150	0	6
1	403	-402	0	7
238	403	-165	0	8
273	403	-130	0	9
248	403	-155	0	10
236	403	-167	0	11
171	403	-232	0	12
260	403	-143	0	13
209	403	-194	0	14
219	403	-184	0	15
244	403	-159	0	16
314	403	-89	0	17
309	403	-94	0	18
330	403	-73	0	19
292	403	-111	0	20
379	403	-24	0	21
228	403	-175	0	22
402	403	-1	0	23
406	403	3	1	23
1220	403	817	2	23
299	403	-104	2	24
253	251	2	3	24
256	251	5	4	24
287	251	36	5	24
351	251	100	6	24
253	251	2	7	24
1	251	-250	7	25
238	251	-13	7	26
273	251	22	8	26
248	251	-3	8	27
236	251	-15	8	28
171	251	-80	8	29
260	251	9	9	29
209	251	-42	9	30
219	251	-32	9	31
244	251	-7	9	32
314	251	63	10	32
309	251	58	11	32
330	251	79	12	32
292	251	41	13	32
379	251	128	14	32

228	251	-23	14	33
402	251	151	15	33
406	251	155	16	33
1220	251	969	17	33
299	251	48	18	33
256	253	3	19	33
287	253	34	20	33
351	253	98	21	33
253	253	0	21	33
1	253	-252	21	34
238	253	-15	21	35
273	253	20	22	35
248	253	-5	22	36
236	253	-17	22	37
171	253	-82	22	38
260	253	7	23	38
209	253	-44	23	39
219	253	-34	23	40
244	253	-9	23	41
314	253	61	24	41
309	253	56	25	41
330	253	77	26	41
292	253	39	27	41
379	253	126	28	41
228	253	-25	28	42
402	253	149	29	42
406	253	153	30	42
1220	253	967	31	42
299	253	46	32	42
287	256	31	33	42
351	256	95	34	42
253	256	-3	34	43
1	256	-255	34	44
238	256	-18	34	45
273	256	17	35	45
248	256	-8	35	46
236	256	-20	35	47
171	256	-85	35	48
260	256	4	36	48
209	256	-47	36	49
219	256	-37	36	50
244	256	-12	36	51
314	256	58	37	51
309	256	53	38	51
330	256	74	39	51
292	256	36	40	51
379	256	123	41	51
228	256	-28	41	52
402	256	146	42	52
406	256	150	43	52
1220	256	964	44	52
299	256	43	45	52
351	287	64	46	52
253	287	-34	46	53

1	287	-286	46	54
238	287	-49	46	55
273	287	-14	46	56
248	287	-39	46	57
236	287	-51	46	58
171	287	-116	46	59
260	287	-27	46	60
209	287	-78	46	61
219	287	-68	46	62
244	287	-43	46	63
314	287	27	47	63
309	287	22	48	63
330	287	43	49	63
292	287	5	50	63
379	287	92	51	63
228	287	-59	51	64
402	287	115	52	64
406	287	119	53	64
1220	287	933	54	64
299	287	12	55	64
253	351	-98	55	65
1	351	-350	55	66
238	351	-113	55	67
273	351	-78	55	68
248	351	-103	55	69
236	351	-115	55	70
171	351	-180	55	71
260	351	-91	55	72
209	351	-142	55	73
219	351	-132	55	74
244	351	-107	55	75
314	351	-37	55	76
309	351	-42	55	77
330	351	-21	55	78
292	351	-59	55	79
379	351	28	56	79
228	351	-123	56	80
402	351	51	57	80
406	351	55	58	80
1220	351	869	59	80
299	351	-52	59	81
1	253	-252	59	82
238	253	-15	59	83
273	253	20	60	83
248	253	-5	60	84
236	253	-17	60	85
171	253	-82	60	86
260	253	7	61	86
209	253	-44	61	87
219	253	-34	61	88
244	253	-9	61	89
314	253	61	62	89
309	253	56	63	89
330	253	77	64	89
292	253	39	65	89

379	253	126	66	89
228	253	-25	66	90
402	253	149	67	90
406	253	153	68	90
1220	253	967	69	90
299	253	46	70	90
238	1	237	71	90
273	1	272	72	90
248	1	247	73	90
236	1	235	74	90
171	1	170	75	90
260	1	259	76	90
209	1	208	77	90
219	1	218	78	90
244	1	243	79	90
314	1	313	80	90
309	1	308	81	90
330	1	329	82	90
292	1	291	83	90
379	1	378	84	90
228	1	227	85	90
402	1	401	86	90
406	1	405	87	90
1220	1	1219	88	90
299	1	298	89	90
273	238	35	90	90
248	238	10	91	90
236	238	-2	91	91
171	238	-67	91	92
260	238	22	92	92
209	238	-29	92	93
219	238	-19	92	94
244	238	6	93	94
314	238	76	94	94
309	238	71	95	94
330	238	92	96	94
292	238	54	97	94
379	238	141	98	94
228	238	-10	98	95
402	238	164	99	95
406	238	168	100	95
1220	238	982	101	95
299	238	61	102	95
248	273	-25	102	96
236	273	-37	102	97
171	273	-102	102	98
260	273	-13	102	99
209	273	-64	102	100
219	273	-54	102	101
244	273	-29	102	102
314	273	41	103	102
309	273	36	104	102
330	273	57	105	102
292	273	19	106	102

379	273	106	107	102
228	273	-45	107	103
402	273	129	108	103
406	273	133	109	103
1220	273	947	110	103
299	273	26	111	103
236	248	-12	111	104
171	248	-77	111	105
260	248	12	112	105
209	248	-39	112	106
219	248	-29	112	107
244	248	-4	112	108
314	248	66	113	108
309	248	61	114	108
330	248	82	115	108
292	248	44	116	108
379	248	131	117	108
228	248	-20	117	109
402	248	154	118	109
406	248	158	119	109
1220	248	972	120	109
299	248	51	121	109
171	236	-65	121	110
260	236	24	122	110
209	236	-27	122	111
219	236	-17	122	112
244	236	8	123	112
314	236	78	124	112
309	236	73	125	112
330	236	94	126	112
292	236	56	127	112
379	236	143	128	112
228	236	-8	128	113
402	236	166	129	113
406	236	170	130	113
1220	236	984	131	113
299	236	63	132	113
260	171	89	133	113
209	171	38	134	113
219	171	48	135	113
244	171	73	136	113
314	171	143	137	113
309	171	138	138	113
330	171	159	139	113
292	171	121	140	113
379	171	208	141	113
228	171	57	142	113
402	171	231	143	113
406	171	235	144	113
1220	171	1049	145	113
299	171	128	146	113
209	260	-51	146	114
219	260	-41	146	115

244	260	-16	146	116
314	260	54	147	116
309	260	49	148	116
330	260	70	149	116
292	260	32	150	116
379	260	119	151	116
228	260	-32	151	117
402	260	142	152	117
406	260	146	153	117
1220	260	960	154	117
299	260	39	155	117
219	209	10	156	117
244	209	35	157	117
314	209	105	158	117
309	209	100	159	117
330	209	121	160	117
292	209	83	161	117
379	209	170	162	117
228	209	19	163	117
402	209	193	164	117
406	209	197	165	117
1220	209	1011	166	117
299	209	90	167	117
244	219	25	168	117
314	219	95	169	117
309	219	90	170	117
330	219	111	171	117
292	219	73	172	117
379	219	160	173	117
228	219	9	174	117
402	219	183	175	117
406	219	187	176	117
1220	219	1001	177	117
299	219	80	178	117
314	244	70	179	117
309	244	65	180	117
330	244	86	181	117
292	244	48	182	117
379	244	135	183	117
228	244	-16	183	118
402	244	158	184	118
406	244	162	185	118
1220	244	976	186	118
299	244	55	187	118
309	314	-5	187	119
330	314	16	188	119
292	314	-22	188	120
379	314	65	189	120
228	314	-86	189	121
402	314	88	190	121
406	314	92	191	121
1220	314	906	192	121
299	314	-15	192	122

330	309	21	193	122
292	309	-17	193	123
379	309	70	194	123
228	309	-81	194	124
402	309	93	195	124
406	309	97	196	124
1220	309	911	197	124
299	309	-10	197	125
292	330	-38	197	126
379	330	49	198	126
228	330	-102	198	127
402	330	72	199	127
406	330	76	200	127
1220	330	890	201	127
299	330	-31	201	128
379	292	87	202	128
228	292	-64	202	129
402	292	110	203	129
406	292	114	204	129
1220	292	928	205	129
299	292	7	206	129
228	379	-151	206	130
402	379	23	207	130
406	379	27	208	130
1220	379	841	209	130
299	379	-80	209	131
402	228	174	210	131
406	228	178	211	131
1220	228	992	212	131
299	228	71	213	131
406	402	4	214	131
1220	402	818	215	131
299	402	-103	215	132
1220	406	814	216	132
299	406	-107	216	133
299	1220	-921	216	134

S Statistic = 216 - 134 = 82

Tied Group	**Value**	**Members**
1	253	2

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1

```
1/14/2011                    1
4/21/2011                    1
7/21/2011                    1
10/31/2011                   1
1/13/2012                    1
4/27/2012                    1
7/26/2012                    1
10/18/2012                   1
1/29/2013                    1
7/29/2013                    1
1/31/2014                    1
7/17/2014                    1
1/27/2015                    1
7/21/2015                    1
1/27/2016                    1
7/26/2016                    1
1/30/2017                    1
7/24/2017                    1
1/29/2018                    1
7/24/2018                    1
1/30/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2300
Z-Score = 1.68897
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.68897| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
190	257	-67	0	1
239	257	-18	0	2
210	257	-47	0	3
232	257	-25	0	4
240	257	-17	0	5
259	257	2	1	5
218	257	-39	1	6
265	257	8	2	6
266	257	9	3	6
278	257	21	4	6
269	257	12	5	6
359	257	102	6	6
300	257	43	7	6
252	257	-5	7	7
246	257	-11	7	8
269	257	12	8	8
243	257	-14	8	9
280	257	23	9	9
269	257	12	10	9
261	257	4	11	9
254	257	-3	11	10
263	257	6	12	10
260	257	3	13	10
272	257	15	14	10
259	257	2	15	10
285	257	28	16	10
282	257	25	17	10
271	257	14	18	10
278	257	21	19	10
240	257	-17	19	11
222	257	-35	19	12
188	257	-69	19	13
213	257	-44	19	14
231	257	-26	19	15
262	257	5	20	15
260	257	3	21	15
244	257	-13	21	16
169	257	-88	21	17
279	257	22	22	17
719	257	462	23	17
317	257	60	24	17
335	257	78	25	17
298	257	41	26	17
286	257	29	27	17
235	257	-22	27	18
435	257	178	28	18
382	257	125	29	18

1230	257	973	30	18
248	257	-9	30	19
239	190	49	31	19
210	190	20	32	19
232	190	42	33	19
240	190	50	34	19
259	190	69	35	19
218	190	28	36	19
265	190	75	37	19
266	190	76	38	19
278	190	88	39	19
269	190	79	40	19
359	190	169	41	19
300	190	110	42	19
252	190	62	43	19
246	190	56	44	19
269	190	79	45	19
243	190	53	46	19
280	190	90	47	19
269	190	79	48	19
261	190	71	49	19
254	190	64	50	19
263	190	73	51	19
260	190	70	52	19
272	190	82	53	19
259	190	69	54	19
285	190	95	55	19
282	190	92	56	19
271	190	81	57	19
278	190	88	58	19
240	190	50	59	19
222	190	32	60	19
188	190	-2	60	20
213	190	23	61	20
231	190	41	62	20
262	190	72	63	20
260	190	70	64	20
244	190	54	65	20
169	190	-21	65	21
279	190	89	66	21
719	190	529	67	21
317	190	127	68	21
335	190	145	69	21
298	190	108	70	21
286	190	96	71	21
235	190	45	72	21
435	190	245	73	21
382	190	192	74	21
1230	190	1040	75	21
248	190	58	76	21
210	239	-29	76	22
232	239	-7	76	23
240	239	1	77	23
259	239	20	78	23
218	239	-21	78	24

265	239	26	79	24
266	239	27	80	24
278	239	39	81	24
269	239	30	82	24
359	239	120	83	24
300	239	61	84	24
252	239	13	85	24
246	239	7	86	24
269	239	30	87	24
243	239	4	88	24
280	239	41	89	24
269	239	30	90	24
261	239	22	91	24
254	239	15	92	24
263	239	24	93	24
260	239	21	94	24
272	239	33	95	24
259	239	20	96	24
285	239	46	97	24
282	239	43	98	24
271	239	32	99	24
278	239	39	100	24
240	239	1	101	24
222	239	-17	101	25
188	239	-51	101	26
213	239	-26	101	27
231	239	-8	101	28
262	239	23	102	28
260	239	21	103	28
244	239	5	104	28
169	239	-70	104	29
279	239	40	105	29
719	239	480	106	29
317	239	78	107	29
335	239	96	108	29
298	239	59	109	29
286	239	47	110	29
235	239	-4	110	30
435	239	196	111	30
382	239	143	112	30
1230	239	991	113	30
248	239	9	114	30

232	210	22	115	30
240	210	30	116	30
259	210	49	117	30
218	210	8	118	30
265	210	55	119	30
266	210	56	120	30
278	210	68	121	30
269	210	59	122	30
359	210	149	123	30
300	210	90	124	30
252	210	42	125	30
246	210	36	126	30
269	210	59	127	30
243	210	33	128	30

280	210	70	129	30
269	210	59	130	30
261	210	51	131	30
254	210	44	132	30
263	210	53	133	30
260	210	50	134	30
272	210	62	135	30
259	210	49	136	30
285	210	75	137	30
282	210	72	138	30
271	210	61	139	30
278	210	68	140	30
240	210	30	141	30
222	210	12	142	30
188	210	-22	142	31
213	210	3	143	31
231	210	21	144	31
262	210	52	145	31
260	210	50	146	31
244	210	34	147	31
169	210	-41	147	32
279	210	69	148	32
719	210	509	149	32
317	210	107	150	32
335	210	125	151	32
298	210	88	152	32
286	210	76	153	32
235	210	25	154	32
435	210	225	155	32
382	210	172	156	32
1230	210	1020	157	32
248	210	38	158	32
240	232	8	159	32
259	232	27	160	32
218	232	-14	160	33
265	232	33	161	33
266	232	34	162	33
278	232	46	163	33
269	232	37	164	33
359	232	127	165	33
300	232	68	166	33
252	232	20	167	33
246	232	14	168	33
269	232	37	169	33
243	232	11	170	33
280	232	48	171	33
269	232	37	172	33
261	232	29	173	33
254	232	22	174	33
263	232	31	175	33
260	232	28	176	33
272	232	40	177	33
259	232	27	178	33
285	232	53	179	33
282	232	50	180	33
271	232	39	181	33

278	232	46	182	33
240	232	8	183	33
222	232	-10	183	34
188	232	-44	183	35
213	232	-19	183	36
231	232	-1	183	37
262	232	30	184	37
260	232	28	185	37
244	232	12	186	37
169	232	-63	186	38
279	232	47	187	38
719	232	487	188	38
317	232	85	189	38
335	232	103	190	38
298	232	66	191	38
286	232	54	192	38
235	232	3	193	38
435	232	203	194	38
382	232	150	195	38
1230	232	998	196	38
248	232	16	197	38
259	240	19	198	38
218	240	-22	198	39
265	240	25	199	39
266	240	26	200	39
278	240	38	201	39
269	240	29	202	39
359	240	119	203	39
300	240	60	204	39
252	240	12	205	39
246	240	6	206	39
269	240	29	207	39
243	240	3	208	39
280	240	40	209	39
269	240	29	210	39
261	240	21	211	39
254	240	14	212	39
263	240	23	213	39
260	240	20	214	39
272	240	32	215	39
259	240	19	216	39
285	240	45	217	39
282	240	42	218	39
271	240	31	219	39
278	240	38	220	39
240	240	0	220	39
222	240	-18	220	40
188	240	-52	220	41
213	240	-27	220	42
231	240	-9	220	43
262	240	22	221	43
260	240	20	222	43
244	240	4	223	43
169	240	-71	223	44
279	240	39	224	44
719	240	479	225	44

317	240	77	226	44
335	240	95	227	44
298	240	58	228	44
286	240	46	229	44
235	240	-5	229	45
435	240	195	230	45
382	240	142	231	45
1230	240	990	232	45
248	240	8	233	45
218	259	-41	233	46
265	259	6	234	46
266	259	7	235	46
278	259	19	236	46
269	259	10	237	46
359	259	100	238	46
300	259	41	239	46
252	259	-7	239	47
246	259	-13	239	48
269	259	10	240	48
243	259	-16	240	49
280	259	21	241	49
269	259	10	242	49
261	259	2	243	49
254	259	-5	243	50
263	259	4	244	50
260	259	1	245	50
272	259	13	246	50
259	259	0	246	50
285	259	26	247	50
282	259	23	248	50
271	259	12	249	50
278	259	19	250	50
240	259	-19	250	51
222	259	-37	250	52
188	259	-71	250	53
213	259	-46	250	54
231	259	-28	250	55
262	259	3	251	55
260	259	1	252	55
244	259	-15	252	56
169	259	-90	252	57
279	259	20	253	57
719	259	460	254	57
317	259	58	255	57
335	259	76	256	57
298	259	39	257	57
286	259	27	258	57
235	259	-24	258	58
435	259	176	259	58
382	259	123	260	58
1230	259	971	261	58
248	259	-11	261	59
265	218	47	262	59
266	218	48	263	59
278	218	60	264	59

269	218	51	265	59
359	218	141	266	59
300	218	82	267	59
252	218	34	268	59
246	218	28	269	59
269	218	51	270	59
243	218	25	271	59
280	218	62	272	59
269	218	51	273	59
261	218	43	274	59
254	218	36	275	59
263	218	45	276	59
260	218	42	277	59
272	218	54	278	59
259	218	41	279	59
285	218	67	280	59
282	218	64	281	59
271	218	53	282	59
278	218	60	283	59
240	218	22	284	59
222	218	4	285	59
188	218	-30	285	60
213	218	-5	285	61
231	218	13	286	61
262	218	44	287	61
260	218	42	288	61
244	218	26	289	61
169	218	-49	289	62
279	218	61	290	62
719	218	501	291	62
317	218	99	292	62
335	218	117	293	62
298	218	80	294	62
286	218	68	295	62
235	218	17	296	62
435	218	217	297	62
382	218	164	298	62
1230	218	1012	299	62
248	218	30	300	62
266	265	1	301	62
278	265	13	302	62
269	265	4	303	62
359	265	94	304	62
300	265	35	305	62
252	265	-13	305	63
246	265	-19	305	64
269	265	4	306	64
243	265	-22	306	65
280	265	15	307	65
269	265	4	308	65
261	265	-4	308	66
254	265	-11	308	67
263	265	-2	308	68
260	265	-5	308	69
272	265	7	309	69
259	265	-6	309	70

285	265	20	310	70
282	265	17	311	70
271	265	6	312	70
278	265	13	313	70
240	265	-25	313	71
222	265	-43	313	72
188	265	-77	313	73
213	265	-52	313	74
231	265	-34	313	75
262	265	-3	313	76
260	265	-5	313	77
244	265	-21	313	78
169	265	-96	313	79
279	265	14	314	79
719	265	454	315	79
317	265	52	316	79
335	265	70	317	79
298	265	33	318	79
286	265	21	319	79
235	265	-30	319	80
435	265	170	320	80
382	265	117	321	80
1230	265	965	322	80
248	265	-17	322	81
278	266	12	323	81
269	266	3	324	81
359	266	93	325	81
300	266	34	326	81
252	266	-14	326	82
246	266	-20	326	83
269	266	3	327	83
243	266	-23	327	84
280	266	14	328	84
269	266	3	329	84
261	266	-5	329	85
254	266	-12	329	86
263	266	-3	329	87
260	266	-6	329	88
272	266	6	330	88
259	266	-7	330	89
285	266	19	331	89
282	266	16	332	89
271	266	5	333	89
278	266	12	334	89
240	266	-26	334	90
222	266	-44	334	91
188	266	-78	334	92
213	266	-53	334	93
231	266	-35	334	94
262	266	-4	334	95
260	266	-6	334	96
244	266	-22	334	97
169	266	-97	334	98
279	266	13	335	98
719	266	453	336	98
317	266	51	337	98

335	266	69	338	98
298	266	32	339	98
286	266	20	340	98
235	266	-31	340	99
435	266	169	341	99
382	266	116	342	99
1230	266	964	343	99
248	266	-18	343	100
269	278	-9	343	101
359	278	81	344	101
300	278	22	345	101
252	278	-26	345	102
246	278	-32	345	103
269	278	-9	345	104
243	278	-35	345	105
280	278	2	346	105
269	278	-9	346	106
261	278	-17	346	107
254	278	-24	346	108
263	278	-15	346	109
260	278	-18	346	110
272	278	-6	346	111
259	278	-19	346	112
285	278	7	347	112
282	278	4	348	112
271	278	-7	348	113
278	278	0	348	113
240	278	-38	348	114
222	278	-56	348	115
188	278	-90	348	116
213	278	-65	348	117
231	278	-47	348	118
262	278	-16	348	119
260	278	-18	348	120
244	278	-34	348	121
169	278	-109	348	122
279	278	1	349	122
719	278	441	350	122
317	278	39	351	122
335	278	57	352	122
298	278	20	353	122
286	278	8	354	122
235	278	-43	354	123
435	278	157	355	123
382	278	104	356	123
1230	278	952	357	123
248	278	-30	357	124
359	269	90	358	124
300	269	31	359	124
252	269	-17	359	125
246	269	-23	359	126
269	269	0	359	126
243	269	-26	359	127
280	269	11	360	127
269	269	0	360	127

261	269	-8	360	128
254	269	-15	360	129
263	269	-6	360	130
260	269	-9	360	131
272	269	3	361	131
259	269	-10	361	132
285	269	16	362	132
282	269	13	363	132
271	269	2	364	132
278	269	9	365	132
240	269	-29	365	133
222	269	-47	365	134
188	269	-81	365	135
213	269	-56	365	136
231	269	-38	365	137
262	269	-7	365	138
260	269	-9	365	139
244	269	-25	365	140
169	269	-100	365	141
279	269	10	366	141
719	269	450	367	141
317	269	48	368	141
335	269	66	369	141
298	269	29	370	141
286	269	17	371	141
235	269	-34	371	142
435	269	166	372	142
382	269	113	373	142
1230	269	961	374	142
248	269	-21	374	143
300	359	-59	374	144
252	359	-107	374	145
246	359	-113	374	146
269	359	-90	374	147
243	359	-116	374	148
280	359	-79	374	149
269	359	-90	374	150
261	359	-98	374	151
254	359	-105	374	152
263	359	-96	374	153
260	359	-99	374	154
272	359	-87	374	155
259	359	-100	374	156
285	359	-74	374	157
282	359	-77	374	158
271	359	-88	374	159
278	359	-81	374	160
240	359	-119	374	161
222	359	-137	374	162
188	359	-171	374	163
213	359	-146	374	164
231	359	-128	374	165
262	359	-97	374	166
260	359	-99	374	167
244	359	-115	374	168
169	359	-190	374	169

279	359	-80	374	170
719	359	360	375	170
317	359	-42	375	171
335	359	-24	375	172
298	359	-61	375	173
286	359	-73	375	174
235	359	-124	375	175
435	359	76	376	175
382	359	23	377	175
1230	359	871	378	175
248	359	-111	378	176
252	300	-48	378	177
246	300	-54	378	178
269	300	-31	378	179
243	300	-57	378	180
280	300	-20	378	181
269	300	-31	378	182
261	300	-39	378	183
254	300	-46	378	184
263	300	-37	378	185
260	300	-40	378	186
272	300	-28	378	187
259	300	-41	378	188
285	300	-15	378	189
282	300	-18	378	190
271	300	-29	378	191
278	300	-22	378	192
240	300	-60	378	193
222	300	-78	378	194
188	300	-112	378	195
213	300	-87	378	196
231	300	-69	378	197
262	300	-38	378	198
260	300	-40	378	199
244	300	-56	378	200
169	300	-131	378	201
279	300	-21	378	202
719	300	419	379	202
317	300	17	380	202
335	300	35	381	202
298	300	-2	381	203
286	300	-14	381	204
235	300	-65	381	205
435	300	135	382	205
382	300	82	383	205
1230	300	930	384	205
248	300	-52	384	206
246	252	-6	384	207
269	252	17	385	207
243	252	-9	385	208
280	252	28	386	208
269	252	17	387	208
261	252	9	388	208
254	252	2	389	208
263	252	11	390	208

260	252	8	391	208
272	252	20	392	208
259	252	7	393	208
285	252	33	394	208
282	252	30	395	208
271	252	19	396	208
278	252	26	397	208
240	252	-12	397	209
222	252	-30	397	210
188	252	-64	397	211
213	252	-39	397	212
231	252	-21	397	213
262	252	10	398	213
260	252	8	399	213
244	252	-8	399	214
169	252	-83	399	215
279	252	27	400	215
719	252	467	401	215
317	252	65	402	215
335	252	83	403	215
298	252	46	404	215
286	252	34	405	215
235	252	-17	405	216
435	252	183	406	216
382	252	130	407	216
1230	252	978	408	216
248	252	-4	408	217

269	246	23	409	217
243	246	-3	409	218
280	246	34	410	218
269	246	23	411	218
261	246	15	412	218
254	246	8	413	218
263	246	17	414	218
260	246	14	415	218
272	246	26	416	218
259	246	13	417	218
285	246	39	418	218
282	246	36	419	218
271	246	25	420	218
278	246	32	421	218
240	246	-6	421	219
222	246	-24	421	220
188	246	-58	421	221
213	246	-33	421	222
231	246	-15	421	223
262	246	16	422	223
260	246	14	423	223
244	246	-2	423	224
169	246	-77	423	225
279	246	33	424	225
719	246	473	425	225
317	246	71	426	225
335	246	89	427	225
298	246	52	428	225
286	246	40	429	225

235	246	-11	429	226
435	246	189	430	226
382	246	136	431	226
1230	246	984	432	226
248	246	2	433	226
243	269	-26	433	227
280	269	11	434	227
269	269	0	434	227
261	269	-8	434	228
254	269	-15	434	229
263	269	-6	434	230
260	269	-9	434	231
272	269	3	435	231
259	269	-10	435	232
285	269	16	436	232
282	269	13	437	232
271	269	2	438	232
278	269	9	439	232
240	269	-29	439	233
222	269	-47	439	234
188	269	-81	439	235
213	269	-56	439	236
231	269	-38	439	237
262	269	-7	439	238
260	269	-9	439	239
244	269	-25	439	240
169	269	-100	439	241
279	269	10	440	241
719	269	450	441	241
317	269	48	442	241
335	269	66	443	241
298	269	29	444	241
286	269	17	445	241
235	269	-34	445	242
435	269	166	446	242
382	269	113	447	242
1230	269	961	448	242
248	269	-21	448	243
280	243	37	449	243
269	243	26	450	243
261	243	18	451	243
254	243	11	452	243
263	243	20	453	243
260	243	17	454	243
272	243	29	455	243
259	243	16	456	243
285	243	42	457	243
282	243	39	458	243
271	243	28	459	243
278	243	35	460	243
240	243	-3	460	244
222	243	-21	460	245
188	243	-55	460	246
213	243	-30	460	247
231	243	-12	460	248

262	243	19	461	248
260	243	17	462	248
244	243	1	463	248
169	243	-74	463	249
279	243	36	464	249
719	243	476	465	249
317	243	74	466	249
335	243	92	467	249
298	243	55	468	249
286	243	43	469	249
235	243	-8	469	250
435	243	192	470	250
382	243	139	471	250
1230	243	987	472	250
248	243	5	473	250

269	280	-11	473	251
261	280	-19	473	252
254	280	-26	473	253
263	280	-17	473	254
260	280	-20	473	255
272	280	-8	473	256
259	280	-21	473	257
285	280	5	474	257
282	280	2	475	257
271	280	-9	475	258
278	280	-2	475	259
240	280	-40	475	260
222	280	-58	475	261
188	280	-92	475	262
213	280	-67	475	263
231	280	-49	475	264
262	280	-18	475	265
260	280	-20	475	266
244	280	-36	475	267
169	280	-111	475	268
279	280	-1	475	269
719	280	439	476	269
317	280	37	477	269
335	280	55	478	269
298	280	18	479	269
286	280	6	480	269
235	280	-45	480	270
435	280	155	481	270
382	280	102	482	270
1230	280	950	483	270
248	280	-32	483	271

261	269	-8	483	272
254	269	-15	483	273
263	269	-6	483	274
260	269	-9	483	275
272	269	3	484	275
259	269	-10	484	276
285	269	16	485	276
282	269	13	486	276
271	269	2	487	276

278	269	9	488	276
240	269	-29	488	277
222	269	-47	488	278
188	269	-81	488	279
213	269	-56	488	280
231	269	-38	488	281
262	269	-7	488	282
260	269	-9	488	283
244	269	-25	488	284
169	269	-100	488	285
279	269	10	489	285
719	269	450	490	285
317	269	48	491	285
335	269	66	492	285
298	269	29	493	285
286	269	17	494	285
235	269	-34	494	286
435	269	166	495	286
382	269	113	496	286
1230	269	961	497	286
248	269	-21	497	287
254	261	-7	497	288
263	261	2	498	288
260	261	-1	498	289
272	261	11	499	289
259	261	-2	499	290
285	261	24	500	290
282	261	21	501	290
271	261	10	502	290
278	261	17	503	290
240	261	-21	503	291
222	261	-39	503	292
188	261	-73	503	293
213	261	-48	503	294
231	261	-30	503	295
262	261	1	504	295
260	261	-1	504	296
244	261	-17	504	297
169	261	-92	504	298
279	261	18	505	298
719	261	458	506	298
317	261	56	507	298
335	261	74	508	298
298	261	37	509	298
286	261	25	510	298
235	261	-26	510	299
435	261	174	511	299
382	261	121	512	299
1230	261	969	513	299
248	261	-13	513	300
263	254	9	514	300
260	254	6	515	300
272	254	18	516	300
259	254	5	517	300
285	254	31	518	300

282	254	28	519	300
271	254	17	520	300
278	254	24	521	300
240	254	-14	521	301
222	254	-32	521	302
188	254	-66	521	303
213	254	-41	521	304
231	254	-23	521	305
262	254	8	522	305
260	254	6	523	305
244	254	-10	523	306
169	254	-85	523	307
279	254	25	524	307
719	254	465	525	307
317	254	63	526	307
335	254	81	527	307
298	254	44	528	307
286	254	32	529	307
235	254	-19	529	308
435	254	181	530	308
382	254	128	531	308
1230	254	976	532	308
248	254	-6	532	309
260	263	-3	532	310
272	263	9	533	310
259	263	-4	533	311
285	263	22	534	311
282	263	19	535	311
271	263	8	536	311
278	263	15	537	311
240	263	-23	537	312
222	263	-41	537	313
188	263	-75	537	314
213	263	-50	537	315
231	263	-32	537	316
262	263	-1	537	317
260	263	-3	537	318
244	263	-19	537	319
169	263	-94	537	320
279	263	16	538	320
719	263	456	539	320
317	263	54	540	320
335	263	72	541	320
298	263	35	542	320
286	263	23	543	320
235	263	-28	543	321
435	263	172	544	321
382	263	119	545	321
1230	263	967	546	321
248	263	-15	546	322
272	260	12	547	322
259	260	-1	547	323
285	260	25	548	323
282	260	22	549	323
271	260	11	550	323

278	260	18	551	323
240	260	-20	551	324
222	260	-38	551	325
188	260	-72	551	326
213	260	-47	551	327
231	260	-29	551	328
262	260	2	552	328
260	260	0	552	328
244	260	-16	552	329
169	260	-91	552	330
279	260	19	553	330
719	260	459	554	330
317	260	57	555	330
335	260	75	556	330
298	260	38	557	330
286	260	26	558	330
235	260	-25	558	331
435	260	175	559	331
382	260	122	560	331
1230	260	970	561	331
248	260	-12	561	332
259	272	-13	561	333
285	272	13	562	333
282	272	10	563	333
271	272	-1	563	334
278	272	6	564	334
240	272	-32	564	335
222	272	-50	564	336
188	272	-84	564	337
213	272	-59	564	338
231	272	-41	564	339
262	272	-10	564	340
260	272	-12	564	341
244	272	-28	564	342
169	272	-103	564	343
279	272	7	565	343
719	272	447	566	343
317	272	45	567	343
335	272	63	568	343
298	272	26	569	343
286	272	14	570	343
235	272	-37	570	344
435	272	163	571	344
382	272	110	572	344
1230	272	958	573	344
248	272	-24	573	345
285	259	26	574	345
282	259	23	575	345
271	259	12	576	345
278	259	19	577	345
240	259	-19	577	346
222	259	-37	577	347
188	259	-71	577	348
213	259	-46	577	349
231	259	-28	577	350

262	259	3	578	350
260	259	1	579	350
244	259	-15	579	351
169	259	-90	579	352
279	259	20	580	352
719	259	460	581	352
317	259	58	582	352
335	259	76	583	352
298	259	39	584	352
286	259	27	585	352
235	259	-24	585	353
435	259	176	586	353
382	259	123	587	353
1230	259	971	588	353
248	259	-11	588	354

282	285	-3	588	355
271	285	-14	588	356
278	285	-7	588	357
240	285	-45	588	358
222	285	-63	588	359
188	285	-97	588	360
213	285	-72	588	361
231	285	-54	588	362
262	285	-23	588	363
260	285	-25	588	364
244	285	-41	588	365
169	285	-116	588	366
279	285	-6	588	367
719	285	434	589	367
317	285	32	590	367
335	285	50	591	367
298	285	13	592	367
286	285	1	593	367
235	285	-50	593	368
435	285	150	594	368
382	285	97	595	368
1230	285	945	596	368
248	285	-37	596	369

271	282	-11	596	370
278	282	-4	596	371
240	282	-42	596	372
222	282	-60	596	373
188	282	-94	596	374
213	282	-69	596	375
231	282	-51	596	376
262	282	-20	596	377
260	282	-22	596	378
244	282	-38	596	379
169	282	-113	596	380
279	282	-3	596	381
719	282	437	597	381
317	282	35	598	381
335	282	53	599	381
298	282	16	600	381
286	282	4	601	381

235	282	-47	601	382
435	282	153	602	382
382	282	100	603	382
1230	282	948	604	382
248	282	-34	604	383
278	271	7	605	383
240	271	-31	605	384
222	271	-49	605	385
188	271	-83	605	386
213	271	-58	605	387
231	271	-40	605	388
262	271	-9	605	389
260	271	-11	605	390
244	271	-27	605	391
169	271	-102	605	392
279	271	8	606	392
719	271	448	607	392
317	271	46	608	392
335	271	64	609	392
298	271	27	610	392
286	271	15	611	392
235	271	-36	611	393
435	271	164	612	393
382	271	111	613	393
1230	271	959	614	393
248	271	-23	614	394
240	278	-38	614	395
222	278	-56	614	396
188	278	-90	614	397
213	278	-65	614	398
231	278	-47	614	399
262	278	-16	614	400
260	278	-18	614	401
244	278	-34	614	402
169	278	-109	614	403
279	278	1	615	403
719	278	441	616	403
317	278	39	617	403
335	278	57	618	403
298	278	20	619	403
286	278	8	620	403
235	278	-43	620	404
435	278	157	621	404
382	278	104	622	404
1230	278	952	623	404
248	278	-30	623	405
222	240	-18	623	406
188	240	-52	623	407
213	240	-27	623	408
231	240	-9	623	409
262	240	22	624	409
260	240	20	625	409
244	240	4	626	409
169	240	-71	626	410

279	240	39	627	410
719	240	479	628	410
317	240	77	629	410
335	240	95	630	410
298	240	58	631	410
286	240	46	632	410
235	240	-5	632	411
435	240	195	633	411
382	240	142	634	411
1230	240	990	635	411
248	240	8	636	411
188	222	-34	636	412
213	222	-9	636	413
231	222	9	637	413
262	222	40	638	413
260	222	38	639	413
244	222	22	640	413
169	222	-53	640	414
279	222	57	641	414
719	222	497	642	414
317	222	95	643	414
335	222	113	644	414
298	222	76	645	414
286	222	64	646	414
235	222	13	647	414
435	222	213	648	414
382	222	160	649	414
1230	222	1008	650	414
248	222	26	651	414
213	188	25	652	414
231	188	43	653	414
262	188	74	654	414
260	188	72	655	414
244	188	56	656	414
169	188	-19	656	415
279	188	91	657	415
719	188	531	658	415
317	188	129	659	415
335	188	147	660	415
298	188	110	661	415
286	188	98	662	415
235	188	47	663	415
435	188	247	664	415
382	188	194	665	415
1230	188	1042	666	415
248	188	60	667	415
231	213	18	668	415
262	213	49	669	415
260	213	47	670	415
244	213	31	671	415
169	213	-44	671	416
279	213	66	672	416
719	213	506	673	416
317	213	104	674	416

335	213	122	675	416
298	213	85	676	416
286	213	73	677	416
235	213	22	678	416
435	213	222	679	416
382	213	169	680	416
1230	213	1017	681	416
248	213	35	682	416
262	231	31	683	416
260	231	29	684	416
244	231	13	685	416
169	231	-62	685	417
279	231	48	686	417
719	231	488	687	417
317	231	86	688	417
335	231	104	689	417
298	231	67	690	417
286	231	55	691	417
235	231	4	692	417
435	231	204	693	417
382	231	151	694	417
1230	231	999	695	417
248	231	17	696	417
260	262	-2	696	418
244	262	-18	696	419
169	262	-93	696	420
279	262	17	697	420
719	262	457	698	420
317	262	55	699	420
335	262	73	700	420
298	262	36	701	420
286	262	24	702	420
235	262	-27	702	421
435	262	173	703	421
382	262	120	704	421
1230	262	968	705	421
248	262	-14	705	422
244	260	-16	705	423
169	260	-91	705	424
279	260	19	706	424
719	260	459	707	424
317	260	57	708	424
335	260	75	709	424
298	260	38	710	424
286	260	26	711	424
235	260	-25	711	425
435	260	175	712	425
382	260	122	713	425
1230	260	970	714	425
248	260	-12	714	426
169	244	-75	714	427
279	244	35	715	427
719	244	475	716	427

317	244	73	717	427
335	244	91	718	427
298	244	54	719	427
286	244	42	720	427
235	244	-9	720	428
435	244	191	721	428
382	244	138	722	428
1230	244	986	723	428
248	244	4	724	428
279	169	110	725	428
719	169	550	726	428
317	169	148	727	428
335	169	166	728	428
298	169	129	729	428
286	169	117	730	428
235	169	66	731	428
435	169	266	732	428
382	169	213	733	428
1230	169	1061	734	428
248	169	79	735	428
719	279	440	736	428
317	279	38	737	428
335	279	56	738	428
298	279	19	739	428
286	279	7	740	428
235	279	-44	740	429
435	279	156	741	429
382	279	103	742	429
1230	279	951	743	429
248	279	-31	743	430
317	719	-402	743	431
335	719	-384	743	432
298	719	-421	743	433
286	719	-433	743	434
235	719	-484	743	435
435	719	-284	743	436
382	719	-337	743	437
1230	719	511	744	437
248	719	-471	744	438
335	317	18	745	438
298	317	-19	745	439
286	317	-31	745	440
235	317	-82	745	441
435	317	118	746	441
382	317	65	747	441
1230	317	913	748	441
248	317	-69	748	442
298	335	-37	748	443
286	335	-49	748	444
235	335	-100	748	445
435	335	100	749	445
382	335	47	750	445

1230	335	895	751	445
248	335	-87	751	446
286	298	-12	751	447
235	298	-63	751	448
435	298	137	752	448
382	298	84	753	448
1230	298	932	754	448
248	298	-50	754	449
235	286	-51	754	450
435	286	149	755	450
382	286	96	756	450
1230	286	944	757	450
248	286	-38	757	451
435	235	200	758	451
382	235	147	759	451
1230	235	995	760	451
248	235	13	761	451
382	435	-53	761	452
1230	435	795	762	452
248	435	-187	762	453
1230	382	848	763	453
248	382	-134	763	454
248	1230	-982	763	455

S Statistic = 763 - 455 = 308

Tied Group	**Value**	**Members**
1	240	2
2	259	2
3	278	2
4	269	3
5	260	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1

```
5/16/2011                    1
6/9/2011                     1
7/21/2011                    1
8/8/2011                     1
9/12/2011                    1
10/31/2011                   1
11/15/2011                   1
12/6/2011                    1
1/13/2012                    1
2/21/2012                    1
3/20/2012                    1
4/27/2012                    1
5/24/2012                    1
6/15/2012                    1
7/26/2012                    1
8/15/2012                    1
9/11/2012                    1
10/18/2012                   1
11/14/2012                   1
12/5/2012                    1
1/29/2013                    1
7/29/2013                    1
1/31/2014                    1
7/17/2014                    1
1/27/2015                    1
7/21/2015                    1
1/27/2016                    1
7/26/2016                    1
1/30/2017                    1
7/24/2017                    1
1/29/2018                    1
7/24/2018                    1
1/30/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 138
B = 0
C = 6
D = 0
E = 14
F = 0
a = 257250
b = 1.0584e+006
c = 4900
Group Variance = 14284
Z-Score = 2.5687
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.5687| > 2.32634 indicating a trend
```

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
208	242	-34	0	1
235	242	-7	0	2
207	242	-35	0	3
227	242	-15	0	4
224	242	-18	0	5
252	242	10	1	5
219	242	-23	1	6
247	242	5	2	6
265	242	23	3	6
285	242	43	4	6
259	242	17	5	6
247	242	5	6	6
263	242	21	7	6
253	242	11	8	6
241	242	-1	8	7
256	242	14	9	7
238	242	-4	9	8
261	242	19	10	8
261	242	19	11	8
255	242	13	12	8
213	242	-29	12	9
258	242	16	13	9
253	242	11	14	9
261	242	19	15	9
256	242	14	16	9
259	242	17	17	9
272	242	30	18	9
262	242	20	19	9
265	242	23	20	9
224	242	-18	20	10
222	242	-20	20	11
190	242	-52	20	12
211	242	-31	20	13
232	242	-10	20	14
270	242	28	21	14
276	242	34	22	14
232	242	-10	22	15
187	242	-55	22	16
243	242	1	23	16
582	242	340	24	16
421	242	179	25	16
322	242	80	26	16
302	242	60	27	16
352	242	110	28	16
248	242	6	29	16
428	242	186	30	16
439	242	197	31	16

1300	242	1058	32	16
276	242	34	33	16
235	208	27	34	16
207	208	-1	34	17
227	208	19	35	17
224	208	16	36	17
252	208	44	37	17
219	208	11	38	17
247	208	39	39	17
265	208	57	40	17
285	208	77	41	17
259	208	51	42	17
247	208	39	43	17
263	208	55	44	17
253	208	45	45	17
241	208	33	46	17
256	208	48	47	17
238	208	30	48	17
261	208	53	49	17
261	208	53	50	17
255	208	47	51	17
213	208	5	52	17
258	208	50	53	17
253	208	45	54	17
261	208	53	55	17
256	208	48	56	17
259	208	51	57	17
272	208	64	58	17
262	208	54	59	17
265	208	57	60	17
224	208	16	61	17
222	208	14	62	17
190	208	-18	62	18
211	208	3	63	18
232	208	24	64	18
270	208	62	65	18
276	208	68	66	18
232	208	24	67	18
187	208	-21	67	19
243	208	35	68	19
582	208	374	69	19
421	208	213	70	19
322	208	114	71	19
302	208	94	72	19
352	208	144	73	19
248	208	40	74	19
428	208	220	75	19
439	208	231	76	19
1300	208	1092	77	19
276	208	68	78	19
207	235	-28	78	20
227	235	-8	78	21
224	235	-11	78	22
252	235	17	79	22
219	235	-16	79	23

247	235	12	80	23
265	235	30	81	23
285	235	50	82	23
259	235	24	83	23
247	235	12	84	23
263	235	28	85	23
253	235	18	86	23
241	235	6	87	23
256	235	21	88	23
238	235	3	89	23
261	235	26	90	23
261	235	26	91	23
255	235	20	92	23
213	235	-22	92	24
258	235	23	93	24
253	235	18	94	24
261	235	26	95	24
256	235	21	96	24
259	235	24	97	24
272	235	37	98	24
262	235	27	99	24
265	235	30	100	24
224	235	-11	100	25
222	235	-13	100	26
190	235	-45	100	27
211	235	-24	100	28
232	235	-3	100	29
270	235	35	101	29
276	235	41	102	29
232	235	-3	102	30
187	235	-48	102	31
243	235	8	103	31
582	235	347	104	31
421	235	186	105	31
322	235	87	106	31
302	235	67	107	31
352	235	117	108	31
248	235	13	109	31
428	235	193	110	31
439	235	204	111	31
1300	235	1065	112	31
276	235	41	113	31
227	207	20	114	31
224	207	17	115	31
252	207	45	116	31
219	207	12	117	31
247	207	40	118	31
265	207	58	119	31
285	207	78	120	31
259	207	52	121	31
247	207	40	122	31
263	207	56	123	31
253	207	46	124	31
241	207	34	125	31
256	207	49	126	31
238	207	31	127	31

261	207	54	128	31
261	207	54	129	31
255	207	48	130	31
213	207	6	131	31
258	207	51	132	31
253	207	46	133	31
261	207	54	134	31
256	207	49	135	31
259	207	52	136	31
272	207	65	137	31
262	207	55	138	31
265	207	58	139	31
224	207	17	140	31
222	207	15	141	31
190	207	-17	141	32
211	207	4	142	32
232	207	25	143	32
270	207	63	144	32
276	207	69	145	32
232	207	25	146	32
187	207	-20	146	33
243	207	36	147	33
582	207	375	148	33
421	207	214	149	33
322	207	115	150	33
302	207	95	151	33
352	207	145	152	33
248	207	41	153	33
428	207	221	154	33
439	207	232	155	33
1300	207	1093	156	33
276	207	69	157	33

224	227	-3	157	34
252	227	25	158	34
219	227	-8	158	35
247	227	20	159	35
265	227	38	160	35
285	227	58	161	35
259	227	32	162	35
247	227	20	163	35
263	227	36	164	35
253	227	26	165	35
241	227	14	166	35
256	227	29	167	35
238	227	11	168	35
261	227	34	169	35
261	227	34	170	35
255	227	28	171	35
213	227	-14	171	36
258	227	31	172	36
253	227	26	173	36
261	227	34	174	36
256	227	29	175	36
259	227	32	176	36
272	227	45	177	36
262	227	35	178	36

265	227	38	179	36
224	227	-3	179	37
222	227	-5	179	38
190	227	-37	179	39
211	227	-16	179	40
232	227	5	180	40
270	227	43	181	40
276	227	49	182	40
232	227	5	183	40
187	227	-40	183	41
243	227	16	184	41
582	227	355	185	41
421	227	194	186	41
322	227	95	187	41
302	227	75	188	41
352	227	125	189	41
248	227	21	190	41
428	227	201	191	41
439	227	212	192	41
1300	227	1073	193	41
276	227	49	194	41
252	224	28	195	41
219	224	-5	195	42
247	224	23	196	42
265	224	41	197	42
285	224	61	198	42
259	224	35	199	42
247	224	23	200	42
263	224	39	201	42
253	224	29	202	42
241	224	17	203	42
256	224	32	204	42
238	224	14	205	42
261	224	37	206	42
261	224	37	207	42
255	224	31	208	42
213	224	-11	208	43
258	224	34	209	43
253	224	29	210	43
261	224	37	211	43
256	224	32	212	43
259	224	35	213	43
272	224	48	214	43
262	224	38	215	43
265	224	41	216	43
224	224	0	216	43
222	224	-2	216	44
190	224	-34	216	45
211	224	-13	216	46
232	224	8	217	46
270	224	46	218	46
276	224	52	219	46
232	224	8	220	46
187	224	-37	220	47
243	224	19	221	47
582	224	358	222	47

421	224	197	223	47
322	224	98	224	47
302	224	78	225	47
352	224	128	226	47
248	224	24	227	47
428	224	204	228	47
439	224	215	229	47
1300	224	1076	230	47
276	224	52	231	47
219	252	-33	231	48
247	252	-5	231	49
265	252	13	232	49
285	252	33	233	49
259	252	7	234	49
247	252	-5	234	50
263	252	11	235	50
253	252	1	236	50
241	252	-11	236	51
256	252	4	237	51
238	252	-14	237	52
261	252	9	238	52
261	252	9	239	52
255	252	3	240	52
213	252	-39	240	53
258	252	6	241	53
253	252	1	242	53
261	252	9	243	53
256	252	4	244	53
259	252	7	245	53
272	252	20	246	53
262	252	10	247	53
265	252	13	248	53
224	252	-28	248	54
222	252	-30	248	55
190	252	-62	248	56
211	252	-41	248	57
232	252	-20	248	58
270	252	18	249	58
276	252	24	250	58
232	252	-20	250	59
187	252	-65	250	60
243	252	-9	250	61
582	252	330	251	61
421	252	169	252	61
322	252	70	253	61
302	252	50	254	61
352	252	100	255	61
248	252	-4	255	62
428	252	176	256	62
439	252	187	257	62
1300	252	1048	258	62
276	252	24	259	62
247	219	28	260	62
265	219	46	261	62
285	219	66	262	62

259	219	40	263	62
247	219	28	264	62
263	219	44	265	62
253	219	34	266	62
241	219	22	267	62
256	219	37	268	62
238	219	19	269	62
261	219	42	270	62
261	219	42	271	62
255	219	36	272	62
213	219	-6	272	63
258	219	39	273	63
253	219	34	274	63
261	219	42	275	63
256	219	37	276	63
259	219	40	277	63
272	219	53	278	63
262	219	43	279	63
265	219	46	280	63
224	219	5	281	63
222	219	3	282	63
190	219	-29	282	64
211	219	-8	282	65
232	219	13	283	65
270	219	51	284	65
276	219	57	285	65
232	219	13	286	65
187	219	-32	286	66
243	219	24	287	66
582	219	363	288	66
421	219	202	289	66
322	219	103	290	66
302	219	83	291	66
352	219	133	292	66
248	219	29	293	66
428	219	209	294	66
439	219	220	295	66
1300	219	1081	296	66
276	219	57	297	66
265	247	18	298	66
285	247	38	299	66
259	247	12	300	66
247	247	0	300	66
263	247	16	301	66
253	247	6	302	66
241	247	-6	302	67
256	247	9	303	67
238	247	-9	303	68
261	247	14	304	68
261	247	14	305	68
255	247	8	306	68
213	247	-34	306	69
258	247	11	307	69
253	247	6	308	69
261	247	14	309	69
256	247	9	310	69

259	247	12	311	69
272	247	25	312	69
262	247	15	313	69
265	247	18	314	69
224	247	-23	314	70
222	247	-25	314	71
190	247	-57	314	72
211	247	-36	314	73
232	247	-15	314	74
270	247	23	315	74
276	247	29	316	74
232	247	-15	316	75
187	247	-60	316	76
243	247	-4	316	77
582	247	335	317	77
421	247	174	318	77
322	247	75	319	77
302	247	55	320	77
352	247	105	321	77
248	247	1	322	77
428	247	181	323	77
439	247	192	324	77
1300	247	1053	325	77
276	247	29	326	77
285	265	20	327	77
259	265	-6	327	78
247	265	-18	327	79
263	265	-2	327	80
253	265	-12	327	81
241	265	-24	327	82
256	265	-9	327	83
238	265	-27	327	84
261	265	-4	327	85
261	265	-4	327	86
255	265	-10	327	87
213	265	-52	327	88
258	265	-7	327	89
253	265	-12	327	90
261	265	-4	327	91
256	265	-9	327	92
259	265	-6	327	93
272	265	7	328	93
262	265	-3	328	94
265	265	0	328	94
224	265	-41	328	95
222	265	-43	328	96
190	265	-75	328	97
211	265	-54	328	98
232	265	-33	328	99
270	265	5	329	99
276	265	11	330	99
232	265	-33	330	100
187	265	-78	330	101
243	265	-22	330	102
582	265	317	331	102
421	265	156	332	102

322	265	57	333	102
302	265	37	334	102
352	265	87	335	102
248	265	-17	335	103
428	265	163	336	103
439	265	174	337	103
1300	265	1035	338	103
276	265	11	339	103

259	285	-26	339	104
247	285	-38	339	105
263	285	-22	339	106
253	285	-32	339	107
241	285	-44	339	108
256	285	-29	339	109
238	285	-47	339	110
261	285	-24	339	111
261	285	-24	339	112
255	285	-30	339	113
213	285	-72	339	114
258	285	-27	339	115
253	285	-32	339	116
261	285	-24	339	117
256	285	-29	339	118
259	285	-26	339	119
272	285	-13	339	120
262	285	-23	339	121
265	285	-20	339	122
224	285	-61	339	123
222	285	-63	339	124
190	285	-95	339	125
211	285	-74	339	126
232	285	-53	339	127
270	285	-15	339	128
276	285	-9	339	129
232	285	-53	339	130
187	285	-98	339	131
243	285	-42	339	132
582	285	297	340	132
421	285	136	341	132
322	285	37	342	132
302	285	17	343	132
352	285	67	344	132
248	285	-37	344	133
428	285	143	345	133
439	285	154	346	133
1300	285	1015	347	133
276	285	-9	347	134

247	259	-12	347	135
263	259	4	348	135
253	259	-6	348	136
241	259	-18	348	137
256	259	-3	348	138
238	259	-21	348	139
261	259	2	349	139
261	259	2	350	139

255	259	-4	350	140
213	259	-46	350	141
258	259	-1	350	142
253	259	-6	350	143
261	259	2	351	143
256	259	-3	351	144
259	259	0	351	144
272	259	13	352	144
262	259	3	353	144
265	259	6	354	144
224	259	-35	354	145
222	259	-37	354	146
190	259	-69	354	147
211	259	-48	354	148
232	259	-27	354	149
270	259	11	355	149
276	259	17	356	149
232	259	-27	356	150
187	259	-72	356	151
243	259	-16	356	152
582	259	323	357	152
421	259	162	358	152
322	259	63	359	152
302	259	43	360	152
352	259	93	361	152
248	259	-11	361	153
428	259	169	362	153
439	259	180	363	153
1300	259	1041	364	153
276	259	17	365	153

263	247	16	366	153
253	247	6	367	153
241	247	-6	367	154
256	247	9	368	154
238	247	-9	368	155
261	247	14	369	155
261	247	14	370	155
255	247	8	371	155
213	247	-34	371	156
258	247	11	372	156
253	247	6	373	156
261	247	14	374	156
256	247	9	375	156
259	247	12	376	156
272	247	25	377	156
262	247	15	378	156
265	247	18	379	156
224	247	-23	379	157
222	247	-25	379	158
190	247	-57	379	159
211	247	-36	379	160
232	247	-15	379	161
270	247	23	380	161
276	247	29	381	161
232	247	-15	381	162
187	247	-60	381	163

243	247	-4	381	164
582	247	335	382	164
421	247	174	383	164
322	247	75	384	164
302	247	55	385	164
352	247	105	386	164
248	247	1	387	164
428	247	181	388	164
439	247	192	389	164
1300	247	1053	390	164
276	247	29	391	164

253	263	-10	391	165
241	263	-22	391	166
256	263	-7	391	167
238	263	-25	391	168
261	263	-2	391	169
261	263	-2	391	170
255	263	-8	391	171
213	263	-50	391	172
258	263	-5	391	173
253	263	-10	391	174
261	263	-2	391	175
256	263	-7	391	176
259	263	-4	391	177
272	263	9	392	177
262	263	-1	392	178
265	263	2	393	178
224	263	-39	393	179
222	263	-41	393	180
190	263	-73	393	181
211	263	-52	393	182
232	263	-31	393	183
270	263	7	394	183
276	263	13	395	183
232	263	-31	395	184
187	263	-76	395	185
243	263	-20	395	186
582	263	319	396	186
421	263	158	397	186
322	263	59	398	186
302	263	39	399	186
352	263	89	400	186
248	263	-15	400	187
428	263	165	401	187
439	263	176	402	187
1300	263	1037	403	187
276	263	13	404	187

241	253	-12	404	188
256	253	3	405	188
238	253	-15	405	189
261	253	8	406	189
261	253	8	407	189
255	253	2	408	189
213	253	-40	408	190
258	253	5	409	190

253	253	0	409	190
261	253	8	410	190
256	253	3	411	190
259	253	6	412	190
272	253	19	413	190
262	253	9	414	190
265	253	12	415	190
224	253	-29	415	191
222	253	-31	415	192
190	253	-63	415	193
211	253	-42	415	194
232	253	-21	415	195
270	253	17	416	195
276	253	23	417	195
232	253	-21	417	196
187	253	-66	417	197
243	253	-10	417	198
582	253	329	418	198
421	253	168	419	198
322	253	69	420	198
302	253	49	421	198
352	253	99	422	198
248	253	-5	422	199
428	253	175	423	199
439	253	186	424	199
1300	253	1047	425	199
276	253	23	426	199

256	241	15	427	199
238	241	-3	427	200
261	241	20	428	200
261	241	20	429	200
255	241	14	430	200
213	241	-28	430	201
258	241	17	431	201
253	241	12	432	201
261	241	20	433	201
256	241	15	434	201
259	241	18	435	201
272	241	31	436	201
262	241	21	437	201
265	241	24	438	201
224	241	-17	438	202
222	241	-19	438	203
190	241	-51	438	204
211	241	-30	438	205
232	241	-9	438	206
270	241	29	439	206
276	241	35	440	206
232	241	-9	440	207
187	241	-54	440	208
243	241	2	441	208
582	241	341	442	208
421	241	180	443	208
322	241	81	444	208
302	241	61	445	208
352	241	111	446	208

248	241	7	447	208
428	241	187	448	208
439	241	198	449	208
1300	241	1059	450	208
276	241	35	451	208

238	256	-18	451	209
261	256	5	452	209
261	256	5	453	209
255	256	-1	453	210
213	256	-43	453	211
258	256	2	454	211
253	256	-3	454	212
261	256	5	455	212
256	256	0	455	212
259	256	3	456	212
272	256	16	457	212
262	256	6	458	212
265	256	9	459	212
224	256	-32	459	213
222	256	-34	459	214
190	256	-66	459	215
211	256	-45	459	216
232	256	-24	459	217
270	256	14	460	217
276	256	20	461	217
232	256	-24	461	218
187	256	-69	461	219
243	256	-13	461	220
582	256	326	462	220
421	256	165	463	220
322	256	66	464	220
302	256	46	465	220
352	256	96	466	220
248	256	-8	466	221
428	256	172	467	221
439	256	183	468	221
1300	256	1044	469	221
276	256	20	470	221

261	238	23	471	221
261	238	23	472	221
255	238	17	473	221
213	238	-25	473	222
258	238	20	474	222
253	238	15	475	222
261	238	23	476	222
256	238	18	477	222
259	238	21	478	222
272	238	34	479	222
262	238	24	480	222
265	238	27	481	222
224	238	-14	481	223
222	238	-16	481	224
190	238	-48	481	225
211	238	-27	481	226
232	238	-6	481	227

270	238	32	482	227
276	238	38	483	227
232	238	-6	483	228
187	238	-51	483	229
243	238	5	484	229
582	238	344	485	229
421	238	183	486	229
322	238	84	487	229
302	238	64	488	229
352	238	114	489	229
248	238	10	490	229
428	238	190	491	229
439	238	201	492	229
1300	238	1062	493	229
276	238	38	494	229

261	261	0	494	229
255	261	-6	494	230
213	261	-48	494	231
258	261	-3	494	232
253	261	-8	494	233
261	261	0	494	233
256	261	-5	494	234
259	261	-2	494	235
272	261	11	495	235
262	261	1	496	235
265	261	4	497	235
224	261	-37	497	236
222	261	-39	497	237
190	261	-71	497	238
211	261	-50	497	239
232	261	-29	497	240
270	261	9	498	240
276	261	15	499	240
232	261	-29	499	241
187	261	-74	499	242
243	261	-18	499	243
582	261	321	500	243
421	261	160	501	243
322	261	61	502	243
302	261	41	503	243
352	261	91	504	243
248	261	-13	504	244
428	261	167	505	244
439	261	178	506	244
1300	261	1039	507	244
276	261	15	508	244

255	261	-6	508	245
213	261	-48	508	246
258	261	-3	508	247
253	261	-8	508	248
261	261	0	508	248
256	261	-5	508	249
259	261	-2	508	250
272	261	11	509	250
262	261	1	510	250

265	261	4	511	250
224	261	-37	511	251
222	261	-39	511	252
190	261	-71	511	253
211	261	-50	511	254
232	261	-29	511	255
270	261	9	512	255
276	261	15	513	255
232	261	-29	513	256
187	261	-74	513	257
243	261	-18	513	258
582	261	321	514	258
421	261	160	515	258
322	261	61	516	258
302	261	41	517	258
352	261	91	518	258
248	261	-13	518	259
428	261	167	519	259
439	261	178	520	259
1300	261	1039	521	259
276	261	15	522	259

213	255	-42	522	260
258	255	3	523	260
253	255	-2	523	261
261	255	6	524	261
256	255	1	525	261
259	255	4	526	261
272	255	17	527	261
262	255	7	528	261
265	255	10	529	261
224	255	-31	529	262
222	255	-33	529	263
190	255	-65	529	264
211	255	-44	529	265
232	255	-23	529	266
270	255	15	530	266
276	255	21	531	266
232	255	-23	531	267
187	255	-68	531	268
243	255	-12	531	269
582	255	327	532	269
421	255	166	533	269
322	255	67	534	269
302	255	47	535	269
352	255	97	536	269
248	255	-7	536	270
428	255	173	537	270
439	255	184	538	270
1300	255	1045	539	270
276	255	21	540	270

258	213	45	541	270
253	213	40	542	270
261	213	48	543	270
256	213	43	544	270
259	213	46	545	270

272	213	59	546	270
262	213	49	547	270
265	213	52	548	270
224	213	11	549	270
222	213	9	550	270
190	213	-23	550	271
211	213	-2	550	272
232	213	19	551	272
270	213	57	552	272
276	213	63	553	272
232	213	19	554	272
187	213	-26	554	273
243	213	30	555	273
582	213	369	556	273
421	213	208	557	273
322	213	109	558	273
302	213	89	559	273
352	213	139	560	273
248	213	35	561	273
428	213	215	562	273
439	213	226	563	273
1300	213	1087	564	273
276	213	63	565	273
253	258	-5	565	274
261	258	3	566	274
256	258	-2	566	275
259	258	1	567	275
272	258	14	568	275
262	258	4	569	275
265	258	7	570	275
224	258	-34	570	276
222	258	-36	570	277
190	258	-68	570	278
211	258	-47	570	279
232	258	-26	570	280
270	258	12	571	280
276	258	18	572	280
232	258	-26	572	281
187	258	-71	572	282
243	258	-15	572	283
582	258	324	573	283
421	258	163	574	283
322	258	64	575	283
302	258	44	576	283
352	258	94	577	283
248	258	-10	577	284
428	258	170	578	284
439	258	181	579	284
1300	258	1042	580	284
276	258	18	581	284
261	253	8	582	284
256	253	3	583	284
259	253	6	584	284
272	253	19	585	284
262	253	9	586	284

265	253	12	587	284
224	253	-29	587	285
222	253	-31	587	286
190	253	-63	587	287
211	253	-42	587	288
232	253	-21	587	289
270	253	17	588	289
276	253	23	589	289
232	253	-21	589	290
187	253	-66	589	291
243	253	-10	589	292
582	253	329	590	292
421	253	168	591	292
322	253	69	592	292
302	253	49	593	292
352	253	99	594	292
248	253	-5	594	293
428	253	175	595	293
439	253	186	596	293
1300	253	1047	597	293
276	253	23	598	293

256	261	-5	598	294
259	261	-2	598	295
272	261	11	599	295
262	261	1	600	295
265	261	4	601	295
224	261	-37	601	296
222	261	-39	601	297
190	261	-71	601	298
211	261	-50	601	299
232	261	-29	601	300
270	261	9	602	300
276	261	15	603	300
232	261	-29	603	301
187	261	-74	603	302
243	261	-18	603	303
582	261	321	604	303
421	261	160	605	303
322	261	61	606	303
302	261	41	607	303
352	261	91	608	303
248	261	-13	608	304
428	261	167	609	304
439	261	178	610	304
1300	261	1039	611	304
276	261	15	612	304

259	256	3	613	304
272	256	16	614	304
262	256	6	615	304
265	256	9	616	304
224	256	-32	616	305
222	256	-34	616	306
190	256	-66	616	307
211	256	-45	616	308
232	256	-24	616	309

270	256	14	617	309
276	256	20	618	309
232	256	-24	618	310
187	256	-69	618	311
243	256	-13	618	312
582	256	326	619	312
421	256	165	620	312
322	256	66	621	312
302	256	46	622	312
352	256	96	623	312
248	256	-8	623	313
428	256	172	624	313
439	256	183	625	313
1300	256	1044	626	313
276	256	20	627	313

272	259	13	628	313
262	259	3	629	313
265	259	6	630	313
224	259	-35	630	314
222	259	-37	630	315
190	259	-69	630	316
211	259	-48	630	317
232	259	-27	630	318
270	259	11	631	318
276	259	17	632	318
232	259	-27	632	319
187	259	-72	632	320
243	259	-16	632	321
582	259	323	633	321
421	259	162	634	321
322	259	63	635	321
302	259	43	636	321
352	259	93	637	321
248	259	-11	637	322
428	259	169	638	322
439	259	180	639	322
1300	259	1041	640	322
276	259	17	641	322

262	272	-10	641	323
265	272	-7	641	324
224	272	-48	641	325
222	272	-50	641	326
190	272	-82	641	327
211	272	-61	641	328
232	272	-40	641	329
270	272	-2	641	330
276	272	4	642	330
232	272	-40	642	331
187	272	-85	642	332
243	272	-29	642	333
582	272	310	643	333
421	272	149	644	333
322	272	50	645	333
302	272	30	646	333
352	272	80	647	333

248	272	-24	647	334
428	272	156	648	334
439	272	167	649	334
1300	272	1028	650	334
276	272	4	651	334

265	262	3	652	334
224	262	-38	652	335
222	262	-40	652	336
190	262	-72	652	337
211	262	-51	652	338
232	262	-30	652	339
270	262	8	653	339
276	262	14	654	339
232	262	-30	654	340
187	262	-75	654	341
243	262	-19	654	342
582	262	320	655	342
421	262	159	656	342
322	262	60	657	342
302	262	40	658	342
352	262	90	659	342
248	262	-14	659	343
428	262	166	660	343
439	262	177	661	343
1300	262	1038	662	343
276	262	14	663	343

224	265	-41	663	344
222	265	-43	663	345
190	265	-75	663	346
211	265	-54	663	347
232	265	-33	663	348
270	265	5	664	348
276	265	11	665	348
232	265	-33	665	349
187	265	-78	665	350
243	265	-22	665	351
582	265	317	666	351
421	265	156	667	351
322	265	57	668	351
302	265	37	669	351
352	265	87	670	351
248	265	-17	670	352
428	265	163	671	352
439	265	174	672	352
1300	265	1035	673	352
276	265	11	674	352

222	224	-2	674	353
190	224	-34	674	354
211	224	-13	674	355
232	224	8	675	355
270	224	46	676	355
276	224	52	677	355
232	224	8	678	355
187	224	-37	678	356

243	224	19	679	356
582	224	358	680	356
421	224	197	681	356
322	224	98	682	356
302	224	78	683	356
352	224	128	684	356
248	224	24	685	356
428	224	204	686	356
439	224	215	687	356
1300	224	1076	688	356
276	224	52	689	356

190	222	-32	689	357
211	222	-11	689	358
232	222	10	690	358
270	222	48	691	358
276	222	54	692	358
232	222	10	693	358
187	222	-35	693	359
243	222	21	694	359
582	222	360	695	359
421	222	199	696	359
322	222	100	697	359
302	222	80	698	359
352	222	130	699	359
248	222	26	700	359
428	222	206	701	359
439	222	217	702	359
1300	222	1078	703	359
276	222	54	704	359

211	190	21	705	359
232	190	42	706	359
270	190	80	707	359
276	190	86	708	359
232	190	42	709	359
187	190	-3	709	360
243	190	53	710	360
582	190	392	711	360
421	190	231	712	360
322	190	132	713	360
302	190	112	714	360
352	190	162	715	360
248	190	58	716	360
428	190	238	717	360
439	190	249	718	360
1300	190	1110	719	360
276	190	86	720	360

232	211	21	721	360
270	211	59	722	360
276	211	65	723	360
232	211	21	724	360
187	211	-24	724	361
243	211	32	725	361
582	211	371	726	361
421	211	210	727	361

322	211	111	728	361
302	211	91	729	361
352	211	141	730	361
248	211	37	731	361
428	211	217	732	361
439	211	228	733	361
1300	211	1089	734	361
276	211	65	735	361
270	232	38	736	361
276	232	44	737	361
232	232	0	737	361
187	232	-45	737	362
243	232	11	738	362
582	232	350	739	362
421	232	189	740	362
322	232	90	741	362
302	232	70	742	362
352	232	120	743	362
248	232	16	744	362
428	232	196	745	362
439	232	207	746	362
1300	232	1068	747	362
276	232	44	748	362
276	270	6	749	362
232	270	-38	749	363
187	270	-83	749	364
243	270	-27	749	365
582	270	312	750	365
421	270	151	751	365
322	270	52	752	365
302	270	32	753	365
352	270	82	754	365
248	270	-22	754	366
428	270	158	755	366
439	270	169	756	366
1300	270	1030	757	366
276	270	6	758	366
232	276	-44	758	367
187	276	-89	758	368
243	276	-33	758	369
582	276	306	759	369
421	276	145	760	369
322	276	46	761	369
302	276	26	762	369
352	276	76	763	369
248	276	-28	763	370
428	276	152	764	370
439	276	163	765	370
1300	276	1024	766	370
276	276	0	766	370
187	232	-45	766	371
243	232	11	767	371
582	232	350	768	371

421	232	189	769	371
322	232	90	770	371
302	232	70	771	371
352	232	120	772	371
248	232	16	773	371
428	232	196	774	371
439	232	207	775	371
1300	232	1068	776	371
276	232	44	777	371
243	187	56	778	371
582	187	395	779	371
421	187	234	780	371
322	187	135	781	371
302	187	115	782	371
352	187	165	783	371
248	187	61	784	371
428	187	241	785	371
439	187	252	786	371
1300	187	1113	787	371
276	187	89	788	371
582	243	339	789	371
421	243	178	790	371
322	243	79	791	371
302	243	59	792	371
352	243	109	793	371
248	243	5	794	371
428	243	185	795	371
439	243	196	796	371
1300	243	1057	797	371
276	243	33	798	371
421	582	-161	798	372
322	582	-260	798	373
302	582	-280	798	374
352	582	-230	798	375
248	582	-334	798	376
428	582	-154	798	377
439	582	-143	798	378
1300	582	718	799	378
276	582	-306	799	379
322	421	-99	799	380
302	421	-119	799	381
352	421	-69	799	382
248	421	-173	799	383
428	421	7	800	383
439	421	18	801	383
1300	421	879	802	383
276	421	-145	802	384
302	322	-20	802	385
352	322	30	803	385
248	322	-74	803	386
428	322	106	804	386
439	322	117	805	386

1300	322	978	806	386
276	322	-46	806	387
352	302	50	807	387
248	302	-54	807	388
428	302	126	808	388
439	302	137	809	388
1300	302	998	810	388
276	302	-26	810	389
248	352	-104	810	390
428	352	76	811	390
439	352	87	812	390
1300	352	948	813	390
276	352	-76	813	391
428	248	180	814	391
439	248	191	815	391
1300	248	1052	816	391
276	248	28	817	391
439	428	11	818	391
1300	428	872	819	391
276	428	-152	819	392
1300	439	861	820	392
276	439	-163	820	393
276	1300	-1024	820	394

S Statistic = 820 - 394 = 426

Tied Group	**Value**	**Members**
1	224	2
2	247	2
3	265	2
4	259	2
5	253	2
6	256	2
7	261	3
8	232	2
9	276	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1

1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 210
B = 0
C = 6
D = 0
E = 22
F = 0
a = 257250
b = 1.0584e+006
c = 4900
Group Variance = 14280
Z-Score = 3.55652
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|3.55652| > 2.32634 indicating a trend

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
221	261	-40	0	1
238	261	-23	0	2
211	261	-50	0	3
263	261	2	1	3
256	261	-5	1	4
316	261	55	2	4
259	261	-2	2	5
253	261	-8	2	6
277	261	16	3	6
290	261	29	4	6
260	261	-1	4	7
357	261	96	5	7
283	261	22	6	7
284	261	23	7	7
255	261	-6	7	8
273	261	12	8	8
243	261	-18	8	9
279	261	18	9	9
269	261	8	10	9
266	261	5	11	9
260	261	-1	11	10
262	261	1	12	10
270	261	9	13	10
313	261	52	14	10
265	261	4	15	10
274	261	13	16	10
293	261	32	17	10
267	261	6	18	10
276	261	15	19	10
233	261	-28	19	11
236	261	-25	19	12
207	261	-54	19	13
227	261	-34	19	14
233	261	-28	19	15
267	261	6	20	15
265	261	4	21	15
277	261	16	22	15
256	261	-5	22	16
227	261	-34	22	17
219	261	-42	22	18
254	261	-7	22	19
267	261	6	23	19
279	261	18	24	19
589	261	328	25	19
259	261	-2	25	20
315	261	54	26	20
303.15	261	42.15	27	20

313	261	52	28	20
371	261	110	29	20
270	261	9	30	20
382	261	121	31	20
362	261	101	32	20
423	261	162	33	20
207	261	-54	33	21
283	261	22	34	21
454	261	193	35	21
362	261	101	36	21
505	261	244	37	21
316	261	55	38	21
1130	261	869	39	21
227	261	-34	39	22
ND<3 U	261	-258	39	23

238	221	17	40	23
211	221	-10	40	24
263	221	42	41	24
256	221	35	42	24
316	221	95	43	24
259	221	38	44	24
253	221	32	45	24
277	221	56	46	24
290	221	69	47	24
260	221	39	48	24
357	221	136	49	24
283	221	62	50	24
284	221	63	51	24
255	221	34	52	24
273	221	52	53	24
243	221	22	54	24
279	221	58	55	24
269	221	48	56	24
266	221	45	57	24
260	221	39	58	24
262	221	41	59	24
270	221	49	60	24
313	221	92	61	24
265	221	44	62	24
274	221	53	63	24
293	221	72	64	24
267	221	46	65	24
276	221	55	66	24
233	221	12	67	24
236	221	15	68	24
207	221	-14	68	25
227	221	6	69	25
233	221	12	70	25
267	221	46	71	25
265	221	44	72	25
277	221	56	73	25
256	221	35	74	25
227	221	6	75	25
219	221	-2	75	26
254	221	33	76	26
267	221	46	77	26

279	221	58	78	26
589	221	368	79	26
259	221	38	80	26
315	221	94	81	26
303.15	221	82.15	82	26
313	221	92	83	26
371	221	150	84	26
270	221	49	85	26
382	221	161	86	26
362	221	141	87	26
423	221	202	88	26
207	221	-14	88	27
283	221	62	89	27
454	221	233	90	27
362	221	141	91	27
505	221	284	92	27
316	221	95	93	27
1130	221	909	94	27
227	221	6	95	27
ND<3 U	221	-218	95	28
211	238	-27	95	29
263	238	25	96	29
256	238	18	97	29
316	238	78	98	29
259	238	21	99	29
253	238	15	100	29
277	238	39	101	29
290	238	52	102	29
260	238	22	103	29
357	238	119	104	29
283	238	45	105	29
284	238	46	106	29
255	238	17	107	29
273	238	35	108	29
243	238	5	109	29
279	238	41	110	29
269	238	31	111	29
266	238	28	112	29
260	238	22	113	29
262	238	24	114	29
270	238	32	115	29
313	238	75	116	29
265	238	27	117	29
274	238	36	118	29
293	238	55	119	29
267	238	29	120	29
276	238	38	121	29
233	238	-5	121	30
236	238	-2	121	31
207	238	-31	121	32
227	238	-11	121	33
233	238	-5	121	34
267	238	29	122	34
265	238	27	123	34
277	238	39	124	34
256	238	18	125	34

227	238	-11	125	35
219	238	-19	125	36
254	238	16	126	36
267	238	29	127	36
279	238	41	128	36
589	238	351	129	36
259	238	21	130	36
315	238	77	131	36
303.15	238	65.15	132	36
313	238	75	133	36
371	238	133	134	36
270	238	32	135	36
382	238	144	136	36
362	238	124	137	36
423	238	185	138	36
207	238	-31	138	37
283	238	45	139	37
454	238	216	140	37
362	238	124	141	37
505	238	267	142	37
316	238	78	143	37
1130	238	892	144	37
227	238	-11	144	38
ND<3 U	238	-235	144	39

263	211	52	145	39
256	211	45	146	39
316	211	105	147	39
259	211	48	148	39
253	211	42	149	39
277	211	66	150	39
290	211	79	151	39
260	211	49	152	39
357	211	146	153	39
283	211	72	154	39
284	211	73	155	39
255	211	44	156	39
273	211	62	157	39
243	211	32	158	39
279	211	68	159	39
269	211	58	160	39
266	211	55	161	39
260	211	49	162	39
262	211	51	163	39
270	211	59	164	39
313	211	102	165	39
265	211	54	166	39
274	211	63	167	39
293	211	82	168	39
267	211	56	169	39
276	211	65	170	39
233	211	22	171	39
236	211	25	172	39
207	211	-4	172	40
227	211	16	173	40
233	211	22	174	40
267	211	56	175	40

265	211	54	176	40
277	211	66	177	40
256	211	45	178	40
227	211	16	179	40
219	211	8	180	40
254	211	43	181	40
267	211	56	182	40
279	211	68	183	40
589	211	378	184	40
259	211	48	185	40
315	211	104	186	40
303.15	211	92.15	187	40
313	211	102	188	40
371	211	160	189	40
270	211	59	190	40
382	211	171	191	40
362	211	151	192	40
423	211	212	193	40
207	211	-4	193	41
283	211	72	194	41
454	211	243	195	41
362	211	151	196	41
505	211	294	197	41
316	211	105	198	41
1130	211	919	199	41
227	211	16	200	41
ND<3 U	211	-208	200	42

256	263	-7	200	43
316	263	53	201	43
259	263	-4	201	44
253	263	-10	201	45
277	263	14	202	45
290	263	27	203	45
260	263	-3	203	46
357	263	94	204	46
283	263	20	205	46
284	263	21	206	46
255	263	-8	206	47
273	263	10	207	47
243	263	-20	207	48
279	263	16	208	48
269	263	6	209	48
266	263	3	210	48
260	263	-3	210	49
262	263	-1	210	50
270	263	7	211	50
313	263	50	212	50
265	263	2	213	50
274	263	11	214	50
293	263	30	215	50
267	263	4	216	50
276	263	13	217	50
233	263	-30	217	51
236	263	-27	217	52
207	263	-56	217	53
227	263	-36	217	54

233	263	-30	217	55
267	263	4	218	55
265	263	2	219	55
277	263	14	220	55
256	263	-7	220	56
227	263	-36	220	57
219	263	-44	220	58
254	263	-9	220	59
267	263	4	221	59
279	263	16	222	59
589	263	326	223	59
259	263	-4	223	60
315	263	52	224	60
303.15	263	40.15	225	60
313	263	50	226	60
371	263	108	227	60
270	263	7	228	60
382	263	119	229	60
362	263	99	230	60
423	263	160	231	60
207	263	-56	231	61
283	263	20	232	61
454	263	191	233	61
362	263	99	234	61
505	263	242	235	61
316	263	53	236	61
1130	263	867	237	61
227	263	-36	237	62
ND<3 U	263	-260	237	63
316	256	60	238	63
259	256	3	239	63
253	256	-3	239	64
277	256	21	240	64
290	256	34	241	64
260	256	4	242	64
357	256	101	243	64
283	256	27	244	64
284	256	28	245	64
255	256	-1	245	65
273	256	17	246	65
243	256	-13	246	66
279	256	23	247	66
269	256	13	248	66
266	256	10	249	66
260	256	4	250	66
262	256	6	251	66
270	256	14	252	66
313	256	57	253	66
265	256	9	254	66
274	256	18	255	66
293	256	37	256	66
267	256	11	257	66
276	256	20	258	66
233	256	-23	258	67
236	256	-20	258	68
207	256	-49	258	69

227	256	-29	258	70
233	256	-23	258	71
267	256	11	259	71
265	256	9	260	71
277	256	21	261	71
256	256	0	261	71
227	256	-29	261	72
219	256	-37	261	73
254	256	-2	261	74
267	256	11	262	74
279	256	23	263	74
589	256	333	264	74
259	256	3	265	74
315	256	59	266	74
303.15	256	47.15	267	74
313	256	57	268	74
371	256	115	269	74
270	256	14	270	74
382	256	126	271	74
362	256	106	272	74
423	256	167	273	74
207	256	-49	273	75
283	256	27	274	75
454	256	198	275	75
362	256	106	276	75
505	256	249	277	75
316	256	60	278	75
1130	256	874	279	75
227	256	-29	279	76
ND<3 U	256	-253	279	77
259	316	-57	279	78
253	316	-63	279	79
277	316	-39	279	80
290	316	-26	279	81
260	316	-56	279	82
357	316	41	280	82
283	316	-33	280	83
284	316	-32	280	84
255	316	-61	280	85
273	316	-43	280	86
243	316	-73	280	87
279	316	-37	280	88
269	316	-47	280	89
266	316	-50	280	90
260	316	-56	280	91
262	316	-54	280	92
270	316	-46	280	93
313	316	-3	280	94
265	316	-51	280	95
274	316	-42	280	96
293	316	-23	280	97
267	316	-49	280	98
276	316	-40	280	99
233	316	-83	280	100
236	316	-80	280	101
207	316	-109	280	102

227	316	-89	280	103
233	316	-83	280	104
267	316	-49	280	105
265	316	-51	280	106
277	316	-39	280	107
256	316	-60	280	108
227	316	-89	280	109
219	316	-97	280	110
254	316	-62	280	111
267	316	-49	280	112
279	316	-37	280	113
589	316	273	281	113
259	316	-57	281	114
315	316	-1	281	115
303.15	316	-12.85	281	116
313	316	-3	281	117
371	316	55	282	117
270	316	-46	282	118
382	316	66	283	118
362	316	46	284	118
423	316	107	285	118
207	316	-109	285	119
283	316	-33	285	120
454	316	138	286	120
362	316	46	287	120
505	316	189	288	120
316	316	0	288	120
1130	316	814	289	120
227	316	-89	289	121
ND<3 U	316	-313	289	122
253	259	-6	289	123
277	259	18	290	123
290	259	31	291	123
260	259	1	292	123
357	259	98	293	123
283	259	24	294	123
284	259	25	295	123
255	259	-4	295	124
273	259	14	296	124
243	259	-16	296	125
279	259	20	297	125
269	259	10	298	125
266	259	7	299	125
260	259	1	300	125
262	259	3	301	125
270	259	11	302	125
313	259	54	303	125
265	259	6	304	125
274	259	15	305	125
293	259	34	306	125
267	259	8	307	125
276	259	17	308	125
233	259	-26	308	126
236	259	-23	308	127
207	259	-52	308	128
227	259	-32	308	129

233	259	-26	308	130
267	259	8	309	130
265	259	6	310	130
277	259	18	311	130
256	259	-3	311	131
227	259	-32	311	132
219	259	-40	311	133
254	259	-5	311	134
267	259	8	312	134
279	259	20	313	134
589	259	330	314	134
259	259	0	314	134
315	259	56	315	134
303.15	259	44.15	316	134
313	259	54	317	134
371	259	112	318	134
270	259	11	319	134
382	259	123	320	134
362	259	103	321	134
423	259	164	322	134
207	259	-52	322	135
283	259	24	323	135
454	259	195	324	135
362	259	103	325	135
505	259	246	326	135
316	259	57	327	135
1130	259	871	328	135
227	259	-32	328	136
ND<3 U	259	-256	328	137
277	253	24	329	137
290	253	37	330	137
260	253	7	331	137
357	253	104	332	137
283	253	30	333	137
284	253	31	334	137
255	253	2	335	137
273	253	20	336	137
243	253	-10	336	138
279	253	26	337	138
269	253	16	338	138
266	253	13	339	138
260	253	7	340	138
262	253	9	341	138
270	253	17	342	138
313	253	60	343	138
265	253	12	344	138
274	253	21	345	138
293	253	40	346	138
267	253	14	347	138
276	253	23	348	138
233	253	-20	348	139
236	253	-17	348	140
207	253	-46	348	141
227	253	-26	348	142
233	253	-20	348	143
267	253	14	349	143

265	253	12	350	143
277	253	24	351	143
256	253	3	352	143
227	253	-26	352	144
219	253	-34	352	145
254	253	1	353	145
267	253	14	354	145
279	253	26	355	145
589	253	336	356	145
259	253	6	357	145
315	253	62	358	145
303.15	253	50.15	359	145
313	253	60	360	145
371	253	118	361	145
270	253	17	362	145
382	253	129	363	145
362	253	109	364	145
423	253	170	365	145
207	253	-46	365	146
283	253	30	366	146
454	253	201	367	146
362	253	109	368	146
505	253	252	369	146
316	253	63	370	146
1130	253	877	371	146
227	253	-26	371	147
ND<3 U	253	-250	371	148
290	277	13	372	148
260	277	-17	372	149
357	277	80	373	149
283	277	6	374	149
284	277	7	375	149
255	277	-22	375	150
273	277	-4	375	151
243	277	-34	375	152
279	277	2	376	152
269	277	-8	376	153
266	277	-11	376	154
260	277	-17	376	155
262	277	-15	376	156
270	277	-7	376	157
313	277	36	377	157
265	277	-12	377	158
274	277	-3	377	159
293	277	16	378	159
267	277	-10	378	160
276	277	-1	378	161
233	277	-44	378	162
236	277	-41	378	163
207	277	-70	378	164
227	277	-50	378	165
233	277	-44	378	166
267	277	-10	378	167
265	277	-12	378	168
277	277	0	378	168
256	277	-21	378	169

227	277	-50	378	170
219	277	-58	378	171
254	277	-23	378	172
267	277	-10	378	173
279	277	2	379	173
589	277	312	380	173
259	277	-18	380	174
315	277	38	381	174
303.15	277	26.15	382	174
313	277	36	383	174
371	277	94	384	174
270	277	-7	384	175
382	277	105	385	175
362	277	85	386	175
423	277	146	387	175
207	277	-70	387	176
283	277	6	388	176
454	277	177	389	176
362	277	85	390	176
505	277	228	391	176
316	277	39	392	176
1130	277	853	393	176
227	277	-50	393	177
ND<3 U	277	-274	393	178
260	290	-30	393	179
357	290	67	394	179
283	290	-7	394	180
284	290	-6	394	181
255	290	-35	394	182
273	290	-17	394	183
243	290	-47	394	184
279	290	-11	394	185
269	290	-21	394	186
266	290	-24	394	187
260	290	-30	394	188
262	290	-28	394	189
270	290	-20	394	190
313	290	23	395	190
265	290	-25	395	191
274	290	-16	395	192
293	290	3	396	192
267	290	-23	396	193
276	290	-14	396	194
233	290	-57	396	195
236	290	-54	396	196
207	290	-83	396	197
227	290	-63	396	198
233	290	-57	396	199
267	290	-23	396	200
265	290	-25	396	201
277	290	-13	396	202
256	290	-34	396	203
227	290	-63	396	204
219	290	-71	396	205
254	290	-36	396	206
267	290	-23	396	207

279	290	-11	396	208
589	290	299	397	208
259	290	-31	397	209
315	290	25	398	209
303.15	290	13.15	399	209
313	290	23	400	209
371	290	81	401	209
270	290	-20	401	210
382	290	92	402	210
362	290	72	403	210
423	290	133	404	210
207	290	-83	404	211
283	290	-7	404	212
454	290	164	405	212
362	290	72	406	212
505	290	215	407	212
316	290	26	408	212
1130	290	840	409	212
227	290	-63	409	213
ND<3 U	290	-287	409	214
357	260	97	410	214
283	260	23	411	214
284	260	24	412	214
255	260	-5	412	215
273	260	13	413	215
243	260	-17	413	216
279	260	19	414	216
269	260	9	415	216
266	260	6	416	216
260	260	0	416	216
262	260	2	417	216
270	260	10	418	216
313	260	53	419	216
265	260	5	420	216
274	260	14	421	216
293	260	33	422	216
267	260	7	423	216
276	260	16	424	216
233	260	-27	424	217
236	260	-24	424	218
207	260	-53	424	219
227	260	-33	424	220
233	260	-27	424	221
267	260	7	425	221
265	260	5	426	221
277	260	17	427	221
256	260	-4	427	222
227	260	-33	427	223
219	260	-41	427	224
254	260	-6	427	225
267	260	7	428	225
279	260	19	429	225
589	260	329	430	225
259	260	-1	430	226
315	260	55	431	226
303.15	260	43.15	432	226

313	260	53	433	226
371	260	111	434	226
270	260	10	435	226
382	260	122	436	226
362	260	102	437	226
423	260	163	438	226
207	260	-53	438	227
283	260	23	439	227
454	260	194	440	227
362	260	102	441	227
505	260	245	442	227
316	260	56	443	227
1130	260	870	444	227
227	260	-33	444	228
ND<3 U	260	-257	444	229
283	357	-74	444	230
284	357	-73	444	231
255	357	-102	444	232
273	357	-84	444	233
243	357	-114	444	234
279	357	-78	444	235
269	357	-88	444	236
266	357	-91	444	237
260	357	-97	444	238
262	357	-95	444	239
270	357	-87	444	240
313	357	-44	444	241
265	357	-92	444	242
274	357	-83	444	243
293	357	-64	444	244
267	357	-90	444	245
276	357	-81	444	246
233	357	-124	444	247
236	357	-121	444	248
207	357	-150	444	249
227	357	-130	444	250
233	357	-124	444	251
267	357	-90	444	252
265	357	-92	444	253
277	357	-80	444	254
256	357	-101	444	255
227	357	-130	444	256
219	357	-138	444	257
254	357	-103	444	258
267	357	-90	444	259
279	357	-78	444	260
589	357	232	445	260
259	357	-98	445	261
315	357	-42	445	262
303.15	357	-53.85	445	263
313	357	-44	445	264
371	357	14	446	264
270	357	-87	446	265
382	357	25	447	265
362	357	5	448	265
423	357	66	449	265

207	357	-150	449	266
283	357	-74	449	267
454	357	97	450	267
362	357	5	451	267
505	357	148	452	267
316	357	-41	452	268
1130	357	773	453	268
227	357	-130	453	269
ND<3 U	357	-354	453	270
284	283	1	454	270
255	283	-28	454	271
273	283	-10	454	272
243	283	-40	454	273
279	283	-4	454	274
269	283	-14	454	275
266	283	-17	454	276
260	283	-23	454	277
262	283	-21	454	278
270	283	-13	454	279
313	283	30	455	279
265	283	-18	455	280
274	283	-9	455	281
293	283	10	456	281
267	283	-16	456	282
276	283	-7	456	283
233	283	-50	456	284
236	283	-47	456	285
207	283	-76	456	286
227	283	-56	456	287
233	283	-50	456	288
267	283	-16	456	289
265	283	-18	456	290
277	283	-6	456	291
256	283	-27	456	292
227	283	-56	456	293
219	283	-64	456	294
254	283	-29	456	295
267	283	-16	456	296
279	283	-4	456	297
589	283	306	457	297
259	283	-24	457	298
315	283	32	458	298
303.15	283	20.15	459	298
313	283	30	460	298
371	283	88	461	298
270	283	-13	461	299
382	283	99	462	299
362	283	79	463	299
423	283	140	464	299
207	283	-76	464	300
283	283	0	464	300
454	283	171	465	300
362	283	79	466	300
505	283	222	467	300
316	283	33	468	300
1130	283	847	469	300

227	283	-56	469	301
ND<3 U	283	-280	469	302
255	284	-29	469	303
273	284	-11	469	304
243	284	-41	469	305
279	284	-5	469	306
269	284	-15	469	307
266	284	-18	469	308
260	284	-24	469	309
262	284	-22	469	310
270	284	-14	469	311
313	284	29	470	311
265	284	-19	470	312
274	284	-10	470	313
293	284	9	471	313
267	284	-17	471	314
276	284	-8	471	315
233	284	-51	471	316
236	284	-48	471	317
207	284	-77	471	318
227	284	-57	471	319
233	284	-51	471	320
267	284	-17	471	321
265	284	-19	471	322
277	284	-7	471	323
256	284	-28	471	324
227	284	-57	471	325
219	284	-65	471	326
254	284	-30	471	327
267	284	-17	471	328
279	284	-5	471	329
589	284	305	472	329
259	284	-25	472	330
315	284	31	473	330
303.15	284	19.15	474	330
313	284	29	475	330
371	284	87	476	330
270	284	-14	476	331
382	284	98	477	331
362	284	78	478	331
423	284	139	479	331
207	284	-77	479	332
283	284	-1	479	333
454	284	170	480	333
362	284	78	481	333
505	284	221	482	333
316	284	32	483	333
1130	284	846	484	333
227	284	-57	484	334
ND<3 U	284	-281	484	335
273	255	18	485	335
243	255	-12	485	336
279	255	24	486	336
269	255	14	487	336
266	255	11	488	336

260	255	5	489	336
262	255	7	490	336
270	255	15	491	336
313	255	58	492	336
265	255	10	493	336
274	255	19	494	336
293	255	38	495	336
267	255	12	496	336
276	255	21	497	336
233	255	-22	497	337
236	255	-19	497	338
207	255	-48	497	339
227	255	-28	497	340
233	255	-22	497	341
267	255	12	498	341
265	255	10	499	341
277	255	22	500	341
256	255	1	501	341
227	255	-28	501	342
219	255	-36	501	343
254	255	-1	501	344
267	255	12	502	344
279	255	24	503	344
589	255	334	504	344
259	255	4	505	344
315	255	60	506	344
303.15	255	48.15	507	344
313	255	58	508	344
371	255	116	509	344
270	255	15	510	344
382	255	127	511	344
362	255	107	512	344
423	255	168	513	344
207	255	-48	513	345
283	255	28	514	345
454	255	199	515	345
362	255	107	516	345
505	255	250	517	345
316	255	61	518	345
1130	255	875	519	345
227	255	-28	519	346
ND<3 U	255	-252	519	347
243	273	-30	519	348
279	273	6	520	348
269	273	-4	520	349
266	273	-7	520	350
260	273	-13	520	351
262	273	-11	520	352
270	273	-3	520	353
313	273	40	521	353
265	273	-8	521	354
274	273	1	522	354
293	273	20	523	354
267	273	-6	523	355
276	273	3	524	355
233	273	-40	524	356

236	273	-37	524	357
207	273	-66	524	358
227	273	-46	524	359
233	273	-40	524	360
267	273	-6	524	361
265	273	-8	524	362
277	273	4	525	362
256	273	-17	525	363
227	273	-46	525	364
219	273	-54	525	365
254	273	-19	525	366
267	273	-6	525	367
279	273	6	526	367
589	273	316	527	367
259	273	-14	527	368
315	273	42	528	368
303.15	273	30.15	529	368
313	273	40	530	368
371	273	98	531	368
270	273	-3	531	369
382	273	109	532	369
362	273	89	533	369
423	273	150	534	369
207	273	-66	534	370
283	273	10	535	370
454	273	181	536	370
362	273	89	537	370
505	273	232	538	370
316	273	43	539	370
1130	273	857	540	370
227	273	-46	540	371
ND<3 U	273	-270	540	372
279	243	36	541	372
269	243	26	542	372
266	243	23	543	372
260	243	17	544	372
262	243	19	545	372
270	243	27	546	372
313	243	70	547	372
265	243	22	548	372
274	243	31	549	372
293	243	50	550	372
267	243	24	551	372
276	243	33	552	372
233	243	-10	552	373
236	243	-7	552	374
207	243	-36	552	375
227	243	-16	552	376
233	243	-10	552	377
267	243	24	553	377
265	243	22	554	377
277	243	34	555	377
256	243	13	556	377
227	243	-16	556	378
219	243	-24	556	379
254	243	11	557	379

267	243	24	558	379
279	243	36	559	379
589	243	346	560	379
259	243	16	561	379
315	243	72	562	379
303.15	243	60.15	563	379
313	243	70	564	379
371	243	128	565	379
270	243	27	566	379
382	243	139	567	379
362	243	119	568	379
423	243	180	569	379
207	243	-36	569	380
283	243	40	570	380
454	243	211	571	380
362	243	119	572	380
505	243	262	573	380
316	243	73	574	380
1130	243	887	575	380
227	243	-16	575	381
ND<3 U	243	-240	575	382
269	279	-10	575	383
266	279	-13	575	384
260	279	-19	575	385
262	279	-17	575	386
270	279	-9	575	387
313	279	34	576	387
265	279	-14	576	388
274	279	-5	576	389
293	279	14	577	389
267	279	-12	577	390
276	279	-3	577	391
233	279	-46	577	392
236	279	-43	577	393
207	279	-72	577	394
227	279	-52	577	395
233	279	-46	577	396
267	279	-12	577	397
265	279	-14	577	398
277	279	-2	577	399
256	279	-23	577	400
227	279	-52	577	401
219	279	-60	577	402
254	279	-25	577	403
267	279	-12	577	404
279	279	0	577	404
589	279	310	578	404
259	279	-20	578	405
315	279	36	579	405
303.15	279	24.15	580	405
313	279	34	581	405
371	279	92	582	405
270	279	-9	582	406
382	279	103	583	406
362	279	83	584	406
423	279	144	585	406

207	279	-72	585	407
283	279	4	586	407
454	279	175	587	407
362	279	83	588	407
505	279	226	589	407
316	279	37	590	407
1130	279	851	591	407
227	279	-52	591	408
ND<3 U	279	-276	591	409
266	269	-3	591	410
260	269	-9	591	411
262	269	-7	591	412
270	269	1	592	412
313	269	44	593	412
265	269	-4	593	413
274	269	5	594	413
293	269	24	595	413
267	269	-2	595	414
276	269	7	596	414
233	269	-36	596	415
236	269	-33	596	416
207	269	-62	596	417
227	269	-42	596	418
233	269	-36	596	419
267	269	-2	596	420
265	269	-4	596	421
277	269	8	597	421
256	269	-13	597	422
227	269	-42	597	423
219	269	-50	597	424
254	269	-15	597	425
267	269	-2	597	426
279	269	10	598	426
589	269	320	599	426
259	269	-10	599	427
315	269	46	600	427
303.15	269	34.15	601	427
313	269	44	602	427
371	269	102	603	427
270	269	1	604	427
382	269	113	605	427
362	269	93	606	427
423	269	154	607	427
207	269	-62	607	428
283	269	14	608	428
454	269	185	609	428
362	269	93	610	428
505	269	236	611	428
316	269	47	612	428
1130	269	861	613	428
227	269	-42	613	429
ND<3 U	269	-266	613	430
260	266	-6	613	431
262	266	-4	613	432
270	266	4	614	432

313	266	47	615	432
265	266	-1	615	433
274	266	8	616	433
293	266	27	617	433
267	266	1	618	433
276	266	10	619	433
233	266	-33	619	434
236	266	-30	619	435
207	266	-59	619	436
227	266	-39	619	437
233	266	-33	619	438
267	266	1	620	438
265	266	-1	620	439
277	266	11	621	439
256	266	-10	621	440
227	266	-39	621	441
219	266	-47	621	442
254	266	-12	621	443
267	266	1	622	443
279	266	13	623	443
589	266	323	624	443
259	266	-7	624	444
315	266	49	625	444
303.15	266	37.15	626	444
313	266	47	627	444
371	266	105	628	444
270	266	4	629	444
382	266	116	630	444
362	266	96	631	444
423	266	157	632	444
207	266	-59	632	445
283	266	17	633	445
454	266	188	634	445
362	266	96	635	445
505	266	239	636	445
316	266	50	637	445
1130	266	864	638	445
227	266	-39	638	446
ND<3 U	266	-263	638	447
262	260	2	639	447
270	260	10	640	447
313	260	53	641	447
265	260	5	642	447
274	260	14	643	447
293	260	33	644	447
267	260	7	645	447
276	260	16	646	447
233	260	-27	646	448
236	260	-24	646	449
207	260	-53	646	450
227	260	-33	646	451
233	260	-27	646	452
267	260	7	647	452
265	260	5	648	452
277	260	17	649	452
256	260	-4	649	453

227	260	-33	649	454
219	260	-41	649	455
254	260	-6	649	456
267	260	7	650	456
279	260	19	651	456
589	260	329	652	456
259	260	-1	652	457
315	260	55	653	457
303.15	260	43.15	654	457
313	260	53	655	457
371	260	111	656	457
270	260	10	657	457
382	260	122	658	457
362	260	102	659	457
423	260	163	660	457
207	260	-53	660	458
283	260	23	661	458
454	260	194	662	458
362	260	102	663	458
505	260	245	664	458
316	260	56	665	458
1130	260	870	666	458
227	260	-33	666	459
ND<3 U	260	-257	666	460
270	262	8	667	460
313	262	51	668	460
265	262	3	669	460
274	262	12	670	460
293	262	31	671	460
267	262	5	672	460
276	262	14	673	460
233	262	-29	673	461
236	262	-26	673	462
207	262	-55	673	463
227	262	-35	673	464
233	262	-29	673	465
267	262	5	674	465
265	262	3	675	465
277	262	15	676	465
256	262	-6	676	466
227	262	-35	676	467
219	262	-43	676	468
254	262	-8	676	469
267	262	5	677	469
279	262	17	678	469
589	262	327	679	469
259	262	-3	679	470
315	262	53	680	470
303.15	262	41.15	681	470
313	262	51	682	470
371	262	109	683	470
270	262	8	684	470
382	262	120	685	470
362	262	100	686	470
423	262	161	687	470
207	262	-55	687	471

283	262	21	688	471
454	262	192	689	471
362	262	100	690	471
505	262	243	691	471
316	262	54	692	471
1130	262	868	693	471
227	262	-35	693	472
ND<3 U	262	-259	693	473
313	270	43	694	473
265	270	-5	694	474
274	270	4	695	474
293	270	23	696	474
267	270	-3	696	475
276	270	6	697	475
233	270	-37	697	476
236	270	-34	697	477
207	270	-63	697	478
227	270	-43	697	479
233	270	-37	697	480
267	270	-3	697	481
265	270	-5	697	482
277	270	7	698	482
256	270	-14	698	483
227	270	-43	698	484
219	270	-51	698	485
254	270	-16	698	486
267	270	-3	698	487
279	270	9	699	487
589	270	319	700	487
259	270	-11	700	488
315	270	45	701	488
303.15	270	33.15	702	488
313	270	43	703	488
371	270	101	704	488
270	270	0	704	488
382	270	112	705	488
362	270	92	706	488
423	270	153	707	488
207	270	-63	707	489
283	270	13	708	489
454	270	184	709	489
362	270	92	710	489
505	270	235	711	489
316	270	46	712	489
1130	270	860	713	489
227	270	-43	713	490
ND<3 U	270	-267	713	491
265	313	-48	713	492
274	313	-39	713	493
293	313	-20	713	494
267	313	-46	713	495
276	313	-37	713	496
233	313	-80	713	497
236	313	-77	713	498
207	313	-106	713	499

227	313	-86	713	500
233	313	-80	713	501
267	313	-46	713	502
265	313	-48	713	503
277	313	-36	713	504
256	313	-57	713	505
227	313	-86	713	506
219	313	-94	713	507
254	313	-59	713	508
267	313	-46	713	509
279	313	-34	713	510
589	313	276	714	510
259	313	-54	714	511
315	313	2	715	511
303.15	313	-9.85	715	512
313	313	0	715	512
371	313	58	716	512
270	313	-43	716	513
382	313	69	717	513
362	313	49	718	513
423	313	110	719	513
207	313	-106	719	514
283	313	-30	719	515
454	313	141	720	515
362	313	49	721	515
505	313	192	722	515
316	313	3	723	515
1130	313	817	724	515
227	313	-86	724	516
ND<3 U	313	-310	724	517
274	265	9	725	517
293	265	28	726	517
267	265	2	727	517
276	265	11	728	517
233	265	-32	728	518
236	265	-29	728	519
207	265	-58	728	520
227	265	-38	728	521
233	265	-32	728	522
267	265	2	729	522
265	265	0	729	522
277	265	12	730	522
256	265	-9	730	523
227	265	-38	730	524
219	265	-46	730	525
254	265	-11	730	526
267	265	2	731	526
279	265	14	732	526
589	265	324	733	526
259	265	-6	733	527
315	265	50	734	527
303.15	265	38.15	735	527
313	265	48	736	527
371	265	106	737	527
270	265	5	738	527
382	265	117	739	527

362	265	97	740	527
423	265	158	741	527
207	265	-58	741	528
283	265	18	742	528
454	265	189	743	528
362	265	97	744	528
505	265	240	745	528
316	265	51	746	528
1130	265	865	747	528
227	265	-38	747	529
ND<3 U	265	-262	747	530
293	274	19	748	530
267	274	-7	748	531
276	274	2	749	531
233	274	-41	749	532
236	274	-38	749	533
207	274	-67	749	534
227	274	-47	749	535
233	274	-41	749	536
267	274	-7	749	537
265	274	-9	749	538
277	274	3	750	538
256	274	-18	750	539
227	274	-47	750	540
219	274	-55	750	541
254	274	-20	750	542
267	274	-7	750	543
279	274	5	751	543
589	274	315	752	543
259	274	-15	752	544
315	274	41	753	544
303.15	274	29.15	754	544
313	274	39	755	544
371	274	97	756	544
270	274	-4	756	545
382	274	108	757	545
362	274	88	758	545
423	274	149	759	545
207	274	-67	759	546
283	274	9	760	546
454	274	180	761	546
362	274	88	762	546
505	274	231	763	546
316	274	42	764	546
1130	274	856	765	546
227	274	-47	765	547
ND<3 U	274	-271	765	548
267	293	-26	765	549
276	293	-17	765	550
233	293	-60	765	551
236	293	-57	765	552
207	293	-86	765	553
227	293	-66	765	554
233	293	-60	765	555
267	293	-26	765	556

265	293	-28	765	557
277	293	-16	765	558
256	293	-37	765	559
227	293	-66	765	560
219	293	-74	765	561
254	293	-39	765	562
267	293	-26	765	563
279	293	-14	765	564
589	293	296	766	564
259	293	-34	766	565
315	293	22	767	565
303.15	293	10.15	768	565
313	293	20	769	565
371	293	78	770	565
270	293	-23	770	566
382	293	89	771	566
362	293	69	772	566
423	293	130	773	566
207	293	-86	773	567
283	293	-10	773	568
454	293	161	774	568
362	293	69	775	568
505	293	212	776	568
316	293	23	777	568
1130	293	837	778	568
227	293	-66	778	569
ND<3 U	293	-290	778	570
276	267	9	779	570
233	267	-34	779	571
236	267	-31	779	572
207	267	-60	779	573
227	267	-40	779	574
233	267	-34	779	575
267	267	0	779	575
265	267	-2	779	576
277	267	10	780	576
256	267	-11	780	577
227	267	-40	780	578
219	267	-48	780	579
254	267	-13	780	580
267	267	0	780	580
279	267	12	781	580
589	267	322	782	580
259	267	-8	782	581
315	267	48	783	581
303.15	267	36.15	784	581
313	267	46	785	581
371	267	104	786	581
270	267	3	787	581
382	267	115	788	581
362	267	95	789	581
423	267	156	790	581
207	267	-60	790	582
283	267	16	791	582
454	267	187	792	582
362	267	95	793	582

505	267	238	794	582
316	267	49	795	582
1130	267	863	796	582
227	267	-40	796	583
ND<3 U	267	-264	796	584
233	276	-43	796	585
236	276	-40	796	586
207	276	-69	796	587
227	276	-49	796	588
233	276	-43	796	589
267	276	-9	796	590
265	276	-11	796	591
277	276	1	797	591
256	276	-20	797	592
227	276	-49	797	593
219	276	-57	797	594
254	276	-22	797	595
267	276	-9	797	596
279	276	3	798	596
589	276	313	799	596
259	276	-17	799	597
315	276	39	800	597
303.15	276	27.15	801	597
313	276	37	802	597
371	276	95	803	597
270	276	-6	803	598
382	276	106	804	598
362	276	86	805	598
423	276	147	806	598
207	276	-69	806	599
283	276	7	807	599
454	276	178	808	599
362	276	86	809	599
505	276	229	810	599
316	276	40	811	599
1130	276	854	812	599
227	276	-49	812	600
ND<3 U	276	-273	812	601
236	233	3	813	601
207	233	-26	813	602
227	233	-6	813	603
233	233	0	813	603
267	233	34	814	603
265	233	32	815	603
277	233	44	816	603
256	233	23	817	603
227	233	-6	817	604
219	233	-14	817	605
254	233	21	818	605
267	233	34	819	605
279	233	46	820	605
589	233	356	821	605
259	233	26	822	605
315	233	82	823	605
303.15	233	70.15	824	605

313	233	80	825	605
371	233	138	826	605
270	233	37	827	605
382	233	149	828	605
362	233	129	829	605
423	233	190	830	605
207	233	-26	830	606
283	233	50	831	606
454	233	221	832	606
362	233	129	833	606
505	233	272	834	606
316	233	83	835	606
1130	233	897	836	606
227	233	-6	836	607
ND<3 U	233	-230	836	608

207	236	-29	836	609
227	236	-9	836	610
233	236	-3	836	611
267	236	31	837	611
265	236	29	838	611
277	236	41	839	611
256	236	20	840	611
227	236	-9	840	612
219	236	-17	840	613
254	236	18	841	613
267	236	31	842	613
279	236	43	843	613
589	236	353	844	613
259	236	23	845	613
315	236	79	846	613
303.15	236	67.15	847	613
313	236	77	848	613
371	236	135	849	613
270	236	34	850	613
382	236	146	851	613
362	236	126	852	613
423	236	187	853	613
207	236	-29	853	614
283	236	47	854	614
454	236	218	855	614
362	236	126	856	614
505	236	269	857	614
316	236	80	858	614
1130	236	894	859	614
227	236	-9	859	615
ND<3 U	236	-233	859	616

227	207	20	860	616
233	207	26	861	616
267	207	60	862	616
265	207	58	863	616
277	207	70	864	616
256	207	49	865	616
227	207	20	866	616
219	207	12	867	616
254	207	47	868	616

267	207	60	869	616
279	207	72	870	616
589	207	382	871	616
259	207	52	872	616
315	207	108	873	616
303.15	207	96.15	874	616
313	207	106	875	616
371	207	164	876	616
270	207	63	877	616
382	207	175	878	616
362	207	155	879	616
423	207	216	880	616
207	207	0	880	616
283	207	76	881	616
454	207	247	882	616
362	207	155	883	616
505	207	298	884	616
316	207	109	885	616
1130	207	923	886	616
227	207	20	887	616
ND<3 U	207	-204	887	617
233	227	6	888	617
267	227	40	889	617
265	227	38	890	617
277	227	50	891	617
256	227	29	892	617
227	227	0	892	617
219	227	-8	892	618
254	227	27	893	618
267	227	40	894	618
279	227	52	895	618
589	227	362	896	618
259	227	32	897	618
315	227	88	898	618
303.15	227	76.15	899	618
313	227	86	900	618
371	227	144	901	618
270	227	43	902	618
382	227	155	903	618
362	227	135	904	618
423	227	196	905	618
207	227	-20	905	619
283	227	56	906	619
454	227	227	907	619
362	227	135	908	619
505	227	278	909	619
316	227	89	910	619
1130	227	903	911	619
227	227	0	911	619
ND<3 U	227	-224	911	620
267	233	34	912	620
265	233	32	913	620
277	233	44	914	620
256	233	23	915	620
227	233	-6	915	621

219	233	-14	915	622
254	233	21	916	622
267	233	34	917	622
279	233	46	918	622
589	233	356	919	622
259	233	26	920	622
315	233	82	921	622
303.15	233	70.15	922	622
313	233	80	923	622
371	233	138	924	622
270	233	37	925	622
382	233	149	926	622
362	233	129	927	622
423	233	190	928	622
207	233	-26	928	623
283	233	50	929	623
454	233	221	930	623
362	233	129	931	623
505	233	272	932	623
316	233	83	933	623
1130	233	897	934	623
227	233	-6	934	624
ND<3 U	233	-230	934	625
265	267	-2	934	626
277	267	10	935	626
256	267	-11	935	627
227	267	-40	935	628
219	267	-48	935	629
254	267	-13	935	630
267	267	0	935	630
279	267	12	936	630
589	267	322	937	630
259	267	-8	937	631
315	267	48	938	631
303.15	267	36.15	939	631
313	267	46	940	631
371	267	104	941	631
270	267	3	942	631
382	267	115	943	631
362	267	95	944	631
423	267	156	945	631
207	267	-60	945	632
283	267	16	946	632
454	267	187	947	632
362	267	95	948	632
505	267	238	949	632
316	267	49	950	632
1130	267	863	951	632
227	267	-40	951	633
ND<3 U	267	-264	951	634
277	265	12	952	634
256	265	-9	952	635
227	265	-38	952	636
219	265	-46	952	637
254	265	-11	952	638

267	265	2	953	638
279	265	14	954	638
589	265	324	955	638
259	265	-6	955	639
315	265	50	956	639
303.15	265	38.15	957	639
313	265	48	958	639
371	265	106	959	639
270	265	5	960	639
382	265	117	961	639
362	265	97	962	639
423	265	158	963	639
207	265	-58	963	640
283	265	18	964	640
454	265	189	965	640
362	265	97	966	640
505	265	240	967	640
316	265	51	968	640
1130	265	865	969	640
227	265	-38	969	641
ND<3 U	265	-262	969	642
256	277	-21	969	643
227	277	-50	969	644
219	277	-58	969	645
254	277	-23	969	646
267	277	-10	969	647
279	277	2	970	647
589	277	312	971	647
259	277	-18	971	648
315	277	38	972	648
303.15	277	26.15	973	648
313	277	36	974	648
371	277	94	975	648
270	277	-7	975	649
382	277	105	976	649
362	277	85	977	649
423	277	146	978	649
207	277	-70	978	650
283	277	6	979	650
454	277	177	980	650
362	277	85	981	650
505	277	228	982	650
316	277	39	983	650
1130	277	853	984	650
227	277	-50	984	651
ND<3 U	277	-274	984	652
227	256	-29	984	653
219	256	-37	984	654
254	256	-2	984	655
267	256	11	985	655
279	256	23	986	655
589	256	333	987	655
259	256	3	988	655
315	256	59	989	655
303.15	256	47.15	990	655

313	256	57	991	655
371	256	115	992	655
270	256	14	993	655
382	256	126	994	655
362	256	106	995	655
423	256	167	996	655
207	256	-49	996	656
283	256	27	997	656
454	256	198	998	656
362	256	106	999	656
505	256	249	1000	656
316	256	60	1001	656
1130	256	874	1002	656
227	256	-29	1002	657
ND<3 U	256	-253	1002	658

219	227	-8	1002	659
254	227	27	1003	659
267	227	40	1004	659
279	227	52	1005	659
589	227	362	1006	659
259	227	32	1007	659
315	227	88	1008	659
303.15	227	76.15	1009	659
313	227	86	1010	659
371	227	144	1011	659
270	227	43	1012	659
382	227	155	1013	659
362	227	135	1014	659
423	227	196	1015	659
207	227	-20	1015	660
283	227	56	1016	660
454	227	227	1017	660
362	227	135	1018	660
505	227	278	1019	660
316	227	89	1020	660
1130	227	903	1021	660
227	227	0	1021	660
ND<3 U	227	-224	1021	661

254	219	35	1022	661
267	219	48	1023	661
279	219	60	1024	661
589	219	370	1025	661
259	219	40	1026	661
315	219	96	1027	661
303.15	219	84.15	1028	661
313	219	94	1029	661
371	219	152	1030	661
270	219	51	1031	661
382	219	163	1032	661
362	219	143	1033	661
423	219	204	1034	661
207	219	-12	1034	662
283	219	64	1035	662
454	219	235	1036	662
362	219	143	1037	662

505	219	286	1038	662
316	219	97	1039	662
1130	219	911	1040	662
227	219	8	1041	662
ND<3 U	219	-216	1041	663
267	254	13	1042	663
279	254	25	1043	663
589	254	335	1044	663
259	254	5	1045	663
315	254	61	1046	663
303.15	254	49.15	1047	663
313	254	59	1048	663
371	254	117	1049	663
270	254	16	1050	663
382	254	128	1051	663
362	254	108	1052	663
423	254	169	1053	663
207	254	-47	1053	664
283	254	29	1054	664
454	254	200	1055	664
362	254	108	1056	664
505	254	251	1057	664
316	254	62	1058	664
1130	254	876	1059	664
227	254	-27	1059	665
ND<3 U	254	-251	1059	666
279	267	12	1060	666
589	267	322	1061	666
259	267	-8	1061	667
315	267	48	1062	667
303.15	267	36.15	1063	667
313	267	46	1064	667
371	267	104	1065	667
270	267	3	1066	667
382	267	115	1067	667
362	267	95	1068	667
423	267	156	1069	667
207	267	-60	1069	668
283	267	16	1070	668
454	267	187	1071	668
362	267	95	1072	668
505	267	238	1073	668
316	267	49	1074	668
1130	267	863	1075	668
227	267	-40	1075	669
ND<3 U	267	-264	1075	670
589	279	310	1076	670
259	279	-20	1076	671
315	279	36	1077	671
303.15	279	24.15	1078	671
313	279	34	1079	671
371	279	92	1080	671
270	279	-9	1080	672
382	279	103	1081	672

362	279	83	1082	672
423	279	144	1083	672
207	279	-72	1083	673
283	279	4	1084	673
454	279	175	1085	673
362	279	83	1086	673
505	279	226	1087	673
316	279	37	1088	673
1130	279	851	1089	673
227	279	-52	1089	674
ND<3 U	279	-276	1089	675
259	589	-330	1089	676
315	589	-274	1089	677
303.15	589	-285.85	1089	678
313	589	-276	1089	679
371	589	-218	1089	680
270	589	-319	1089	681
382	589	-207	1089	682
362	589	-227	1089	683
423	589	-166	1089	684
207	589	-382	1089	685
283	589	-306	1089	686
454	589	-135	1089	687
362	589	-227	1089	688
505	589	-84	1089	689
316	589	-273	1089	690
1130	589	541	1090	690
227	589	-362	1090	691
ND<3 U	589	-586	1090	692
315	259	56	1091	692
303.15	259	44.15	1092	692
313	259	54	1093	692
371	259	112	1094	692
270	259	11	1095	692
382	259	123	1096	692
362	259	103	1097	692
423	259	164	1098	692
207	259	-52	1098	693
283	259	24	1099	693
454	259	195	1100	693
362	259	103	1101	693
505	259	246	1102	693
316	259	57	1103	693
1130	259	871	1104	693
227	259	-32	1104	694
ND<3 U	259	-256	1104	695
303.15	315	-11.85	1104	696
313	315	-2	1104	697
371	315	56	1105	697
270	315	-45	1105	698
382	315	67	1106	698
362	315	47	1107	698
423	315	108	1108	698
207	315	-108	1108	699

283	315	-32	1108	700
454	315	139	1109	700
362	315	47	1110	700
505	315	190	1111	700
316	315	1	1112	700
1130	315	815	1113	700
227	315	-88	1113	701
ND<3 U	315	-312	1113	702

313	303.15	9.85	1114	702
371	303.15	67.85	1115	702
270	303.15	-33.15	1115	703
382	303.15	78.85	1116	703
362	303.15	58.85	1117	703
423	303.15	119.85	1118	703
207	303.15	-96.15	1118	704
283	303.15	-20.15	1118	705
454	303.15	150.85	1119	705
362	303.15	58.85	1120	705
505	303.15	201.85	1121	705
316	303.15	12.85	1122	705
1130	303.15	826.85	1123	705
227	303.15	-76.15	1123	706
ND<3 U	303.15	-300.15	1123	707

371	313	58	1124	707
270	313	-43	1124	708
382	313	69	1125	708
362	313	49	1126	708
423	313	110	1127	708
207	313	-106	1127	709
283	313	-30	1127	710
454	313	141	1128	710
362	313	49	1129	710
505	313	192	1130	710
316	313	3	1131	710
1130	313	817	1132	710
227	313	-86	1132	711
ND<3 U	313	-310	1132	712

270	371	-101	1132	713
382	371	11	1133	713
362	371	-9	1133	714
423	371	52	1134	714
207	371	-164	1134	715
283	371	-88	1134	716
454	371	83	1135	716
362	371	-9	1135	717
505	371	134	1136	717
316	371	-55	1136	718
1130	371	759	1137	718
227	371	-144	1137	719
ND<3 U	371	-368	1137	720

382	270	112	1138	720
362	270	92	1139	720
423	270	153	1140	720

207	270	-63	1140	721
283	270	13	1141	721
454	270	184	1142	721
362	270	92	1143	721
505	270	235	1144	721
316	270	46	1145	721
1130	270	860	1146	721
227	270	-43	1146	722
ND<3 U	270	-267	1146	723
362	382	-20	1146	724
423	382	41	1147	724
207	382	-175	1147	725
283	382	-99	1147	726
454	382	72	1148	726
362	382	-20	1148	727
505	382	123	1149	727
316	382	-66	1149	728
1130	382	748	1150	728
227	382	-155	1150	729
ND<3 U	382	-379	1150	730
423	362	61	1151	730
207	362	-155	1151	731
283	362	-79	1151	732
454	362	92	1152	732
362	362	0	1152	732
505	362	143	1153	732
316	362	-46	1153	733
1130	362	768	1154	733
227	362	-135	1154	734
ND<3 U	362	-359	1154	735
207	423	-216	1154	736
283	423	-140	1154	737
454	423	31	1155	737
362	423	-61	1155	738
505	423	82	1156	738
316	423	-107	1156	739
1130	423	707	1157	739
227	423	-196	1157	740
ND<3 U	423	-420	1157	741
283	207	76	1158	741
454	207	247	1159	741
362	207	155	1160	741
505	207	298	1161	741
316	207	109	1162	741
1130	207	923	1163	741
227	207	20	1164	741
ND<3 U	207	-204	1164	742
454	283	171	1165	742
362	283	79	1166	742
505	283	222	1167	742
316	283	33	1168	742
1130	283	847	1169	742

227	283	-56	1169	743
ND<3 U	283	-280	1169	744
362	454	-92	1169	745
505	454	51	1170	745
316	454	-138	1170	746
1130	454	676	1171	746
227	454	-227	1171	747
ND<3 U	454	-451	1171	748
505	362	143	1172	748
316	362	-46	1172	749
1130	362	768	1173	749
227	362	-135	1173	750
ND<3 U	362	-359	1173	751
316	505	-189	1173	752
1130	505	625	1174	752
227	505	-278	1174	753
ND<3 U	505	-502	1174	754
1130	316	814	1175	754
227	316	-89	1175	755
ND<3 U	316	-313	1175	756
227	1130	-903	1175	757
ND<3 U	1130	-1127	1175	758
ND<3 U	227	-224	1175	759

S Statistic = 1175 - 759 = 416

Tied Group	**Value**	**Members**
1	256	2
2	316	2
3	259	2
4	277	2
5	260	2
6	283	2
7	279	2
8	270	2
9	313	2
10	265	2
11	267	3
12	233	2
13	207	2
14	227	3
15	362	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1

5/6/2010	1
6/7/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1
10/29/2018	1
1/30/2019	1
4/29/2019	1
7/29/2019	1

```
There are 0 time periods with multiple data

A = 366
B = 0
C = 12
D = 0
E = 38
F = 0
a = 511686
b = 2.14439e+006
c = 7812
Group Variance = 28406.7
Z-Score = 2.46228
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|2.46228| > 2.32634 indicating a trend
```

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
216	304	-88	0	1
262	304	-42	0	2
223	304	-81	0	3
268	304	-36	0	4
258	304	-46	0	5
265	304	-39	0	6
293	304	-11	0	7
266	304	-38	0	8
256	304	-48	0	9
327	304	23	1	9
5.3	304	-298.7	1	10
361	304	57	2	10
293	304	-11	2	11
289	304	-15	2	12
257	304	-47	2	13
265	304	-39	2	14
255	304	-49	2	15
298	304	-6	2	16
273	304	-31	2	17
283	304	-21	2	18
262	304	-42	2	19
271	304	-33	2	20
287	304	-17	2	21
336	304	32	3	21
276	304	-28	3	22
290	304	-14	3	23
263	304	-41	3	24
283	304	-21	3	25
291	304	-13	3	26
232	304	-72	3	27
239	304	-65	3	28
205	304	-99	3	29
225	304	-79	3	30
234	304	-70	3	31
272	304	-32	3	32
272	304	-32	3	33
277	304	-27	3	34
240	304	-64	3	35
223	304	-81	3	36
229	304	-75	3	37
253	304	-51	3	38
288	304	-16	3	39
283	304	-21	3	40
728	304	424	4	40
252	304	-52	4	41
274	304	-30	4	42
324.57	304	20.57	5	42

312	304	8	6	42
371	304	67	7	42
264	304	-40	7	43
60.1	304	-243.9	7	44
387	304	83	8	44
358	304	54	9	44
236	304	-68	9	45
69	304	-235	9	46
526	304	222	10	46
390	304	86	11	46
451	304	147	12	46
269	304	-35	12	47
989	304	685	13	47
233	304	-71	13	48
258	304	-46	13	49
262	216	46	14	49
223	216	7	15	49
268	216	52	16	49
258	216	42	17	49
265	216	49	18	49
293	216	77	19	49
266	216	50	20	49
256	216	40	21	49
327	216	111	22	49
5.3	216	-210.7	22	50
361	216	145	23	50
293	216	77	24	50
289	216	73	25	50
257	216	41	26	50
265	216	49	27	50
255	216	39	28	50
298	216	82	29	50
273	216	57	30	50
283	216	67	31	50
262	216	46	32	50
271	216	55	33	50
287	216	71	34	50
336	216	120	35	50
276	216	60	36	50
290	216	74	37	50
263	216	47	38	50
283	216	67	39	50
291	216	75	40	50
232	216	16	41	50
239	216	23	42	50
205	216	-11	42	51
225	216	9	43	51
234	216	18	44	51
272	216	56	45	51
272	216	56	46	51
277	216	61	47	51
240	216	24	48	51
223	216	7	49	51
229	216	13	50	51
253	216	37	51	51
288	216	72	52	51

283	216	67	53	51
728	216	512	54	51
252	216	36	55	51
274	216	58	56	51
324.57	216	108.57	57	51
312	216	96	58	51
371	216	155	59	51
264	216	48	60	51
60.1	216	-155.9	60	52
387	216	171	61	52
358	216	142	62	52
236	216	20	63	52
69	216	-147	63	53
526	216	310	64	53
390	216	174	65	53
451	216	235	66	53
269	216	53	67	53
989	216	773	68	53
233	216	17	69	53
258	216	42	70	53

223	262	-39	70	54
268	262	6	71	54
258	262	-4	71	55
265	262	3	72	55
293	262	31	73	55
266	262	4	74	55
256	262	-6	74	56
327	262	65	75	56
5.3	262	-256.7	75	57
361	262	99	76	57
293	262	31	77	57
289	262	27	78	57
257	262	-5	78	58
265	262	3	79	58
255	262	-7	79	59
298	262	36	80	59
273	262	11	81	59
283	262	21	82	59
262	262	0	82	59
271	262	9	83	59
287	262	25	84	59
336	262	74	85	59
276	262	14	86	59
290	262	28	87	59
263	262	1	88	59
283	262	21	89	59
291	262	29	90	59
232	262	-30	90	60
239	262	-23	90	61
205	262	-57	90	62
225	262	-37	90	63
234	262	-28	90	64
272	262	10	91	64
272	262	10	92	64
277	262	15	93	64
240	262	-22	93	65

223	262	-39	93	66
229	262	-33	93	67
253	262	-9	93	68
288	262	26	94	68
283	262	21	95	68
728	262	466	96	68
252	262	-10	96	69
274	262	12	97	69
324.57	262	62.57	98	69
312	262	50	99	69
371	262	109	100	69
264	262	2	101	69
60.1	262	-201.9	101	70
387	262	125	102	70
358	262	96	103	70
236	262	-26	103	71
69	262	-193	103	72
526	262	264	104	72
390	262	128	105	72
451	262	189	106	72
269	262	7	107	72
989	262	727	108	72
233	262	-29	108	73
258	262	-4	108	74
268	223	45	109	74
258	223	35	110	74
265	223	42	111	74
293	223	70	112	74
266	223	43	113	74
256	223	33	114	74
327	223	104	115	74
5.3	223	-217.7	115	75
361	223	138	116	75
293	223	70	117	75
289	223	66	118	75
257	223	34	119	75
265	223	42	120	75
255	223	32	121	75
298	223	75	122	75
273	223	50	123	75
283	223	60	124	75
262	223	39	125	75
271	223	48	126	75
287	223	64	127	75
336	223	113	128	75
276	223	53	129	75
290	223	67	130	75
263	223	40	131	75
283	223	60	132	75
291	223	68	133	75
232	223	9	134	75
239	223	16	135	75
205	223	-18	135	76
225	223	2	136	76
234	223	11	137	76
272	223	49	138	76

272	223	49	139	76
277	223	54	140	76
240	223	17	141	76
223	223	0	141	76
229	223	6	142	76
253	223	30	143	76
288	223	65	144	76
283	223	60	145	76
728	223	505	146	76
252	223	29	147	76
274	223	51	148	76
324.57	223	101.57	149	76
312	223	89	150	76
371	223	148	151	76
264	223	41	152	76
60.1	223	-162.9	152	77
387	223	164	153	77
358	223	135	154	77
236	223	13	155	77
69	223	-154	155	78
526	223	303	156	78
390	223	167	157	78
451	223	228	158	78
269	223	46	159	78
989	223	766	160	78
233	223	10	161	78
258	223	35	162	78

258	268	-10	162	79
265	268	-3	162	80
293	268	25	163	80
266	268	-2	163	81
256	268	-12	163	82
327	268	59	164	82
5.3	268	-262.7	164	83
361	268	93	165	83
293	268	25	166	83
289	268	21	167	83
257	268	-11	167	84
265	268	-3	167	85
255	268	-13	167	86
298	268	30	168	86
273	268	5	169	86
283	268	15	170	86
262	268	-6	170	87
271	268	3	171	87
287	268	19	172	87
336	268	68	173	87
276	268	8	174	87
290	268	22	175	87
263	268	-5	175	88
283	268	15	176	88
291	268	23	177	88
232	268	-36	177	89
239	268	-29	177	90
205	268	-63	177	91
225	268	-43	177	92

234	268	-34	177	93
272	268	4	178	93
272	268	4	179	93
277	268	9	180	93
240	268	-28	180	94
223	268	-45	180	95
229	268	-39	180	96
253	268	-15	180	97
288	268	20	181	97
283	268	15	182	97
728	268	460	183	97
252	268	-16	183	98
274	268	6	184	98
324.57	268	56.57	185	98
312	268	44	186	98
371	268	103	187	98
264	268	-4	187	99
60.1	268	-207.9	187	100
387	268	119	188	100
358	268	90	189	100
236	268	-32	189	101
69	268	-199	189	102
526	268	258	190	102
390	268	122	191	102
451	268	183	192	102
269	268	1	193	102
989	268	721	194	102
233	268	-35	194	103
258	268	-10	194	104

265	258	7	195	104
293	258	35	196	104
266	258	8	197	104
256	258	-2	197	105
327	258	69	198	105
5.3	258	-252.7	198	106
361	258	103	199	106
293	258	35	200	106
289	258	31	201	106
257	258	-1	201	107
265	258	7	202	107
255	258	-3	202	108
298	258	40	203	108
273	258	15	204	108
283	258	25	205	108
262	258	4	206	108
271	258	13	207	108
287	258	29	208	108
336	258	78	209	108
276	258	18	210	108
290	258	32	211	108
263	258	5	212	108
283	258	25	213	108
291	258	33	214	108
232	258	-26	214	109
239	258	-19	214	110
205	258	-53	214	111

225	258	-33	214	112
234	258	-24	214	113
272	258	14	215	113
272	258	14	216	113
277	258	19	217	113
240	258	-18	217	114
223	258	-35	217	115
229	258	-29	217	116
253	258	-5	217	117
288	258	30	218	117
283	258	25	219	117
728	258	470	220	117
252	258	-6	220	118
274	258	16	221	118
324.57	258	66.57	222	118
312	258	54	223	118
371	258	113	224	118
264	258	6	225	118
60.1	258	-197.9	225	119
387	258	129	226	119
358	258	100	227	119
236	258	-22	227	120
69	258	-189	227	121
526	258	268	228	121
390	258	132	229	121
451	258	193	230	121
269	258	11	231	121
989	258	731	232	121
233	258	-25	232	122
258	258	0	232	122
293	265	28	233	122
266	265	1	234	122
256	265	-9	234	123
327	265	62	235	123
5.3	265	-259.7	235	124
361	265	96	236	124
293	265	28	237	124
289	265	24	238	124
257	265	-8	238	125
265	265	0	238	125
255	265	-10	238	126
298	265	33	239	126
273	265	8	240	126
283	265	18	241	126
262	265	-3	241	127
271	265	6	242	127
287	265	22	243	127
336	265	71	244	127
276	265	11	245	127
290	265	25	246	127
263	265	-2	246	128
283	265	18	247	128
291	265	26	248	128
232	265	-33	248	129
239	265	-26	248	130
205	265	-60	248	131

225	265	-40	248	132
234	265	-31	248	133
272	265	7	249	133
272	265	7	250	133
277	265	12	251	133
240	265	-25	251	134
223	265	-42	251	135
229	265	-36	251	136
253	265	-12	251	137
288	265	23	252	137
283	265	18	253	137
728	265	463	254	137
252	265	-13	254	138
274	265	9	255	138
324.57	265	59.57	256	138
312	265	47	257	138
371	265	106	258	138
264	265	-1	258	139
60.1	265	-204.9	258	140
387	265	122	259	140
358	265	93	260	140
236	265	-29	260	141
69	265	-196	260	142
526	265	261	261	142
390	265	125	262	142
451	265	186	263	142
269	265	4	264	142
989	265	724	265	142
233	265	-32	265	143
258	265	-7	265	144

266	293	-27	265	145
256	293	-37	265	146
327	293	34	266	146
5.3	293	-287.7	266	147
361	293	68	267	147
293	293	0	267	147
289	293	-4	267	148
257	293	-36	267	149
265	293	-28	267	150
255	293	-38	267	151
298	293	5	268	151
273	293	-20	268	152
283	293	-10	268	153
262	293	-31	268	154
271	293	-22	268	155
287	293	-6	268	156
336	293	43	269	156
276	293	-17	269	157
290	293	-3	269	158
263	293	-30	269	159
283	293	-10	269	160
291	293	-2	269	161
232	293	-61	269	162
239	293	-54	269	163
205	293	-88	269	164
225	293	-68	269	165

234	293	-59	269	166
272	293	-21	269	167
272	293	-21	269	168
277	293	-16	269	169
240	293	-53	269	170
223	293	-70	269	171
229	293	-64	269	172
253	293	-40	269	173
288	293	-5	269	174
283	293	-10	269	175
728	293	435	270	175
252	293	-41	270	176
274	293	-19	270	177
324.57	293	31.57	271	177
312	293	19	272	177
371	293	78	273	177
264	293	-29	273	178
60.1	293	-232.9	273	179
387	293	94	274	179
358	293	65	275	179
236	293	-57	275	180
69	293	-224	275	181
526	293	233	276	181
390	293	97	277	181
451	293	158	278	181
269	293	-24	278	182
989	293	696	279	182
233	293	-60	279	183
258	293	-35	279	184

256	266	-10	279	185
327	266	61	280	185
5.3	266	-260.7	280	186
361	266	95	281	186
293	266	27	282	186
289	266	23	283	186
257	266	-9	283	187
265	266	-1	283	188
255	266	-11	283	189
298	266	32	284	189
273	266	7	285	189
283	266	17	286	189
262	266	-4	286	190
271	266	5	287	190
287	266	21	288	190
336	266	70	289	190
276	266	10	290	190
290	266	24	291	190
263	266	-3	291	191
283	266	17	292	191
291	266	25	293	191
232	266	-34	293	192
239	266	-27	293	193
205	266	-61	293	194
225	266	-41	293	195
234	266	-32	293	196
272	266	6	294	196

272	266	6	295	196
277	266	11	296	196
240	266	-26	296	197
223	266	-43	296	198
229	266	-37	296	199
253	266	-13	296	200
288	266	22	297	200
283	266	17	298	200
728	266	462	299	200
252	266	-14	299	201
274	266	8	300	201
324.57	266	58.57	301	201
312	266	46	302	201
371	266	105	303	201
264	266	-2	303	202
60.1	266	-205.9	303	203
387	266	121	304	203
358	266	92	305	203
236	266	-30	305	204
69	266	-197	305	205
526	266	260	306	205
390	266	124	307	205
451	266	185	308	205
269	266	3	309	205
989	266	723	310	205
233	266	-33	310	206
258	266	-8	310	207
327	256	71	311	207
5.3	256	-250.7	311	208
361	256	105	312	208
293	256	37	313	208
289	256	33	314	208
257	256	1	315	208
265	256	9	316	208
255	256	-1	316	209
298	256	42	317	209
273	256	17	318	209
283	256	27	319	209
262	256	6	320	209
271	256	15	321	209
287	256	31	322	209
336	256	80	323	209
276	256	20	324	209
290	256	34	325	209
263	256	7	326	209
283	256	27	327	209
291	256	35	328	209
232	256	-24	328	210
239	256	-17	328	211
205	256	-51	328	212
225	256	-31	328	213
234	256	-22	328	214
272	256	16	329	214
272	256	16	330	214
277	256	21	331	214
240	256	-16	331	215

223	256	-33	331	216
229	256	-27	331	217
253	256	-3	331	218
288	256	32	332	218
283	256	27	333	218
728	256	472	334	218
252	256	-4	334	219
274	256	18	335	219
324.57	256	68.57	336	219
312	256	56	337	219
371	256	115	338	219
264	256	8	339	219
60.1	256	-195.9	339	220
387	256	131	340	220
358	256	102	341	220
236	256	-20	341	221
69	256	-187	341	222
526	256	270	342	222
390	256	134	343	222
451	256	195	344	222
269	256	13	345	222
989	256	733	346	222
233	256	-23	346	223
258	256	2	347	223

5.3	327	-321.7	347	224
361	327	34	348	224
293	327	-34	348	225
289	327	-38	348	226
257	327	-70	348	227
265	327	-62	348	228
255	327	-72	348	229
298	327	-29	348	230
273	327	-54	348	231
283	327	-44	348	232
262	327	-65	348	233
271	327	-56	348	234
287	327	-40	348	235
336	327	9	349	235
276	327	-51	349	236
290	327	-37	349	237
263	327	-64	349	238
283	327	-44	349	239
291	327	-36	349	240
232	327	-95	349	241
239	327	-88	349	242
205	327	-122	349	243
225	327	-102	349	244
234	327	-93	349	245
272	327	-55	349	246
272	327	-55	349	247
277	327	-50	349	248
240	327	-87	349	249
223	327	-104	349	250
229	327	-98	349	251
253	327	-74	349	252
288	327	-39	349	253

283	327	-44	349	254
728	327	401	350	254
252	327	-75	350	255
274	327	-53	350	256
324.57	327	-2.43	350	257
312	327	-15	350	258
371	327	44	351	258
264	327	-63	351	259
60.1	327	-266.9	351	260
387	327	60	352	260
358	327	31	353	260
236	327	-91	353	261
69	327	-258	353	262
526	327	199	354	262
390	327	63	355	262
451	327	124	356	262
269	327	-58	356	263
989	327	662	357	263
233	327	-94	357	264
258	327	-69	357	265

361	5.3	355.7	358	265
293	5.3	287.7	359	265
289	5.3	283.7	360	265
257	5.3	251.7	361	265
265	5.3	259.7	362	265
255	5.3	249.7	363	265
298	5.3	292.7	364	265
273	5.3	267.7	365	265
283	5.3	277.7	366	265
262	5.3	256.7	367	265
271	5.3	265.7	368	265
287	5.3	281.7	369	265
336	5.3	330.7	370	265
276	5.3	270.7	371	265
290	5.3	284.7	372	265
263	5.3	257.7	373	265
283	5.3	277.7	374	265
291	5.3	285.7	375	265
232	5.3	226.7	376	265
239	5.3	233.7	377	265
205	5.3	199.7	378	265
225	5.3	219.7	379	265
234	5.3	228.7	380	265
272	5.3	266.7	381	265
272	5.3	266.7	382	265
277	5.3	271.7	383	265
240	5.3	234.7	384	265
223	5.3	217.7	385	265
229	5.3	223.7	386	265
253	5.3	247.7	387	265
288	5.3	282.7	388	265
283	5.3	277.7	389	265
728	5.3	722.7	390	265
252	5.3	246.7	391	265
274	5.3	268.7	392	265
324.57	5.3	319.27	393	265

312	5.3	306.7	394	265
371	5.3	365.7	395	265
264	5.3	258.7	396	265
60.1	5.3	54.8	397	265
387	5.3	381.7	398	265
358	5.3	352.7	399	265
236	5.3	230.7	400	265
69	5.3	63.7	401	265
526	5.3	520.7	402	265
390	5.3	384.7	403	265
451	5.3	445.7	404	265
269	5.3	263.7	405	265
989	5.3	983.7	406	265
233	5.3	227.7	407	265
258	5.3	252.7	408	265

293	361	-68	408	266
289	361	-72	408	267
257	361	-104	408	268
265	361	-96	408	269
255	361	-106	408	270
298	361	-63	408	271
273	361	-88	408	272
283	361	-78	408	273
262	361	-99	408	274
271	361	-90	408	275
287	361	-74	408	276
336	361	-25	408	277
276	361	-85	408	278
290	361	-71	408	279
263	361	-98	408	280
283	361	-78	408	281
291	361	-70	408	282
232	361	-129	408	283
239	361	-122	408	284
205	361	-156	408	285
225	361	-136	408	286
234	361	-127	408	287
272	361	-89	408	288
272	361	-89	408	289
277	361	-84	408	290
240	361	-121	408	291
223	361	-138	408	292
229	361	-132	408	293
253	361	-108	408	294
288	361	-73	408	295
283	361	-78	408	296
728	361	367	409	296
252	361	-109	409	297
274	361	-87	409	298
324.57	361	-36.43	409	299
312	361	-49	409	300
371	361	10	410	300
264	361	-97	410	301
60.1	361	-300.9	410	302
387	361	26	411	302
358	361	-3	411	303

236	361	-125	411	304
69	361	-292	411	305
526	361	165	412	305
390	361	29	413	305
451	361	90	414	305
269	361	-92	414	306
989	361	628	415	306
233	361	-128	415	307
258	361	-103	415	308

289	293	-4	415	309
257	293	-36	415	310
265	293	-28	415	311
255	293	-38	415	312
298	293	5	416	312
273	293	-20	416	313
283	293	-10	416	314
262	293	-31	416	315
271	293	-22	416	316
287	293	-6	416	317
336	293	43	417	317
276	293	-17	417	318
290	293	-3	417	319
263	293	-30	417	320
283	293	-10	417	321
291	293	-2	417	322
232	293	-61	417	323
239	293	-54	417	324
205	293	-88	417	325
225	293	-68	417	326
234	293	-59	417	327
272	293	-21	417	328
272	293	-21	417	329
277	293	-16	417	330
240	293	-53	417	331
223	293	-70	417	332
229	293	-64	417	333
253	293	-40	417	334
288	293	-5	417	335
283	293	-10	417	336
728	293	435	418	336
252	293	-41	418	337
274	293	-19	418	338
324.57	293	31.57	419	338
312	293	19	420	338
371	293	78	421	338
264	293	-29	421	339
60.1	293	-232.9	421	340
387	293	94	422	340
358	293	65	423	340
236	293	-57	423	341
69	293	-224	423	342
526	293	233	424	342
390	293	97	425	342
451	293	158	426	342
269	293	-24	426	343
989	293	696	427	343

233	293	-60	427	344
258	293	-35	427	345
257	289	-32	427	346
265	289	-24	427	347
255	289	-34	427	348
298	289	9	428	348
273	289	-16	428	349
283	289	-6	428	350
262	289	-27	428	351
271	289	-18	428	352
287	289	-2	428	353
336	289	47	429	353
276	289	-13	429	354
290	289	1	430	354
263	289	-26	430	355
283	289	-6	430	356
291	289	2	431	356
232	289	-57	431	357
239	289	-50	431	358
205	289	-84	431	359
225	289	-64	431	360
234	289	-55	431	361
272	289	-17	431	362
272	289	-17	431	363
277	289	-12	431	364
240	289	-49	431	365
223	289	-66	431	366
229	289	-60	431	367
253	289	-36	431	368
288	289	-1	431	369
283	289	-6	431	370
728	289	439	432	370
252	289	-37	432	371
274	289	-15	432	372
324.57	289	35.57	433	372
312	289	23	434	372
371	289	82	435	372
264	289	-25	435	373
60.1	289	-228.9	435	374
387	289	98	436	374
358	289	69	437	374
236	289	-53	437	375
69	289	-220	437	376
526	289	237	438	376
390	289	101	439	376
451	289	162	440	376
269	289	-20	440	377
989	289	700	441	377
233	289	-56	441	378
258	289	-31	441	379
265	257	8	442	379
255	257	-2	442	380
298	257	41	443	380
273	257	16	444	380
283	257	26	445	380

262	257	5	446	380
271	257	14	447	380
287	257	30	448	380
336	257	79	449	380
276	257	19	450	380
290	257	33	451	380
263	257	6	452	380
283	257	26	453	380
291	257	34	454	380
232	257	-25	454	381
239	257	-18	454	382
205	257	-52	454	383
225	257	-32	454	384
234	257	-23	454	385
272	257	15	455	385
272	257	15	456	385
277	257	20	457	385
240	257	-17	457	386
223	257	-34	457	387
229	257	-28	457	388
253	257	-4	457	389
288	257	31	458	389
283	257	26	459	389
728	257	471	460	389
252	257	-5	460	390
274	257	17	461	390
324.57	257	67.57	462	390
312	257	55	463	390
371	257	114	464	390
264	257	7	465	390
60.1	257	-196.9	465	391
387	257	130	466	391
358	257	101	467	391
236	257	-21	467	392
69	257	-188	467	393
526	257	269	468	393
390	257	133	469	393
451	257	194	470	393
269	257	12	471	393
989	257	732	472	393
233	257	-24	472	394
258	257	1	473	394

255	265	-10	473	395
298	265	33	474	395
273	265	8	475	395
283	265	18	476	395
262	265	-3	476	396
271	265	6	477	396
287	265	22	478	396
336	265	71	479	396
276	265	11	480	396
290	265	25	481	396
263	265	-2	481	397
283	265	18	482	397
291	265	26	483	397
232	265	-33	483	398

239	265	-26	483	399
205	265	-60	483	400
225	265	-40	483	401
234	265	-31	483	402
272	265	7	484	402
272	265	7	485	402
277	265	12	486	402
240	265	-25	486	403
223	265	-42	486	404
229	265	-36	486	405
253	265	-12	486	406
288	265	23	487	406
283	265	18	488	406
728	265	463	489	406
252	265	-13	489	407
274	265	9	490	407
324.57	265	59.57	491	407
312	265	47	492	407
371	265	106	493	407
264	265	-1	493	408
60.1	265	-204.9	493	409
387	265	122	494	409
358	265	93	495	409
236	265	-29	495	410
69	265	-196	495	411
526	265	261	496	411
390	265	125	497	411
451	265	186	498	411
269	265	4	499	411
989	265	724	500	411
233	265	-32	500	412
258	265	-7	500	413

298	255	43	501	413
273	255	18	502	413
283	255	28	503	413
262	255	7	504	413
271	255	16	505	413
287	255	32	506	413
336	255	81	507	413
276	255	21	508	413
290	255	35	509	413
263	255	8	510	413
283	255	28	511	413
291	255	36	512	413
232	255	-23	512	414
239	255	-16	512	415
205	255	-50	512	416
225	255	-30	512	417
234	255	-21	512	418
272	255	17	513	418
272	255	17	514	418
277	255	22	515	418
240	255	-15	515	419
223	255	-32	515	420
229	255	-26	515	421
253	255	-2	515	422

288	255	33	516	422
283	255	28	517	422
728	255	473	518	422
252	255	-3	518	423
274	255	19	519	423
324.57	255	69.57	520	423
312	255	57	521	423
371	255	116	522	423
264	255	9	523	423
60.1	255	-194.9	523	424
387	255	132	524	424
358	255	103	525	424
236	255	-19	525	425
69	255	-186	525	426
526	255	271	526	426
390	255	135	527	426
451	255	196	528	426
269	255	14	529	426
989	255	734	530	426
233	255	-22	530	427
258	255	3	531	427

273	298	-25	531	428
283	298	-15	531	429
262	298	-36	531	430
271	298	-27	531	431
287	298	-11	531	432
336	298	38	532	432
276	298	-22	532	433
290	298	-8	532	434
263	298	-35	532	435
283	298	-15	532	436
291	298	-7	532	437
232	298	-66	532	438
239	298	-59	532	439
205	298	-93	532	440
225	298	-73	532	441
234	298	-64	532	442
272	298	-26	532	443
272	298	-26	532	444
277	298	-21	532	445
240	298	-58	532	446
223	298	-75	532	447
229	298	-69	532	448
253	298	-45	532	449
288	298	-10	532	450
283	298	-15	532	451
728	298	430	533	451
252	298	-46	533	452
274	298	-24	533	453
324.57	298	26.57	534	453
312	298	14	535	453
371	298	73	536	453
264	298	-34	536	454
60.1	298	-237.9	536	455
387	298	89	537	455
358	298	60	538	455

236	298	-62	538	456
69	298	-229	538	457
526	298	228	539	457
390	298	92	540	457
451	298	153	541	457
269	298	-29	541	458
989	298	691	542	458
233	298	-65	542	459
258	298	-40	542	460
283	273	10	543	460
262	273	-11	543	461
271	273	-2	543	462
287	273	14	544	462
336	273	63	545	462
276	273	3	546	462
290	273	17	547	462
263	273	-10	547	463
283	273	10	548	463
291	273	18	549	463
232	273	-41	549	464
239	273	-34	549	465
205	273	-68	549	466
225	273	-48	549	467
234	273	-39	549	468
272	273	-1	549	469
272	273	-1	549	470
277	273	4	550	470
240	273	-33	550	471
223	273	-50	550	472
229	273	-44	550	473
253	273	-20	550	474
288	273	15	551	474
283	273	10	552	474
728	273	455	553	474
252	273	-21	553	475
274	273	1	554	475
324.57	273	51.57	555	475
312	273	39	556	475
371	273	98	557	475
264	273	-9	557	476
60.1	273	-212.9	557	477
387	273	114	558	477
358	273	85	559	477
236	273	-37	559	478
69	273	-204	559	479
526	273	253	560	479
390	273	117	561	479
451	273	178	562	479
269	273	-4	562	480
989	273	716	563	480
233	273	-40	563	481
258	273	-15	563	482
262	283	-21	563	483
271	283	-12	563	484
287	283	4	564	484

336	283	53	565	484
276	283	-7	565	485
290	283	7	566	485
263	283	-20	566	486
283	283	0	566	486
291	283	8	567	486
232	283	-51	567	487
239	283	-44	567	488
205	283	-78	567	489
225	283	-58	567	490
234	283	-49	567	491
272	283	-11	567	492
272	283	-11	567	493
277	283	-6	567	494
240	283	-43	567	495
223	283	-60	567	496
229	283	-54	567	497
253	283	-30	567	498
288	283	5	568	498
283	283	0	568	498
728	283	445	569	498
252	283	-31	569	499
274	283	-9	569	500
324.57	283	41.57	570	500
312	283	29	571	500
371	283	88	572	500
264	283	-19	572	501
60.1	283	-222.9	572	502
387	283	104	573	502
358	283	75	574	502
236	283	-47	574	503
69	283	-214	574	504
526	283	243	575	504
390	283	107	576	504
451	283	168	577	504
269	283	-14	577	505
989	283	706	578	505
233	283	-50	578	506
258	283	-25	578	507
271	262	9	579	507
287	262	25	580	507
336	262	74	581	507
276	262	14	582	507
290	262	28	583	507
263	262	1	584	507
283	262	21	585	507
291	262	29	586	507
232	262	-30	586	508
239	262	-23	586	509
205	262	-57	586	510
225	262	-37	586	511
234	262	-28	586	512
272	262	10	587	512
272	262	10	588	512
277	262	15	589	512
240	262	-22	589	513

223	262	-39	589	514
229	262	-33	589	515
253	262	-9	589	516
288	262	26	590	516
283	262	21	591	516
728	262	466	592	516
252	262	-10	592	517
274	262	12	593	517
324.57	262	62.57	594	517
312	262	50	595	517
371	262	109	596	517
264	262	2	597	517
60.1	262	-201.9	597	518
387	262	125	598	518
358	262	96	599	518
236	262	-26	599	519
69	262	-193	599	520
526	262	264	600	520
390	262	128	601	520
451	262	189	602	520
269	262	7	603	520
989	262	727	604	520
233	262	-29	604	521
258	262	-4	604	522

287	271	16	605	522
336	271	65	606	522
276	271	5	607	522
290	271	19	608	522
263	271	-8	608	523
283	271	12	609	523
291	271	20	610	523
232	271	-39	610	524
239	271	-32	610	525
205	271	-66	610	526
225	271	-46	610	527
234	271	-37	610	528
272	271	1	611	528
272	271	1	612	528
277	271	6	613	528
240	271	-31	613	529
223	271	-48	613	530
229	271	-42	613	531
253	271	-18	613	532
288	271	17	614	532
283	271	12	615	532
728	271	457	616	532
252	271	-19	616	533
274	271	3	617	533
324.57	271	53.57	618	533
312	271	41	619	533
371	271	100	620	533
264	271	-7	620	534
60.1	271	-210.9	620	535
387	271	116	621	535
358	271	87	622	535
236	271	-35	622	536

69	271	-202	622	537
526	271	255	623	537
390	271	119	624	537
451	271	180	625	537
269	271	-2	625	538
989	271	718	626	538
233	271	-38	626	539
258	271	-13	626	540
336	287	49	627	540
276	287	-11	627	541
290	287	3	628	541
263	287	-24	628	542
283	287	-4	628	543
291	287	4	629	543
232	287	-55	629	544
239	287	-48	629	545
205	287	-82	629	546
225	287	-62	629	547
234	287	-53	629	548
272	287	-15	629	549
272	287	-15	629	550
277	287	-10	629	551
240	287	-47	629	552
223	287	-64	629	553
229	287	-58	629	554
253	287	-34	629	555
288	287	1	630	555
283	287	-4	630	556
728	287	441	631	556
252	287	-35	631	557
274	287	-13	631	558
324.57	287	37.57	632	558
312	287	25	633	558
371	287	84	634	558
264	287	-23	634	559
60.1	287	-226.9	634	560
387	287	100	635	560
358	287	71	636	560
236	287	-51	636	561
69	287	-218	636	562
526	287	239	637	562
390	287	103	638	562
451	287	164	639	562
269	287	-18	639	563
989	287	702	640	563
233	287	-54	640	564
258	287	-29	640	565
276	336	-60	640	566
290	336	-46	640	567
263	336	-73	640	568
283	336	-53	640	569
291	336	-45	640	570
232	336	-104	640	571
239	336	-97	640	572
205	336	-131	640	573

225	336	-111	640	574
234	336	-102	640	575
272	336	-64	640	576
272	336	-64	640	577
277	336	-59	640	578
240	336	-96	640	579
223	336	-113	640	580
229	336	-107	640	581
253	336	-83	640	582
288	336	-48	640	583
283	336	-53	640	584
728	336	392	641	584
252	336	-84	641	585
274	336	-62	641	586
324.57	336	-11.43	641	587
312	336	-24	641	588
371	336	35	642	588
264	336	-72	642	589
60.1	336	-275.9	642	590
387	336	51	643	590
358	336	22	644	590
236	336	-100	644	591
69	336	-267	644	592
526	336	190	645	592
390	336	54	646	592
451	336	115	647	592
269	336	-67	647	593
989	336	653	648	593
233	336	-103	648	594
258	336	-78	648	595

290	276	14	649	595
263	276	-13	649	596
283	276	7	650	596
291	276	15	651	596
232	276	-44	651	597
239	276	-37	651	598
205	276	-71	651	599
225	276	-51	651	600
234	276	-42	651	601
272	276	-4	651	602
272	276	-4	651	603
277	276	1	652	603
240	276	-36	652	604
223	276	-53	652	605
229	276	-47	652	606
253	276	-23	652	607
288	276	12	653	607
283	276	7	654	607
728	276	452	655	607
252	276	-24	655	608
274	276	-2	655	609
324.57	276	48.57	656	609
312	276	36	657	609
371	276	95	658	609
264	276	-12	658	610
60.1	276	-215.9	658	611

387	276	111	659	611
358	276	82	660	611
236	276	-40	660	612
69	276	-207	660	613
526	276	250	661	613
390	276	114	662	613
451	276	175	663	613
269	276	-7	663	614
989	276	713	664	614
233	276	-43	664	615
258	276	-18	664	616
263	290	-27	664	617
283	290	-7	664	618
291	290	1	665	618
232	290	-58	665	619
239	290	-51	665	620
205	290	-85	665	621
225	290	-65	665	622
234	290	-56	665	623
272	290	-18	665	624
272	290	-18	665	625
277	290	-13	665	626
240	290	-50	665	627
223	290	-67	665	628
229	290	-61	665	629
253	290	-37	665	630
288	290	-2	665	631
283	290	-7	665	632
728	290	438	666	632
252	290	-38	666	633
274	290	-16	666	634
324.57	290	34.57	667	634
312	290	22	668	634
371	290	81	669	634
264	290	-26	669	635
60.1	290	-229.9	669	636
387	290	97	670	636
358	290	68	671	636
236	290	-54	671	637
69	290	-221	671	638
526	290	236	672	638
390	290	100	673	638
451	290	161	674	638
269	290	-21	674	639
989	290	699	675	639
233	290	-57	675	640
258	290	-32	675	641
283	263	20	676	641
291	263	28	677	641
232	263	-31	677	642
239	263	-24	677	643
205	263	-58	677	644
225	263	-38	677	645
234	263	-29	677	646
272	263	9	678	646

272	263	9	679	646
277	263	14	680	646
240	263	-23	680	647
223	263	-40	680	648
229	263	-34	680	649
253	263	-10	680	650
288	263	25	681	650
283	263	20	682	650
728	263	465	683	650
252	263	-11	683	651
274	263	11	684	651
324.57	263	61.57	685	651
312	263	49	686	651
371	263	108	687	651
264	263	1	688	651
60.1	263	-202.9	688	652
387	263	124	689	652
358	263	95	690	652
236	263	-27	690	653
69	263	-194	690	654
526	263	263	691	654
390	263	127	692	654
451	263	188	693	654
269	263	6	694	654
989	263	726	695	654
233	263	-30	695	655
258	263	-5	695	656

291	283	8	696	656
232	283	-51	696	657
239	283	-44	696	658
205	283	-78	696	659
225	283	-58	696	660
234	283	-49	696	661
272	283	-11	696	662
272	283	-11	696	663
277	283	-6	696	664
240	283	-43	696	665
223	283	-60	696	666
229	283	-54	696	667
253	283	-30	696	668
288	283	5	697	668
283	283	0	697	668
728	283	445	698	668
252	283	-31	698	669
274	283	-9	698	670
324.57	283	41.57	699	670
312	283	29	700	670
371	283	88	701	670
264	283	-19	701	671
60.1	283	-222.9	701	672
387	283	104	702	672
358	283	75	703	672
236	283	-47	703	673
69	283	-214	703	674
526	283	243	704	674
390	283	107	705	674

451	283	168	706	674
269	283	-14	706	675
989	283	706	707	675
233	283	-50	707	676
258	283	-25	707	677
232	291	-59	707	678
239	291	-52	707	679
205	291	-86	707	680
225	291	-66	707	681
234	291	-57	707	682
272	291	-19	707	683
272	291	-19	707	684
277	291	-14	707	685
240	291	-51	707	686
223	291	-68	707	687
229	291	-62	707	688
253	291	-38	707	689
288	291	-3	707	690
283	291	-8	707	691
728	291	437	708	691
252	291	-39	708	692
274	291	-17	708	693
324.57	291	33.57	709	693
312	291	21	710	693
371	291	80	711	693
264	291	-27	711	694
60.1	291	-230.9	711	695
387	291	96	712	695
358	291	67	713	695
236	291	-55	713	696
69	291	-222	713	697
526	291	235	714	697
390	291	99	715	697
451	291	160	716	697
269	291	-22	716	698
989	291	698	717	698
233	291	-58	717	699
258	291	-33	717	700
239	232	7	718	700
205	232	-27	718	701
225	232	-7	718	702
234	232	2	719	702
272	232	40	720	702
272	232	40	721	702
277	232	45	722	702
240	232	8	723	702
223	232	-9	723	703
229	232	-3	723	704
253	232	21	724	704
288	232	56	725	704
283	232	51	726	704
728	232	496	727	704
252	232	20	728	704
274	232	42	729	704
324.57	232	92.57	730	704

312	232	80	731	704
371	232	139	732	704
264	232	32	733	704
60.1	232	-171.9	733	705
387	232	155	734	705
358	232	126	735	705
236	232	4	736	705
69	232	-163	736	706
526	232	294	737	706
390	232	158	738	706
451	232	219	739	706
269	232	37	740	706
989	232	757	741	706
233	232	1	742	706
258	232	26	743	706
205	239	-34	743	707
225	239	-14	743	708
234	239	-5	743	709
272	239	33	744	709
272	239	33	745	709
277	239	38	746	709
240	239	1	747	709
223	239	-16	747	710
229	239	-10	747	711
253	239	14	748	711
288	239	49	749	711
283	239	44	750	711
728	239	489	751	711
252	239	13	752	711
274	239	35	753	711
324.57	239	85.57	754	711
312	239	73	755	711
371	239	132	756	711
264	239	25	757	711
60.1	239	-178.9	757	712
387	239	148	758	712
358	239	119	759	712
236	239	-3	759	713
69	239	-170	759	714
526	239	287	760	714
390	239	151	761	714
451	239	212	762	714
269	239	30	763	714
989	239	750	764	714
233	239	-6	764	715
258	239	19	765	715
225	205	20	766	715
234	205	29	767	715
272	205	67	768	715
272	205	67	769	715
277	205	72	770	715
240	205	35	771	715
223	205	18	772	715
229	205	24	773	715
253	205	48	774	715

288	205	83	775	715
283	205	78	776	715
728	205	523	777	715
252	205	47	778	715
274	205	69	779	715
324.57	205	119.57	780	715
312	205	107	781	715
371	205	166	782	715
264	205	59	783	715
60.1	205	-144.9	783	716
387	205	182	784	716
358	205	153	785	716
236	205	31	786	716
69	205	-136	786	717
526	205	321	787	717
390	205	185	788	717
451	205	246	789	717
269	205	64	790	717
989	205	784	791	717
233	205	28	792	717
258	205	53	793	717
234	225	9	794	717
272	225	47	795	717
272	225	47	796	717
277	225	52	797	717
240	225	15	798	717
223	225	-2	798	718
229	225	4	799	718
253	225	28	800	718
288	225	63	801	718
283	225	58	802	718
728	225	503	803	718
252	225	27	804	718
274	225	49	805	718
324.57	225	99.57	806	718
312	225	87	807	718
371	225	146	808	718
264	225	39	809	718
60.1	225	-164.9	809	719
387	225	162	810	719
358	225	133	811	719
236	225	11	812	719
69	225	-156	812	720
526	225	301	813	720
390	225	165	814	720
451	225	226	815	720
269	225	44	816	720
989	225	764	817	720
233	225	8	818	720
258	225	33	819	720
272	234	38	820	720
272	234	38	821	720
277	234	43	822	720
240	234	6	823	720
223	234	-11	823	721

229	234	-5	823	722
253	234	19	824	722
288	234	54	825	722
283	234	49	826	722
728	234	494	827	722
252	234	18	828	722
274	234	40	829	722
324.57	234	90.57	830	722
312	234	78	831	722
371	234	137	832	722
264	234	30	833	722
60.1	234	-173.9	833	723
387	234	153	834	723
358	234	124	835	723
236	234	2	836	723
69	234	-165	836	724
526	234	292	837	724
390	234	156	838	724
451	234	217	839	724
269	234	35	840	724
989	234	755	841	724
233	234	-1	841	725
258	234	24	842	725
272	272	0	842	725
277	272	5	843	725
240	272	-32	843	726
223	272	-49	843	727
229	272	-43	843	728
253	272	-19	843	729
288	272	16	844	729
283	272	11	845	729
728	272	456	846	729
252	272	-20	846	730
274	272	2	847	730
324.57	272	52.57	848	730
312	272	40	849	730
371	272	99	850	730
264	272	-8	850	731
60.1	272	-211.9	850	732
387	272	115	851	732
358	272	86	852	732
236	272	-36	852	733
69	272	-203	852	734
526	272	254	853	734
390	272	118	854	734
451	272	179	855	734
269	272	-3	855	735
989	272	717	856	735
233	272	-39	856	736
258	272	-14	856	737
277	272	5	857	737
240	272	-32	857	738
223	272	-49	857	739
229	272	-43	857	740
253	272	-19	857	741

288	272	16	858	741
283	272	11	859	741
728	272	456	860	741
252	272	-20	860	742
274	272	2	861	742
324.57	272	52.57	862	742
312	272	40	863	742
371	272	99	864	742
264	272	-8	864	743
60.1	272	-211.9	864	744
387	272	115	865	744
358	272	86	866	744
236	272	-36	866	745
69	272	-203	866	746
526	272	254	867	746
390	272	118	868	746
451	272	179	869	746
269	272	-3	869	747
989	272	717	870	747
233	272	-39	870	748
258	272	-14	870	749
240	277	-37	870	750
223	277	-54	870	751
229	277	-48	870	752
253	277	-24	870	753
288	277	11	871	753
283	277	6	872	753
728	277	451	873	753
252	277	-25	873	754
274	277	-3	873	755
324.57	277	47.57	874	755
312	277	35	875	755
371	277	94	876	755
264	277	-13	876	756
60.1	277	-216.9	876	757
387	277	110	877	757
358	277	81	878	757
236	277	-41	878	758
69	277	-208	878	759
526	277	249	879	759
390	277	113	880	759
451	277	174	881	759
269	277	-8	881	760
989	277	712	882	760
233	277	-44	882	761
258	277	-19	882	762
223	240	-17	882	763
229	240	-11	882	764
253	240	13	883	764
288	240	48	884	764
283	240	43	885	764
728	240	488	886	764
252	240	12	887	764
274	240	34	888	764
324.57	240	84.57	889	764

312	240	72	890	764
371	240	131	891	764
264	240	24	892	764
60.1	240	-179.9	892	765
387	240	147	893	765
358	240	118	894	765
236	240	-4	894	766
69	240	-171	894	767
526	240	286	895	767
390	240	150	896	767
451	240	211	897	767
269	240	29	898	767
989	240	749	899	767
233	240	-7	899	768
258	240	18	900	768
229	223	6	901	768
253	223	30	902	768
288	223	65	903	768
283	223	60	904	768
728	223	505	905	768
252	223	29	906	768
274	223	51	907	768
324.57	223	101.57	908	768
312	223	89	909	768
371	223	148	910	768
264	223	41	911	768
60.1	223	-162.9	911	769
387	223	164	912	769
358	223	135	913	769
236	223	13	914	769
69	223	-154	914	770
526	223	303	915	770
390	223	167	916	770
451	223	228	917	770
269	223	46	918	770
989	223	766	919	770
233	223	10	920	770
258	223	35	921	770
253	229	24	922	770
288	229	59	923	770
283	229	54	924	770
728	229	499	925	770
252	229	23	926	770
274	229	45	927	770
324.57	229	95.57	928	770
312	229	83	929	770
371	229	142	930	770
264	229	35	931	770
60.1	229	-168.9	931	771
387	229	158	932	771
358	229	129	933	771
236	229	7	934	771
69	229	-160	934	772
526	229	297	935	772
390	229	161	936	772

451	229	222	937	772
269	229	40	938	772
989	229	760	939	772
233	229	4	940	772
258	229	29	941	772

288	253	35	942	772
283	253	30	943	772
728	253	475	944	772
252	253	-1	944	773
274	253	21	945	773
324.57	253	71.57	946	773
312	253	59	947	773
371	253	118	948	773
264	253	11	949	773
60.1	253	-192.9	949	774
387	253	134	950	774
358	253	105	951	774
236	253	-17	951	775
69	253	-184	951	776
526	253	273	952	776
390	253	137	953	776
451	253	198	954	776
269	253	16	955	776
989	253	736	956	776
233	253	-20	956	777
258	253	5	957	777

283	288	-5	957	778
728	288	440	958	778
252	288	-36	958	779
274	288	-14	958	780
324.57	288	36.57	959	780
312	288	24	960	780
371	288	83	961	780
264	288	-24	961	781
60.1	288	-227.9	961	782
387	288	99	962	782
358	288	70	963	782
236	288	-52	963	783
69	288	-219	963	784
526	288	238	964	784
390	288	102	965	784
451	288	163	966	784
269	288	-19	966	785
989	288	701	967	785
233	288	-55	967	786
258	288	-30	967	787

728	283	445	968	787
252	283	-31	968	788
274	283	-9	968	789
324.57	283	41.57	969	789
312	283	29	970	789
371	283	88	971	789
264	283	-19	971	790
60.1	283	-222.9	971	791

387	283	104	972	791
358	283	75	973	791
236	283	-47	973	792
69	283	-214	973	793
526	283	243	974	793
390	283	107	975	793
451	283	168	976	793
269	283	-14	976	794
989	283	706	977	794
233	283	-50	977	795
258	283	-25	977	796

252	728	-476	977	797
274	728	-454	977	798
324.57	728	-403.43	977	799
312	728	-416	977	800
371	728	-357	977	801
264	728	-464	977	802
60.1	728	-667.9	977	803
387	728	-341	977	804
358	728	-370	977	805
236	728	-492	977	806
69	728	-659	977	807
526	728	-202	977	808
390	728	-338	977	809
451	728	-277	977	810
269	728	-459	977	811
989	728	261	978	811
233	728	-495	978	812
258	728	-470	978	813

274	252	22	979	813
324.57	252	72.57	980	813
312	252	60	981	813
371	252	119	982	813
264	252	12	983	813
60.1	252	-191.9	983	814
387	252	135	984	814
358	252	106	985	814
236	252	-16	985	815
69	252	-183	985	816
526	252	274	986	816
390	252	138	987	816
451	252	199	988	816
269	252	17	989	816
989	252	737	990	816
233	252	-19	990	817
258	252	6	991	817

324.57	274	50.57	992	817
312	274	38	993	817
371	274	97	994	817
264	274	-10	994	818
60.1	274	-213.9	994	819
387	274	113	995	819
358	274	84	996	819
236	274	-38	996	820

69	274	-205	996	821
526	274	252	997	821
390	274	116	998	821
451	274	177	999	821
269	274	-5	999	822
989	274	715	1000	822
233	274	-41	1000	823
258	274	-16	1000	824
312	324.57	-12.57	1000	825
371	324.57	46.43	1001	825
264	324.57	-60.57	1001	826
60.1	324.57	-264.47	1001	827
387	324.57	62.43	1002	827
358	324.57	33.43	1003	827
236	324.57	-88.57	1003	828
69	324.57	-255.57	1003	829
526	324.57	201.43	1004	829
390	324.57	65.43	1005	829
451	324.57	126.43	1006	829
269	324.57	-55.57	1006	830
989	324.57	664.43	1007	830
233	324.57	-91.57	1007	831
258	324.57	-66.57	1007	832
371	312	59	1008	832
264	312	-48	1008	833
60.1	312	-251.9	1008	834
387	312	75	1009	834
358	312	46	1010	834
236	312	-76	1010	835
69	312	-243	1010	836
526	312	214	1011	836
390	312	78	1012	836
451	312	139	1013	836
269	312	-43	1013	837
989	312	677	1014	837
233	312	-79	1014	838
258	312	-54	1014	839
264	371	-107	1014	840
60.1	371	-310.9	1014	841
387	371	16	1015	841
358	371	-13	1015	842
236	371	-135	1015	843
69	371	-302	1015	844
526	371	155	1016	844
390	371	19	1017	844
451	371	80	1018	844
269	371	-102	1018	845
989	371	618	1019	845
233	371	-138	1019	846
258	371	-113	1019	847
60.1	264	-203.9	1019	848
387	264	123	1020	848
358	264	94	1021	848

236	264	-28	1021	849
69	264	-195	1021	850
526	264	262	1022	850
390	264	126	1023	850
451	264	187	1024	850
269	264	5	1025	850
989	264	725	1026	850
233	264	-31	1026	851
258	264	-6	1026	852
387	60.1	326.9	1027	852
358	60.1	297.9	1028	852
236	60.1	175.9	1029	852
69	60.1	8.9	1030	852
526	60.1	465.9	1031	852
390	60.1	329.9	1032	852
451	60.1	390.9	1033	852
269	60.1	208.9	1034	852
989	60.1	928.9	1035	852
233	60.1	172.9	1036	852
258	60.1	197.9	1037	852
358	387	-29	1037	853
236	387	-151	1037	854
69	387	-318	1037	855
526	387	139	1038	855
390	387	3	1039	855
451	387	64	1040	855
269	387	-118	1040	856
989	387	602	1041	856
233	387	-154	1041	857
258	387	-129	1041	858
236	358	-122	1041	859
69	358	-289	1041	860
526	358	168	1042	860
390	358	32	1043	860
451	358	93	1044	860
269	358	-89	1044	861
989	358	631	1045	861
233	358	-125	1045	862
258	358	-100	1045	863
69	236	-167	1045	864
526	236	290	1046	864
390	236	154	1047	864
451	236	215	1048	864
269	236	33	1049	864
989	236	753	1050	864
233	236	-3	1050	865
258	236	22	1051	865
526	69	457	1052	865
390	69	321	1053	865
451	69	382	1054	865
269	69	200	1055	865
989	69	920	1056	865

233	69	164	1057	865
258	69	189	1058	865
390	526	-136	1058	866
451	526	-75	1058	867
269	526	-257	1058	868
989	526	463	1059	868
233	526	-293	1059	869
258	526	-268	1059	870
451	390	61	1060	870
269	390	-121	1060	871
989	390	599	1061	871
233	390	-157	1061	872
258	390	-132	1061	873
269	451	-182	1061	874
989	451	538	1062	874
233	451	-218	1062	875
258	451	-193	1062	876
989	269	720	1063	876
233	269	-36	1063	877
258	269	-11	1063	878
233	989	-756	1063	879
258	989	-731	1063	880
258	233	25	1064	880

S Statistic = 1064 - 880 = 184

Tied Group	**Value**	**Members**
1	262	2
2	223	2
3	258	2
4	265	2
5	293	2
6	283	3
7	272	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/9/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1

3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1
10/29/2018	1
1/30/2019	1
4/29/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 174
B = 0
C = 6
D = 0
E = 18
F = 0

```
a = 511686
b = 2.14439e+006
c = 7812
Group Variance = 28417.3
Z-Score = 1.08557
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.08557| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Chloride

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
262	358	-96	0	1
286	358	-72	0	2
311	358	-47	0	3
285	358	-73	0	4
378	358	20	1	4
239	358	-119	1	5
311	358	-47	1	6
271	358	-87	1	7
366	358	8	2	7
306	358	-52	2	8
314	358	-44	2	9
256	358	-102	2	10
298	358	-60	2	11
279	358	-79	2	12
255	358	-103	2	13
273	358	-85	2	14
310	358	-48	2	15
359	358	1	3	15
306	358	-52	3	16
318	358	-40	3	17
267	358	-91	3	18
576	358	218	4	18
400	358	42	5	18
835	358	477	6	18
210	358	-148	6	19
286	262	24	7	19
311	262	49	8	19
285	262	23	9	19
378	262	116	10	19
239	262	-23	10	20
311	262	49	11	20
271	262	9	12	20
366	262	104	13	20
306	262	44	14	20
314	262	52	15	20
256	262	-6	15	21
298	262	36	16	21
279	262	17	17	21
255	262	-7	17	22
273	262	11	18	22
310	262	48	19	22
359	262	97	20	22
306	262	44	21	22
318	262	56	22	22
267	262	5	23	22
576	262	314	24	22

400	262	138	25	22
835	262	573	26	22
210	262	-52	26	23
311	286	25	27	23
285	286	-1	27	24
378	286	92	28	24
239	286	-47	28	25
311	286	25	29	25
271	286	-15	29	26
366	286	80	30	26
306	286	20	31	26
314	286	28	32	26
256	286	-30	32	27
298	286	12	33	27
279	286	-7	33	28
255	286	-31	33	29
273	286	-13	33	30
310	286	24	34	30
359	286	73	35	30
306	286	20	36	30
318	286	32	37	30
267	286	-19	37	31
576	286	290	38	31
400	286	114	39	31
835	286	549	40	31
210	286	-76	40	32
285	311	-26	40	33
378	311	67	41	33
239	311	-72	41	34
311	311	0	41	34
271	311	-40	41	35
366	311	55	42	35
306	311	-5	42	36
314	311	3	43	36
256	311	-55	43	37
298	311	-13	43	38
279	311	-32	43	39
255	311	-56	43	40
273	311	-38	43	41
310	311	-1	43	42
359	311	48	44	42
306	311	-5	44	43
318	311	7	45	43
267	311	-44	45	44
576	311	265	46	44
400	311	89	47	44
835	311	524	48	44
210	311	-101	48	45
378	285	93	49	45
239	285	-46	49	46
311	285	26	50	46
271	285	-14	50	47
366	285	81	51	47
306	285	21	52	47

314	285	29	53	47
256	285	-29	53	48
298	285	13	54	48
279	285	-6	54	49
255	285	-30	54	50
273	285	-12	54	51
310	285	25	55	51
359	285	74	56	51
306	285	21	57	51
318	285	33	58	51
267	285	-18	58	52
576	285	291	59	52
400	285	115	60	52
835	285	550	61	52
210	285	-75	61	53
239	378	-139	61	54
311	378	-67	61	55
271	378	-107	61	56
366	378	-12	61	57
306	378	-72	61	58
314	378	-64	61	59
256	378	-122	61	60
298	378	-80	61	61
279	378	-99	61	62
255	378	-123	61	63
273	378	-105	61	64
310	378	-68	61	65
359	378	-19	61	66
306	378	-72	61	67
318	378	-60	61	68
267	378	-111	61	69
576	378	198	62	69
400	378	22	63	69
835	378	457	64	69
210	378	-168	64	70
311	239	72	65	70
271	239	32	66	70
366	239	127	67	70
306	239	67	68	70
314	239	75	69	70
256	239	17	70	70
298	239	59	71	70
279	239	40	72	70
255	239	16	73	70
273	239	34	74	70
310	239	71	75	70
359	239	120	76	70
306	239	67	77	70
318	239	79	78	70
267	239	28	79	70
576	239	337	80	70
400	239	161	81	70
835	239	596	82	70
210	239	-29	82	71

271	311	-40	82	72
366	311	55	83	72
306	311	-5	83	73
314	311	3	84	73
256	311	-55	84	74
298	311	-13	84	75
279	311	-32	84	76
255	311	-56	84	77
273	311	-38	84	78
310	311	-1	84	79
359	311	48	85	79
306	311	-5	85	80
318	311	7	86	80
267	311	-44	86	81
576	311	265	87	81
400	311	89	88	81
835	311	524	89	81
210	311	-101	89	82
366	271	95	90	82
306	271	35	91	82
314	271	43	92	82
256	271	-15	92	83
298	271	27	93	83
279	271	8	94	83
255	271	-16	94	84
273	271	2	95	84
310	271	39	96	84
359	271	88	97	84
306	271	35	98	84
318	271	47	99	84
267	271	-4	99	85
576	271	305	100	85
400	271	129	101	85
835	271	564	102	85
210	271	-61	102	86
306	366	-60	102	87
314	366	-52	102	88
256	366	-110	102	89
298	366	-68	102	90
279	366	-87	102	91
255	366	-111	102	92
273	366	-93	102	93
310	366	-56	102	94
359	366	-7	102	95
306	366	-60	102	96
318	366	-48	102	97
267	366	-99	102	98
576	366	210	103	98
400	366	34	104	98
835	366	469	105	98
210	366	-156	105	99
314	306	8	106	99
256	306	-50	106	100
298	306	-8	106	101

279	306	-27	106	102
255	306	-51	106	103
273	306	-33	106	104
310	306	4	107	104
359	306	53	108	104
306	306	0	108	104
318	306	12	109	104
267	306	-39	109	105
576	306	270	110	105
400	306	94	111	105
835	306	529	112	105
210	306	-96	112	106
256	314	-58	112	107
298	314	-16	112	108
279	314	-35	112	109
255	314	-59	112	110
273	314	-41	112	111
310	314	-4	112	112
359	314	45	113	112
306	314	-8	113	113
318	314	4	114	113
267	314	-47	114	114
576	314	262	115	114
400	314	86	116	114
835	314	521	117	114
210	314	-104	117	115
298	256	42	118	115
279	256	23	119	115
255	256	-1	119	116
273	256	17	120	116
310	256	54	121	116
359	256	103	122	116
306	256	50	123	116
318	256	62	124	116
267	256	11	125	116
576	256	320	126	116
400	256	144	127	116
835	256	579	128	116
210	256	-46	128	117
279	298	-19	128	118
255	298	-43	128	119
273	298	-25	128	120
310	298	12	129	120
359	298	61	130	120
306	298	8	131	120
318	298	20	132	120
267	298	-31	132	121
576	298	278	133	121
400	298	102	134	121
835	298	537	135	121
210	298	-88	135	122
255	279	-24	135	123
273	279	-6	135	124

310	279	31	136	124
359	279	80	137	124
306	279	27	138	124
318	279	39	139	124
267	279	-12	139	125
576	279	297	140	125
400	279	121	141	125
835	279	556	142	125
210	279	-69	142	126
273	255	18	143	126
310	255	55	144	126
359	255	104	145	126
306	255	51	146	126
318	255	63	147	126
267	255	12	148	126
576	255	321	149	126
400	255	145	150	126
835	255	580	151	126
210	255	-45	151	127
310	273	37	152	127
359	273	86	153	127
306	273	33	154	127
318	273	45	155	127
267	273	-6	155	128
576	273	303	156	128
400	273	127	157	128
835	273	562	158	128
210	273	-63	158	129
359	310	49	159	129
306	310	-4	159	130
318	310	8	160	130
267	310	-43	160	131
576	310	266	161	131
400	310	90	162	131
835	310	525	163	131
210	310	-100	163	132
306	359	-53	163	133
318	359	-41	163	134
267	359	-92	163	135
576	359	217	164	135
400	359	41	165	135
835	359	476	166	135
210	359	-149	166	136
318	306	12	167	136
267	306	-39	167	137
576	306	270	168	137
400	306	94	169	137
835	306	529	170	137
210	306	-96	170	138
267	318	-51	170	139
576	318	258	171	139

400	318	82	172	139
835	318	517	173	139
210	318	-108	173	140
576	267	309	174	140
400	267	133	175	140
835	267	568	176	140
210	267	-57	176	141
400	576	-176	176	142
835	576	259	177	142
210	576	-366	177	143
835	400	435	178	143
210	400	-190	178	144
210	835	-625	178	145

S Statistic = 178 - 145 = 33

Tied Group	**Value**	**Members**
1	311	2
2	306	2

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0

D = 0
E = 4
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 2056.33
Z-Score = 0.705673
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|0.705673| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
597	853	-256	0	1
634	853	-219	0	2
818	853	-35	0	3
703	853	-150	0	4
898	853	45	1	4
587	853	-266	1	5
940	853	87	2	5
950	853	97	3	5
886	853	33	4	5
687	853	-166	4	6
673	853	-180	4	7
590	853	-263	4	8
757	853	-96	4	9
697	853	-156	4	10
684	853	-169	4	11
947	853	94	5	11
723	853	-130	5	12
1810	853	957	6	12
733	853	-120	6	13
845	853	-8	6	14
1050	853	197	7	14
617	853	-236	7	15
993	853	140	8	15
900	853	47	9	15
3410	853	2557	10	15
670	853	-183	10	16
634	597	37	11	16
818	597	221	12	16
703	597	106	13	16
898	597	301	14	16
587	597	-10	14	17
940	597	343	15	17
950	597	353	16	17
886	597	289	17	17
687	597	90	18	17
673	597	76	19	17
590	597	-7	19	18
757	597	160	20	18
697	597	100	21	18
684	597	87	22	18
947	597	350	23	18
723	597	126	24	18
1810	597	1213	25	18
733	597	136	26	18
845	597	248	27	18
1050	597	453	28	18

617	597	20	29	18
993	597	396	30	18
900	597	303	31	18
3410	597	2813	32	18
670	597	73	33	18
818	634	184	34	18
703	634	69	35	18
898	634	264	36	18
587	634	-47	36	19
940	634	306	37	19
950	634	316	38	19
886	634	252	39	19
687	634	53	40	19
673	634	39	41	19
590	634	-44	41	20
757	634	123	42	20
697	634	63	43	20
684	634	50	44	20
947	634	313	45	20
723	634	89	46	20
1810	634	1176	47	20
733	634	99	48	20
845	634	211	49	20
1050	634	416	50	20
617	634	-17	50	21
993	634	359	51	21
900	634	266	52	21
3410	634	2776	53	21
670	634	36	54	21
703	818	-115	54	22
898	818	80	55	22
587	818	-231	55	23
940	818	122	56	23
950	818	132	57	23
886	818	68	58	23
687	818	-131	58	24
673	818	-145	58	25
590	818	-228	58	26
757	818	-61	58	27
697	818	-121	58	28
684	818	-134	58	29
947	818	129	59	29
723	818	-95	59	30
1810	818	992	60	30
733	818	-85	60	31
845	818	27	61	31
1050	818	232	62	31
617	818	-201	62	32
993	818	175	63	32
900	818	82	64	32
3410	818	2592	65	32
670	818	-148	65	33
898	703	195	66	33
587	703	-116	66	34

940	703	237	67	34
950	703	247	68	34
886	703	183	69	34
687	703	-16	69	35
673	703	-30	69	36
590	703	-113	69	37
757	703	54	70	37
697	703	-6	70	38
684	703	-19	70	39
947	703	244	71	39
723	703	20	72	39
1810	703	1107	73	39
733	703	30	74	39
845	703	142	75	39
1050	703	347	76	39
617	703	-86	76	40
993	703	290	77	40
900	703	197	78	40
3410	703	2707	79	40
670	703	-33	79	41
587	898	-311	79	42
940	898	42	80	42
950	898	52	81	42
886	898	-12	81	43
687	898	-211	81	44
673	898	-225	81	45
590	898	-308	81	46
757	898	-141	81	47
697	898	-201	81	48
684	898	-214	81	49
947	898	49	82	49
723	898	-175	82	50
1810	898	912	83	50
733	898	-165	83	51
845	898	-53	83	52
1050	898	152	84	52
617	898	-281	84	53
993	898	95	85	53
900	898	2	86	53
3410	898	2512	87	53
670	898	-228	87	54
940	587	353	88	54
950	587	363	89	54
886	587	299	90	54
687	587	100	91	54
673	587	86	92	54
590	587	3	93	54
757	587	170	94	54
697	587	110	95	54
684	587	97	96	54
947	587	360	97	54
723	587	136	98	54
1810	587	1223	99	54
733	587	146	100	54
845	587	258	101	54

1050	587	463	102	54
617	587	30	103	54
993	587	406	104	54
900	587	313	105	54
3410	587	2823	106	54
670	587	83	107	54
950	940	10	108	54
886	940	-54	108	55
687	940	-253	108	56
673	940	-267	108	57
590	940	-350	108	58
757	940	-183	108	59
697	940	-243	108	60
684	940	-256	108	61
947	940	7	109	61
723	940	-217	109	62
1810	940	870	110	62
733	940	-207	110	63
845	940	-95	110	64
1050	940	110	111	64
617	940	-323	111	65
993	940	53	112	65
900	940	-40	112	66
3410	940	2470	113	66
670	940	-270	113	67
886	950	-64	113	68
687	950	-263	113	69
673	950	-277	113	70
590	950	-360	113	71
757	950	-193	113	72
697	950	-253	113	73
684	950	-266	113	74
947	950	-3	113	75
723	950	-227	113	76
1810	950	860	114	76
733	950	-217	114	77
845	950	-105	114	78
1050	950	100	115	78
617	950	-333	115	79
993	950	43	116	79
900	950	-50	116	80
3410	950	2460	117	80
670	950	-280	117	81
687	886	-199	117	82
673	886	-213	117	83
590	886	-296	117	84
757	886	-129	117	85
697	886	-189	117	86
684	886	-202	117	87
947	886	61	118	87
723	886	-163	118	88
1810	886	924	119	88
733	886	-153	119	89
845	886	-41	119	90

1050	886	164	120	90
617	886	-269	120	91
993	886	107	121	91
900	886	14	122	91
3410	886	2524	123	91
670	886	-216	123	92

673	687	-14	123	93
590	687	-97	123	94
757	687	70	124	94
697	687	10	125	94
684	687	-3	125	95
947	687	260	126	95
723	687	36	127	95
1810	687	1123	128	95
733	687	46	129	95
845	687	158	130	95
1050	687	363	131	95
617	687	-70	131	96
993	687	306	132	96
900	687	213	133	96
3410	687	2723	134	96
670	687	-17	134	97

590	673	-83	134	98
757	673	84	135	98
697	673	24	136	98
684	673	11	137	98
947	673	274	138	98
723	673	50	139	98
1810	673	1137	140	98
733	673	60	141	98
845	673	172	142	98
1050	673	377	143	98
617	673	-56	143	99
993	673	320	144	99
900	673	227	145	99
3410	673	2737	146	99
670	673	-3	146	100

757	590	167	147	100
697	590	107	148	100
684	590	94	149	100
947	590	357	150	100
723	590	133	151	100
1810	590	1220	152	100
733	590	143	153	100
845	590	255	154	100
1050	590	460	155	100
617	590	27	156	100
993	590	403	157	100
900	590	310	158	100
3410	590	2820	159	100
670	590	80	160	100

697	757	-60	160	101
684	757	-73	160	102

947	757	190	161	102
723	757	-34	161	103
1810	757	1053	162	103
733	757	-24	162	104
845	757	88	163	104
1050	757	293	164	104
617	757	-140	164	105
993	757	236	165	105
900	757	143	166	105
3410	757	2653	167	105
670	757	-87	167	106
684	697	-13	167	107
947	697	250	168	107
723	697	26	169	107
1810	697	1113	170	107
733	697	36	171	107
845	697	148	172	107
1050	697	353	173	107
617	697	-80	173	108
993	697	296	174	108
900	697	203	175	108
3410	697	2713	176	108
670	697	-27	176	109
947	684	263	177	109
723	684	39	178	109
1810	684	1126	179	109
733	684	49	180	109
845	684	161	181	109
1050	684	366	182	109
617	684	-67	182	110
993	684	309	183	110
900	684	216	184	110
3410	684	2726	185	110
670	684	-14	185	111
723	947	-224	185	112
1810	947	863	186	112
733	947	-214	186	113
845	947	-102	186	114
1050	947	103	187	114
617	947	-330	187	115
993	947	46	188	115
900	947	-47	188	116
3410	947	2463	189	116
670	947	-277	189	117
1810	723	1087	190	117
733	723	10	191	117
845	723	122	192	117
1050	723	327	193	117
617	723	-106	193	118
993	723	270	194	118
900	723	177	195	118
3410	723	2687	196	118
670	723	-53	196	119

733	1810	-1077	196	120
845	1810	-965	196	121
1050	1810	-760	196	122
617	1810	-1193	196	123
993	1810	-817	196	124
900	1810	-910	196	125
3410	1810	1600	197	125
670	1810	-1140	197	126
845	733	112	198	126
1050	733	317	199	126
617	733	-116	199	127
993	733	260	200	127
900	733	167	201	127
3410	733	2677	202	127
670	733	-63	202	128
1050	845	205	203	128
617	845	-228	203	129
993	845	148	204	129
900	845	55	205	129
3410	845	2565	206	129
670	845	-175	206	130
617	1050	-433	206	131
993	1050	-57	206	132
900	1050	-150	206	133
3410	1050	2360	207	133
670	1050	-380	207	134
993	617	376	208	134
900	617	283	209	134
3410	617	2793	210	134
670	617	53	211	134
900	993	-93	211	135
3410	993	2417	212	135
670	993	-323	212	136
3410	900	2510	213	136
670	900	-230	213	137
670	3410	-2740	213	138

S Statistic = 213 - 138 = 75

Tied Group	**Value**	**Members**

Time Period	**Observations**
11/24/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1

4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2301
Z-Score = 1.54267
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.54267| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
723	1185	-462	0	1
670	1185	-515	0	2
774	1185	-411	0	3
747	1185	-438	0	4
1130	1185	-55	0	5
674	1185	-511	0	6
809	1185	-376	0	7
696	1185	-489	0	8
870	1185	-315	0	9
719	1185	-466	0	10
718	1185	-467	0	11
545	1185	-640	0	12
766	1185	-419	0	13
630	1185	-555	0	14
579	1185	-606	0	15
736	1185	-449	0	16
746	1185	-439	0	17
781	1185	-404	0	18
801	1185	-384	0	19
743	1185	-442	0	20
1200	1185	15	1	20
593	1185	-592	1	21
1090	1185	-95	1	22
967	1185	-218	1	23
3230	1185	2045	2	23
692	1185	-493	2	24
670	723	-53	2	25
774	723	51	3	25
747	723	24	4	25
1130	723	407	5	25
674	723	-49	5	26
809	723	86	6	26
696	723	-27	6	27
870	723	147	7	27
719	723	-4	7	28
718	723	-5	7	29
545	723	-178	7	30
766	723	43	8	30
630	723	-93	8	31
579	723	-144	8	32
736	723	13	9	32
746	723	23	10	32
781	723	58	11	32
801	723	78	12	32
743	723	20	13	32
1200	723	477	14	32

593	723	-130	14	33
1090	723	367	15	33
967	723	244	16	33
3230	723	2507	17	33
692	723	-31	17	34

774	670	104	18	34
747	670	77	19	34
1130	670	460	20	34
674	670	4	21	34
809	670	139	22	34
696	670	26	23	34
870	670	200	24	34
719	670	49	25	34
718	670	48	26	34
545	670	-125	26	35
766	670	96	27	35
630	670	-40	27	36
579	670	-91	27	37
736	670	66	28	37
746	670	76	29	37
781	670	111	30	37
801	670	131	31	37
743	670	73	32	37
1200	670	530	33	37
593	670	-77	33	38
1090	670	420	34	38
967	670	297	35	38
3230	670	2560	36	38
692	670	22	37	38

747	774	-27	37	39
1130	774	356	38	39
674	774	-100	38	40
809	774	35	39	40
696	774	-78	39	41
870	774	96	40	41
719	774	-55	40	42
718	774	-56	40	43
545	774	-229	40	44
766	774	-8	40	45
630	774	-144	40	46
579	774	-195	40	47
736	774	-38	40	48
746	774	-28	40	49
781	774	7	41	49
801	774	27	42	49
743	774	-31	42	50
1200	774	426	43	50
593	774	-181	43	51
1090	774	316	44	51
967	774	193	45	51
3230	774	2456	46	51
692	774	-82	46	52

1130	747	383	47	52
674	747	-73	47	53

809	747	62	48	53
696	747	-51	48	54
870	747	123	49	54
719	747	-28	49	55
718	747	-29	49	56
545	747	-202	49	57
766	747	19	50	57
630	747	-117	50	58
579	747	-168	50	59
736	747	-11	50	60
746	747	-1	50	61
781	747	34	51	61
801	747	54	52	61
743	747	-4	52	62
1200	747	453	53	62
593	747	-154	53	63
1090	747	343	54	63
967	747	220	55	63
3230	747	2483	56	63
692	747	-55	56	64

674	1130	-456	56	65
809	1130	-321	56	66
696	1130	-434	56	67
870	1130	-260	56	68
719	1130	-411	56	69
718	1130	-412	56	70
545	1130	-585	56	71
766	1130	-364	56	72
630	1130	-500	56	73
579	1130	-551	56	74
736	1130	-394	56	75
746	1130	-384	56	76
781	1130	-349	56	77
801	1130	-329	56	78
743	1130	-387	56	79
1200	1130	70	57	79
593	1130	-537	57	80
1090	1130	-40	57	81
967	1130	-163	57	82
3230	1130	2100	58	82
692	1130	-438	58	83

809	674	135	59	83
696	674	22	60	83
870	674	196	61	83
719	674	45	62	83
718	674	44	63	83
545	674	-129	63	84
766	674	92	64	84
630	674	-44	64	85
579	674	-95	64	86
736	674	62	65	86
746	674	72	66	86
781	674	107	67	86
801	674	127	68	86
743	674	69	69	86

1200	674	526	70	86
593	674	-81	70	87
1090	674	416	71	87
967	674	293	72	87
3230	674	2556	73	87
692	674	18	74	87

696	809	-113	74	88
870	809	61	75	88
719	809	-90	75	89
718	809	-91	75	90
545	809	-264	75	91
766	809	-43	75	92
630	809	-179	75	93
579	809	-230	75	94
736	809	-73	75	95
746	809	-63	75	96
781	809	-28	75	97
801	809	-8	75	98
743	809	-66	75	99
1200	809	391	76	99
593	809	-216	76	100
1090	809	281	77	100
967	809	158	78	100
3230	809	2421	79	100
692	809	-117	79	101

870	696	174	80	101
719	696	23	81	101
718	696	22	82	101
545	696	-151	82	102
766	696	70	83	102
630	696	-66	83	103
579	696	-117	83	104
736	696	40	84	104
746	696	50	85	104
781	696	85	86	104
801	696	105	87	104
743	696	47	88	104
1200	696	504	89	104
593	696	-103	89	105
1090	696	394	90	105
967	696	271	91	105
3230	696	2534	92	105
692	696	-4	92	106

719	870	-151	92	107
718	870	-152	92	108
545	870	-325	92	109
766	870	-104	92	110
630	870	-240	92	111
579	870	-291	92	112
736	870	-134	92	113
746	870	-124	92	114
781	870	-89	92	115
801	870	-69	92	116
743	870	-127	92	117

1200	870	330	93	117
593	870	-277	93	118
1090	870	220	94	118
967	870	97	95	118
3230	870	2360	96	118
692	870	-178	96	119
718	719	-1	96	120
545	719	-174	96	121
766	719	47	97	121
630	719	-89	97	122
579	719	-140	97	123
736	719	17	98	123
746	719	27	99	123
781	719	62	100	123
801	719	82	101	123
743	719	24	102	123
1200	719	481	103	123
593	719	-126	103	124
1090	719	371	104	124
967	719	248	105	124
3230	719	2511	106	124
692	719	-27	106	125
545	718	-173	106	126
766	718	48	107	126
630	718	-88	107	127
579	718	-139	107	128
736	718	18	108	128
746	718	28	109	128
781	718	63	110	128
801	718	83	111	128
743	718	25	112	128
1200	718	482	113	128
593	718	-125	113	129
1090	718	372	114	129
967	718	249	115	129
3230	718	2512	116	129
692	718	-26	116	130
766	545	221	117	130
630	545	85	118	130
579	545	34	119	130
736	545	191	120	130
746	545	201	121	130
781	545	236	122	130
801	545	256	123	130
743	545	198	124	130
1200	545	655	125	130
593	545	48	126	130
1090	545	545	127	130
967	545	422	128	130
3230	545	2685	129	130
692	545	147	130	130
630	766	-136	130	131
579	766	-187	130	132

736	766	-30	130	133
746	766	-20	130	134
781	766	15	131	134
801	766	35	132	134
743	766	-23	132	135
1200	766	434	133	135
593	766	-173	133	136
1090	766	324	134	136
967	766	201	135	136
3230	766	2464	136	136
692	766	-74	136	137
579	630	-51	136	138
736	630	106	137	138
746	630	116	138	138
781	630	151	139	138
801	630	171	140	138
743	630	113	141	138
1200	630	570	142	138
593	630	-37	142	139
1090	630	460	143	139
967	630	337	144	139
3230	630	2600	145	139
692	630	62	146	139
736	579	157	147	139
746	579	167	148	139
781	579	202	149	139
801	579	222	150	139
743	579	164	151	139
1200	579	621	152	139
593	579	14	153	139
1090	579	511	154	139
967	579	388	155	139
3230	579	2651	156	139
692	579	113	157	139
746	736	10	158	139
781	736	45	159	139
801	736	65	160	139
743	736	7	161	139
1200	736	464	162	139
593	736	-143	162	140
1090	736	354	163	140
967	736	231	164	140
3230	736	2494	165	140
692	736	-44	165	141
781	746	35	166	141
801	746	55	167	141
743	746	-3	167	142
1200	746	454	168	142
593	746	-153	168	143
1090	746	344	169	143
967	746	221	170	143
3230	746	2484	171	143
692	746	-54	171	144

801	781	20	172	144
743	781	-38	172	145
1200	781	419	173	145
593	781	-188	173	146
1090	781	309	174	146
967	781	186	175	146
3230	781	2449	176	146
692	781	-89	176	147
743	801	-58	176	148
1200	801	399	177	148
593	801	-208	177	149
1090	801	289	178	149
967	801	166	179	149
3230	801	2429	180	149
692	801	-109	180	150
1200	743	457	181	150
593	743	-150	181	151
1090	743	347	182	151
967	743	224	183	151
3230	743	2487	184	151
692	743	-51	184	152
593	1200	-607	184	153
1090	1200	-110	184	154
967	1200	-233	184	155
3230	1200	2030	185	155
692	1200	-508	185	156
1090	593	497	186	156
967	593	374	187	156
3230	593	2637	188	156
692	593	99	189	156
967	1090	-123	189	157
3230	1090	2140	190	157
692	1090	-398	190	158
3230	967	2263	191	158
692	967	-275	191	159
692	3230	-2538	191	160

S Statistic = 191 - 160 = 31

Tied Group	**Value**	**Members**

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1

4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2301
Z-Score = 0.625407
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|0.625407| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-3

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
551	760	-209	0	1
663	760	-97	0	2
589	760	-171	0	3
619	760	-141	0	4
724	760	-36	0	5
598	760	-162	0	6
787	760	27	1	6
870	760	110	2	6
812	760	52	3	6
674	760	-86	3	7
813	760	53	4	7
812	760	52	5	7
1030	760	270	6	7
860	760	100	7	7
715	760	-45	7	8
595	760	-165	7	9
714	760	-46	7	10
640	760	-120	7	11
858	760	98	8	11
712	760	-48	8	12
725	760	-35	8	13
759	760	-1	8	14
742	760	-18	8	15
695	760	-65	8	16
911	760	151	9	16
749	760	-11	9	17
849	760	89	10	17
766	760	6	11	17
765	760	5	12	17
792	760	32	13	17
715	760	-45	13	18
648	760	-112	13	19
581	760	-179	13	20
638	760	-122	13	21
676	760	-84	13	22
749	760	-11	13	23
768	760	8	14	23
711	760	-49	14	24
590	760	-170	14	25
745	760	-15	14	26
338	760	-422	14	27
829	760	69	15	27
734	760	-26	15	28
758	760	-2	15	29
1090	760	330	16	29
592	760	-168	16	30
1210	760	450	17	30

902	760	142	18	30
3180	760	2420	19	30
620	760	-140	19	31
663	551	112	20	31
589	551	38	21	31
619	551	68	22	31
724	551	173	23	31
598	551	47	24	31
787	551	236	25	31
870	551	319	26	31
812	551	261	27	31
674	551	123	28	31
813	551	262	29	31
812	551	261	30	31
1030	551	479	31	31
860	551	309	32	31
715	551	164	33	31
595	551	44	34	31
714	551	163	35	31
640	551	89	36	31
858	551	307	37	31
712	551	161	38	31
725	551	174	39	31
759	551	208	40	31
742	551	191	41	31
695	551	144	42	31
911	551	360	43	31
749	551	198	44	31
849	551	298	45	31
766	551	215	46	31
765	551	214	47	31
792	551	241	48	31
715	551	164	49	31
648	551	97	50	31
581	551	30	51	31
638	551	87	52	31
676	551	125	53	31
749	551	198	54	31
768	551	217	55	31
711	551	160	56	31
590	551	39	57	31
745	551	194	58	31
338	551	-213	58	32
829	551	278	59	32
734	551	183	60	32
758	551	207	61	32
1090	551	539	62	32
592	551	41	63	32
1210	551	659	64	32
902	551	351	65	32
3180	551	2629	66	32
620	551	69	67	32
589	663	-74	67	33
619	663	-44	67	34
724	663	61	68	34

598	663	-65	68	35
787	663	124	69	35
870	663	207	70	35
812	663	149	71	35
674	663	11	72	35
813	663	150	73	35
812	663	149	74	35
1030	663	367	75	35
860	663	197	76	35
715	663	52	77	35
595	663	-68	77	36
714	663	51	78	36
640	663	-23	78	37
858	663	195	79	37
712	663	49	80	37
725	663	62	81	37
759	663	96	82	37
742	663	79	83	37
695	663	32	84	37
911	663	248	85	37
749	663	86	86	37
849	663	186	87	37
766	663	103	88	37
765	663	102	89	37
792	663	129	90	37
715	663	52	91	37
648	663	-15	91	38
581	663	-82	91	39
638	663	-25	91	40
676	663	13	92	40
749	663	86	93	40
768	663	105	94	40
711	663	48	95	40
590	663	-73	95	41
745	663	82	96	41
338	663	-325	96	42
829	663	166	97	42
734	663	71	98	42
758	663	95	99	42
1090	663	427	100	42
592	663	-71	100	43
1210	663	547	101	43
902	663	239	102	43
3180	663	2517	103	43
620	663	-43	103	44
619	589	30	104	44
724	589	135	105	44
598	589	9	106	44
787	589	198	107	44
870	589	281	108	44
812	589	223	109	44
674	589	85	110	44
813	589	224	111	44
812	589	223	112	44
1030	589	441	113	44
860	589	271	114	44

715	589	126	115	44
595	589	6	116	44
714	589	125	117	44
640	589	51	118	44
858	589	269	119	44
712	589	123	120	44
725	589	136	121	44
759	589	170	122	44
742	589	153	123	44
695	589	106	124	44
911	589	322	125	44
749	589	160	126	44
849	589	260	127	44
766	589	177	128	44
765	589	176	129	44
792	589	203	130	44
715	589	126	131	44
648	589	59	132	44
581	589	-8	132	45
638	589	49	133	45
676	589	87	134	45
749	589	160	135	45
768	589	179	136	45
711	589	122	137	45
590	589	1	138	45
745	589	156	139	45
338	589	-251	139	46
829	589	240	140	46
734	589	145	141	46
758	589	169	142	46
1090	589	501	143	46
592	589	3	144	46
1210	589	621	145	46
902	589	313	146	46
3180	589	2591	147	46
620	589	31	148	46

724	619	105	149	46
598	619	-21	149	47
787	619	168	150	47
870	619	251	151	47
812	619	193	152	47
674	619	55	153	47
813	619	194	154	47
812	619	193	155	47
1030	619	411	156	47
860	619	241	157	47
715	619	96	158	47
595	619	-24	158	48
714	619	95	159	48
640	619	21	160	48
858	619	239	161	48
712	619	93	162	48
725	619	106	163	48
759	619	140	164	48
742	619	123	165	48
695	619	76	166	48

911	619	292	167	48
749	619	130	168	48
849	619	230	169	48
766	619	147	170	48
765	619	146	171	48
792	619	173	172	48
715	619	96	173	48
648	619	29	174	48
581	619	-38	174	49
638	619	19	175	49
676	619	57	176	49
749	619	130	177	49
768	619	149	178	49
711	619	92	179	49
590	619	-29	179	50
745	619	126	180	50
338	619	-281	180	51
829	619	210	181	51
734	619	115	182	51
758	619	139	183	51
1090	619	471	184	51
592	619	-27	184	52
1210	619	591	185	52
902	619	283	186	52
3180	619	2561	187	52
620	619	1	188	52
598	724	-126	188	53
787	724	63	189	53
870	724	146	190	53
812	724	88	191	53
674	724	-50	191	54
813	724	89	192	54
812	724	88	193	54
1030	724	306	194	54
860	724	136	195	54
715	724	-9	195	55
595	724	-129	195	56
714	724	-10	195	57
640	724	-84	195	58
858	724	134	196	58
712	724	-12	196	59
725	724	1	197	59
759	724	35	198	59
742	724	18	199	59
695	724	-29	199	60
911	724	187	200	60
749	724	25	201	60
849	724	125	202	60
766	724	42	203	60
765	724	41	204	60
792	724	68	205	60
715	724	-9	205	61
648	724	-76	205	62
581	724	-143	205	63
638	724	-86	205	64
676	724	-48	205	65

749	724	25	206	65
768	724	44	207	65
711	724	-13	207	66
590	724	-134	207	67
745	724	21	208	67
338	724	-386	208	68
829	724	105	209	68
734	724	10	210	68
758	724	34	211	68
1090	724	366	212	68
592	724	-132	212	69
1210	724	486	213	69
902	724	178	214	69
3180	724	2456	215	69
620	724	-104	215	70

787	598	189	216	70
870	598	272	217	70
812	598	214	218	70
674	598	76	219	70
813	598	215	220	70
812	598	214	221	70
1030	598	432	222	70
860	598	262	223	70
715	598	117	224	70
595	598	-3	224	71
714	598	116	225	71
640	598	42	226	71
858	598	260	227	71
712	598	114	228	71
725	598	127	229	71
759	598	161	230	71
742	598	144	231	71
695	598	97	232	71
911	598	313	233	71
749	598	151	234	71
849	598	251	235	71
766	598	168	236	71
765	598	167	237	71
792	598	194	238	71
715	598	117	239	71
648	598	50	240	71
581	598	-17	240	72
638	598	40	241	72
676	598	78	242	72
749	598	151	243	72
768	598	170	244	72
711	598	113	245	72
590	598	-8	245	73
745	598	147	246	73
338	598	-260	246	74
829	598	231	247	74
734	598	136	248	74
758	598	160	249	74
1090	598	492	250	74
592	598	-6	250	75
1210	598	612	251	75

902	598	304	252	75
3180	598	2582	253	75
620	598	22	254	75
870	787	83	255	75
812	787	25	256	75
674	787	-113	256	76
813	787	26	257	76
812	787	25	258	76
1030	787	243	259	76
860	787	73	260	76
715	787	-72	260	77
595	787	-192	260	78
714	787	-73	260	79
640	787	-147	260	80
858	787	71	261	80
712	787	-75	261	81
725	787	-62	261	82
759	787	-28	261	83
742	787	-45	261	84
695	787	-92	261	85
911	787	124	262	85
749	787	-38	262	86
849	787	62	263	86
766	787	-21	263	87
765	787	-22	263	88
792	787	5	264	88
715	787	-72	264	89
648	787	-139	264	90
581	787	-206	264	91
638	787	-149	264	92
676	787	-111	264	93
749	787	-38	264	94
768	787	-19	264	95
711	787	-76	264	96
590	787	-197	264	97
745	787	-42	264	98
338	787	-449	264	99
829	787	42	265	99
734	787	-53	265	100
758	787	-29	265	101
1090	787	303	266	101
592	787	-195	266	102
1210	787	423	267	102
902	787	115	268	102
3180	787	2393	269	102
620	787	-167	269	103
812	870	-58	269	104
674	870	-196	269	105
813	870	-57	269	106
812	870	-58	269	107
1030	870	160	270	107
860	870	-10	270	108
715	870	-155	270	109
595	870	-275	270	110
714	870	-156	270	111

640	870	-230	270	112
858	870	-12	270	113
712	870	-158	270	114
725	870	-145	270	115
759	870	-111	270	116
742	870	-128	270	117
695	870	-175	270	118
911	870	41	271	118
749	870	-121	271	119
849	870	-21	271	120
766	870	-104	271	121
765	870	-105	271	122
792	870	-78	271	123
715	870	-155	271	124
648	870	-222	271	125
581	870	-289	271	126
638	870	-232	271	127
676	870	-194	271	128
749	870	-121	271	129
768	870	-102	271	130
711	870	-159	271	131
590	870	-280	271	132
745	870	-125	271	133
338	870	-532	271	134
829	870	-41	271	135
734	870	-136	271	136
758	870	-112	271	137
1090	870	220	272	137
592	870	-278	272	138
1210	870	340	273	138
902	870	32	274	138
3180	870	2310	275	138
620	870	-250	275	139

674	812	-138	275	140
813	812	1	276	140
812	812	0	276	140
1030	812	218	277	140
860	812	48	278	140
715	812	-97	278	141
595	812	-217	278	142
714	812	-98	278	143
640	812	-172	278	144
858	812	46	279	144
712	812	-100	279	145
725	812	-87	279	146
759	812	-53	279	147
742	812	-70	279	148
695	812	-117	279	149
911	812	99	280	149
749	812	-63	280	150
849	812	37	281	150
766	812	-46	281	151
765	812	-47	281	152
792	812	-20	281	153
715	812	-97	281	154
648	812	-164	281	155

581	812	-231	281	156
638	812	-174	281	157
676	812	-136	281	158
749	812	-63	281	159
768	812	-44	281	160
711	812	-101	281	161
590	812	-222	281	162
745	812	-67	281	163
338	812	-474	281	164
829	812	17	282	164
734	812	-78	282	165
758	812	-54	282	166
1090	812	278	283	166
592	812	-220	283	167
1210	812	398	284	167
902	812	90	285	167
3180	812	2368	286	167
620	812	-192	286	168

813	674	139	287	168
812	674	138	288	168
1030	674	356	289	168
860	674	186	290	168
715	674	41	291	168
595	674	-79	291	169
714	674	40	292	169
640	674	-34	292	170
858	674	184	293	170
712	674	38	294	170
725	674	51	295	170
759	674	85	296	170
742	674	68	297	170
695	674	21	298	170
911	674	237	299	170
749	674	75	300	170
849	674	175	301	170
766	674	92	302	170
765	674	91	303	170
792	674	118	304	170
715	674	41	305	170
648	674	-26	305	171
581	674	-93	305	172
638	674	-36	305	173
676	674	2	306	173
749	674	75	307	173
768	674	94	308	173
711	674	37	309	173
590	674	-84	309	174
745	674	71	310	174
338	674	-336	310	175
829	674	155	311	175
734	674	60	312	175
758	674	84	313	175
1090	674	416	314	175
592	674	-82	314	176
1210	674	536	315	176
902	674	228	316	176

3180	674	2506	317	176
620	674	-54	317	177

812	813	-1	317	178
1030	813	217	318	178
860	813	47	319	178
715	813	-98	319	179
595	813	-218	319	180
714	813	-99	319	181
640	813	-173	319	182
858	813	45	320	182
712	813	-101	320	183
725	813	-88	320	184
759	813	-54	320	185
742	813	-71	320	186
695	813	-118	320	187
911	813	98	321	187
749	813	-64	321	188
849	813	36	322	188
766	813	-47	322	189
765	813	-48	322	190
792	813	-21	322	191
715	813	-98	322	192
648	813	-165	322	193
581	813	-232	322	194
638	813	-175	322	195
676	813	-137	322	196
749	813	-64	322	197
768	813	-45	322	198
711	813	-102	322	199
590	813	-223	322	200
745	813	-68	322	201
338	813	-475	322	202
829	813	16	323	202
734	813	-79	323	203
758	813	-55	323	204
1090	813	277	324	204
592	813	-221	324	205
1210	813	397	325	205
902	813	89	326	205
3180	813	2367	327	205
620	813	-193	327	206

1030	812	218	328	206
860	812	48	329	206
715	812	-97	329	207
595	812	-217	329	208
714	812	-98	329	209
640	812	-172	329	210
858	812	46	330	210
712	812	-100	330	211
725	812	-87	330	212
759	812	-53	330	213
742	812	-70	330	214
695	812	-117	330	215
911	812	99	331	215
749	812	-63	331	216

849	812	37	332	216
766	812	-46	332	217
765	812	-47	332	218
792	812	-20	332	219
715	812	-97	332	220
648	812	-164	332	221
581	812	-231	332	222
638	812	-174	332	223
676	812	-136	332	224
749	812	-63	332	225
768	812	-44	332	226
711	812	-101	332	227
590	812	-222	332	228
745	812	-67	332	229
338	812	-474	332	230
829	812	17	333	230
734	812	-78	333	231
758	812	-54	333	232
1090	812	278	334	232
592	812	-220	334	233
1210	812	398	335	233
902	812	90	336	233
3180	812	2368	337	233
620	812	-192	337	234
860	1030	-170	337	235
715	1030	-315	337	236
595	1030	-435	337	237
714	1030	-316	337	238
640	1030	-390	337	239
858	1030	-172	337	240
712	1030	-318	337	241
725	1030	-305	337	242
759	1030	-271	337	243
742	1030	-288	337	244
695	1030	-335	337	245
911	1030	-119	337	246
749	1030	-281	337	247
849	1030	-181	337	248
766	1030	-264	337	249
765	1030	-265	337	250
792	1030	-238	337	251
715	1030	-315	337	252
648	1030	-382	337	253
581	1030	-449	337	254
638	1030	-392	337	255
676	1030	-354	337	256
749	1030	-281	337	257
768	1030	-262	337	258
711	1030	-319	337	259
590	1030	-440	337	260
745	1030	-285	337	261
338	1030	-692	337	262
829	1030	-201	337	263
734	1030	-296	337	264
758	1030	-272	337	265
1090	1030	60	338	265

592	1030	-438	338	266
1210	1030	180	339	266
902	1030	-128	339	267
3180	1030	2150	340	267
620	1030	-410	340	268
715	860	-145	340	269
595	860	-265	340	270
714	860	-146	340	271
640	860	-220	340	272
858	860	-2	340	273
712	860	-148	340	274
725	860	-135	340	275
759	860	-101	340	276
742	860	-118	340	277
695	860	-165	340	278
911	860	51	341	278
749	860	-111	341	279
849	860	-11	341	280
766	860	-94	341	281
765	860	-95	341	282
792	860	-68	341	283
715	860	-145	341	284
648	860	-212	341	285
581	860	-279	341	286
638	860	-222	341	287
676	860	-184	341	288
749	860	-111	341	289
768	860	-92	341	290
711	860	-149	341	291
590	860	-270	341	292
745	860	-115	341	293
338	860	-522	341	294
829	860	-31	341	295
734	860	-126	341	296
758	860	-102	341	297
1090	860	230	342	297
592	860	-268	342	298
1210	860	350	343	298
902	860	42	344	298
3180	860	2320	345	298
620	860	-240	345	299
595	715	-120	345	300
714	715	-1	345	301
640	715	-75	345	302
858	715	143	346	302
712	715	-3	346	303
725	715	10	347	303
759	715	44	348	303
742	715	27	349	303
695	715	-20	349	304
911	715	196	350	304
749	715	34	351	304
849	715	134	352	304
766	715	51	353	304
765	715	50	354	304

792	715	77	355	304
715	715	0	355	304
648	715	-67	355	305
581	715	-134	355	306
638	715	-77	355	307
676	715	-39	355	308
749	715	34	356	308
768	715	53	357	308
711	715	-4	357	309
590	715	-125	357	310
745	715	30	358	310
338	715	-377	358	311
829	715	114	359	311
734	715	19	360	311
758	715	43	361	311
1090	715	375	362	311
592	715	-123	362	312
1210	715	495	363	312
902	715	187	364	312
3180	715	2465	365	312
620	715	-95	365	313

714	595	119	366	313
640	595	45	367	313
858	595	263	368	313
712	595	117	369	313
725	595	130	370	313
759	595	164	371	313
742	595	147	372	313
695	595	100	373	313
911	595	316	374	313
749	595	154	375	313
849	595	254	376	313
766	595	171	377	313
765	595	170	378	313
792	595	197	379	313
715	595	120	380	313
648	595	53	381	313
581	595	-14	381	314
638	595	43	382	314
676	595	81	383	314
749	595	154	384	314
768	595	173	385	314
711	595	116	386	314
590	595	-5	386	315
745	595	150	387	315
338	595	-257	387	316
829	595	234	388	316
734	595	139	389	316
758	595	163	390	316
1090	595	495	391	316
592	595	-3	391	317
1210	595	615	392	317
902	595	307	393	317
3180	595	2585	394	317
620	595	25	395	317

640	714	-74	395	318
858	714	144	396	318
712	714	-2	396	319
725	714	11	397	319
759	714	45	398	319
742	714	28	399	319
695	714	-19	399	320
911	714	197	400	320
749	714	35	401	320
849	714	135	402	320
766	714	52	403	320
765	714	51	404	320
792	714	78	405	320
715	714	1	406	320
648	714	-66	406	321
581	714	-133	406	322
638	714	-76	406	323
676	714	-38	406	324
749	714	35	407	324
768	714	54	408	324
711	714	-3	408	325
590	714	-124	408	326
745	714	31	409	326
338	714	-376	409	327
829	714	115	410	327
734	714	20	411	327
758	714	44	412	327
1090	714	376	413	327
592	714	-122	413	328
1210	714	496	414	328
902	714	188	415	328
3180	714	2466	416	328
620	714	-94	416	329

858	640	218	417	329
712	640	72	418	329
725	640	85	419	329
759	640	119	420	329
742	640	102	421	329
695	640	55	422	329
911	640	271	423	329
749	640	109	424	329
849	640	209	425	329
766	640	126	426	329
765	640	125	427	329
792	640	152	428	329
715	640	75	429	329
648	640	8	430	329
581	640	-59	430	330
638	640	-2	430	331
676	640	36	431	331
749	640	109	432	331
768	640	128	433	331
711	640	71	434	331
590	640	-50	434	332
745	640	105	435	332
338	640	-302	435	333

829	640	189	436	333
734	640	94	437	333
758	640	118	438	333
1090	640	450	439	333
592	640	-48	439	334
1210	640	570	440	334
902	640	262	441	334
3180	640	2540	442	334
620	640	-20	442	335

712	858	-146	442	336
725	858	-133	442	337
759	858	-99	442	338
742	858	-116	442	339
695	858	-163	442	340
911	858	53	443	340
749	858	-109	443	341
849	858	-9	443	342
766	858	-92	443	343
765	858	-93	443	344
792	858	-66	443	345
715	858	-143	443	346
648	858	-210	443	347
581	858	-277	443	348
638	858	-220	443	349
676	858	-182	443	350
749	858	-109	443	351
768	858	-90	443	352
711	858	-147	443	353
590	858	-268	443	354
745	858	-113	443	355
338	858	-520	443	356
829	858	-29	443	357
734	858	-124	443	358
758	858	-100	443	359
1090	858	232	444	359
592	858	-266	444	360
1210	858	352	445	360
902	858	44	446	360
3180	858	2322	447	360
620	858	-238	447	361

725	712	13	448	361
759	712	47	449	361
742	712	30	450	361
695	712	-17	450	362
911	712	199	451	362
749	712	37	452	362
849	712	137	453	362
766	712	54	454	362
765	712	53	455	362
792	712	80	456	362
715	712	3	457	362
648	712	-64	457	363
581	712	-131	457	364
638	712	-74	457	365
676	712	-36	457	366

749	712	37	458	366
768	712	56	459	366
711	712	-1	459	367
590	712	-122	459	368
745	712	33	460	368
338	712	-374	460	369
829	712	117	461	369
734	712	22	462	369
758	712	46	463	369
1090	712	378	464	369
592	712	-120	464	370
1210	712	498	465	370
902	712	190	466	370
3180	712	2468	467	370
620	712	-92	467	371
759	725	34	468	371
742	725	17	469	371
695	725	-30	469	372
911	725	186	470	372
749	725	24	471	372
849	725	124	472	372
766	725	41	473	372
765	725	40	474	372
792	725	67	475	372
715	725	-10	475	373
648	725	-77	475	374
581	725	-144	475	375
638	725	-87	475	376
676	725	-49	475	377
749	725	24	476	377
768	725	43	477	377
711	725	-14	477	378
590	725	-135	477	379
745	725	20	478	379
338	725	-387	478	380
829	725	104	479	380
734	725	9	480	380
758	725	33	481	380
1090	725	365	482	380
592	725	-133	482	381
1210	725	485	483	381
902	725	177	484	381
3180	725	2455	485	381
620	725	-105	485	382
742	759	-17	485	383
695	759	-64	485	384
911	759	152	486	384
749	759	-10	486	385
849	759	90	487	385
766	759	7	488	385
765	759	6	489	385
792	759	33	490	385
715	759	-44	490	386
648	759	-111	490	387
581	759	-178	490	388

638	759	-121	490	389
676	759	-83	490	390
749	759	-10	490	391
768	759	9	491	391
711	759	-48	491	392
590	759	-169	491	393
745	759	-14	491	394
338	759	-421	491	395
829	759	70	492	395
734	759	-25	492	396
758	759	-1	492	397
1090	759	331	493	397
592	759	-167	493	398
1210	759	451	494	398
902	759	143	495	398
3180	759	2421	496	398
620	759	-139	496	399
695	742	-47	496	400
911	742	169	497	400
749	742	7	498	400
849	742	107	499	400
766	742	24	500	400
765	742	23	501	400
792	742	50	502	400
715	742	-27	502	401
648	742	-94	502	402
581	742	-161	502	403
638	742	-104	502	404
676	742	-66	502	405
749	742	7	503	405
768	742	26	504	405
711	742	-31	504	406
590	742	-152	504	407
745	742	3	505	407
338	742	-404	505	408
829	742	87	506	408
734	742	-8	506	409
758	742	16	507	409
1090	742	348	508	409
592	742	-150	508	410
1210	742	468	509	410
902	742	160	510	410
3180	742	2438	511	410
620	742	-122	511	411
911	695	216	512	411
749	695	54	513	411
849	695	154	514	411
766	695	71	515	411
765	695	70	516	411
792	695	97	517	411
715	695	20	518	411
648	695	-47	518	412
581	695	-114	518	413
638	695	-57	518	414
676	695	-19	518	415

749	695	54	519	415
768	695	73	520	415
711	695	16	521	415
590	695	-105	521	416
745	695	50	522	416
338	695	-357	522	417
829	695	134	523	417
734	695	39	524	417
758	695	63	525	417
1090	695	395	526	417
592	695	-103	526	418
1210	695	515	527	418
902	695	207	528	418
3180	695	2485	529	418
620	695	-75	529	419
749	911	-162	529	420
849	911	-62	529	421
766	911	-145	529	422
765	911	-146	529	423
792	911	-119	529	424
715	911	-196	529	425
648	911	-263	529	426
581	911	-330	529	427
638	911	-273	529	428
676	911	-235	529	429
749	911	-162	529	430
768	911	-143	529	431
711	911	-200	529	432
590	911	-321	529	433
745	911	-166	529	434
338	911	-573	529	435
829	911	-82	529	436
734	911	-177	529	437
758	911	-153	529	438
1090	911	179	530	438
592	911	-319	530	439
1210	911	299	531	439
902	911	-9	531	440
3180	911	2269	532	440
620	911	-291	532	441
849	749	100	533	441
766	749	17	534	441
765	749	16	535	441
792	749	43	536	441
715	749	-34	536	442
648	749	-101	536	443
581	749	-168	536	444
638	749	-111	536	445
676	749	-73	536	446
749	749	0	536	446
768	749	19	537	446
711	749	-38	537	447
590	749	-159	537	448
745	749	-4	537	449
338	749	-411	537	450

829	749	80	538	450
734	749	-15	538	451
758	749	9	539	451
1090	749	341	540	451
592	749	-157	540	452
1210	749	461	541	452
902	749	153	542	452
3180	749	2431	543	452
620	749	-129	543	453
766	849	-83	543	454
765	849	-84	543	455
792	849	-57	543	456
715	849	-134	543	457
648	849	-201	543	458
581	849	-268	543	459
638	849	-211	543	460
676	849	-173	543	461
749	849	-100	543	462
768	849	-81	543	463
711	849	-138	543	464
590	849	-259	543	465
745	849	-104	543	466
338	849	-511	543	467
829	849	-20	543	468
734	849	-115	543	469
758	849	-91	543	470
1090	849	241	544	470
592	849	-257	544	471
1210	849	361	545	471
902	849	53	546	471
3180	849	2331	547	471
620	849	-229	547	472
765	766	-1	547	473
792	766	26	548	473
715	766	-51	548	474
648	766	-118	548	475
581	766	-185	548	476
638	766	-128	548	477
676	766	-90	548	478
749	766	-17	548	479
768	766	2	549	479
711	766	-55	549	480
590	766	-176	549	481
745	766	-21	549	482
338	766	-428	549	483
829	766	63	550	483
734	766	-32	550	484
758	766	-8	550	485
1090	766	324	551	485
592	766	-174	551	486
1210	766	444	552	486
902	766	136	553	486
3180	766	2414	554	486
620	766	-146	554	487

792	765	27	555	487
715	765	-50	555	488
648	765	-117	555	489
581	765	-184	555	490
638	765	-127	555	491
676	765	-89	555	492
749	765	-16	555	493
768	765	3	556	493
711	765	-54	556	494
590	765	-175	556	495
745	765	-20	556	496
338	765	-427	556	497
829	765	64	557	497
734	765	-31	557	498
758	765	-7	557	499
1090	765	325	558	499
592	765	-173	558	500
1210	765	445	559	500
902	765	137	560	500
3180	765	2415	561	500
620	765	-145	561	501
715	792	-77	561	502
648	792	-144	561	503
581	792	-211	561	504
638	792	-154	561	505
676	792	-116	561	506
749	792	-43	561	507
768	792	-24	561	508
711	792	-81	561	509
590	792	-202	561	510
745	792	-47	561	511
338	792	-454	561	512
829	792	37	562	512
734	792	-58	562	513
758	792	-34	562	514
1090	792	298	563	514
592	792	-200	563	515
1210	792	418	564	515
902	792	110	565	515
3180	792	2388	566	515
620	792	-172	566	516
648	715	-67	566	517
581	715	-134	566	518
638	715	-77	566	519
676	715	-39	566	520
749	715	34	567	520
768	715	53	568	520
711	715	-4	568	521
590	715	-125	568	522
745	715	30	569	522
338	715	-377	569	523
829	715	114	570	523
734	715	19	571	523
758	715	43	572	523
1090	715	375	573	523

592	715	-123	573	524
1210	715	495	574	524
902	715	187	575	524
3180	715	2465	576	524
620	715	-95	576	525

581	648	-67	576	526
638	648	-10	576	527
676	648	28	577	527
749	648	101	578	527
768	648	120	579	527
711	648	63	580	527
590	648	-58	580	528
745	648	97	581	528
338	648	-310	581	529
829	648	181	582	529
734	648	86	583	529
758	648	110	584	529
1090	648	442	585	529
592	648	-56	585	530
1210	648	562	586	530
902	648	254	587	530
3180	648	2532	588	530
620	648	-28	588	531

638	581	57	589	531
676	581	95	590	531
749	581	168	591	531
768	581	187	592	531
711	581	130	593	531
590	581	9	594	531
745	581	164	595	531
338	581	-243	595	532
829	581	248	596	532
734	581	153	597	532
758	581	177	598	532
1090	581	509	599	532
592	581	11	600	532
1210	581	629	601	532
902	581	321	602	532
3180	581	2599	603	532
620	581	39	604	532

676	638	38	605	532
749	638	111	606	532
768	638	130	607	532
711	638	73	608	532
590	638	-48	608	533
745	638	107	609	533
338	638	-300	609	534
829	638	191	610	534
734	638	96	611	534
758	638	120	612	534
1090	638	452	613	534
592	638	-46	613	535
1210	638	572	614	535
902	638	264	615	535

3180	638	2542	616	535
620	638	-18	616	536
749	676	73	617	536
768	676	92	618	536
711	676	35	619	536
590	676	-86	619	537
745	676	69	620	537
338	676	-338	620	538
829	676	153	621	538
734	676	58	622	538
758	676	82	623	538
1090	676	414	624	538
592	676	-84	624	539
1210	676	534	625	539
902	676	226	626	539
3180	676	2504	627	539
620	676	-56	627	540
768	749	19	628	540
711	749	-38	628	541
590	749	-159	628	542
745	749	-4	628	543
338	749	-411	628	544
829	749	80	629	544
734	749	-15	629	545
758	749	9	630	545
1090	749	341	631	545
592	749	-157	631	546
1210	749	461	632	546
902	749	153	633	546
3180	749	2431	634	546
620	749	-129	634	547
711	768	-57	634	548
590	768	-178	634	549
745	768	-23	634	550
338	768	-430	634	551
829	768	61	635	551
734	768	-34	635	552
758	768	-10	635	553
1090	768	322	636	553
592	768	-176	636	554
1210	768	442	637	554
902	768	134	638	554
3180	768	2412	639	554
620	768	-148	639	555
590	711	-121	639	556
745	711	34	640	556
338	711	-373	640	557
829	711	118	641	557
734	711	23	642	557
758	711	47	643	557
1090	711	379	644	557
592	711	-119	644	558
1210	711	499	645	558

902	711	191	646	558
3180	711	2469	647	558
620	711	-91	647	559
745	590	155	648	559
338	590	-252	648	560
829	590	239	649	560
734	590	144	650	560
758	590	168	651	560
1090	590	500	652	560
592	590	2	653	560
1210	590	620	654	560
902	590	312	655	560
3180	590	2590	656	560
620	590	30	657	560
338	745	-407	657	561
829	745	84	658	561
734	745	-11	658	562
758	745	13	659	562
1090	745	345	660	562
592	745	-153	660	563
1210	745	465	661	563
902	745	157	662	563
3180	745	2435	663	563
620	745	-125	663	564
829	338	491	664	564
734	338	396	665	564
758	338	420	666	564
1090	338	752	667	564
592	338	254	668	564
1210	338	872	669	564
902	338	564	670	564
3180	338	2842	671	564
620	338	282	672	564
734	829	-95	672	565
758	829	-71	672	566
1090	829	261	673	566
592	829	-237	673	567
1210	829	381	674	567
902	829	73	675	567
3180	829	2351	676	567
620	829	-209	676	568
758	734	24	677	568
1090	734	356	678	568
592	734	-142	678	569
1210	734	476	679	569
902	734	168	680	569
3180	734	2446	681	569
620	734	-114	681	570
1090	758	332	682	570
592	758	-166	682	571
1210	758	452	683	571

902	758	144	684	571
3180	758	2422	685	571
620	758	-138	685	572
592	1090	-498	685	573
1210	1090	120	686	573
902	1090	-188	686	574
3180	1090	2090	687	574
620	1090	-470	687	575
1210	592	618	688	575
902	592	310	689	575
3180	592	2588	690	575
620	592	28	691	575
902	1210	-308	691	576
3180	1210	1970	692	576
620	1210	-590	692	577
3180	902	2278	693	577
620	902	-282	693	578
620	3180	-2560	693	579

S Statistic = 693 - 579 = 114

Tied Group	**Value**	**Members**
1	812	2
2	715	2
3	749	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1

12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 54
B = 0
C = 0
D = 0
E = 6
F = 0
a = 272850
b = 1.12455e+006
c = 5100
Group Variance = 15155.3
Z-Score = 0.917901
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|0.917901| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
606	738	-132	0	1
649	738	-89	0	2
575	738	-163	0	3
591	738	-147	0	4
691	738	-47	0	5
598	738	-140	0	6
728	738	-10	0	7
846	738	108	1	7
859	738	121	2	7
677	738	-61	2	8
832	738	94	3	8
775	738	37	4	8
912	738	174	5	8
751	738	13	6	8
720	738	-18	6	9
656	738	-82	6	10
687	738	-51	6	11
647	738	-91	6	12
776	738	38	7	12
672	738	-66	7	13
720	738	-18	7	14
637	738	-101	7	15
723	738	-15	7	16
774	738	36	8	16
1210	738	472	9	16
726	738	-12	9	17
755	738	17	10	17
743	738	5	11	17
768	738	30	12	17
749	738	11	13	17
729	738	-9	13	18
654	738	-84	13	19
588	738	-150	13	20
628	738	-110	13	21
682	738	-56	13	22
765	738	27	14	22
788	738	50	15	22
684	738	-54	15	23
458	738	-280	15	24
740	738	2	16	24
1440	738	702	17	24
1090	738	352	18	24
751	738	13	19	24
722	738	-16	19	25
1100	738	362	20	25
620	738	-118	20	26
1180	738	442	21	26

1020	738	282	22	26
3340	738	2602	23	26
670	738	-68	23	27
649	606	43	24	27
575	606	-31	24	28
591	606	-15	24	29
691	606	85	25	29
598	606	-8	25	30
728	606	122	26	30
846	606	240	27	30
859	606	253	28	30
677	606	71	29	30
832	606	226	30	30
775	606	169	31	30
912	606	306	32	30
751	606	145	33	30
720	606	114	34	30
656	606	50	35	30
687	606	81	36	30
647	606	41	37	30
776	606	170	38	30
672	606	66	39	30
720	606	114	40	30
637	606	31	41	30
723	606	117	42	30
774	606	168	43	30
1210	606	604	44	30
726	606	120	45	30
755	606	149	46	30
743	606	137	47	30
768	606	162	48	30
749	606	143	49	30
729	606	123	50	30
654	606	48	51	30
588	606	-18	51	31
628	606	22	52	31
682	606	76	53	31
765	606	159	54	31
788	606	182	55	31
684	606	78	56	31
458	606	-148	56	32
740	606	134	57	32
1440	606	834	58	32
1090	606	484	59	32
751	606	145	60	32
722	606	116	61	32
1100	606	494	62	32
620	606	14	63	32
1180	606	574	64	32
1020	606	414	65	32
3340	606	2734	66	32
670	606	64	67	32
575	649	-74	67	33
591	649	-58	67	34
691	649	42	68	34

598	649	-51	68	35
728	649	79	69	35
846	649	197	70	35
859	649	210	71	35
677	649	28	72	35
832	649	183	73	35
775	649	126	74	35
912	649	263	75	35
751	649	102	76	35
720	649	71	77	35
656	649	7	78	35
687	649	38	79	35
647	649	-2	79	36
776	649	127	80	36
672	649	23	81	36
720	649	71	82	36
637	649	-12	82	37
723	649	74	83	37
774	649	125	84	37
1210	649	561	85	37
726	649	77	86	37
755	649	106	87	37
743	649	94	88	37
768	649	119	89	37
749	649	100	90	37
729	649	80	91	37
654	649	5	92	37
588	649	-61	92	38
628	649	-21	92	39
682	649	33	93	39
765	649	116	94	39
788	649	139	95	39
684	649	35	96	39
458	649	-191	96	40
740	649	91	97	40
1440	649	791	98	40
1090	649	441	99	40
751	649	102	100	40
722	649	73	101	40
1100	649	451	102	40
620	649	-29	102	41
1180	649	531	103	41
1020	649	371	104	41
3340	649	2691	105	41
670	649	21	106	41
591	575	16	107	41
691	575	116	108	41
598	575	23	109	41
728	575	153	110	41
846	575	271	111	41
859	575	284	112	41
677	575	102	113	41
832	575	257	114	41
775	575	200	115	41
912	575	337	116	41
751	575	176	117	41

720	575	145	118	41
656	575	81	119	41
687	575	112	120	41
647	575	72	121	41
776	575	201	122	41
672	575	97	123	41
720	575	145	124	41
637	575	62	125	41
723	575	148	126	41
774	575	199	127	41
1210	575	635	128	41
726	575	151	129	41
755	575	180	130	41
743	575	168	131	41
768	575	193	132	41
749	575	174	133	41
729	575	154	134	41
654	575	79	135	41
588	575	13	136	41
628	575	53	137	41
682	575	107	138	41
765	575	190	139	41
788	575	213	140	41
684	575	109	141	41
458	575	-117	141	42
740	575	165	142	42
1440	575	865	143	42
1090	575	515	144	42
751	575	176	145	42
722	575	147	146	42
1100	575	525	147	42
620	575	45	148	42
1180	575	605	149	42
1020	575	445	150	42
3340	575	2765	151	42
670	575	95	152	42
691	591	100	153	42
598	591	7	154	42
728	591	137	155	42
846	591	255	156	42
859	591	268	157	42
677	591	86	158	42
832	591	241	159	42
775	591	184	160	42
912	591	321	161	42
751	591	160	162	42
720	591	129	163	42
656	591	65	164	42
687	591	96	165	42
647	591	56	166	42
776	591	185	167	42
672	591	81	168	42
720	591	129	169	42
637	591	46	170	42
723	591	132	171	42
774	591	183	172	42

1210	591	619	173	42
726	591	135	174	42
755	591	164	175	42
743	591	152	176	42
768	591	177	177	42
749	591	158	178	42
729	591	138	179	42
654	591	63	180	42
588	591	-3	180	43
628	591	37	181	43
682	591	91	182	43
765	591	174	183	43
788	591	197	184	43
684	591	93	185	43
458	591	-133	185	44
740	591	149	186	44
1440	591	849	187	44
1090	591	499	188	44
751	591	160	189	44
722	591	131	190	44
1100	591	509	191	44
620	591	29	192	44
1180	591	589	193	44
1020	591	429	194	44
3340	591	2749	195	44
670	591	79	196	44

598	691	-93	196	45
728	691	37	197	45
846	691	155	198	45
859	691	168	199	45
677	691	-14	199	46
832	691	141	200	46
775	691	84	201	46
912	691	221	202	46
751	691	60	203	46
720	691	29	204	46
656	691	-35	204	47
687	691	-4	204	48
647	691	-44	204	49
776	691	85	205	49
672	691	-19	205	50
720	691	29	206	50
637	691	-54	206	51
723	691	32	207	51
774	691	83	208	51
1210	691	519	209	51
726	691	35	210	51
755	691	64	211	51
743	691	52	212	51
768	691	77	213	51
749	691	58	214	51
729	691	38	215	51
654	691	-37	215	52
588	691	-103	215	53
628	691	-63	215	54
682	691	-9	215	55

765	691	74	216	55
788	691	97	217	55
684	691	-7	217	56
458	691	-233	217	57
740	691	49	218	57
1440	691	749	219	57
1090	691	399	220	57
751	691	60	221	57
722	691	31	222	57
1100	691	409	223	57
620	691	-71	223	58
1180	691	489	224	58
1020	691	329	225	58
3340	691	2649	226	58
670	691	-21	226	59

728	598	130	227	59
846	598	248	228	59
859	598	261	229	59
677	598	79	230	59
832	598	234	231	59
775	598	177	232	59
912	598	314	233	59
751	598	153	234	59
720	598	122	235	59
656	598	58	236	59
687	598	89	237	59
647	598	49	238	59
776	598	178	239	59
672	598	74	240	59
720	598	122	241	59
637	598	39	242	59
723	598	125	243	59
774	598	176	244	59
1210	598	612	245	59
726	598	128	246	59
755	598	157	247	59
743	598	145	248	59
768	598	170	249	59
749	598	151	250	59
729	598	131	251	59
654	598	56	252	59
588	598	-10	252	60
628	598	30	253	60
682	598	84	254	60
765	598	167	255	60
788	598	190	256	60
684	598	86	257	60
458	598	-140	257	61
740	598	142	258	61
1440	598	842	259	61
1090	598	492	260	61
751	598	153	261	61
722	598	124	262	61
1100	598	502	263	61
620	598	22	264	61
1180	598	582	265	61

1020	598	422	266	61
3340	598	2742	267	61
670	598	72	268	61
846	728	118	269	61
859	728	131	270	61
677	728	-51	270	62
832	728	104	271	62
775	728	47	272	62
912	728	184	273	62
751	728	23	274	62
720	728	-8	274	63
656	728	-72	274	64
687	728	-41	274	65
647	728	-81	274	66
776	728	48	275	66
672	728	-56	275	67
720	728	-8	275	68
637	728	-91	275	69
723	728	-5	275	70
774	728	46	276	70
1210	728	482	277	70
726	728	-2	277	71
755	728	27	278	71
743	728	15	279	71
768	728	40	280	71
749	728	21	281	71
729	728	1	282	71
654	728	-74	282	72
588	728	-140	282	73
628	728	-100	282	74
682	728	-46	282	75
765	728	37	283	75
788	728	60	284	75
684	728	-44	284	76
458	728	-270	284	77
740	728	12	285	77
1440	728	712	286	77
1090	728	362	287	77
751	728	23	288	77
722	728	-6	288	78
1100	728	372	289	78
620	728	-108	289	79
1180	728	452	290	79
1020	728	292	291	79
3340	728	2612	292	79
670	728	-58	292	80
859	846	13	293	80
677	846	-169	293	81
832	846	-14	293	82
775	846	-71	293	83
912	846	66	294	83
751	846	-95	294	84
720	846	-126	294	85
656	846	-190	294	86
687	846	-159	294	87

647	846	-199	294	88
776	846	-70	294	89
672	846	-174	294	90
720	846	-126	294	91
637	846	-209	294	92
723	846	-123	294	93
774	846	-72	294	94
1210	846	364	295	94
726	846	-120	295	95
755	846	-91	295	96
743	846	-103	295	97
768	846	-78	295	98
749	846	-97	295	99
729	846	-117	295	100
654	846	-192	295	101
588	846	-258	295	102
628	846	-218	295	103
682	846	-164	295	104
765	846	-81	295	105
788	846	-58	295	106
684	846	-162	295	107
458	846	-388	295	108
740	846	-106	295	109
1440	846	594	296	109
1090	846	244	297	109
751	846	-95	297	110
722	846	-124	297	111
1100	846	254	298	111
620	846	-226	298	112
1180	846	334	299	112
1020	846	174	300	112
3340	846	2494	301	112
670	846	-176	301	113

677	859	-182	301	114
832	859	-27	301	115
775	859	-84	301	116
912	859	53	302	116
751	859	-108	302	117
720	859	-139	302	118
656	859	-203	302	119
687	859	-172	302	120
647	859	-212	302	121
776	859	-83	302	122
672	859	-187	302	123
720	859	-139	302	124
637	859	-222	302	125
723	859	-136	302	126
774	859	-85	302	127
1210	859	351	303	127
726	859	-133	303	128
755	859	-104	303	129
743	859	-116	303	130
768	859	-91	303	131
749	859	-110	303	132
729	859	-130	303	133
654	859	-205	303	134

588	859	-271	303	135
628	859	-231	303	136
682	859	-177	303	137
765	859	-94	303	138
788	859	-71	303	139
684	859	-175	303	140
458	859	-401	303	141
740	859	-119	303	142
1440	859	581	304	142
1090	859	231	305	142
751	859	-108	305	143
722	859	-137	305	144
1100	859	241	306	144
620	859	-239	306	145
1180	859	321	307	145
1020	859	161	308	145
3340	859	2481	309	145
670	859	-189	309	146

832	677	155	310	146
775	677	98	311	146
912	677	235	312	146
751	677	74	313	146
720	677	43	314	146
656	677	-21	314	147
687	677	10	315	147
647	677	-30	315	148
776	677	99	316	148
672	677	-5	316	149
720	677	43	317	149
637	677	-40	317	150
723	677	46	318	150
774	677	97	319	150
1210	677	533	320	150
726	677	49	321	150
755	677	78	322	150
743	677	66	323	150
768	677	91	324	150
749	677	72	325	150
729	677	52	326	150
654	677	-23	326	151
588	677	-89	326	152
628	677	-49	326	153
682	677	5	327	153
765	677	88	328	153
788	677	111	329	153
684	677	7	330	153
458	677	-219	330	154
740	677	63	331	154
1440	677	763	332	154
1090	677	413	333	154
751	677	74	334	154
722	677	45	335	154
1100	677	423	336	154
620	677	-57	336	155
1180	677	503	337	155
1020	677	343	338	155

3340	677	2663	339	155
670	677	-7	339	156
775	832	-57	339	157
912	832	80	340	157
751	832	-81	340	158
720	832	-112	340	159
656	832	-176	340	160
687	832	-145	340	161
647	832	-185	340	162
776	832	-56	340	163
672	832	-160	340	164
720	832	-112	340	165
637	832	-195	340	166
723	832	-109	340	167
774	832	-58	340	168
1210	832	378	341	168
726	832	-106	341	169
755	832	-77	341	170
743	832	-89	341	171
768	832	-64	341	172
749	832	-83	341	173
729	832	-103	341	174
654	832	-178	341	175
588	832	-244	341	176
628	832	-204	341	177
682	832	-150	341	178
765	832	-67	341	179
788	832	-44	341	180
684	832	-148	341	181
458	832	-374	341	182
740	832	-92	341	183
1440	832	608	342	183
1090	832	258	343	183
751	832	-81	343	184
722	832	-110	343	185
1100	832	268	344	185
620	832	-212	344	186
1180	832	348	345	186
1020	832	188	346	186
3340	832	2508	347	186
670	832	-162	347	187
912	775	137	348	187
751	775	-24	348	188
720	775	-55	348	189
656	775	-119	348	190
687	775	-88	348	191
647	775	-128	348	192
776	775	1	349	192
672	775	-103	349	193
720	775	-55	349	194
637	775	-138	349	195
723	775	-52	349	196
774	775	-1	349	197
1210	775	435	350	197
726	775	-49	350	198

755	775	-20	350	199
743	775	-32	350	200
768	775	-7	350	201
749	775	-26	350	202
729	775	-46	350	203
654	775	-121	350	204
588	775	-187	350	205
628	775	-147	350	206
682	775	-93	350	207
765	775	-10	350	208
788	775	13	351	208
684	775	-91	351	209
458	775	-317	351	210
740	775	-35	351	211
1440	775	665	352	211
1090	775	315	353	211
751	775	-24	353	212
722	775	-53	353	213
1100	775	325	354	213
620	775	-155	354	214
1180	775	405	355	214
1020	775	245	356	214
3340	775	2565	357	214
670	775	-105	357	215

751	912	-161	357	216
720	912	-192	357	217
656	912	-256	357	218
687	912	-225	357	219
647	912	-265	357	220
776	912	-136	357	221
672	912	-240	357	222
720	912	-192	357	223
637	912	-275	357	224
723	912	-189	357	225
774	912	-138	357	226
1210	912	298	358	226
726	912	-186	358	227
755	912	-157	358	228
743	912	-169	358	229
768	912	-144	358	230
749	912	-163	358	231
729	912	-183	358	232
654	912	-258	358	233
588	912	-324	358	234
628	912	-284	358	235
682	912	-230	358	236
765	912	-147	358	237
788	912	-124	358	238
684	912	-228	358	239
458	912	-454	358	240
740	912	-172	358	241
1440	912	528	359	241
1090	912	178	360	241
751	912	-161	360	242
722	912	-190	360	243
1100	912	188	361	243

620	912	-292	361	244
1180	912	268	362	244
1020	912	108	363	244
3340	912	2428	364	244
670	912	-242	364	245
720	751	-31	364	246
656	751	-95	364	247
687	751	-64	364	248
647	751	-104	364	249
776	751	25	365	249
672	751	-79	365	250
720	751	-31	365	251
637	751	-114	365	252
723	751	-28	365	253
774	751	23	366	253
1210	751	459	367	253
726	751	-25	367	254
755	751	4	368	254
743	751	-8	368	255
768	751	17	369	255
749	751	-2	369	256
729	751	-22	369	257
654	751	-97	369	258
588	751	-163	369	259
628	751	-123	369	260
682	751	-69	369	261
765	751	14	370	261
788	751	37	371	261
684	751	-67	371	262
458	751	-293	371	263
740	751	-11	371	264
1440	751	689	372	264
1090	751	339	373	264
751	751	0	373	264
722	751	-29	373	265
1100	751	349	374	265
620	751	-131	374	266
1180	751	429	375	266
1020	751	269	376	266
3340	751	2589	377	266
670	751	-81	377	267
656	720	-64	377	268
687	720	-33	377	269
647	720	-73	377	270
776	720	56	378	270
672	720	-48	378	271
720	720	0	378	271
637	720	-83	378	272
723	720	3	379	272
774	720	54	380	272
1210	720	490	381	272
726	720	6	382	272
755	720	35	383	272
743	720	23	384	272
768	720	48	385	272

749	720	29	386	272
729	720	9	387	272
654	720	-66	387	273
588	720	-132	387	274
628	720	-92	387	275
682	720	-38	387	276
765	720	45	388	276
788	720	68	389	276
684	720	-36	389	277
458	720	-262	389	278
740	720	20	390	278
1440	720	720	391	278
1090	720	370	392	278
751	720	31	393	278
722	720	2	394	278
1100	720	380	395	278
620	720	-100	395	279
1180	720	460	396	279
1020	720	300	397	279
3340	720	2620	398	279
670	720	-50	398	280
687	656	31	399	280
647	656	-9	399	281
776	656	120	400	281
672	656	16	401	281
720	656	64	402	281
637	656	-19	402	282
723	656	67	403	282
774	656	118	404	282
1210	656	554	405	282
726	656	70	406	282
755	656	99	407	282
743	656	87	408	282
768	656	112	409	282
749	656	93	410	282
729	656	73	411	282
654	656	-2	411	283
588	656	-68	411	284
628	656	-28	411	285
682	656	26	412	285
765	656	109	413	285
788	656	132	414	285
684	656	28	415	285
458	656	-198	415	286
740	656	84	416	286
1440	656	784	417	286
1090	656	434	418	286
751	656	95	419	286
722	656	66	420	286
1100	656	444	421	286
620	656	-36	421	287
1180	656	524	422	287
1020	656	364	423	287
3340	656	2684	424	287
670	656	14	425	287

647	687	-40	425	288
776	687	89	426	288
672	687	-15	426	289
720	687	33	427	289
637	687	-50	427	290
723	687	36	428	290
774	687	87	429	290
1210	687	523	430	290
726	687	39	431	290
755	687	68	432	290
743	687	56	433	290
768	687	81	434	290
749	687	62	435	290
729	687	42	436	290
654	687	-33	436	291
588	687	-99	436	292
628	687	-59	436	293
682	687	-5	436	294
765	687	78	437	294
788	687	101	438	294
684	687	-3	438	295
458	687	-229	438	296
740	687	53	439	296
1440	687	753	440	296
1090	687	403	441	296
751	687	64	442	296
722	687	35	443	296
1100	687	413	444	296
620	687	-67	444	297
1180	687	493	445	297
1020	687	333	446	297
3340	687	2653	447	297
670	687	-17	447	298
776	647	129	448	298
672	647	25	449	298
720	647	73	450	298
637	647	-10	450	299
723	647	76	451	299
774	647	127	452	299
1210	647	563	453	299
726	647	79	454	299
755	647	108	455	299
743	647	96	456	299
768	647	121	457	299
749	647	102	458	299
729	647	82	459	299
654	647	7	460	299
588	647	-59	460	300
628	647	-19	460	301
682	647	35	461	301
765	647	118	462	301
788	647	141	463	301
684	647	37	464	301
458	647	-189	464	302
740	647	93	465	302
1440	647	793	466	302

1090	647	443	467	302
751	647	104	468	302
722	647	75	469	302
1100	647	453	470	302
620	647	-27	470	303
1180	647	533	471	303
1020	647	373	472	303
3340	647	2693	473	303
670	647	23	474	303

672	776	-104	474	304
720	776	-56	474	305
637	776	-139	474	306
723	776	-53	474	307
774	776	-2	474	308
1210	776	434	475	308
726	776	-50	475	309
755	776	-21	475	310
743	776	-33	475	311
768	776	-8	475	312
749	776	-27	475	313
729	776	-47	475	314
654	776	-122	475	315
588	776	-188	475	316
628	776	-148	475	317
682	776	-94	475	318
765	776	-11	475	319
788	776	12	476	319
684	776	-92	476	320
458	776	-318	476	321
740	776	-36	476	322
1440	776	664	477	322
1090	776	314	478	322
751	776	-25	478	323
722	776	-54	478	324
1100	776	324	479	324
620	776	-156	479	325
1180	776	404	480	325
1020	776	244	481	325
3340	776	2564	482	325
670	776	-106	482	326

720	672	48	483	326
637	672	-35	483	327
723	672	51	484	327
774	672	102	485	327
1210	672	538	486	327
726	672	54	487	327
755	672	83	488	327
743	672	71	489	327
768	672	96	490	327
749	672	77	491	327
729	672	57	492	327
654	672	-18	492	328
588	672	-84	492	329
628	672	-44	492	330
682	672	10	493	330

765	672	93	494	330
788	672	116	495	330
684	672	12	496	330
458	672	-214	496	331
740	672	68	497	331
1440	672	768	498	331
1090	672	418	499	331
751	672	79	500	331
722	672	50	501	331
1100	672	428	502	331
620	672	-52	502	332
1180	672	508	503	332
1020	672	348	504	332
3340	672	2668	505	332
670	672	-2	505	333
637	720	-83	505	334
723	720	3	506	334
774	720	54	507	334
1210	720	490	508	334
726	720	6	509	334
755	720	35	510	334
743	720	23	511	334
768	720	48	512	334
749	720	29	513	334
729	720	9	514	334
654	720	-66	514	335
588	720	-132	514	336
628	720	-92	514	337
682	720	-38	514	338
765	720	45	515	338
788	720	68	516	338
684	720	-36	516	339
458	720	-262	516	340
740	720	20	517	340
1440	720	720	518	340
1090	720	370	519	340
751	720	31	520	340
722	720	2	521	340
1100	720	380	522	340
620	720	-100	522	341
1180	720	460	523	341
1020	720	300	524	341
3340	720	2620	525	341
670	720	-50	525	342
723	637	86	526	342
774	637	137	527	342
1210	637	573	528	342
726	637	89	529	342
755	637	118	530	342
743	637	106	531	342
768	637	131	532	342
749	637	112	533	342
729	637	92	534	342
654	637	17	535	342
588	637	-49	535	343

628	637	-9	535	344
682	637	45	536	344
765	637	128	537	344
788	637	151	538	344
684	637	47	539	344
458	637	-179	539	345
740	637	103	540	345
1440	637	803	541	345
1090	637	453	542	345
751	637	114	543	345
722	637	85	544	345
1100	637	463	545	345
620	637	-17	545	346
1180	637	543	546	346
1020	637	383	547	346
3340	637	2703	548	346
670	637	33	549	346
774	723	51	550	346
1210	723	487	551	346
726	723	3	552	346
755	723	32	553	346
743	723	20	554	346
768	723	45	555	346
749	723	26	556	346
729	723	6	557	346
654	723	-69	557	347
588	723	-135	557	348
628	723	-95	557	349
682	723	-41	557	350
765	723	42	558	350
788	723	65	559	350
684	723	-39	559	351
458	723	-265	559	352
740	723	17	560	352
1440	723	717	561	352
1090	723	367	562	352
751	723	28	563	352
722	723	-1	563	353
1100	723	377	564	353
620	723	-103	564	354
1180	723	457	565	354
1020	723	297	566	354
3340	723	2617	567	354
670	723	-53	567	355
1210	774	436	568	355
726	774	-48	568	356
755	774	-19	568	357
743	774	-31	568	358
768	774	-6	568	359
749	774	-25	568	360
729	774	-45	568	361
654	774	-120	568	362
588	774	-186	568	363
628	774	-146	568	364
682	774	-92	568	365

765	774	-9	568	366
788	774	14	569	366
684	774	-90	569	367
458	774	-316	569	368
740	774	-34	569	369
1440	774	666	570	369
1090	774	316	571	369
751	774	-23	571	370
722	774	-52	571	371
1100	774	326	572	371
620	774	-154	572	372
1180	774	406	573	372
1020	774	246	574	372
3340	774	2566	575	372
670	774	-104	575	373
726	1210	-484	575	374
755	1210	-455	575	375
743	1210	-467	575	376
768	1210	-442	575	377
749	1210	-461	575	378
729	1210	-481	575	379
654	1210	-556	575	380
588	1210	-622	575	381
628	1210	-582	575	382
682	1210	-528	575	383
765	1210	-445	575	384
788	1210	-422	575	385
684	1210	-526	575	386
458	1210	-752	575	387
740	1210	-470	575	388
1440	1210	230	576	388
1090	1210	-120	576	389
751	1210	-459	576	390
722	1210	-488	576	391
1100	1210	-110	576	392
620	1210	-590	576	393
1180	1210	-30	576	394
1020	1210	-190	576	395
3340	1210	2130	577	395
670	1210	-540	577	396
755	726	29	578	396
743	726	17	579	396
768	726	42	580	396
749	726	23	581	396
729	726	3	582	396
654	726	-72	582	397
588	726	-138	582	398
628	726	-98	582	399
682	726	-44	582	400
765	726	39	583	400
788	726	62	584	400
684	726	-42	584	401
458	726	-268	584	402
740	726	14	585	402
1440	726	714	586	402

1090	726	364	587	402
751	726	25	588	402
722	726	-4	588	403
1100	726	374	589	403
620	726	-106	589	404
1180	726	454	590	404
1020	726	294	591	404
3340	726	2614	592	404
670	726	-56	592	405

743	755	-12	592	406
768	755	13	593	406
749	755	-6	593	407
729	755	-26	593	408
654	755	-101	593	409
588	755	-167	593	410
628	755	-127	593	411
682	755	-73	593	412
765	755	10	594	412
788	755	33	595	412
684	755	-71	595	413
458	755	-297	595	414
740	755	-15	595	415
1440	755	685	596	415
1090	755	335	597	415
751	755	-4	597	416
722	755	-33	597	417
1100	755	345	598	417
620	755	-135	598	418
1180	755	425	599	418
1020	755	265	600	418
3340	755	2585	601	418
670	755	-85	601	419

768	743	25	602	419
749	743	6	603	419
729	743	-14	603	420
654	743	-89	603	421
588	743	-155	603	422
628	743	-115	603	423
682	743	-61	603	424
765	743	22	604	424
788	743	45	605	424
684	743	-59	605	425
458	743	-285	605	426
740	743	-3	605	427
1440	743	697	606	427
1090	743	347	607	427
751	743	8	608	427
722	743	-21	608	428
1100	743	357	609	428
620	743	-123	609	429
1180	743	437	610	429
1020	743	277	611	429
3340	743	2597	612	429
670	743	-73	612	430

749	768	-19	612	431
729	768	-39	612	432
654	768	-114	612	433
588	768	-180	612	434
628	768	-140	612	435
682	768	-86	612	436
765	768	-3	612	437
788	768	20	613	437
684	768	-84	613	438
458	768	-310	613	439
740	768	-28	613	440
1440	768	672	614	440
1090	768	322	615	440
751	768	-17	615	441
722	768	-46	615	442
1100	768	332	616	442
620	768	-148	616	443
1180	768	412	617	443
1020	768	252	618	443
3340	768	2572	619	443
670	768	-98	619	444
729	749	-20	619	445
654	749	-95	619	446
588	749	-161	619	447
628	749	-121	619	448
682	749	-67	619	449
765	749	16	620	449
788	749	39	621	449
684	749	-65	621	450
458	749	-291	621	451
740	749	-9	621	452
1440	749	691	622	452
1090	749	341	623	452
751	749	2	624	452
722	749	-27	624	453
1100	749	351	625	453
620	749	-129	625	454
1180	749	431	626	454
1020	749	271	627	454
3340	749	2591	628	454
670	749	-79	628	455
654	729	-75	628	456
588	729	-141	628	457
628	729	-101	628	458
682	729	-47	628	459
765	729	36	629	459
788	729	59	630	459
684	729	-45	630	460
458	729	-271	630	461
740	729	11	631	461
1440	729	711	632	461
1090	729	361	633	461
751	729	22	634	461
722	729	-7	634	462
1100	729	371	635	462

620	729	-109	635	463
1180	729	451	636	463
1020	729	291	637	463
3340	729	2611	638	463
670	729	-59	638	464

588	654	-66	638	465
628	654	-26	638	466
682	654	28	639	466
765	654	111	640	466
788	654	134	641	466
684	654	30	642	466
458	654	-196	642	467
740	654	86	643	467
1440	654	786	644	467
1090	654	436	645	467
751	654	97	646	467
722	654	68	647	467
1100	654	446	648	467
620	654	-34	648	468
1180	654	526	649	468
1020	654	366	650	468
3340	654	2686	651	468
670	654	16	652	468

628	588	40	653	468
682	588	94	654	468
765	588	177	655	468
788	588	200	656	468
684	588	96	657	468
458	588	-130	657	469
740	588	152	658	469
1440	588	852	659	469
1090	588	502	660	469
751	588	163	661	469
722	588	134	662	469
1100	588	512	663	469
620	588	32	664	469
1180	588	592	665	469
1020	588	432	666	469
3340	588	2752	667	469
670	588	82	668	469

682	628	54	669	469
765	628	137	670	469
788	628	160	671	469
684	628	56	672	469
458	628	-170	672	470
740	628	112	673	470
1440	628	812	674	470
1090	628	462	675	470
751	628	123	676	470
722	628	94	677	470
1100	628	472	678	470
620	628	-8	678	471
1180	628	552	679	471
1020	628	392	680	471

3340	628	2712	681	471
670	628	42	682	471
765	682	83	683	471
788	682	106	684	471
684	682	2	685	471
458	682	-224	685	472
740	682	58	686	472
1440	682	758	687	472
1090	682	408	688	472
751	682	69	689	472
722	682	40	690	472
1100	682	418	691	472
620	682	-62	691	473
1180	682	498	692	473
1020	682	338	693	473
3340	682	2658	694	473
670	682	-12	694	474
788	765	23	695	474
684	765	-81	695	475
458	765	-307	695	476
740	765	-25	695	477
1440	765	675	696	477
1090	765	325	697	477
751	765	-14	697	478
722	765	-43	697	479
1100	765	335	698	479
620	765	-145	698	480
1180	765	415	699	480
1020	765	255	700	480
3340	765	2575	701	480
670	765	-95	701	481
684	788	-104	701	482
458	788	-330	701	483
740	788	-48	701	484
1440	788	652	702	484
1090	788	302	703	484
751	788	-37	703	485
722	788	-66	703	486
1100	788	312	704	486
620	788	-168	704	487
1180	788	392	705	487
1020	788	232	706	487
3340	788	2552	707	487
670	788	-118	707	488
458	684	-226	707	489
740	684	56	708	489
1440	684	756	709	489
1090	684	406	710	489
751	684	67	711	489
722	684	38	712	489
1100	684	416	713	489
620	684	-64	713	490
1180	684	496	714	490

1020	684	336	715	490
3340	684	2656	716	490
670	684	-14	716	491
740	458	282	717	491
1440	458	982	718	491
1090	458	632	719	491
751	458	293	720	491
722	458	264	721	491
1100	458	642	722	491
620	458	162	723	491
1180	458	722	724	491
1020	458	562	725	491
3340	458	2882	726	491
670	458	212	727	491
1440	740	700	728	491
1090	740	350	729	491
751	740	11	730	491
722	740	-18	730	492
1100	740	360	731	492
620	740	-120	731	493
1180	740	440	732	493
1020	740	280	733	493
3340	740	2600	734	493
670	740	-70	734	494
1090	1440	-350	734	495
751	1440	-689	734	496
722	1440	-718	734	497
1100	1440	-340	734	498
620	1440	-820	734	499
1180	1440	-260	734	500
1020	1440	-420	734	501
3340	1440	1900	735	501
670	1440	-770	735	502
751	1090	-339	735	503
722	1090	-368	735	504
1100	1090	10	736	504
620	1090	-470	736	505
1180	1090	90	737	505
1020	1090	-70	737	506
3340	1090	2250	738	506
670	1090	-420	738	507
722	751	-29	738	508
1100	751	349	739	508
620	751	-131	739	509
1180	751	429	740	509
1020	751	269	741	509
3340	751	2589	742	509
670	751	-81	742	510
1100	722	378	743	510
620	722	-102	743	511
1180	722	458	744	511

1020	722	298	745	511
3340	722	2618	746	511
670	722	-52	746	512
620	1100	-480	746	513
1180	1100	80	747	513
1020	1100	-80	747	514
3340	1100	2240	748	514
670	1100	-430	748	515
1180	620	560	749	515
1020	620	400	750	515
3340	620	2720	751	515
670	620	50	752	515
1020	1180	-160	752	516
3340	1180	2160	753	516
670	1180	-510	753	517
3340	1020	2320	754	517
670	1020	-350	754	518
670	3340	-2670	754	519

S Statistic = 754 - 519 = 235

Tied Group	**Value**	**Members**
1	751	2
2	720	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1

```
1/13/2012                  1
2/21/2012                  1
3/20/2012                  1
4/27/2012                  1
5/24/2012                  1
6/15/2012                  1
7/26/2012                  1
8/15/2012                  1
9/11/2012                  1
10/18/2012                 1
11/14/2012                 1
12/5/2012                  1
1/29/2013                  1
7/29/2013                  1
1/31/2014                  1
7/17/2014                  1
1/27/2015                  1
7/21/2015                  1
1/27/2016                  1
7/26/2016                  1
1/30/2017                  1
7/24/2017                  1
1/29/2018                  1
7/24/2018                  1
1/30/2019                  1
7/29/2019                  1
There are 0 time periods with multiple data
```

```
A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 272850
b = 1.12455e+006
c = 5100
Group Variance = 15156.3
Z-Score = 1.90072
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|1.90072| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	**Xk**	**Xj - Xk**	**Positives**	**Negatives**
615	792	-177	0	1
669	792	-123	0	2
581	792	-211	0	3
647	792	-145	0	4
858	792	66	1	4
668	792	-124	1	5
717	792	-75	1	6
832	792	40	2	6
754	792	-38	2	7
710	792	-82	2	8
884	792	92	3	8
804	792	12	4	8
945	792	153	5	8
786	792	-6	5	9
779	792	-13	5	10
627	792	-165	5	11
701	792	-91	5	12
647	792	-145	5	13
773	792	-19	5	14
695	792	-97	5	15
730	792	-62	5	16
752	792	-40	5	17
755	792	-37	5	18
801	792	9	6	18
956	792	164	7	18
745	792	-47	7	19
786	792	-6	7	20
836	792	44	8	20
774	792	-18	8	21
788	792	-4	8	22
726	792	-66	8	23
686	792	-106	8	24
621	792	-171	8	25
671	792	-121	8	26
677	792	-115	8	27
760	792	-32	8	28
788	792	-4	8	29
772	792	-20	8	30
726	792	-66	8	31
704	792	-88	8	32
595	792	-197	8	33
691	792	-101	8	34
745	792	-47	8	35
673	792	-119	8	36
349	792	-443	8	37
498	792	-294	8	38
796	792	4	9	38

761.79	792	-30.21	9	39
722	792	-70	9	40
725	792	-67	9	41
650	792	-142	9	42
1050	792	258	10	42
1070	792	278	11	42
933	792	141	12	42
498	792	-294	12	43
830	792	38	13	43
1270	792	478	14	43
1100	792	308	15	43
1160	792	368	16	43
683	792	-109	16	44
2910	792	2118	17	44
488	792	-304	17	45
319	792	-473	17	46
669	615	54	18	46
581	615	-34	18	47
647	615	32	19	47
858	615	243	20	47
668	615	53	21	47
717	615	102	22	47
832	615	217	23	47
754	615	139	24	47
710	615	95	25	47
884	615	269	26	47
804	615	189	27	47
945	615	330	28	47
786	615	171	29	47
779	615	164	30	47
627	615	12	31	47
701	615	86	32	47
647	615	32	33	47
773	615	158	34	47
695	615	80	35	47
730	615	115	36	47
752	615	137	37	47
755	615	140	38	47
801	615	186	39	47
956	615	341	40	47
745	615	130	41	47
786	615	171	42	47
836	615	221	43	47
774	615	159	44	47
788	615	173	45	47
726	615	111	46	47
686	615	71	47	47
621	615	6	48	47
671	615	56	49	47
677	615	62	50	47
760	615	145	51	47
788	615	173	52	47
772	615	157	53	47
726	615	111	54	47
704	615	89	55	47
595	615	-20	55	48

691	615	76	56	48
745	615	130	57	48
673	615	58	58	48
349	615	-266	58	49
498	615	-117	58	50
796	615	181	59	50
761.79	615	146.79	60	50
722	615	107	61	50
725	615	110	62	50
650	615	35	63	50
1050	615	435	64	50
1070	615	455	65	50
933	615	318	66	50
498	615	-117	66	51
830	615	215	67	51
1270	615	655	68	51
1100	615	485	69	51
1160	615	545	70	51
683	615	68	71	51
2910	615	2295	72	51
488	615	-127	72	52
319	615	-296	72	53
581	669	-88	72	54
647	669	-22	72	55
858	669	189	73	55
668	669	-1	73	56
717	669	48	74	56
832	669	163	75	56
754	669	85	76	56
710	669	41	77	56
884	669	215	78	56
804	669	135	79	56
945	669	276	80	56
786	669	117	81	56
779	669	110	82	56
627	669	-42	82	57
701	669	32	83	57
647	669	-22	83	58
773	669	104	84	58
695	669	26	85	58
730	669	61	86	58
752	669	83	87	58
755	669	86	88	58
801	669	132	89	58
956	669	287	90	58
745	669	76	91	58
786	669	117	92	58
836	669	167	93	58
774	669	105	94	58
788	669	119	95	58
726	669	57	96	58
686	669	17	97	58
621	669	-48	97	59
671	669	2	98	59
677	669	8	99	59
760	669	91	100	59

788	669	119	101	59
772	669	103	102	59
726	669	57	103	59
704	669	35	104	59
595	669	-74	104	60
691	669	22	105	60
745	669	76	106	60
673	669	4	107	60
349	669	-320	107	61
498	669	-171	107	62
796	669	127	108	62
761.79	669	92.79	109	62
722	669	53	110	62
725	669	56	111	62
650	669	-19	111	63
1050	669	381	112	63
1070	669	401	113	63
933	669	264	114	63
498	669	-171	114	64
830	669	161	115	64
1270	669	601	116	64
1100	669	431	117	64
1160	669	491	118	64
683	669	14	119	64
2910	669	2241	120	64
488	669	-181	120	65
319	669	-350	120	66
647	581	66	121	66
858	581	277	122	66
668	581	87	123	66
717	581	136	124	66
832	581	251	125	66
754	581	173	126	66
710	581	129	127	66
884	581	303	128	66
804	581	223	129	66
945	581	364	130	66
786	581	205	131	66
779	581	198	132	66
627	581	46	133	66
701	581	120	134	66
647	581	66	135	66
773	581	192	136	66
695	581	114	137	66
730	581	149	138	66
752	581	171	139	66
755	581	174	140	66
801	581	220	141	66
956	581	375	142	66
745	581	164	143	66
786	581	205	144	66
836	581	255	145	66
774	581	193	146	66
788	581	207	147	66
726	581	145	148	66
686	581	105	149	66

621	581	40	150	66
671	581	90	151	66
677	581	96	152	66
760	581	179	153	66
788	581	207	154	66
772	581	191	155	66
726	581	145	156	66
704	581	123	157	66
595	581	14	158	66
691	581	110	159	66
745	581	164	160	66
673	581	92	161	66
349	581	-232	161	67
498	581	-83	161	68
796	581	215	162	68
761.79	581	180.79	163	68
722	581	141	164	68
725	581	144	165	68
650	581	69	166	68
1050	581	469	167	68
1070	581	489	168	68
933	581	352	169	68
498	581	-83	169	69
830	581	249	170	69
1270	581	689	171	69
1100	581	519	172	69
1160	581	579	173	69
683	581	102	174	69
2910	581	2329	175	69
488	581	-93	175	70
319	581	-262	175	71
858	647	211	176	71
668	647	21	177	71
717	647	70	178	71
832	647	185	179	71
754	647	107	180	71
710	647	63	181	71
884	647	237	182	71
804	647	157	183	71
945	647	298	184	71
786	647	139	185	71
779	647	132	186	71
627	647	-20	186	72
701	647	54	187	72
647	647	0	187	72
773	647	126	188	72
695	647	48	189	72
730	647	83	190	72
752	647	105	191	72
755	647	108	192	72
801	647	154	193	72
956	647	309	194	72
745	647	98	195	72
786	647	139	196	72
836	647	189	197	72
774	647	127	198	72

788	647	141	199	72
726	647	79	200	72
686	647	39	201	72
621	647	-26	201	73
671	647	24	202	73
677	647	30	203	73
760	647	113	204	73
788	647	141	205	73
772	647	125	206	73
726	647	79	207	73
704	647	57	208	73
595	647	-52	208	74
691	647	44	209	74
745	647	98	210	74
673	647	26	211	74
349	647	-298	211	75
498	647	-149	211	76
796	647	149	212	76
761.79	647	114.79	213	76
722	647	75	214	76
725	647	78	215	76
650	647	3	216	76
1050	647	403	217	76
1070	647	423	218	76
933	647	286	219	76
498	647	-149	219	77
830	647	183	220	77
1270	647	623	221	77
1100	647	453	222	77
1160	647	513	223	77
683	647	36	224	77
2910	647	2263	225	77
488	647	-159	225	78
319	647	-328	225	79

668	858	-190	225	80
717	858	-141	225	81
832	858	-26	225	82
754	858	-104	225	83
710	858	-148	225	84
884	858	26	226	84
804	858	-54	226	85
945	858	87	227	85
786	858	-72	227	86
779	858	-79	227	87
627	858	-231	227	88
701	858	-157	227	89
647	858	-211	227	90
773	858	-85	227	91
695	858	-163	227	92
730	858	-128	227	93
752	858	-106	227	94
755	858	-103	227	95
801	858	-57	227	96
956	858	98	228	96
745	858	-113	228	97
786	858	-72	228	98

836	858	-22	228	99
774	858	-84	228	100
788	858	-70	228	101
726	858	-132	228	102
686	858	-172	228	103
621	858	-237	228	104
671	858	-187	228	105
677	858	-181	228	106
760	858	-98	228	107
788	858	-70	228	108
772	858	-86	228	109
726	858	-132	228	110
704	858	-154	228	111
595	858	-263	228	112
691	858	-167	228	113
745	858	-113	228	114
673	858	-185	228	115
349	858	-509	228	116
498	858	-360	228	117
796	858	-62	228	118
761.79	858	-96.21	228	119
722	858	-136	228	120
725	858	-133	228	121
650	858	-208	228	122
1050	858	192	229	122
1070	858	212	230	122
933	858	75	231	122
498	858	-360	231	123
830	858	-28	231	124
1270	858	412	232	124
1100	858	242	233	124
1160	858	302	234	124
683	858	-175	234	125
2910	858	2052	235	125
488	858	-370	235	126
319	858	-539	235	127
717	668	49	236	127
832	668	164	237	127
754	668	86	238	127
710	668	42	239	127
884	668	216	240	127
804	668	136	241	127
945	668	277	242	127
786	668	118	243	127
779	668	111	244	127
627	668	-41	244	128
701	668	33	245	128
647	668	-21	245	129
773	668	105	246	129
695	668	27	247	129
730	668	62	248	129
752	668	84	249	129
755	668	87	250	129
801	668	133	251	129
956	668	288	252	129
745	668	77	253	129

786	668	118	254	129
836	668	168	255	129
774	668	106	256	129
788	668	120	257	129
726	668	58	258	129
686	668	18	259	129
621	668	-47	259	130
671	668	3	260	130
677	668	9	261	130
760	668	92	262	130
788	668	120	263	130
772	668	104	264	130
726	668	58	265	130
704	668	36	266	130
595	668	-73	266	131
691	668	23	267	131
745	668	77	268	131
673	668	5	269	131
349	668	-319	269	132
498	668	-170	269	133
796	668	128	270	133
761.79	668	93.79	271	133
722	668	54	272	133
725	668	57	273	133
650	668	-18	273	134
1050	668	382	274	134
1070	668	402	275	134
933	668	265	276	134
498	668	-170	276	135
830	668	162	277	135
1270	668	602	278	135
1100	668	432	279	135
1160	668	492	280	135
683	668	15	281	135
2910	668	2242	282	135
488	668	-180	282	136
319	668	-349	282	137

832	717	115	283	137
754	717	37	284	137
710	717	-7	284	138
884	717	167	285	138
804	717	87	286	138
945	717	228	287	138
786	717	69	288	138
779	717	62	289	138
627	717	-90	289	139
701	717	-16	289	140
647	717	-70	289	141
773	717	56	290	141
695	717	-22	290	142
730	717	13	291	142
752	717	35	292	142
755	717	38	293	142
801	717	84	294	142
956	717	239	295	142
745	717	28	296	142

786	717	69	297	142
836	717	119	298	142
774	717	57	299	142
788	717	71	300	142
726	717	9	301	142
686	717	-31	301	143
621	717	-96	301	144
671	717	-46	301	145
677	717	-40	301	146
760	717	43	302	146
788	717	71	303	146
772	717	55	304	146
726	717	9	305	146
704	717	-13	305	147
595	717	-122	305	148
691	717	-26	305	149
745	717	28	306	149
673	717	-44	306	150
349	717	-368	306	151
498	717	-219	306	152
796	717	79	307	152
761.79	717	44.79	308	152
722	717	5	309	152
725	717	8	310	152
650	717	-67	310	153
1050	717	333	311	153
1070	717	353	312	153
933	717	216	313	153
498	717	-219	313	154
830	717	113	314	154
1270	717	553	315	154
1100	717	383	316	154
1160	717	443	317	154
683	717	-34	317	155
2910	717	2193	318	155
488	717	-229	318	156
319	717	-398	318	157
754	832	-78	318	158
710	832	-122	318	159
884	832	52	319	159
804	832	-28	319	160
945	832	113	320	160
786	832	-46	320	161
779	832	-53	320	162
627	832	-205	320	163
701	832	-131	320	164
647	832	-185	320	165
773	832	-59	320	166
695	832	-137	320	167
730	832	-102	320	168
752	832	-80	320	169
755	832	-77	320	170
801	832	-31	320	171
956	832	124	321	171
745	832	-87	321	172
786	832	-46	321	173

836	832	4	322	173
774	832	-58	322	174
788	832	-44	322	175
726	832	-106	322	176
686	832	-146	322	177
621	832	-211	322	178
671	832	-161	322	179
677	832	-155	322	180
760	832	-72	322	181
788	832	-44	322	182
772	832	-60	322	183
726	832	-106	322	184
704	832	-128	322	185
595	832	-237	322	186
691	832	-141	322	187
745	832	-87	322	188
673	832	-159	322	189
349	832	-483	322	190
498	832	-334	322	191
796	832	-36	322	192
761.79	832	-70.21	322	193
722	832	-110	322	194
725	832	-107	322	195
650	832	-182	322	196
1050	832	218	323	196
1070	832	238	324	196
933	832	101	325	196
498	832	-334	325	197
830	832	-2	325	198
1270	832	438	326	198
1100	832	268	327	198
1160	832	328	328	198
683	832	-149	328	199
2910	832	2078	329	199
488	832	-344	329	200
319	832	-513	329	201
710	754	-44	329	202
884	754	130	330	202
804	754	50	331	202
945	754	191	332	202
786	754	32	333	202
779	754	25	334	202
627	754	-127	334	203
701	754	-53	334	204
647	754	-107	334	205
773	754	19	335	205
695	754	-59	335	206
730	754	-24	335	207
752	754	-2	335	208
755	754	1	336	208
801	754	47	337	208
956	754	202	338	208
745	754	-9	338	209
786	754	32	339	209
836	754	82	340	209
774	754	20	341	209

788	754	34	342	209
726	754	-28	342	210
686	754	-68	342	211
621	754	-133	342	212
671	754	-83	342	213
677	754	-77	342	214
760	754	6	343	214
788	754	34	344	214
772	754	18	345	214
726	754	-28	345	215
704	754	-50	345	216
595	754	-159	345	217
691	754	-63	345	218
745	754	-9	345	219
673	754	-81	345	220
349	754	-405	345	221
498	754	-256	345	222
796	754	42	346	222
761.79	754	7.79	347	222
722	754	-32	347	223
725	754	-29	347	224
650	754	-104	347	225
1050	754	296	348	225
1070	754	316	349	225
933	754	179	350	225
498	754	-256	350	226
830	754	76	351	226
1270	754	516	352	226
1100	754	346	353	226
1160	754	406	354	226
683	754	-71	354	227
2910	754	2156	355	227
488	754	-266	355	228
319	754	-435	355	229

884	710	174	356	229
804	710	94	357	229
945	710	235	358	229
786	710	76	359	229
779	710	69	360	229
627	710	-83	360	230
701	710	-9	360	231
647	710	-63	360	232
773	710	63	361	232
695	710	-15	361	233
730	710	20	362	233
752	710	42	363	233
755	710	45	364	233
801	710	91	365	233
956	710	246	366	233
745	710	35	367	233
786	710	76	368	233
836	710	126	369	233
774	710	64	370	233
788	710	78	371	233
726	710	16	372	233
686	710	-24	372	234

621	710	-89	372	235
671	710	-39	372	236
677	710	-33	372	237
760	710	50	373	237
788	710	78	374	237
772	710	62	375	237
726	710	16	376	237
704	710	-6	376	238
595	710	-115	376	239
691	710	-19	376	240
745	710	35	377	240
673	710	-37	377	241
349	710	-361	377	242
498	710	-212	377	243
796	710	86	378	243
761.79	710	51.79	379	243
722	710	12	380	243
725	710	15	381	243
650	710	-60	381	244
1050	710	340	382	244
1070	710	360	383	244
933	710	223	384	244
498	710	-212	384	245
830	710	120	385	245
1270	710	560	386	245
1100	710	390	387	245
1160	710	450	388	245
683	710	-27	388	246
2910	710	2200	389	246
488	710	-222	389	247
319	710	-391	389	248
804	884	-80	389	249
945	884	61	390	249
786	884	-98	390	250
779	884	-105	390	251
627	884	-257	390	252
701	884	-183	390	253
647	884	-237	390	254
773	884	-111	390	255
695	884	-189	390	256
730	884	-154	390	257
752	884	-132	390	258
755	884	-129	390	259
801	884	-83	390	260
956	884	72	391	260
745	884	-139	391	261
786	884	-98	391	262
836	884	-48	391	263
774	884	-110	391	264
788	884	-96	391	265
726	884	-158	391	266
686	884	-198	391	267
621	884	-263	391	268
671	884	-213	391	269
677	884	-207	391	270
760	884	-124	391	271

788	884	-96	391	272
772	884	-112	391	273
726	884	-158	391	274
704	884	-180	391	275
595	884	-289	391	276
691	884	-193	391	277
745	884	-139	391	278
673	884	-211	391	279
349	884	-535	391	280
498	884	-386	391	281
796	884	-88	391	282
761.79	884	-122.21	391	283
722	884	-162	391	284
725	884	-159	391	285
650	884	-234	391	286
1050	884	166	392	286
1070	884	186	393	286
933	884	49	394	286
498	884	-386	394	287
830	884	-54	394	288
1270	884	386	395	288
1100	884	216	396	288
1160	884	276	397	288
683	884	-201	397	289
2910	884	2026	398	289
488	884	-396	398	290
319	884	-565	398	291

945	804	141	399	291
786	804	-18	399	292
779	804	-25	399	293
627	804	-177	399	294
701	804	-103	399	295
647	804	-157	399	296
773	804	-31	399	297
695	804	-109	399	298
730	804	-74	399	299
752	804	-52	399	300
755	804	-49	399	301
801	804	-3	399	302
956	804	152	400	302
745	804	-59	400	303
786	804	-18	400	304
836	804	32	401	304
774	804	-30	401	305
788	804	-16	401	306
726	804	-78	401	307
686	804	-118	401	308
621	804	-183	401	309
671	804	-133	401	310
677	804	-127	401	311
760	804	-44	401	312
788	804	-16	401	313
772	804	-32	401	314
726	804	-78	401	315
704	804	-100	401	316
595	804	-209	401	317

691	804	-113	401	318
745	804	-59	401	319
673	804	-131	401	320
349	804	-455	401	321
498	804	-306	401	322
796	804	-8	401	323
761.79	804	-42.21	401	324
722	804	-82	401	325
725	804	-79	401	326
650	804	-154	401	327
1050	804	246	402	327
1070	804	266	403	327
933	804	129	404	327
498	804	-306	404	328
830	804	26	405	328
1270	804	466	406	328
1100	804	296	407	328
1160	804	356	408	328
683	804	-121	408	329
2910	804	2106	409	329
488	804	-316	409	330
319	804	-485	409	331

786	945	-159	409	332
779	945	-166	409	333
627	945	-318	409	334
701	945	-244	409	335
647	945	-298	409	336
773	945	-172	409	337
695	945	-250	409	338
730	945	-215	409	339
752	945	-193	409	340
755	945	-190	409	341
801	945	-144	409	342
956	945	11	410	342
745	945	-200	410	343
786	945	-159	410	344
836	945	-109	410	345
774	945	-171	410	346
788	945	-157	410	347
726	945	-219	410	348
686	945	-259	410	349
621	945	-324	410	350
671	945	-274	410	351
677	945	-268	410	352
760	945	-185	410	353
788	945	-157	410	354
772	945	-173	410	355
726	945	-219	410	356
704	945	-241	410	357
595	945	-350	410	358
691	945	-254	410	359
745	945	-200	410	360
673	945	-272	410	361
349	945	-596	410	362
498	945	-447	410	363
796	945	-149	410	364

761.79	945	-183.21	410	365
722	945	-223	410	366
725	945	-220	410	367
650	945	-295	410	368
1050	945	105	411	368
1070	945	125	412	368
933	945	-12	412	369
498	945	-447	412	370
830	945	-115	412	371
1270	945	325	413	371
1100	945	155	414	371
1160	945	215	415	371
683	945	-262	415	372
2910	945	1965	416	372
488	945	-457	416	373
319	945	-626	416	374

779	786	-7	416	375
627	786	-159	416	376
701	786	-85	416	377
647	786	-139	416	378
773	786	-13	416	379
695	786	-91	416	380
730	786	-56	416	381
752	786	-34	416	382
755	786	-31	416	383
801	786	15	417	383
956	786	170	418	383
745	786	-41	418	384
786	786	0	418	384
836	786	50	419	384
774	786	-12	419	385
788	786	2	420	385
726	786	-60	420	386
686	786	-100	420	387
621	786	-165	420	388
671	786	-115	420	389
677	786	-109	420	390
760	786	-26	420	391
788	786	2	421	391
772	786	-14	421	392
726	786	-60	421	393
704	786	-82	421	394
595	786	-191	421	395
691	786	-95	421	396
745	786	-41	421	397
673	786	-113	421	398
349	786	-437	421	399
498	786	-288	421	400
796	786	10	422	400
761.79	786	-24.21	422	401
722	786	-64	422	402
725	786	-61	422	403
650	786	-136	422	404
1050	786	264	423	404
1070	786	284	424	404
933	786	147	425	404

498	786	-288	425	405
830	786	44	426	405
1270	786	484	427	405
1100	786	314	428	405
1160	786	374	429	405
683	786	-103	429	406
2910	786	2124	430	406
488	786	-298	430	407
319	786	-467	430	408

627	779	-152	430	409
701	779	-78	430	410
647	779	-132	430	411
773	779	-6	430	412
695	779	-84	430	413
730	779	-49	430	414
752	779	-27	430	415
755	779	-24	430	416
801	779	22	431	416
956	779	177	432	416
745	779	-34	432	417
786	779	7	433	417
836	779	57	434	417
774	779	-5	434	418
788	779	9	435	418
726	779	-53	435	419
686	779	-93	435	420
621	779	-158	435	421
671	779	-108	435	422
677	779	-102	435	423
760	779	-19	435	424
788	779	9	436	424
772	779	-7	436	425
726	779	-53	436	426
704	779	-75	436	427
595	779	-184	436	428
691	779	-88	436	429
745	779	-34	436	430
673	779	-106	436	431
349	779	-430	436	432
498	779	-281	436	433
796	779	17	437	433
761.79	779	-17.21	437	434
722	779	-57	437	435
725	779	-54	437	436
650	779	-129	437	437
1050	779	271	438	437
1070	779	291	439	437
933	779	154	440	437
498	779	-281	440	438
830	779	51	441	438
1270	779	491	442	438
1100	779	321	443	438
1160	779	381	444	438
683	779	-96	444	439
2910	779	2131	445	439
488	779	-291	445	440

319	779	-460	445	441
701	627	74	446	441
647	627	20	447	441
773	627	146	448	441
695	627	68	449	441
730	627	103	450	441
752	627	125	451	441
755	627	128	452	441
801	627	174	453	441
956	627	329	454	441
745	627	118	455	441
786	627	159	456	441
836	627	209	457	441
774	627	147	458	441
788	627	161	459	441
726	627	99	460	441
686	627	59	461	441
621	627	-6	461	442
671	627	44	462	442
677	627	50	463	442
760	627	133	464	442
788	627	161	465	442
772	627	145	466	442
726	627	99	467	442
704	627	77	468	442
595	627	-32	468	443
691	627	64	469	443
745	627	118	470	443
673	627	46	471	443
349	627	-278	471	444
498	627	-129	471	445
796	627	169	472	445
761.79	627	134.79	473	445
722	627	95	474	445
725	627	98	475	445
650	627	23	476	445
1050	627	423	477	445
1070	627	443	478	445
933	627	306	479	445
498	627	-129	479	446
830	627	203	480	446
1270	627	643	481	446
1100	627	473	482	446
1160	627	533	483	446
683	627	56	484	446
2910	627	2283	485	446
488	627	-139	485	447
319	627	-308	485	448
647	701	-54	485	449
773	701	72	486	449
695	701	-6	486	450
730	701	29	487	450
752	701	51	488	450
755	701	54	489	450
801	701	100	490	450

956	701	255	491	450
745	701	44	492	450
786	701	85	493	450
836	701	135	494	450
774	701	73	495	450
788	701	87	496	450
726	701	25	497	450
686	701	-15	497	451
621	701	-80	497	452
671	701	-30	497	453
677	701	-24	497	454
760	701	59	498	454
788	701	87	499	454
772	701	71	500	454
726	701	25	501	454
704	701	3	502	454
595	701	-106	502	455
691	701	-10	502	456
745	701	44	503	456
673	701	-28	503	457
349	701	-352	503	458
498	701	-203	503	459
796	701	95	504	459
761.79	701	60.79	505	459
722	701	21	506	459
725	701	24	507	459
650	701	-51	507	460
1050	701	349	508	460
1070	701	369	509	460
933	701	232	510	460
498	701	-203	510	461
830	701	129	511	461
1270	701	569	512	461
1100	701	399	513	461
1160	701	459	514	461
683	701	-18	514	462
2910	701	2209	515	462
488	701	-213	515	463
319	701	-382	515	464
773	647	126	516	464
695	647	48	517	464
730	647	83	518	464
752	647	105	519	464
755	647	108	520	464
801	647	154	521	464
956	647	309	522	464
745	647	98	523	464
786	647	139	524	464
836	647	189	525	464
774	647	127	526	464
788	647	141	527	464
726	647	79	528	464
686	647	39	529	464
621	647	-26	529	465
671	647	24	530	465
677	647	30	531	465

760	647	113	532	465
788	647	141	533	465
772	647	125	534	465
726	647	79	535	465
704	647	57	536	465
595	647	-52	536	466
691	647	44	537	466
745	647	98	538	466
673	647	26	539	466
349	647	-298	539	467
498	647	-149	539	468
796	647	149	540	468
761.79	647	114.79	541	468
722	647	75	542	468
725	647	78	543	468
650	647	3	544	468
1050	647	403	545	468
1070	647	423	546	468
933	647	286	547	468
498	647	-149	547	469
830	647	183	548	469
1270	647	623	549	469
1100	647	453	550	469
1160	647	513	551	469
683	647	36	552	469
2910	647	2263	553	469
488	647	-159	553	470
319	647	-328	553	471

695	773	-78	553	472
730	773	-43	553	473
752	773	-21	553	474
755	773	-18	553	475
801	773	28	554	475
956	773	183	555	475
745	773	-28	555	476
786	773	13	556	476
836	773	63	557	476
774	773	1	558	476
788	773	15	559	476
726	773	-47	559	477
686	773	-87	559	478
621	773	-152	559	479
671	773	-102	559	480
677	773	-96	559	481
760	773	-13	559	482
788	773	15	560	482
772	773	-1	560	483
726	773	-47	560	484
704	773	-69	560	485
595	773	-178	560	486
691	773	-82	560	487
745	773	-28	560	488
673	773	-100	560	489
349	773	-424	560	490
498	773	-275	560	491
796	773	23	561	491

761.79	773	-11.21	561	492
722	773	-51	561	493
725	773	-48	561	494
650	773	-123	561	495
1050	773	277	562	495
1070	773	297	563	495
933	773	160	564	495
498	773	-275	564	496
830	773	57	565	496
1270	773	497	566	496
1100	773	327	567	496
1160	773	387	568	496
683	773	-90	568	497
2910	773	2137	569	497
488	773	-285	569	498
319	773	-454	569	499
730	695	35	570	499
752	695	57	571	499
755	695	60	572	499
801	695	106	573	499
956	695	261	574	499
745	695	50	575	499
786	695	91	576	499
836	695	141	577	499
774	695	79	578	499
788	695	93	579	499
726	695	31	580	499
686	695	-9	580	500
621	695	-74	580	501
671	695	-24	580	502
677	695	-18	580	503
760	695	65	581	503
788	695	93	582	503
772	695	77	583	503
726	695	31	584	503
704	695	9	585	503
595	695	-100	585	504
691	695	-4	585	505
745	695	50	586	505
673	695	-22	586	506
349	695	-346	586	507
498	695	-197	586	508
796	695	101	587	508
761.79	695	66.79	588	508
722	695	27	589	508
725	695	30	590	508
650	695	-45	590	509
1050	695	355	591	509
1070	695	375	592	509
933	695	238	593	509
498	695	-197	593	510
830	695	135	594	510
1270	695	575	595	510
1100	695	405	596	510
1160	695	465	597	510
683	695	-12	597	511

2910	695	2215	598	511
488	695	-207	598	512
319	695	-376	598	513

752	730	22	599	513
755	730	25	600	513
801	730	71	601	513
956	730	226	602	513
745	730	15	603	513
786	730	56	604	513
836	730	106	605	513
774	730	44	606	513
788	730	58	607	513
726	730	-4	607	514
686	730	-44	607	515
621	730	-109	607	516
671	730	-59	607	517
677	730	-53	607	518
760	730	30	608	518
788	730	58	609	518
772	730	42	610	518
726	730	-4	610	519
704	730	-26	610	520
595	730	-135	610	521
691	730	-39	610	522
745	730	15	611	522
673	730	-57	611	523
349	730	-381	611	524
498	730	-232	611	525
796	730	66	612	525
761.79	730	31.79	613	525
722	730	-8	613	526
725	730	-5	613	527
650	730	-80	613	528
1050	730	320	614	528
1070	730	340	615	528
933	730	203	616	528
498	730	-232	616	529
830	730	100	617	529
1270	730	540	618	529
1100	730	370	619	529
1160	730	430	620	529
683	730	-47	620	530
2910	730	2180	621	530
488	730	-242	621	531
319	730	-411	621	532

755	752	3	622	532
801	752	49	623	532
956	752	204	624	532
745	752	-7	624	533
786	752	34	625	533
836	752	84	626	533
774	752	22	627	533
788	752	36	628	533
726	752	-26	628	534
686	752	-66	628	535

621	752	-131	628	536
671	752	-81	628	537
677	752	-75	628	538
760	752	8	629	538
788	752	36	630	538
772	752	20	631	538
726	752	-26	631	539
704	752	-48	631	540
595	752	-157	631	541
691	752	-61	631	542
745	752	-7	631	543
673	752	-79	631	544
349	752	-403	631	545
498	752	-254	631	546
796	752	44	632	546
761.79	752	9.79	633	546
722	752	-30	633	547
725	752	-27	633	548
650	752	-102	633	549
1050	752	298	634	549
1070	752	318	635	549
933	752	181	636	549
498	752	-254	636	550
830	752	78	637	550
1270	752	518	638	550
1100	752	348	639	550
1160	752	408	640	550
683	752	-69	640	551
2910	752	2158	641	551
488	752	-264	641	552
319	752	-433	641	553

801	755	46	642	553
956	755	201	643	553
745	755	-10	643	554
786	755	31	644	554
836	755	81	645	554
774	755	19	646	554
788	755	33	647	554
726	755	-29	647	555
686	755	-69	647	556
621	755	-134	647	557
671	755	-84	647	558
677	755	-78	647	559
760	755	5	648	559
788	755	33	649	559
772	755	17	650	559
726	755	-29	650	560
704	755	-51	650	561
595	755	-160	650	562
691	755	-64	650	563
745	755	-10	650	564
673	755	-82	650	565
349	755	-406	650	566
498	755	-257	650	567
796	755	41	651	567
761.79	755	6.79	652	567

722	755	-33	652	568
725	755	-30	652	569
650	755	-105	652	570
1050	755	295	653	570
1070	755	315	654	570
933	755	178	655	570
498	755	-257	655	571
830	755	75	656	571
1270	755	515	657	571
1100	755	345	658	571
1160	755	405	659	571
683	755	-72	659	572
2910	755	2155	660	572
488	755	-267	660	573
319	755	-436	660	574
956	801	155	661	574
745	801	-56	661	575
786	801	-15	661	576
836	801	35	662	576
774	801	-27	662	577
788	801	-13	662	578
726	801	-75	662	579
686	801	-115	662	580
621	801	-180	662	581
671	801	-130	662	582
677	801	-124	662	583
760	801	-41	662	584
788	801	-13	662	585
772	801	-29	662	586
726	801	-75	662	587
704	801	-97	662	588
595	801	-206	662	589
691	801	-110	662	590
745	801	-56	662	591
673	801	-128	662	592
349	801	-452	662	593
498	801	-303	662	594
796	801	-5	662	595
761.79	801	-39.21	662	596
722	801	-79	662	597
725	801	-76	662	598
650	801	-151	662	599
1050	801	249	663	599
1070	801	269	664	599
933	801	132	665	599
498	801	-303	665	600
830	801	29	666	600
1270	801	469	667	600
1100	801	299	668	600
1160	801	359	669	600
683	801	-118	669	601
2910	801	2109	670	601
488	801	-313	670	602
319	801	-482	670	603
745	956	-211	670	604

786	956	-170	670	605
836	956	-120	670	606
774	956	-182	670	607
788	956	-168	670	608
726	956	-230	670	609
686	956	-270	670	610
621	956	-335	670	611
671	956	-285	670	612
677	956	-279	670	613
760	956	-196	670	614
788	956	-168	670	615
772	956	-184	670	616
726	956	-230	670	617
704	956	-252	670	618
595	956	-361	670	619
691	956	-265	670	620
745	956	-211	670	621
673	956	-283	670	622
349	956	-607	670	623
498	956	-458	670	624
796	956	-160	670	625
761.79	956	-194.21	670	626
722	956	-234	670	627
725	956	-231	670	628
650	956	-306	670	629
1050	956	94	671	629
1070	956	114	672	629
933	956	-23	672	630
498	956	-458	672	631
830	956	-126	672	632
1270	956	314	673	632
1100	956	144	674	632
1160	956	204	675	632
683	956	-273	675	633
2910	956	1954	676	633
488	956	-468	676	634
319	956	-637	676	635
786	745	41	677	635
836	745	91	678	635
774	745	29	679	635
788	745	43	680	635
726	745	-19	680	636
686	745	-59	680	637
621	745	-124	680	638
671	745	-74	680	639
677	745	-68	680	640
760	745	15	681	640
788	745	43	682	640
772	745	27	683	640
726	745	-19	683	641
704	745	-41	683	642
595	745	-150	683	643
691	745	-54	683	644
745	745	0	683	644
673	745	-72	683	645
349	745	-396	683	646

498	745	-247	683	647
796	745	51	684	647
761.79	745	16.79	685	647
722	745	-23	685	648
725	745	-20	685	649
650	745	-95	685	650
1050	745	305	686	650
1070	745	325	687	650
933	745	188	688	650
498	745	-247	688	651
830	745	85	689	651
1270	745	525	690	651
1100	745	355	691	651
1160	745	415	692	651
683	745	-62	692	652
2910	745	2165	693	652
488	745	-257	693	653
319	745	-426	693	654
836	786	50	694	654
774	786	-12	694	655
788	786	2	695	655
726	786	-60	695	656
686	786	-100	695	657
621	786	-165	695	658
671	786	-115	695	659
677	786	-109	695	660
760	786	-26	695	661
788	786	2	696	661
772	786	-14	696	662
726	786	-60	696	663
704	786	-82	696	664
595	786	-191	696	665
691	786	-95	696	666
745	786	-41	696	667
673	786	-113	696	668
349	786	-437	696	669
498	786	-288	696	670
796	786	10	697	670
761.79	786	-24.21	697	671
722	786	-64	697	672
725	786	-61	697	673
650	786	-136	697	674
1050	786	264	698	674
1070	786	284	699	674
933	786	147	700	674
498	786	-288	700	675
830	786	44	701	675
1270	786	484	702	675
1100	786	314	703	675
1160	786	374	704	675
683	786	-103	704	676
2910	786	2124	705	676
488	786	-298	705	677
319	786	-467	705	678
774	836	-62	705	679

788	836	-48	705	680
726	836	-110	705	681
686	836	-150	705	682
621	836	-215	705	683
671	836	-165	705	684
677	836	-159	705	685
760	836	-76	705	686
788	836	-48	705	687
772	836	-64	705	688
726	836	-110	705	689
704	836	-132	705	690
595	836	-241	705	691
691	836	-145	705	692
745	836	-91	705	693
673	836	-163	705	694
349	836	-487	705	695
498	836	-338	705	696
796	836	-40	705	697
761.79	836	-74.21	705	698
722	836	-114	705	699
725	836	-111	705	700
650	836	-186	705	701
1050	836	214	706	701
1070	836	234	707	701
933	836	97	708	701
498	836	-338	708	702
830	836	-6	708	703
1270	836	434	709	703
1100	836	264	710	703
1160	836	324	711	703
683	836	-153	711	704
2910	836	2074	712	704
488	836	-348	712	705
319	836	-517	712	706
788	774	14	713	706
726	774	-48	713	707
686	774	-88	713	708
621	774	-153	713	709
671	774	-103	713	710
677	774	-97	713	711
760	774	-14	713	712
788	774	14	714	712
772	774	-2	714	713
726	774	-48	714	714
704	774	-70	714	715
595	774	-179	714	716
691	774	-83	714	717
745	774	-29	714	718
673	774	-101	714	719
349	774	-425	714	720
498	774	-276	714	721
796	774	22	715	721
761.79	774	-12.21	715	722
722	774	-52	715	723
725	774	-49	715	724
650	774	-124	715	725

1050	774	276	716	725
1070	774	296	717	725
933	774	159	718	725
498	774	-276	718	726
830	774	56	719	726
1270	774	496	720	726
1100	774	326	721	726
1160	774	386	722	726
683	774	-91	722	727
2910	774	2136	723	727
488	774	-286	723	728
319	774	-455	723	729
726	788	-62	723	730
686	788	-102	723	731
621	788	-167	723	732
671	788	-117	723	733
677	788	-111	723	734
760	788	-28	723	735
788	788	0	723	735
772	788	-16	723	736
726	788	-62	723	737
704	788	-84	723	738
595	788	-193	723	739
691	788	-97	723	740
745	788	-43	723	741
673	788	-115	723	742
349	788	-439	723	743
498	788	-290	723	744
796	788	8	724	744
761.79	788	-26.21	724	745
722	788	-66	724	746
725	788	-63	724	747
650	788	-138	724	748
1050	788	262	725	748
1070	788	282	726	748
933	788	145	727	748
498	788	-290	727	749
830	788	42	728	749
1270	788	482	729	749
1100	788	312	730	749
1160	788	372	731	749
683	788	-105	731	750
2910	788	2122	732	750
488	788	-300	732	751
319	788	-469	732	752
686	726	-40	732	753
621	726	-105	732	754
671	726	-55	732	755
677	726	-49	732	756
760	726	34	733	756
788	726	62	734	756
772	726	46	735	756
726	726	0	735	756
704	726	-22	735	757
595	726	-131	735	758

691	726	-35	735	759
745	726	19	736	759
673	726	-53	736	760
349	726	-377	736	761
498	726	-228	736	762
796	726	70	737	762
761.79	726	35.79	738	762
722	726	-4	738	763
725	726	-1	738	764
650	726	-76	738	765
1050	726	324	739	765
1070	726	344	740	765
933	726	207	741	765
498	726	-228	741	766
830	726	104	742	766
1270	726	544	743	766
1100	726	374	744	766
1160	726	434	745	766
683	726	-43	745	767
2910	726	2184	746	767
488	726	-238	746	768
319	726	-407	746	769
621	686	-65	746	770
671	686	-15	746	771
677	686	-9	746	772
760	686	74	747	772
788	686	102	748	772
772	686	86	749	772
726	686	40	750	772
704	686	18	751	772
595	686	-91	751	773
691	686	5	752	773
745	686	59	753	773
673	686	-13	753	774
349	686	-337	753	775
498	686	-188	753	776
796	686	110	754	776
761.79	686	75.79	755	776
722	686	36	756	776
725	686	39	757	776
650	686	-36	757	777
1050	686	364	758	777
1070	686	384	759	777
933	686	247	760	777
498	686	-188	760	778
830	686	144	761	778
1270	686	584	762	778
1100	686	414	763	778
1160	686	474	764	778
683	686	-3	764	779
2910	686	2224	765	779
488	686	-198	765	780
319	686	-367	765	781
671	621	50	766	781
677	621	56	767	781

760	621	139	768	781
788	621	167	769	781
772	621	151	770	781
726	621	105	771	781
704	621	83	772	781
595	621	-26	772	782
691	621	70	773	782
745	621	124	774	782
673	621	52	775	782
349	621	-272	775	783
498	621	-123	775	784
796	621	175	776	784
761.79	621	140.79	777	784
722	621	101	778	784
725	621	104	779	784
650	621	29	780	784
1050	621	429	781	784
1070	621	449	782	784
933	621	312	783	784
498	621	-123	783	785
830	621	209	784	785
1270	621	649	785	785
1100	621	479	786	785
1160	621	539	787	785
683	621	62	788	785
2910	621	2289	789	785
488	621	-133	789	786
319	621	-302	789	787
677	671	6	790	787
760	671	89	791	787
788	671	117	792	787
772	671	101	793	787
726	671	55	794	787
704	671	33	795	787
595	671	-76	795	788
691	671	20	796	788
745	671	74	797	788
673	671	2	798	788
349	671	-322	798	789
498	671	-173	798	790
796	671	125	799	790
761.79	671	90.79	800	790
722	671	51	801	790
725	671	54	802	790
650	671	-21	802	791
1050	671	379	803	791
1070	671	399	804	791
933	671	262	805	791
498	671	-173	805	792
830	671	159	806	792
1270	671	599	807	792
1100	671	429	808	792
1160	671	489	809	792
683	671	12	810	792
2910	671	2239	811	792
488	671	-183	811	793

319	671	-352	811	794
760	677	83	812	794
788	677	111	813	794
772	677	95	814	794
726	677	49	815	794
704	677	27	816	794
595	677	-82	816	795
691	677	14	817	795
745	677	68	818	795
673	677	-4	818	796
349	677	-328	818	797
498	677	-179	818	798
796	677	119	819	798
761.79	677	84.79	820	798
722	677	45	821	798
725	677	48	822	798
650	677	-27	822	799
1050	677	373	823	799
1070	677	393	824	799
933	677	256	825	799
498	677	-179	825	800
830	677	153	826	800
1270	677	593	827	800
1100	677	423	828	800
1160	677	483	829	800
683	677	6	830	800
2910	677	2233	831	800
488	677	-189	831	801
319	677	-358	831	802
788	760	28	832	802
772	760	12	833	802
726	760	-34	833	803
704	760	-56	833	804
595	760	-165	833	805
691	760	-69	833	806
745	760	-15	833	807
673	760	-87	833	808
349	760	-411	833	809
498	760	-262	833	810
796	760	36	834	810
761.79	760	1.79	835	810
722	760	-38	835	811
725	760	-35	835	812
650	760	-110	835	813
1050	760	290	836	813
1070	760	310	837	813
933	760	173	838	813
498	760	-262	838	814
830	760	70	839	814
1270	760	510	840	814
1100	760	340	841	814
1160	760	400	842	814
683	760	-77	842	815
2910	760	2150	843	815
488	760	-272	843	816

319	760	-441	843	817
772	788	-16	843	818
726	788	-62	843	819
704	788	-84	843	820
595	788	-193	843	821
691	788	-97	843	822
745	788	-43	843	823
673	788	-115	843	824
349	788	-439	843	825
498	788	-290	843	826
796	788	8	844	826
761.79	788	-26.21	844	827
722	788	-66	844	828
725	788	-63	844	829
650	788	-138	844	830
1050	788	262	845	830
1070	788	282	846	830
933	788	145	847	830
498	788	-290	847	831
830	788	42	848	831
1270	788	482	849	831
1100	788	312	850	831
1160	788	372	851	831
683	788	-105	851	832
2910	788	2122	852	832
488	788	-300	852	833
319	788	-469	852	834
726	772	-46	852	835
704	772	-68	852	836
595	772	-177	852	837
691	772	-81	852	838
745	772	-27	852	839
673	772	-99	852	840
349	772	-423	852	841
498	772	-274	852	842
796	772	24	853	842
761.79	772	-10.21	853	843
722	772	-50	853	844
725	772	-47	853	845
650	772	-122	853	846
1050	772	278	854	846
1070	772	298	855	846
933	772	161	856	846
498	772	-274	856	847
830	772	58	857	847
1270	772	498	858	847
1100	772	328	859	847
1160	772	388	860	847
683	772	-89	860	848
2910	772	2138	861	848
488	772	-284	861	849
319	772	-453	861	850
704	726	-22	861	851
595	726	-131	861	852

691	726	-35	861	853
745	726	19	862	853
673	726	-53	862	854
349	726	-377	862	855
498	726	-228	862	856
796	726	70	863	856
761.79	726	35.79	864	856
722	726	-4	864	857
725	726	-1	864	858
650	726	-76	864	859
1050	726	324	865	859
1070	726	344	866	859
933	726	207	867	859
498	726	-228	867	860
830	726	104	868	860
1270	726	544	869	860
1100	726	374	870	860
1160	726	434	871	860
683	726	-43	871	861
2910	726	2184	872	861
488	726	-238	872	862
319	726	-407	872	863
595	704	-109	872	864
691	704	-13	872	865
745	704	41	873	865
673	704	-31	873	866
349	704	-355	873	867
498	704	-206	873	868
796	704	92	874	868
761.79	704	57.79	875	868
722	704	18	876	868
725	704	21	877	868
650	704	-54	877	869
1050	704	346	878	869
1070	704	366	879	869
933	704	229	880	869
498	704	-206	880	870
830	704	126	881	870
1270	704	566	882	870
1100	704	396	883	870
1160	704	456	884	870
683	704	-21	884	871
2910	704	2206	885	871
488	704	-216	885	872
319	704	-385	885	873
691	595	96	886	873
745	595	150	887	873
673	595	78	888	873
349	595	-246	888	874
498	595	-97	888	875
796	595	201	889	875
761.79	595	166.79	890	875
722	595	127	891	875
725	595	130	892	875
650	595	55	893	875

1050	595	455	894	875
1070	595	475	895	875
933	595	338	896	875
498	595	-97	896	876
830	595	235	897	876
1270	595	675	898	876
1100	595	505	899	876
1160	595	565	900	876
683	595	88	901	876
2910	595	2315	902	876
488	595	-107	902	877
319	595	-276	902	878
745	691	54	903	878
673	691	-18	903	879
349	691	-342	903	880
498	691	-193	903	881
796	691	105	904	881
761.79	691	70.79	905	881
722	691	31	906	881
725	691	34	907	881
650	691	-41	907	882
1050	691	359	908	882
1070	691	379	909	882
933	691	242	910	882
498	691	-193	910	883
830	691	139	911	883
1270	691	579	912	883
1100	691	409	913	883
1160	691	469	914	883
683	691	-8	914	884
2910	691	2219	915	884
488	691	-203	915	885
319	691	-372	915	886
673	745	-72	915	887
349	745	-396	915	888
498	745	-247	915	889
796	745	51	916	889
761.79	745	16.79	917	889
722	745	-23	917	890
725	745	-20	917	891
650	745	-95	917	892
1050	745	305	918	892
1070	745	325	919	892
933	745	188	920	892
498	745	-247	920	893
830	745	85	921	893
1270	745	525	922	893
1100	745	355	923	893
1160	745	415	924	893
683	745	-62	924	894
2910	745	2165	925	894
488	745	-257	925	895
319	745	-426	925	896
349	673	-324	925	897

498	673	-175	925	898
796	673	123	926	898
761.79	673	88.79	927	898
722	673	49	928	898
725	673	52	929	898
650	673	-23	929	899
1050	673	377	930	899
1070	673	397	931	899
933	673	260	932	899
498	673	-175	932	900
830	673	157	933	900
1270	673	597	934	900
1100	673	427	935	900
1160	673	487	936	900
683	673	10	937	900
2910	673	2237	938	900
488	673	-185	938	901
319	673	-354	938	902
498	349	149	939	902
796	349	447	940	902
761.79	349	412.79	941	902
722	349	373	942	902
725	349	376	943	902
650	349	301	944	902
1050	349	701	945	902
1070	349	721	946	902
933	349	584	947	902
498	349	149	948	902
830	349	481	949	902
1270	349	921	950	902
1100	349	751	951	902
1160	349	811	952	902
683	349	334	953	902
2910	349	2561	954	902
488	349	139	955	902
319	349	-30	955	903
796	498	298	956	903
761.79	498	263.79	957	903
722	498	224	958	903
725	498	227	959	903
650	498	152	960	903
1050	498	552	961	903
1070	498	572	962	903
933	498	435	963	903
498	498	0	963	903
830	498	332	964	903
1270	498	772	965	903
1100	498	602	966	903
1160	498	662	967	903
683	498	185	968	903
2910	498	2412	969	903
488	498	-10	969	904
319	498	-179	969	905
761.79	796	-34.21	969	906

722	796	-74	969	907
725	796	-71	969	908
650	796	-146	969	909
1050	796	254	970	909
1070	796	274	971	909
933	796	137	972	909
498	796	-298	972	910
830	796	34	973	910
1270	796	474	974	910
1100	796	304	975	910
1160	796	364	976	910
683	796	-113	976	911
2910	796	2114	977	911
488	796	-308	977	912
319	796	-477	977	913

722	761.79	-39.79	977	914
725	761.79	-36.79	977	915
650	761.79	-111.79	977	916
1050	761.79	288.21	978	916
1070	761.79	308.21	979	916
933	761.79	171.21	980	916
498	761.79	-263.79	980	917
830	761.79	68.21	981	917
1270	761.79	508.21	982	917
1100	761.79	338.21	983	917
1160	761.79	398.21	984	917
683	761.79	-78.79	984	918
2910	761.79	2148.21	985	918
488	761.79	-273.79	985	919
319	761.79	-442.79	985	920

725	722	3	986	920
650	722	-72	986	921
1050	722	328	987	921
1070	722	348	988	921
933	722	211	989	921
498	722	-224	989	922
830	722	108	990	922
1270	722	548	991	922
1100	722	378	992	922
1160	722	438	993	922
683	722	-39	993	923
2910	722	2188	994	923
488	722	-234	994	924
319	722	-403	994	925

650	725	-75	994	926
1050	725	325	995	926
1070	725	345	996	926
933	725	208	997	926
498	725	-227	997	927
830	725	105	998	927
1270	725	545	999	927
1100	725	375	1000	927
1160	725	435	1001	927
683	725	-42	1001	928

2910	725	2185	1002	928
488	725	-237	1002	929
319	725	-406	1002	930
1050	650	400	1003	930
1070	650	420	1004	930
933	650	283	1005	930
498	650	-152	1005	931
830	650	180	1006	931
1270	650	620	1007	931
1100	650	450	1008	931
1160	650	510	1009	931
683	650	33	1010	931
2910	650	2260	1011	931
488	650	-162	1011	932
319	650	-331	1011	933
1070	1050	20	1012	933
933	1050	-117	1012	934
498	1050	-552	1012	935
830	1050	-220	1012	936
1270	1050	220	1013	936
1100	1050	50	1014	936
1160	1050	110	1015	936
683	1050	-367	1015	937
2910	1050	1860	1016	937
488	1050	-562	1016	938
319	1050	-731	1016	939
933	1070	-137	1016	940
498	1070	-572	1016	941
830	1070	-240	1016	942
1270	1070	200	1017	942
1100	1070	30	1018	942
1160	1070	90	1019	942
683	1070	-387	1019	943
2910	1070	1840	1020	943
488	1070	-582	1020	944
319	1070	-751	1020	945
498	933	-435	1020	946
830	933	-103	1020	947
1270	933	337	1021	947
1100	933	167	1022	947
1160	933	227	1023	947
683	933	-250	1023	948
2910	933	1977	1024	948
488	933	-445	1024	949
319	933	-614	1024	950
830	498	332	1025	950
1270	498	772	1026	950
1100	498	602	1027	950
1160	498	662	1028	950
683	498	185	1029	950
2910	498	2412	1030	950
488	498	-10	1030	951

319	498	-179	1030	952
1270	830	440	1031	952
1100	830	270	1032	952
1160	830	330	1033	952
683	830	-147	1033	953
2910	830	2080	1034	953
488	830	-342	1034	954
319	830	-511	1034	955
1100	1270	-170	1034	956
1160	1270	-110	1034	957
683	1270	-587	1034	958
2910	1270	1640	1035	958
488	1270	-782	1035	959
319	1270	-951	1035	960
1160	1100	60	1036	960
683	1100	-417	1036	961
2910	1100	1810	1037	961
488	1100	-612	1037	962
319	1100	-781	1037	963
683	1160	-477	1037	964
2910	1160	1750	1038	964
488	1160	-672	1038	965
319	1160	-841	1038	966
2910	683	2227	1039	966
488	683	-195	1039	967
319	683	-364	1039	968
488	2910	-2422	1039	969
319	2910	-2591	1039	970
319	488	-169	1039	971

S Statistic = 1039 - 971 = 68

Tied Group	Value	Members
1	647	2
2	786	2
3	745	2
4	788	2
5	726	2
6	498	2

Time Period	Observations
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1

8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1
10/29/2018	1
1/30/2019	1
4/29/2019	1
7/29/2019	1

There are 0 time periods with multiple data

```
A = 108
B = 0
C = 0
D = 0
E = 12
F = 0
a = 536256
b = 2.24986e+006
c = 8064
Group Variance = 29786
Z-Score = 0.388212
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|0.388212| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
631	986	-355	0	1
738	986	-248	0	2
624	986	-362	0	3
678	986	-308	0	4
722	986	-264	0	5
790	986	-196	0	6
698	986	-288	0	7
863	986	-123	0	8
845	986	-141	0	9
684	986	-302	0	10
975	986	-11	0	11
16.3	986	-969.7	0	12
974	986	-12	0	13
929	986	-57	0	14
781	986	-205	0	15
680	986	-306	0	16
687	986	-299	0	17
691	986	-295	0	18
838	986	-148	0	19
771	986	-215	0	20
809	986	-177	0	21
752	986	-234	0	22
769	986	-217	0	23
2310	986	1324	1	23
1050	986	64	2	23
780	986	-206	2	24
840	986	-146	2	25
733	986	-253	2	26
792	986	-194	2	27
845	986	-141	2	28
719	986	-267	2	29
700	986	-286	2	30
621	986	-365	2	31
669	986	-317	2	32
696	986	-290	2	33
789	986	-197	2	34
807	986	-179	2	35
777	986	-209	2	36
693	986	-293	2	37
693	986	-293	2	38
617	986	-369	2	39
707	986	-279	2	40
770	986	-216	2	41
725	986	-261	2	42
356	986	-630	2	43
484	986	-502	2	44
599	986	-387	2	45

818.39	986	-167.61	2	46
718	986	-268	2	47
751	986	-235	2	48
550	986	-436	2	49
204	986	-782	2	50
1110	986	124	3	50
812	986	-174	3	51
564	986	-422	3	52
167	986	-819	3	53
1470	986	484	4	53
1130	986	144	5	53
1070	986	84	6	53
602	986	-384	6	54
2520	986	1534	7	54
570	986	-416	7	55
647	986	-339	7	56
738	631	107	8	56
624	631	-7	8	57
678	631	47	9	57
722	631	91	10	57
790	631	159	11	57
698	631	67	12	57
863	631	232	13	57
845	631	214	14	57
684	631	53	15	57
975	631	344	16	57
16.3	631	-614.7	16	58
974	631	343	17	58
929	631	298	18	58
781	631	150	19	58
680	631	49	20	58
687	631	56	21	58
691	631	60	22	58
838	631	207	23	58
771	631	140	24	58
809	631	178	25	58
752	631	121	26	58
769	631	138	27	58
2310	631	1679	28	58
1050	631	419	29	58
780	631	149	30	58
840	631	209	31	58
733	631	102	32	58
792	631	161	33	58
845	631	214	34	58
719	631	88	35	58
700	631	69	36	58
621	631	-10	36	59
669	631	38	37	59
696	631	65	38	59
789	631	158	39	59
807	631	176	40	59
777	631	146	41	59
693	631	62	42	59
693	631	62	43	59
617	631	-14	43	60

707	631	76	44	60
770	631	139	45	60
725	631	94	46	60
356	631	-275	46	61
484	631	-147	46	62
599	631	-32	46	63
818.39	631	187.39	47	63
718	631	87	48	63
751	631	120	49	63
550	631	-81	49	64
204	631	-427	49	65
1110	631	479	50	65
812	631	181	51	65
564	631	-67	51	66
167	631	-464	51	67
1470	631	839	52	67
1130	631	499	53	67
1070	631	439	54	67
602	631	-29	54	68
2520	631	1889	55	68
570	631	-61	55	69
647	631	16	56	69

624	738	-114	56	70
678	738	-60	56	71
722	738	-16	56	72
790	738	52	57	72
698	738	-40	57	73
863	738	125	58	73
845	738	107	59	73
684	738	-54	59	74
975	738	237	60	74
16.3	738	-721.7	60	75
974	738	236	61	75
929	738	191	62	75
781	738	43	63	75
680	738	-58	63	76
687	738	-51	63	77
691	738	-47	63	78
838	738	100	64	78
771	738	33	65	78
809	738	71	66	78
752	738	14	67	78
769	738	31	68	78
2310	738	1572	69	78
1050	738	312	70	78
780	738	42	71	78
840	738	102	72	78
733	738	-5	72	79
792	738	54	73	79
845	738	107	74	79
719	738	-19	74	80
700	738	-38	74	81
621	738	-117	74	82
669	738	-69	74	83
696	738	-42	74	84
789	738	51	75	84

807	738	69	76	84
777	738	39	77	84
693	738	-45	77	85
693	738	-45	77	86
617	738	-121	77	87
707	738	-31	77	88
770	738	32	78	88
725	738	-13	78	89
356	738	-382	78	90
484	738	-254	78	91
599	738	-139	78	92
818.39	738	80.39	79	92
718	738	-20	79	93
751	738	13	80	93
550	738	-188	80	94
204	738	-534	80	95
1110	738	372	81	95
812	738	74	82	95
564	738	-174	82	96
167	738	-571	82	97
1470	738	732	83	97
1130	738	392	84	97
1070	738	332	85	97
602	738	-136	85	98
2520	738	1782	86	98
570	738	-168	86	99
647	738	-91	86	100

678	624	54	87	100
722	624	98	88	100
790	624	166	89	100
698	624	74	90	100
863	624	239	91	100
845	624	221	92	100
684	624	60	93	100
975	624	351	94	100
16.3	624	-607.7	94	101
974	624	350	95	101
929	624	305	96	101
781	624	157	97	101
680	624	56	98	101
687	624	63	99	101
691	624	67	100	101
838	624	214	101	101
771	624	147	102	101
809	624	185	103	101
752	624	128	104	101
769	624	145	105	101
2310	624	1686	106	101
1050	624	426	107	101
780	624	156	108	101
840	624	216	109	101
733	624	109	110	101
792	624	168	111	101
845	624	221	112	101
719	624	95	113	101
700	624	76	114	101

621	624	-3	114	102
669	624	45	115	102
696	624	72	116	102
789	624	165	117	102
807	624	183	118	102
777	624	153	119	102
693	624	69	120	102
693	624	69	121	102
617	624	-7	121	103
707	624	83	122	103
770	624	146	123	103
725	624	101	124	103
356	624	-268	124	104
484	624	-140	124	105
599	624	-25	124	106
818.39	624	194.39	125	106
718	624	94	126	106
751	624	127	127	106
550	624	-74	127	107
204	624	-420	127	108
1110	624	486	128	108
812	624	188	129	108
564	624	-60	129	109
167	624	-457	129	110
1470	624	846	130	110
1130	624	506	131	110
1070	624	446	132	110
602	624	-22	132	111
2520	624	1896	133	111
570	624	-54	133	112
647	624	23	134	112
722	678	44	135	112
790	678	112	136	112
698	678	20	137	112
863	678	185	138	112
845	678	167	139	112
684	678	6	140	112
975	678	297	141	112
16.3	678	-661.7	141	113
974	678	296	142	113
929	678	251	143	113
781	678	103	144	113
680	678	2	145	113
687	678	9	146	113
691	678	13	147	113
838	678	160	148	113
771	678	93	149	113
809	678	131	150	113
752	678	74	151	113
769	678	91	152	113
2310	678	1632	153	113
1050	678	372	154	113
780	678	102	155	113
840	678	162	156	113
733	678	55	157	113
792	678	114	158	113

845	678	167	159	113
719	678	41	160	113
700	678	22	161	113
621	678	-57	161	114
669	678	-9	161	115
696	678	18	162	115
789	678	111	163	115
807	678	129	164	115
777	678	99	165	115
693	678	15	166	115
693	678	15	167	115
617	678	-61	167	116
707	678	29	168	116
770	678	92	169	116
725	678	47	170	116
356	678	-322	170	117
484	678	-194	170	118
599	678	-79	170	119
818.39	678	140.39	171	119
718	678	40	172	119
751	678	73	173	119
550	678	-128	173	120
204	678	-474	173	121
1110	678	432	174	121
812	678	134	175	121
564	678	-114	175	122
167	678	-511	175	123
1470	678	792	176	123
1130	678	452	177	123
1070	678	392	178	123
602	678	-76	178	124
2520	678	1842	179	124
570	678	-108	179	125
647	678	-31	179	126

790	722	68	180	126
698	722	-24	180	127
863	722	141	181	127
845	722	123	182	127
684	722	-38	182	128
975	722	253	183	128
16.3	722	-705.7	183	129
974	722	252	184	129
929	722	207	185	129
781	722	59	186	129
680	722	-42	186	130
687	722	-35	186	131
691	722	-31	186	132
838	722	116	187	132
771	722	49	188	132
809	722	87	189	132
752	722	30	190	132
769	722	47	191	132
2310	722	1588	192	132
1050	722	328	193	132
780	722	58	194	132
840	722	118	195	132

733	722	11	196	132
792	722	70	197	132
845	722	123	198	132
719	722	-3	198	133
700	722	-22	198	134
621	722	-101	198	135
669	722	-53	198	136
696	722	-26	198	137
789	722	67	199	137
807	722	85	200	137
777	722	55	201	137
693	722	-29	201	138
693	722	-29	201	139
617	722	-105	201	140
707	722	-15	201	141
770	722	48	202	141
725	722	3	203	141
356	722	-366	203	142
484	722	-238	203	143
599	722	-123	203	144
818.39	722	96.39	204	144
718	722	-4	204	145
751	722	29	205	145
550	722	-172	205	146
204	722	-518	205	147
1110	722	388	206	147
812	722	90	207	147
564	722	-158	207	148
167	722	-555	207	149
1470	722	748	208	149
1130	722	408	209	149
1070	722	348	210	149
602	722	-120	210	150
2520	722	1798	211	150
570	722	-152	211	151
647	722	-75	211	152
698	790	-92	211	153
863	790	73	212	153
845	790	55	213	153
684	790	-106	213	154
975	790	185	214	154
16.3	790	-773.7	214	155
974	790	184	215	155
929	790	139	216	155
781	790	-9	216	156
680	790	-110	216	157
687	790	-103	216	158
691	790	-99	216	159
838	790	48	217	159
771	790	-19	217	160
809	790	19	218	160
752	790	-38	218	161
769	790	-21	218	162
2310	790	1520	219	162
1050	790	260	220	162
780	790	-10	220	163

840	790	50	221	163
733	790	-57	221	164
792	790	2	222	164
845	790	55	223	164
719	790	-71	223	165
700	790	-90	223	166
621	790	-169	223	167
669	790	-121	223	168
696	790	-94	223	169
789	790	-1	223	170
807	790	17	224	170
777	790	-13	224	171
693	790	-97	224	172
693	790	-97	224	173
617	790	-173	224	174
707	790	-83	224	175
770	790	-20	224	176
725	790	-65	224	177
356	790	-434	224	178
484	790	-306	224	179
599	790	-191	224	180
818.39	790	28.39	225	180
718	790	-72	225	181
751	790	-39	225	182
550	790	-240	225	183
204	790	-586	225	184
1110	790	320	226	184
812	790	22	227	184
564	790	-226	227	185
167	790	-623	227	186
1470	790	680	228	186
1130	790	340	229	186
1070	790	280	230	186
602	790	-188	230	187
2520	790	1730	231	187
570	790	-220	231	188
647	790	-143	231	189

863	698	165	232	189
845	698	147	233	189
684	698	-14	233	190
975	698	277	234	190
16.3	698	-681.7	234	191
974	698	276	235	191
929	698	231	236	191
781	698	83	237	191
680	698	-18	237	192
687	698	-11	237	193
691	698	-7	237	194
838	698	140	238	194
771	698	73	239	194
809	698	111	240	194
752	698	54	241	194
769	698	71	242	194
2310	698	1612	243	194
1050	698	352	244	194
780	698	82	245	194

840	698	142	246	194
733	698	35	247	194
792	698	94	248	194
845	698	147	249	194
719	698	21	250	194
700	698	2	251	194
621	698	-77	251	195
669	698	-29	251	196
696	698	-2	251	197
789	698	91	252	197
807	698	109	253	197
777	698	79	254	197
693	698	-5	254	198
693	698	-5	254	199
617	698	-81	254	200
707	698	9	255	200
770	698	72	256	200
725	698	27	257	200
356	698	-342	257	201
484	698	-214	257	202
599	698	-99	257	203
818.39	698	120.39	258	203
718	698	20	259	203
751	698	53	260	203
550	698	-148	260	204
204	698	-494	260	205
1110	698	412	261	205
812	698	114	262	205
564	698	-134	262	206
167	698	-531	262	207
1470	698	772	263	207
1130	698	432	264	207
1070	698	372	265	207
602	698	-96	265	208
2520	698	1822	266	208
570	698	-128	266	209
647	698	-51	266	210
845	863	-18	266	211
684	863	-179	266	212
975	863	112	267	212
16.3	863	-846.7	267	213
974	863	111	268	213
929	863	66	269	213
781	863	-82	269	214
680	863	-183	269	215
687	863	-176	269	216
691	863	-172	269	217
838	863	-25	269	218
771	863	-92	269	219
809	863	-54	269	220
752	863	-111	269	221
769	863	-94	269	222
2310	863	1447	270	222
1050	863	187	271	222
780	863	-83	271	223
840	863	-23	271	224

733	863	-130	271	225
792	863	-71	271	226
845	863	-18	271	227
719	863	-144	271	228
700	863	-163	271	229
621	863	-242	271	230
669	863	-194	271	231
696	863	-167	271	232
789	863	-74	271	233
807	863	-56	271	234
777	863	-86	271	235
693	863	-170	271	236
693	863	-170	271	237
617	863	-246	271	238
707	863	-156	271	239
770	863	-93	271	240
725	863	-138	271	241
356	863	-507	271	242
484	863	-379	271	243
599	863	-264	271	244
818.39	863	-44.61	271	245
718	863	-145	271	246
751	863	-112	271	247
550	863	-313	271	248
204	863	-659	271	249
1110	863	247	272	249
812	863	-51	272	250
564	863	-299	272	251
167	863	-696	272	252
1470	863	607	273	252
1130	863	267	274	252
1070	863	207	275	252
602	863	-261	275	253
2520	863	1657	276	253
570	863	-293	276	254
647	863	-216	276	255
684	845	-161	276	256
975	845	130	277	256
16.3	845	-828.7	277	257
974	845	129	278	257
929	845	84	279	257
781	845	-64	279	258
680	845	-165	279	259
687	845	-158	279	260
691	845	-154	279	261
838	845	-7	279	262
771	845	-74	279	263
809	845	-36	279	264
752	845	-93	279	265
769	845	-76	279	266
2310	845	1465	280	266
1050	845	205	281	266
780	845	-65	281	267
840	845	-5	281	268
733	845	-112	281	269
792	845	-53	281	270

845	845	0	281	270
719	845	-126	281	271
700	845	-145	281	272
621	845	-224	281	273
669	845	-176	281	274
696	845	-149	281	275
789	845	-56	281	276
807	845	-38	281	277
777	845	-68	281	278
693	845	-152	281	279
693	845	-152	281	280
617	845	-228	281	281
707	845	-138	281	282
770	845	-75	281	283
725	845	-120	281	284
356	845	-489	281	285
484	845	-361	281	286
599	845	-246	281	287
818.39	845	-26.61	281	288
718	845	-127	281	289
751	845	-94	281	290
550	845	-295	281	291
204	845	-641	281	292
1110	845	265	282	292
812	845	-33	282	293
564	845	-281	282	294
167	845	-678	282	295
1470	845	625	283	295
1130	845	285	284	295
1070	845	225	285	295
602	845	-243	285	296
2520	845	1675	286	296
570	845	-275	286	297
647	845	-198	286	298
975	684	291	287	298
16.3	684	-667.7	287	299
974	684	290	288	299
929	684	245	289	299
781	684	97	290	299
680	684	-4	290	300
687	684	3	291	300
691	684	7	292	300
838	684	154	293	300
771	684	87	294	300
809	684	125	295	300
752	684	68	296	300
769	684	85	297	300
2310	684	1626	298	300
1050	684	366	299	300
780	684	96	300	300
840	684	156	301	300
733	684	49	302	300
792	684	108	303	300
845	684	161	304	300
719	684	35	305	300
700	684	16	306	300

621	684	-63	306	301
669	684	-15	306	302
696	684	12	307	302
789	684	105	308	302
807	684	123	309	302
777	684	93	310	302
693	684	9	311	302
693	684	9	312	302
617	684	-67	312	303
707	684	23	313	303
770	684	86	314	303
725	684	41	315	303
356	684	-328	315	304
484	684	-200	315	305
599	684	-85	315	306
818.39	684	134.39	316	306
718	684	34	317	306
751	684	67	318	306
550	684	-134	318	307
204	684	-480	318	308
1110	684	426	319	308
812	684	128	320	308
564	684	-120	320	309
167	684	-517	320	310
1470	684	786	321	310
1130	684	446	322	310
1070	684	386	323	310
602	684	-82	323	311
2520	684	1836	324	311
570	684	-114	324	312
647	684	-37	324	313
16.3	975	-958.7	324	314
974	975	-1	324	315
929	975	-46	324	316
781	975	-194	324	317
680	975	-295	324	318
687	975	-288	324	319
691	975	-284	324	320
838	975	-137	324	321
771	975	-204	324	322
809	975	-166	324	323
752	975	-223	324	324
769	975	-206	324	325
2310	975	1335	325	325
1050	975	75	326	325
780	975	-195	326	326
840	975	-135	326	327
733	975	-242	326	328
792	975	-183	326	329
845	975	-130	326	330
719	975	-256	326	331
700	975	-275	326	332
621	975	-354	326	333
669	975	-306	326	334
696	975	-279	326	335
789	975	-186	326	336

807	975	-168	326	337
777	975	-198	326	338
693	975	-282	326	339
693	975	-282	326	340
617	975	-358	326	341
707	975	-268	326	342
770	975	-205	326	343
725	975	-250	326	344
356	975	-619	326	345
484	975	-491	326	346
599	975	-376	326	347
818.39	975	-156.61	326	348
718	975	-257	326	349
751	975	-224	326	350
550	975	-425	326	351
204	975	-771	326	352
1110	975	135	327	352
812	975	-163	327	353
564	975	-411	327	354
167	975	-808	327	355
1470	975	495	328	355
1130	975	155	329	355
1070	975	95	330	355
602	975	-373	330	356
2520	975	1545	331	356
570	975	-405	331	357
647	975	-328	331	358
974	16.3	957.7	332	358
929	16.3	912.7	333	358
781	16.3	764.7	334	358
680	16.3	663.7	335	358
687	16.3	670.7	336	358
691	16.3	674.7	337	358
838	16.3	821.7	338	358
771	16.3	754.7	339	358
809	16.3	792.7	340	358
752	16.3	735.7	341	358
769	16.3	752.7	342	358
2310	16.3	2293.7	343	358
1050	16.3	1033.7	344	358
780	16.3	763.7	345	358
840	16.3	823.7	346	358
733	16.3	716.7	347	358
792	16.3	775.7	348	358
845	16.3	828.7	349	358
719	16.3	702.7	350	358
700	16.3	683.7	351	358
621	16.3	604.7	352	358
669	16.3	652.7	353	358
696	16.3	679.7	354	358
789	16.3	772.7	355	358
807	16.3	790.7	356	358
777	16.3	760.7	357	358
693	16.3	676.7	358	358
693	16.3	676.7	359	358
617	16.3	600.7	360	358

707	16.3	690.7	361	358
770	16.3	753.7	362	358
725	16.3	708.7	363	358
356	16.3	339.7	364	358
484	16.3	467.7	365	358
599	16.3	582.7	366	358
818.39	16.3	802.09	367	358
718	16.3	701.7	368	358
751	16.3	734.7	369	358
550	16.3	533.7	370	358
204	16.3	187.7	371	358
1110	16.3	1093.7	372	358
812	16.3	795.7	373	358
564	16.3	547.7	374	358
167	16.3	150.7	375	358
1470	16.3	1453.7	376	358
1130	16.3	1113.7	377	358
1070	16.3	1053.7	378	358
602	16.3	585.7	379	358
2520	16.3	2503.7	380	358
570	16.3	553.7	381	358
647	16.3	630.7	382	358

929	974	-45	382	359
781	974	-193	382	360
680	974	-294	382	361
687	974	-287	382	362
691	974	-283	382	363
838	974	-136	382	364
771	974	-203	382	365
809	974	-165	382	366
752	974	-222	382	367
769	974	-205	382	368
2310	974	1336	383	368
1050	974	76	384	368
780	974	-194	384	369
840	974	-134	384	370
733	974	-241	384	371
792	974	-182	384	372
845	974	-129	384	373
719	974	-255	384	374
700	974	-274	384	375
621	974	-353	384	376
669	974	-305	384	377
696	974	-278	384	378
789	974	-185	384	379
807	974	-167	384	380
777	974	-197	384	381
693	974	-281	384	382
693	974	-281	384	383
617	974	-357	384	384
707	974	-267	384	385
770	974	-204	384	386
725	974	-249	384	387
356	974	-618	384	388
484	974	-490	384	389
599	974	-375	384	390

818.39	974	-155.61	384	391
718	974	-256	384	392
751	974	-223	384	393
550	974	-424	384	394
204	974	-770	384	395
1110	974	136	385	395
812	974	-162	385	396
564	974	-410	385	397
167	974	-807	385	398
1470	974	496	386	398
1130	974	156	387	398
1070	974	96	388	398
602	974	-372	388	399
2520	974	1546	389	399
570	974	-404	389	400
647	974	-327	389	401
781	929	-148	389	402
680	929	-249	389	403
687	929	-242	389	404
691	929	-238	389	405
838	929	-91	389	406
771	929	-158	389	407
809	929	-120	389	408
752	929	-177	389	409
769	929	-160	389	410
2310	929	1381	390	410
1050	929	121	391	410
780	929	-149	391	411
840	929	-89	391	412
733	929	-196	391	413
792	929	-137	391	414
845	929	-84	391	415
719	929	-210	391	416
700	929	-229	391	417
621	929	-308	391	418
669	929	-260	391	419
696	929	-233	391	420
789	929	-140	391	421
807	929	-122	391	422
777	929	-152	391	423
693	929	-236	391	424
693	929	-236	391	425
617	929	-312	391	426
707	929	-222	391	427
770	929	-159	391	428
725	929	-204	391	429
356	929	-573	391	430
484	929	-445	391	431
599	929	-330	391	432
818.39	929	-110.61	391	433
718	929	-211	391	434
751	929	-178	391	435
550	929	-379	391	436
204	929	-725	391	437
1110	929	181	392	437
812	929	-117	392	438

564	929	-365	392	439
167	929	-762	392	440
1470	929	541	393	440
1130	929	201	394	440
1070	929	141	395	440
602	929	-327	395	441
2520	929	1591	396	441
570	929	-359	396	442
647	929	-282	396	443
680	781	-101	396	444
687	781	-94	396	445
691	781	-90	396	446
838	781	57	397	446
771	781	-10	397	447
809	781	28	398	447
752	781	-29	398	448
769	781	-12	398	449
2310	781	1529	399	449
1050	781	269	400	449
780	781	-1	400	450
840	781	59	401	450
733	781	-48	401	451
792	781	11	402	451
845	781	64	403	451
719	781	-62	403	452
700	781	-81	403	453
621	781	-160	403	454
669	781	-112	403	455
696	781	-85	403	456
789	781	8	404	456
807	781	26	405	456
777	781	-4	405	457
693	781	-88	405	458
693	781	-88	405	459
617	781	-164	405	460
707	781	-74	405	461
770	781	-11	405	462
725	781	-56	405	463
356	781	-425	405	464
484	781	-297	405	465
599	781	-182	405	466
818.39	781	37.39	406	466
718	781	-63	406	467
751	781	-30	406	468
550	781	-231	406	469
204	781	-577	406	470
1110	781	329	407	470
812	781	31	408	470
564	781	-217	408	471
167	781	-614	408	472
1470	781	689	409	472
1130	781	349	410	472
1070	781	289	411	472
602	781	-179	411	473
2520	781	1739	412	473
570	781	-211	412	474

647	781	-134	412	475

687	680	7	413	475
691	680	11	414	475
838	680	158	415	475
771	680	91	416	475
809	680	129	417	475
752	680	72	418	475
769	680	89	419	475
2310	680	1630	420	475
1050	680	370	421	475
780	680	100	422	475
840	680	160	423	475
733	680	53	424	475
792	680	112	425	475
845	680	165	426	475
719	680	39	427	475
700	680	20	428	475
621	680	-59	428	476
669	680	-11	428	477
696	680	16	429	477
789	680	109	430	477
807	680	127	431	477
777	680	97	432	477
693	680	13	433	477
693	680	13	434	477
617	680	-63	434	478
707	680	27	435	478
770	680	90	436	478
725	680	45	437	478
356	680	-324	437	479
484	680	-196	437	480
599	680	-81	437	481
818.39	680	138.39	438	481
718	680	38	439	481
751	680	71	440	481
550	680	-130	440	482
204	680	-476	440	483
1110	680	430	441	483
812	680	132	442	483
564	680	-116	442	484
167	680	-513	442	485
1470	680	790	443	485
1130	680	450	444	485
1070	680	390	445	485
602	680	-78	445	486
2520	680	1840	446	486
570	680	-110	446	487
647	680	-33	446	488

691	687	4	447	488
838	687	151	448	488
771	687	84	449	488
809	687	122	450	488
752	687	65	451	488
769	687	82	452	488
2310	687	1623	453	488

1050	687	363	454	488
780	687	93	455	488
840	687	153	456	488
733	687	46	457	488
792	687	105	458	488
845	687	158	459	488
719	687	32	460	488
700	687	13	461	488
621	687	-66	461	489
669	687	-18	461	490
696	687	9	462	490
789	687	102	463	490
807	687	120	464	490
777	687	90	465	490
693	687	6	466	490
693	687	6	467	490
617	687	-70	467	491
707	687	20	468	491
770	687	83	469	491
725	687	38	470	491
356	687	-331	470	492
484	687	-203	470	493
599	687	-88	470	494
818.39	687	131.39	471	494
718	687	31	472	494
751	687	64	473	494
550	687	-137	473	495
204	687	-483	473	496
1110	687	423	474	496
812	687	125	475	496
564	687	-123	475	497
167	687	-520	475	498
1470	687	783	476	498
1130	687	443	477	498
1070	687	383	478	498
602	687	-85	478	499
2520	687	1833	479	499
570	687	-117	479	500
647	687	-40	479	501
838	691	147	480	501
771	691	80	481	501
809	691	118	482	501
752	691	61	483	501
769	691	78	484	501
2310	691	1619	485	501
1050	691	359	486	501
780	691	89	487	501
840	691	149	488	501
733	691	42	489	501
792	691	101	490	501
845	691	154	491	501
719	691	28	492	501
700	691	9	493	501
621	691	-70	493	502
669	691	-22	493	503
696	691	5	494	503

789	691	98	495	503
807	691	116	496	503
777	691	86	497	503
693	691	2	498	503
693	691	2	499	503
617	691	-74	499	504
707	691	16	500	504
770	691	79	501	504
725	691	34	502	504
356	691	-335	502	505
484	691	-207	502	506
599	691	-92	502	507
818.39	691	127.39	503	507
718	691	27	504	507
751	691	60	505	507
550	691	-141	505	508
204	691	-487	505	509
1110	691	419	506	509
812	691	121	507	509
564	691	-127	507	510
167	691	-524	507	511
1470	691	779	508	511
1130	691	439	509	511
1070	691	379	510	511
602	691	-89	510	512
2520	691	1829	511	512
570	691	-121	511	513
647	691	-44	511	514

771	838	-67	511	515
809	838	-29	511	516
752	838	-86	511	517
769	838	-69	511	518
2310	838	1472	512	518
1050	838	212	513	518
780	838	-58	513	519
840	838	2	514	519
733	838	-105	514	520
792	838	-46	514	521
845	838	7	515	521
719	838	-119	515	522
700	838	-138	515	523
621	838	-217	515	524
669	838	-169	515	525
696	838	-142	515	526
789	838	-49	515	527
807	838	-31	515	528
777	838	-61	515	529
693	838	-145	515	530
693	838	-145	515	531
617	838	-221	515	532
707	838	-131	515	533
770	838	-68	515	534
725	838	-113	515	535
356	838	-482	515	536
484	838	-354	515	537
599	838	-239	515	538

818.39	838	-19.61	515	539
718	838	-120	515	540
751	838	-87	515	541
550	838	-288	515	542
204	838	-634	515	543
1110	838	272	516	543
812	838	-26	516	544
564	838	-274	516	545
167	838	-671	516	546
1470	838	632	517	546
1130	838	292	518	546
1070	838	232	519	546
602	838	-236	519	547
2520	838	1682	520	547
570	838	-268	520	548
647	838	-191	520	549

809	771	38	521	549
752	771	-19	521	550
769	771	-2	521	551
2310	771	1539	522	551
1050	771	279	523	551
780	771	9	524	551
840	771	69	525	551
733	771	-38	525	552
792	771	21	526	552
845	771	74	527	552
719	771	-52	527	553
700	771	-71	527	554
621	771	-150	527	555
669	771	-102	527	556
696	771	-75	527	557
789	771	18	528	557
807	771	36	529	557
777	771	6	530	557
693	771	-78	530	558
693	771	-78	530	559
617	771	-154	530	560
707	771	-64	530	561
770	771	-1	530	562
725	771	-46	530	563
356	771	-415	530	564
484	771	-287	530	565
599	771	-172	530	566
818.39	771	47.39	531	566
718	771	-53	531	567
751	771	-20	531	568
550	771	-221	531	569
204	771	-567	531	570
1110	771	339	532	570
812	771	41	533	570
564	771	-207	533	571
167	771	-604	533	572
1470	771	699	534	572
1130	771	359	535	572
1070	771	299	536	572
602	771	-169	536	573

2520	771	1749	537	573
570	771	-201	537	574
647	771	-124	537	575
752	809	-57	537	576
769	809	-40	537	577
2310	809	1501	538	577
1050	809	241	539	577
780	809	-29	539	578
840	809	31	540	578
733	809	-76	540	579
792	809	-17	540	580
845	809	36	541	580
719	809	-90	541	581
700	809	-109	541	582
621	809	-188	541	583
669	809	-140	541	584
696	809	-113	541	585
789	809	-20	541	586
807	809	-2	541	587
777	809	-32	541	588
693	809	-116	541	589
693	809	-116	541	590
617	809	-192	541	591
707	809	-102	541	592
770	809	-39	541	593
725	809	-84	541	594
356	809	-453	541	595
484	809	-325	541	596
599	809	-210	541	597
818.39	809	9.39	542	597
718	809	-91	542	598
751	809	-58	542	599
550	809	-259	542	600
204	809	-605	542	601
1110	809	301	543	601
812	809	3	544	601
564	809	-245	544	602
167	809	-642	544	603
1470	809	661	545	603
1130	809	321	546	603
1070	809	261	547	603
602	809	-207	547	604
2520	809	1711	548	604
570	809	-239	548	605
647	809	-162	548	606
769	752	17	549	606
2310	752	1558	550	606
1050	752	298	551	606
780	752	28	552	606
840	752	88	553	606
733	752	-19	553	607
792	752	40	554	607
845	752	93	555	607
719	752	-33	555	608
700	752	-52	555	609

621	752	-131	555	610
669	752	-83	555	611
696	752	-56	555	612
789	752	37	556	612
807	752	55	557	612
777	752	25	558	612
693	752	-59	558	613
693	752	-59	558	614
617	752	-135	558	615
707	752	-45	558	616
770	752	18	559	616
725	752	-27	559	617
356	752	-396	559	618
484	752	-268	559	619
599	752	-153	559	620
818.39	752	66.39	560	620
718	752	-34	560	621
751	752	-1	560	622
550	752	-202	560	623
204	752	-548	560	624
1110	752	358	561	624
812	752	60	562	624
564	752	-188	562	625
167	752	-585	562	626
1470	752	718	563	626
1130	752	378	564	626
1070	752	318	565	626
602	752	-150	565	627
2520	752	1768	566	627
570	752	-182	566	628
647	752	-105	566	629
2310	769	1541	567	629
1050	769	281	568	629
780	769	11	569	629
840	769	71	570	629
733	769	-36	570	630
792	769	23	571	630
845	769	76	572	630
719	769	-50	572	631
700	769	-69	572	632
621	769	-148	572	633
669	769	-100	572	634
696	769	-73	572	635
789	769	20	573	635
807	769	38	574	635
777	769	8	575	635
693	769	-76	575	636
693	769	-76	575	637
617	769	-152	575	638
707	769	-62	575	639
770	769	1	576	639
725	769	-44	576	640
356	769	-413	576	641
484	769	-285	576	642
599	769	-170	576	643
818.39	769	49.39	577	643

718	769	-51	577	644
751	769	-18	577	645
550	769	-219	577	646
204	769	-565	577	647
1110	769	341	578	647
812	769	43	579	647
564	769	-205	579	648
167	769	-602	579	649
1470	769	701	580	649
1130	769	361	581	649
1070	769	301	582	649
602	769	-167	582	650
2520	769	1751	583	650
570	769	-199	583	651
647	769	-122	583	652

1050	2310	-1260	583	653
780	2310	-1530	583	654
840	2310	-1470	583	655
733	2310	-1577	583	656
792	2310	-1518	583	657
845	2310	-1465	583	658
719	2310	-1591	583	659
700	2310	-1610	583	660
621	2310	-1689	583	661
669	2310	-1641	583	662
696	2310	-1614	583	663
789	2310	-1521	583	664
807	2310	-1503	583	665
777	2310	-1533	583	666
693	2310	-1617	583	667
693	2310	-1617	583	668
617	2310	-1693	583	669
707	2310	-1603	583	670
770	2310	-1540	583	671
725	2310	-1585	583	672
356	2310	-1954	583	673
484	2310	-1826	583	674
599	2310	-1711	583	675
818.39	2310	-1491.61	583	676
718	2310	-1592	583	677
751	2310	-1559	583	678
550	2310	-1760	583	679
204	2310	-2106	583	680
1110	2310	-1200	583	681
812	2310	-1498	583	682
564	2310	-1746	583	683
167	2310	-2143	583	684
1470	2310	-840	583	685
1130	2310	-1180	583	686
1070	2310	-1240	583	687
602	2310	-1708	583	688
2520	2310	210	584	688
570	2310	-1740	584	689
647	2310	-1663	584	690

780	1050	-270	584	691

840	1050	-210	584	692
733	1050	-317	584	693
792	1050	-258	584	694
845	1050	-205	584	695
719	1050	-331	584	696
700	1050	-350	584	697
621	1050	-429	584	698
669	1050	-381	584	699
696	1050	-354	584	700
789	1050	-261	584	701
807	1050	-243	584	702
777	1050	-273	584	703
693	1050	-357	584	704
693	1050	-357	584	705
617	1050	-433	584	706
707	1050	-343	584	707
770	1050	-280	584	708
725	1050	-325	584	709
356	1050	-694	584	710
484	1050	-566	584	711
599	1050	-451	584	712
818.39	1050	-231.61	584	713
718	1050	-332	584	714
751	1050	-299	584	715
550	1050	-500	584	716
204	1050	-846	584	717
1110	1050	60	585	717
812	1050	-238	585	718
564	1050	-486	585	719
167	1050	-883	585	720
1470	1050	420	586	720
1130	1050	80	587	720
1070	1050	20	588	720
602	1050	-448	588	721
2520	1050	1470	589	721
570	1050	-480	589	722
647	1050	-403	589	723

840	780	60	590	723
733	780	-47	590	724
792	780	12	591	724
845	780	65	592	724
719	780	-61	592	725
700	780	-80	592	726
621	780	-159	592	727
669	780	-111	592	728
696	780	-84	592	729
789	780	9	593	729
807	780	27	594	729
777	780	-3	594	730
693	780	-87	594	731
693	780	-87	594	732
617	780	-163	594	733
707	780	-73	594	734
770	780	-10	594	735
725	780	-55	594	736
356	780	-424	594	737

484	780	-296	594	738
599	780	-181	594	739
818.39	780	38.39	595	739
718	780	-62	595	740
751	780	-29	595	741
550	780	-230	595	742
204	780	-576	595	743
1110	780	330	596	743
812	780	32	597	743
564	780	-216	597	744
167	780	-613	597	745
1470	780	690	598	745
1130	780	350	599	745
1070	780	290	600	745
602	780	-178	600	746
2520	780	1740	601	746
570	780	-210	601	747
647	780	-133	601	748
733	840	-107	601	749
792	840	-48	601	750
845	840	5	602	750
719	840	-121	602	751
700	840	-140	602	752
621	840	-219	602	753
669	840	-171	602	754
696	840	-144	602	755
789	840	-51	602	756
807	840	-33	602	757
777	840	-63	602	758
693	840	-147	602	759
693	840	-147	602	760
617	840	-223	602	761
707	840	-133	602	762
770	840	-70	602	763
725	840	-115	602	764
356	840	-484	602	765
484	840	-356	602	766
599	840	-241	602	767
818.39	840	-21.61	602	768
718	840	-122	602	769
751	840	-89	602	770
550	840	-290	602	771
204	840	-636	602	772
1110	840	270	603	772
812	840	-28	603	773
564	840	-276	603	774
167	840	-673	603	775
1470	840	630	604	775
1130	840	290	605	775
1070	840	230	606	775
602	840	-238	606	776
2520	840	1680	607	776
570	840	-270	607	777
647	840	-193	607	778
792	733	59	608	778

845	733	112	609	778
719	733	-14	609	779
700	733	-33	609	780
621	733	-112	609	781
669	733	-64	609	782
696	733	-37	609	783
789	733	56	610	783
807	733	74	611	783
777	733	44	612	783
693	733	-40	612	784
693	733	-40	612	785
617	733	-116	612	786
707	733	-26	612	787
770	733	37	613	787
725	733	-8	613	788
356	733	-377	613	789
484	733	-249	613	790
599	733	-134	613	791
818.39	733	85.39	614	791
718	733	-15	614	792
751	733	18	615	792
550	733	-183	615	793
204	733	-529	615	794
1110	733	377	616	794
812	733	79	617	794
564	733	-169	617	795
167	733	-566	617	796
1470	733	737	618	796
1130	733	397	619	796
1070	733	337	620	796
602	733	-131	620	797
2520	733	1787	621	797
570	733	-163	621	798
647	733	-86	621	799

845	792	53	622	799
719	792	-73	622	800
700	792	-92	622	801
621	792	-171	622	802
669	792	-123	622	803
696	792	-96	622	804
789	792	-3	622	805
807	792	15	623	805
777	792	-15	623	806
693	792	-99	623	807
693	792	-99	623	808
617	792	-175	623	809
707	792	-85	623	810
770	792	-22	623	811
725	792	-67	623	812
356	792	-436	623	813
484	792	-308	623	814
599	792	-193	623	815
818.39	792	26.39	624	815
718	792	-74	624	816
751	792	-41	624	817
550	792	-242	624	818

204	792	-588	624	819
1110	792	318	625	819
812	792	20	626	819
564	792	-228	626	820
167	792	-625	626	821
1470	792	678	627	821
1130	792	338	628	821
1070	792	278	629	821
602	792	-190	629	822
2520	792	1728	630	822
570	792	-222	630	823
647	792	-145	630	824
719	845	-126	630	825
700	845	-145	630	826
621	845	-224	630	827
669	845	-176	630	828
696	845	-149	630	829
789	845	-56	630	830
807	845	-38	630	831
777	845	-68	630	832
693	845	-152	630	833
693	845	-152	630	834
617	845	-228	630	835
707	845	-138	630	836
770	845	-75	630	837
725	845	-120	630	838
356	845	-489	630	839
484	845	-361	630	840
599	845	-246	630	841
818.39	845	-26.61	630	842
718	845	-127	630	843
751	845	-94	630	844
550	845	-295	630	845
204	845	-641	630	846
1110	845	265	631	846
812	845	-33	631	847
564	845	-281	631	848
167	845	-678	631	849
1470	845	625	632	849
1130	845	285	633	849
1070	845	225	634	849
602	845	-243	634	850
2520	845	1675	635	850
570	845	-275	635	851
647	845	-198	635	852
700	719	-19	635	853
621	719	-98	635	854
669	719	-50	635	855
696	719	-23	635	856
789	719	70	636	856
807	719	88	637	856
777	719	58	638	856
693	719	-26	638	857
693	719	-26	638	858
617	719	-102	638	859

707	719	-12	638	860
770	719	51	639	860
725	719	6	640	860
356	719	-363	640	861
484	719	-235	640	862
599	719	-120	640	863
818.39	719	99.39	641	863
718	719	-1	641	864
751	719	32	642	864
550	719	-169	642	865
204	719	-515	642	866
1110	719	391	643	866
812	719	93	644	866
564	719	-155	644	867
167	719	-552	644	868
1470	719	751	645	868
1130	719	411	646	868
1070	719	351	647	868
602	719	-117	647	869
2520	719	1801	648	869
570	719	-149	648	870
647	719	-72	648	871
621	700	-79	648	872
669	700	-31	648	873
696	700	-4	648	874
789	700	89	649	874
807	700	107	650	874
777	700	77	651	874
693	700	-7	651	875
693	700	-7	651	876
617	700	-83	651	877
707	700	7	652	877
770	700	70	653	877
725	700	25	654	877
356	700	-344	654	878
484	700	-216	654	879
599	700	-101	654	880
818.39	700	118.39	655	880
718	700	18	656	880
751	700	51	657	880
550	700	-150	657	881
204	700	-496	657	882
1110	700	410	658	882
812	700	112	659	882
564	700	-136	659	883
167	700	-533	659	884
1470	700	770	660	884
1130	700	430	661	884
1070	700	370	662	884
602	700	-98	662	885
2520	700	1820	663	885
570	700	-130	663	886
647	700	-53	663	887
669	621	48	664	887
696	621	75	665	887

789	621	168	666	887
807	621	186	667	887
777	621	156	668	887
693	621	72	669	887
693	621	72	670	887
617	621	-4	670	888
707	621	86	671	888
770	621	149	672	888
725	621	104	673	888
356	621	-265	673	889
484	621	-137	673	890
599	621	-22	673	891
818.39	621	197.39	674	891
718	621	97	675	891
751	621	130	676	891
550	621	-71	676	892
204	621	-417	676	893
1110	621	489	677	893
812	621	191	678	893
564	621	-57	678	894
167	621	-454	678	895
1470	621	849	679	895
1130	621	509	680	895
1070	621	449	681	895
602	621	-19	681	896
2520	621	1899	682	896
570	621	-51	682	897
647	621	26	683	897

696	669	27	684	897
789	669	120	685	897
807	669	138	686	897
777	669	108	687	897
693	669	24	688	897
693	669	24	689	897
617	669	-52	689	898
707	669	38	690	898
770	669	101	691	898
725	669	56	692	898
356	669	-313	692	899
484	669	-185	692	900
599	669	-70	692	901
818.39	669	149.39	693	901
718	669	49	694	901
751	669	82	695	901
550	669	-119	695	902
204	669	-465	695	903
1110	669	441	696	903
812	669	143	697	903
564	669	-105	697	904
167	669	-502	697	905
1470	669	801	698	905
1130	669	461	699	905
1070	669	401	700	905
602	669	-67	700	906
2520	669	1851	701	906
570	669	-99	701	907

647	669	-22	701	908
789	696	93	702	908
807	696	111	703	908
777	696	81	704	908
693	696	-3	704	909
693	696	-3	704	910
617	696	-79	704	911
707	696	11	705	911
770	696	74	706	911
725	696	29	707	911
356	696	-340	707	912
484	696	-212	707	913
599	696	-97	707	914
818.39	696	122.39	708	914
718	696	22	709	914
751	696	55	710	914
550	696	-146	710	915
204	696	-492	710	916
1110	696	414	711	916
812	696	116	712	916
564	696	-132	712	917
167	696	-529	712	918
1470	696	774	713	918
1130	696	434	714	918
1070	696	374	715	918
602	696	-94	715	919
2520	696	1824	716	919
570	696	-126	716	920
647	696	-49	716	921
807	789	18	717	921
777	789	-12	717	922
693	789	-96	717	923
693	789	-96	717	924
617	789	-172	717	925
707	789	-82	717	926
770	789	-19	717	927
725	789	-64	717	928
356	789	-433	717	929
484	789	-305	717	930
599	789	-190	717	931
818.39	789	29.39	718	931
718	789	-71	718	932
751	789	-38	718	933
550	789	-239	718	934
204	789	-585	718	935
1110	789	321	719	935
812	789	23	720	935
564	789	-225	720	936
167	789	-622	720	937
1470	789	681	721	937
1130	789	341	722	937
1070	789	281	723	937
602	789	-187	723	938
2520	789	1731	724	938
570	789	-219	724	939

647	789	-142	724	940
777	807	-30	724	941
693	807	-114	724	942
693	807	-114	724	943
617	807	-190	724	944
707	807	-100	724	945
770	807	-37	724	946
725	807	-82	724	947
356	807	-451	724	948
484	807	-323	724	949
599	807	-208	724	950
818.39	807	11.39	725	950
718	807	-89	725	951
751	807	-56	725	952
550	807	-257	725	953
204	807	-603	725	954
1110	807	303	726	954
812	807	5	727	954
564	807	-243	727	955
167	807	-640	727	956
1470	807	663	728	956
1130	807	323	729	956
1070	807	263	730	956
602	807	-205	730	957
2520	807	1713	731	957
570	807	-237	731	958
647	807	-160	731	959
693	777	-84	731	960
693	777	-84	731	961
617	777	-160	731	962
707	777	-70	731	963
770	777	-7	731	964
725	777	-52	731	965
356	777	-421	731	966
484	777	-293	731	967
599	777	-178	731	968
818.39	777	41.39	732	968
718	777	-59	732	969
751	777	-26	732	970
550	777	-227	732	971
204	777	-573	732	972
1110	777	333	733	972
812	777	35	734	972
564	777	-213	734	973
167	777	-610	734	974
1470	777	693	735	974
1130	777	353	736	974
1070	777	293	737	974
602	777	-175	737	975
2520	777	1743	738	975
570	777	-207	738	976
647	777	-130	738	977
693	693	0	738	977
617	693	-76	738	978

707	693	14	739	978
770	693	77	740	978
725	693	32	741	978
356	693	-337	741	979
484	693	-209	741	980
599	693	-94	741	981
818.39	693	125.39	742	981
718	693	25	743	981
751	693	58	744	981
550	693	-143	744	982
204	693	-489	744	983
1110	693	417	745	983
812	693	119	746	983
564	693	-129	746	984
167	693	-526	746	985
1470	693	777	747	985
1130	693	437	748	985
1070	693	377	749	985
602	693	-91	749	986
2520	693	1827	750	986
570	693	-123	750	987
647	693	-46	750	988

617	693	-76	750	989
707	693	14	751	989
770	693	77	752	989
725	693	32	753	989
356	693	-337	753	990
484	693	-209	753	991
599	693	-94	753	992
818.39	693	125.39	754	992
718	693	25	755	992
751	693	58	756	992
550	693	-143	756	993
204	693	-489	756	994
1110	693	417	757	994
812	693	119	758	994
564	693	-129	758	995
167	693	-526	758	996
1470	693	777	759	996
1130	693	437	760	996
1070	693	377	761	996
602	693	-91	761	997
2520	693	1827	762	997
570	693	-123	762	998
647	693	-46	762	999

707	617	90	763	999
770	617	153	764	999
725	617	108	765	999
356	617	-261	765	1000
484	617	-133	765	1001
599	617	-18	765	1002
818.39	617	201.39	766	1002
718	617	101	767	1002
751	617	134	768	1002
550	617	-67	768	1003

204	617	-413	768	1004
1110	617	493	769	1004
812	617	195	770	1004
564	617	-53	770	1005
167	617	-450	770	1006
1470	617	853	771	1006
1130	617	513	772	1006
1070	617	453	773	1006
602	617	-15	773	1007
2520	617	1903	774	1007
570	617	-47	774	1008
647	617	30	775	1008
770	707	63	776	1008
725	707	18	777	1008
356	707	-351	777	1009
484	707	-223	777	1010
599	707	-108	777	1011
818.39	707	111.39	778	1011
718	707	11	779	1011
751	707	44	780	1011
550	707	-157	780	1012
204	707	-503	780	1013
1110	707	403	781	1013
812	707	105	782	1013
564	707	-143	782	1014
167	707	-540	782	1015
1470	707	763	783	1015
1130	707	423	784	1015
1070	707	363	785	1015
602	707	-105	785	1016
2520	707	1813	786	1016
570	707	-137	786	1017
647	707	-60	786	1018
725	770	-45	786	1019
356	770	-414	786	1020
484	770	-286	786	1021
599	770	-171	786	1022
818.39	770	48.39	787	1022
718	770	-52	787	1023
751	770	-19	787	1024
550	770	-220	787	1025
204	770	-566	787	1026
1110	770	340	788	1026
812	770	42	789	1026
564	770	-206	789	1027
167	770	-603	789	1028
1470	770	700	790	1028
1130	770	360	791	1028
1070	770	300	792	1028
602	770	-168	792	1029
2520	770	1750	793	1029
570	770	-200	793	1030
647	770	-123	793	1031
356	725	-369	793	1032

484	725	-241	793	1033
599	725	-126	793	1034
818.39	725	93.39	794	1034
718	725	-7	794	1035
751	725	26	795	1035
550	725	-175	795	1036
204	725	-521	795	1037
1110	725	385	796	1037
812	725	87	797	1037
564	725	-161	797	1038
167	725	-558	797	1039
1470	725	745	798	1039
1130	725	405	799	1039
1070	725	345	800	1039
602	725	-123	800	1040
2520	725	1795	801	1040
570	725	-155	801	1041
647	725	-78	801	1042

484	356	128	802	1042
599	356	243	803	1042
818.39	356	462.39	804	1042
718	356	362	805	1042
751	356	395	806	1042
550	356	194	807	1042
204	356	-152	807	1043
1110	356	754	808	1043
812	356	456	809	1043
564	356	208	810	1043
167	356	-189	810	1044
1470	356	1114	811	1044
1130	356	774	812	1044
1070	356	714	813	1044
602	356	246	814	1044
2520	356	2164	815	1044
570	356	214	816	1044
647	356	291	817	1044

599	484	115	818	1044
818.39	484	334.39	819	1044
718	484	234	820	1044
751	484	267	821	1044
550	484	66	822	1044
204	484	-280	822	1045
1110	484	626	823	1045
812	484	328	824	1045
564	484	80	825	1045
167	484	-317	825	1046
1470	484	986	826	1046
1130	484	646	827	1046
1070	484	586	828	1046
602	484	118	829	1046
2520	484	2036	830	1046
570	484	86	831	1046
647	484	163	832	1046

818.39	599	219.39	833	1046

718	599	119	834	1046
751	599	152	835	1046
550	599	-49	835	1047
204	599	-395	835	1048
1110	599	511	836	1048
812	599	213	837	1048
564	599	-35	837	1049
167	599	-432	837	1050
1470	599	871	838	1050
1130	599	531	839	1050
1070	599	471	840	1050
602	599	3	841	1050
2520	599	1921	842	1050
570	599	-29	842	1051
647	599	48	843	1051

718	818.39	-100.39	843	1052
751	818.39	-67.39	843	1053
550	818.39	-268.39	843	1054
204	818.39	-614.39	843	1055
1110	818.39	291.61	844	1055
812	818.39	-6.39	844	1056
564	818.39	-254.39	844	1057
167	818.39	-651.39	844	1058
1470	818.39	651.61	845	1058
1130	818.39	311.61	846	1058
1070	818.39	251.61	847	1058
602	818.39	-216.39	847	1059
2520	818.39	1701.61	848	1059
570	818.39	-248.39	848	1060
647	818.39	-171.39	848	1061

751	718	33	849	1061
550	718	-168	849	1062
204	718	-514	849	1063
1110	718	392	850	1063
812	718	94	851	1063
564	718	-154	851	1064
167	718	-551	851	1065
1470	718	752	852	1065
1130	718	412	853	1065
1070	718	352	854	1065
602	718	-116	854	1066
2520	718	1802	855	1066
570	718	-148	855	1067
647	718	-71	855	1068

550	751	-201	855	1069
204	751	-547	855	1070
1110	751	359	856	1070
812	751	61	857	1070
564	751	-187	857	1071
167	751	-584	857	1072
1470	751	719	858	1072
1130	751	379	859	1072
1070	751	319	860	1072
602	751	-149	860	1073

2520	751	1769	861	1073
570	751	-181	861	1074
647	751	-104	861	1075
204	550	-346	861	1076
1110	550	560	862	1076
812	550	262	863	1076
564	550	14	864	1076
167	550	-383	864	1077
1470	550	920	865	1077
1130	550	580	866	1077
1070	550	520	867	1077
602	550	52	868	1077
2520	550	1970	869	1077
570	550	20	870	1077
647	550	97	871	1077
1110	204	906	872	1077
812	204	608	873	1077
564	204	360	874	1077
167	204	-37	874	1078
1470	204	1266	875	1078
1130	204	926	876	1078
1070	204	866	877	1078
602	204	398	878	1078
2520	204	2316	879	1078
570	204	366	880	1078
647	204	443	881	1078
812	1110	-298	881	1079
564	1110	-546	881	1080
167	1110	-943	881	1081
1470	1110	360	882	1081
1130	1110	20	883	1081
1070	1110	-40	883	1082
602	1110	-508	883	1083
2520	1110	1410	884	1083
570	1110	-540	884	1084
647	1110	-463	884	1085
564	812	-248	884	1086
167	812	-645	884	1087
1470	812	658	885	1087
1130	812	318	886	1087
1070	812	258	887	1087
602	812	-210	887	1088
2520	812	1708	888	1088
570	812	-242	888	1089
647	812	-165	888	1090
167	564	-397	888	1091
1470	564	906	889	1091
1130	564	566	890	1091
1070	564	506	891	1091
602	564	38	892	1091
2520	564	1956	893	1091
570	564	6	894	1091

647	564	83	895	1091
1470	167	1303	896	1091
1130	167	963	897	1091
1070	167	903	898	1091
602	167	435	899	1091
2520	167	2353	900	1091
570	167	403	901	1091
647	167	480	902	1091
1130	1470	-340	902	1092
1070	1470	-400	902	1093
602	1470	-868	902	1094
2520	1470	1050	903	1094
570	1470	-900	903	1095
647	1470	-823	903	1096
1070	1130	-60	903	1097
602	1130	-528	903	1098
2520	1130	1390	904	1098
570	1130	-560	904	1099
647	1130	-483	904	1100
602	1070	-468	904	1101
2520	1070	1450	905	1101
570	1070	-500	905	1102
647	1070	-423	905	1103
2520	602	1918	906	1103
570	602	-32	906	1104
647	602	45	907	1104
570	2520	-1950	907	1105
647	2520	-1873	907	1106
647	570	77	908	1106

S Statistic = 908 - 1106 = -198

Tied Group	**Value**	**Members**
1	845	2
2	693	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/2/2010	1
3/4/2010	1
4/30/2010	1
5/6/2010	1
6/7/2010	1
7/26/2010	1
8/16/2010	1
9/17/2010	1
10/13/2010	1
11/16/2010	1

12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1
10/29/2018	1
1/30/2019	1
4/29/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0

```
D = 0
E = 4
F = 0
a = 536256
b = 2.24986e+006
c = 8064
Group Variance = 29790
Z-Score = -1.14138
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.14138| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Sulfate

Location: MW-7

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
673	950	-277	0	1
683	950	-267	0	2
832	950	-118	0	3
678	950	-272	0	4
940	950	-10	0	5
562	950	-388	0	6
787	950	-163	0	7
732	950	-218	0	8
529	950	-421	0	9
790	950	-160	0	10
899	950	-51	0	11
721	950	-229	0	12
833	950	-117	0	13
718	950	-232	0	14
618	950	-332	0	15
769	950	-181	0	16
746	950	-204	0	17
894	950	-56	0	18
674	950	-276	0	19
988	950	38	1	19
573	950	-377	1	20
1440	950	490	2	20
851	950	-99	2	21
1900	950	950	3	21
541	950	-409	3	22
683	673	10	4	22
832	673	159	5	22
678	673	5	6	22
940	673	267	7	22
562	673	-111	7	23
787	673	114	8	23
732	673	59	9	23
529	673	-144	9	24
790	673	117	10	24
899	673	226	11	24
721	673	48	12	24
833	673	160	13	24
718	673	45	14	24
618	673	-55	14	25
769	673	96	15	25
746	673	73	16	25
894	673	221	17	25
674	673	1	18	25
988	673	315	19	25
573	673	-100	19	26
1440	673	767	20	26

851	673	178	21	26
1900	673	1227	22	26
541	673	-132	22	27

832	683	149	23	27
678	683	-5	23	28
940	683	257	24	28
562	683	-121	24	29
787	683	104	25	29
732	683	49	26	29
529	683	-154	26	30
790	683	107	27	30
899	683	216	28	30
721	683	38	29	30
833	683	150	30	30
718	683	35	31	30
618	683	-65	31	31
769	683	86	32	31
746	683	63	33	31
894	683	211	34	31
674	683	-9	34	32
988	683	305	35	32
573	683	-110	35	33
1440	683	757	36	33
851	683	168	37	33
1900	683	1217	38	33
541	683	-142	38	34

678	832	-154	38	35
940	832	108	39	35
562	832	-270	39	36
787	832	-45	39	37
732	832	-100	39	38
529	832	-303	39	39
790	832	-42	39	40
899	832	67	40	40
721	832	-111	40	41
833	832	1	41	41
718	832	-114	41	42
618	832	-214	41	43
769	832	-63	41	44
746	832	-86	41	45
894	832	62	42	45
674	832	-158	42	46
988	832	156	43	46
573	832	-259	43	47
1440	832	608	44	47
851	832	19	45	47
1900	832	1068	46	47
541	832	-291	46	48

940	678	262	47	48
562	678	-116	47	49
787	678	109	48	49
732	678	54	49	49
529	678	-149	49	50
790	678	112	50	50

899	678	221	51	50
721	678	43	52	50
833	678	155	53	50
718	678	40	54	50
618	678	-60	54	51
769	678	91	55	51
746	678	68	56	51
894	678	216	57	51
674	678	-4	57	52
988	678	310	58	52
573	678	-105	58	53
1440	678	762	59	53
851	678	173	60	53
1900	678	1222	61	53
541	678	-137	61	54
562	940	-378	61	55
787	940	-153	61	56
732	940	-208	61	57
529	940	-411	61	58
790	940	-150	61	59
899	940	-41	61	60
721	940	-219	61	61
833	940	-107	61	62
718	940	-222	61	63
618	940	-322	61	64
769	940	-171	61	65
746	940	-194	61	66
894	940	-46	61	67
674	940	-266	61	68
988	940	48	62	68
573	940	-367	62	69
1440	940	500	63	69
851	940	-89	63	70
1900	940	960	64	70
541	940	-399	64	71
787	562	225	65	71
732	562	170	66	71
529	562	-33	66	72
790	562	228	67	72
899	562	337	68	72
721	562	159	69	72
833	562	271	70	72
718	562	156	71	72
618	562	56	72	72
769	562	207	73	72
746	562	184	74	72
894	562	332	75	72
674	562	112	76	72
988	562	426	77	72
573	562	11	78	72
1440	562	878	79	72
851	562	289	80	72
1900	562	1338	81	72
541	562	-21	81	73

732	787	-55	81	74
529	787	-258	81	75
790	787	3	82	75
899	787	112	83	75
721	787	-66	83	76
833	787	46	84	76
718	787	-69	84	77
618	787	-169	84	78
769	787	-18	84	79
746	787	-41	84	80
894	787	107	85	80
674	787	-113	85	81
988	787	201	86	81
573	787	-214	86	82
1440	787	653	87	82
851	787	64	88	82
1900	787	1113	89	82
541	787	-246	89	83
529	732	-203	89	84
790	732	58	90	84
899	732	167	91	84
721	732	-11	91	85
833	732	101	92	85
718	732	-14	92	86
618	732	-114	92	87
769	732	37	93	87
746	732	14	94	87
894	732	162	95	87
674	732	-58	95	88
988	732	256	96	88
573	732	-159	96	89
1440	732	708	97	89
851	732	119	98	89
1900	732	1168	99	89
541	732	-191	99	90
790	529	261	100	90
899	529	370	101	90
721	529	192	102	90
833	529	304	103	90
718	529	189	104	90
618	529	89	105	90
769	529	240	106	90
746	529	217	107	90
894	529	365	108	90
674	529	145	109	90
988	529	459	110	90
573	529	44	111	90
1440	529	911	112	90
851	529	322	113	90
1900	529	1371	114	90
541	529	12	115	90
899	790	109	116	90
721	790	-69	116	91
833	790	43	117	91

718	790	-72	117	92
618	790	-172	117	93
769	790	-21	117	94
746	790	-44	117	95
894	790	104	118	95
674	790	-116	118	96
988	790	198	119	96
573	790	-217	119	97
1440	790	650	120	97
851	790	61	121	97
1900	790	1110	122	97
541	790	-249	122	98
721	899	-178	122	99
833	899	-66	122	100
718	899	-181	122	101
618	899	-281	122	102
769	899	-130	122	103
746	899	-153	122	104
894	899	-5	122	105
674	899	-225	122	106
988	899	89	123	106
573	899	-326	123	107
1440	899	541	124	107
851	899	-48	124	108
1900	899	1001	125	108
541	899	-358	125	109
833	721	112	126	109
718	721	-3	126	110
618	721	-103	126	111
769	721	48	127	111
746	721	25	128	111
894	721	173	129	111
674	721	-47	129	112
988	721	267	130	112
573	721	-148	130	113
1440	721	719	131	113
851	721	130	132	113
1900	721	1179	133	113
541	721	-180	133	114
718	833	-115	133	115
618	833	-215	133	116
769	833	-64	133	117
746	833	-87	133	118
894	833	61	134	118
674	833	-159	134	119
988	833	155	135	119
573	833	-260	135	120
1440	833	607	136	120
851	833	18	137	120
1900	833	1067	138	120
541	833	-292	138	121
618	718	-100	138	122
769	718	51	139	122

746	718	28	140	122
894	718	176	141	122
674	718	-44	141	123
988	718	270	142	123
573	718	-145	142	124
1440	718	722	143	124
851	718	133	144	124
1900	718	1182	145	124
541	718	-177	145	125
769	618	151	146	125
746	618	128	147	125
894	618	276	148	125
674	618	56	149	125
988	618	370	150	125
573	618	-45	150	126
1440	618	822	151	126
851	618	233	152	126
1900	618	1282	153	126
541	618	-77	153	127
746	769	-23	153	128
894	769	125	154	128
674	769	-95	154	129
988	769	219	155	129
573	769	-196	155	130
1440	769	671	156	130
851	769	82	157	130
1900	769	1131	158	130
541	769	-228	158	131
894	746	148	159	131
674	746	-72	159	132
988	746	242	160	132
573	746	-173	160	133
1440	746	694	161	133
851	746	105	162	133
1900	746	1154	163	133
541	746	-205	163	134
674	894	-220	163	135
988	894	94	164	135
573	894	-321	164	136
1440	894	546	165	136
851	894	-43	165	137
1900	894	1006	166	137
541	894	-353	166	138
988	674	314	167	138
573	674	-101	167	139
1440	674	766	168	139
851	674	177	169	139
1900	674	1226	170	139
541	674	-133	170	140
573	988	-415	170	141
1440	988	452	171	141

851	988	-137	171	142
1900	988	912	172	142
541	988	-447	172	143
1440	573	867	173	143
851	573	278	174	143
1900	573	1327	175	143
541	573	-32	175	144
851	1440	-589	175	145
1900	1440	460	176	145
541	1440	-899	176	146
1900	851	1049	177	146
541	851	-310	177	147
541	1900	-1359	177	148

S Statistic = 177 - 148 = 29

Tied Group	**Value**	**Members**

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0

```
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 2058.33
Z-Score = 0.617163
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|0.617163| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids

Location: MW-1

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1600	2100	-500	0	1
1620	2100	-480	0	2
1900	2100	-200	0	3
1980	2100	-120	0	4
1930	2100	-170	0	5
1770	2100	-330	0	6
2090	2100	-10	0	7
2070	2100	-30	0	8
1920	2100	-180	0	9
1960	2100	-140	0	10
1810	2100	-290	0	11
1600	2100	-500	0	12
1300	2100	-800	0	13
1300	2100	-800	0	14
1800	2100	-300	0	15
1500	2100	-600	0	16
1090	2100	-1010	0	17
2140	2100	40	1	17
2280	2100	180	2	17
2530	2100	430	3	17
1830	2100	-270	3	18
1740	2100	-360	3	19
2320	2100	220	4	19
1660	2100	-440	4	20
1480	2100	-620	4	21
1440	2100	-660	4	22
1620	1600	20	5	22
1900	1600	300	6	22
1980	1600	380	7	22
1930	1600	330	8	22
1770	1600	170	9	22
2090	1600	490	10	22
2070	1600	470	11	22
1920	1600	320	12	22
1960	1600	360	13	22
1810	1600	210	14	22
1600	1600	0	14	22
1300	1600	-300	14	23
1300	1600	-300	14	24
1800	1600	200	15	24
1500	1600	-100	15	25
1090	1600	-510	15	26
2140	1600	540	16	26
2280	1600	680	17	26
2530	1600	930	18	26
1830	1600	230	19	26

1740	1600	140	20	26
2320	1600	720	21	26
1660	1600	60	22	26
1480	1600	-120	22	27
1440	1600	-160	22	28
1900	1620	280	23	28
1980	1620	360	24	28
1930	1620	310	25	28
1770	1620	150	26	28
2090	1620	470	27	28
2070	1620	450	28	28
1920	1620	300	29	28
1960	1620	340	30	28
1810	1620	190	31	28
1600	1620	-20	31	29
1300	1620	-320	31	30
1300	1620	-320	31	31
1800	1620	180	32	31
1500	1620	-120	32	32
1090	1620	-530	32	33
2140	1620	520	33	33
2280	1620	660	34	33
2530	1620	910	35	33
1830	1620	210	36	33
1740	1620	120	37	33
2320	1620	700	38	33
1660	1620	40	39	33
1480	1620	-140	39	34
1440	1620	-180	39	35
1980	1900	80	40	35
1930	1900	30	41	35
1770	1900	-130	41	36
2090	1900	190	42	36
2070	1900	170	43	36
1920	1900	20	44	36
1960	1900	60	45	36
1810	1900	-90	45	37
1600	1900	-300	45	38
1300	1900	-600	45	39
1300	1900	-600	45	40
1800	1900	-100	45	41
1500	1900	-400	45	42
1090	1900	-810	45	43
2140	1900	240	46	43
2280	1900	380	47	43
2530	1900	630	48	43
1830	1900	-70	48	44
1740	1900	-160	48	45
2320	1900	420	49	45
1660	1900	-240	49	46
1480	1900	-420	49	47
1440	1900	-460	49	48
1930	1980	-50	49	49
1770	1980	-210	49	50

2090	1980	110	50	50
2070	1980	90	51	50
1920	1980	-60	51	51
1960	1980	-20	51	52
1810	1980	-170	51	53
1600	1980	-380	51	54
1300	1980	-680	51	55
1300	1980	-680	51	56
1800	1980	-180	51	57
1500	1980	-480	51	58
1090	1980	-890	51	59
2140	1980	160	52	59
2280	1980	300	53	59
2530	1980	550	54	59
1830	1980	-150	54	60
1740	1980	-240	54	61
2320	1980	340	55	61
1660	1980	-320	55	62
1480	1980	-500	55	63
1440	1980	-540	55	64

1770	1930	-160	55	65
2090	1930	160	56	65
2070	1930	140	57	65
1920	1930	-10	57	66
1960	1930	30	58	66
1810	1930	-120	58	67
1600	1930	-330	58	68
1300	1930	-630	58	69
1300	1930	-630	58	70
1800	1930	-130	58	71
1500	1930	-430	58	72
1090	1930	-840	58	73
2140	1930	210	59	73
2280	1930	350	60	73
2530	1930	600	61	73
1830	1930	-100	61	74
1740	1930	-190	61	75
2320	1930	390	62	75
1660	1930	-270	62	76
1480	1930	-450	62	77
1440	1930	-490	62	78

2090	1770	320	63	78
2070	1770	300	64	78
1920	1770	150	65	78
1960	1770	190	66	78
1810	1770	40	67	78
1600	1770	-170	67	79
1300	1770	-470	67	80
1300	1770	-470	67	81
1800	1770	30	68	81
1500	1770	-270	68	82
1090	1770	-680	68	83
2140	1770	370	69	83
2280	1770	510	70	83
2530	1770	760	71	83

1830	1770	60	72	83
1740	1770	-30	72	84
2320	1770	550	73	84
1660	1770	-110	73	85
1480	1770	-290	73	86
1440	1770	-330	73	87
2070	2090	-20	73	88
1920	2090	-170	73	89
1960	2090	-130	73	90
1810	2090	-280	73	91
1600	2090	-490	73	92
1300	2090	-790	73	93
1300	2090	-790	73	94
1800	2090	-290	73	95
1500	2090	-590	73	96
1090	2090	-1000	73	97
2140	2090	50	74	97
2280	2090	190	75	97
2530	2090	440	76	97
1830	2090	-260	76	98
1740	2090	-350	76	99
2320	2090	230	77	99
1660	2090	-430	77	100
1480	2090	-610	77	101
1440	2090	-650	77	102
1920	2070	-150	77	103
1960	2070	-110	77	104
1810	2070	-260	77	105
1600	2070	-470	77	106
1300	2070	-770	77	107
1300	2070	-770	77	108
1800	2070	-270	77	109
1500	2070	-570	77	110
1090	2070	-980	77	111
2140	2070	70	78	111
2280	2070	210	79	111
2530	2070	460	80	111
1830	2070	-240	80	112
1740	2070	-330	80	113
2320	2070	250	81	113
1660	2070	-410	81	114
1480	2070	-590	81	115
1440	2070	-630	81	116
1960	1920	40	82	116
1810	1920	-110	82	117
1600	1920	-320	82	118
1300	1920	-620	82	119
1300	1920	-620	82	120
1800	1920	-120	82	121
1500	1920	-420	82	122
1090	1920	-830	82	123
2140	1920	220	83	123
2280	1920	360	84	123
2530	1920	610	85	123

1830	1920	-90	85	124
1740	1920	-180	85	125
2320	1920	400	86	125
1660	1920	-260	86	126
1480	1920	-440	86	127
1440	1920	-480	86	128
1810	1960	-150	86	129
1600	1960	-360	86	130
1300	1960	-660	86	131
1300	1960	-660	86	132
1800	1960	-160	86	133
1500	1960	-460	86	134
1090	1960	-870	86	135
2140	1960	180	87	135
2280	1960	320	88	135
2530	1960	570	89	135
1830	1960	-130	89	136
1740	1960	-220	89	137
2320	1960	360	90	137
1660	1960	-300	90	138
1480	1960	-480	90	139
1440	1960	-520	90	140
1600	1810	-210	90	141
1300	1810	-510	90	142
1300	1810	-510	90	143
1800	1810	-10	90	144
1500	1810	-310	90	145
1090	1810	-720	90	146
2140	1810	330	91	146
2280	1810	470	92	146
2530	1810	720	93	146
1830	1810	20	94	146
1740	1810	-70	94	147
2320	1810	510	95	147
1660	1810	-150	95	148
1480	1810	-330	95	149
1440	1810	-370	95	150
1300	1600	-300	95	151
1300	1600	-300	95	152
1800	1600	200	96	152
1500	1600	-100	96	153
1090	1600	-510	96	154
2140	1600	540	97	154
2280	1600	680	98	154
2530	1600	930	99	154
1830	1600	230	100	154
1740	1600	140	101	154
2320	1600	720	102	154
1660	1600	60	103	154
1480	1600	-120	103	155
1440	1600	-160	103	156
1300	1300	0	103	156
1800	1300	500	104	156

1500	1300	200	105	156
1090	1300	-210	105	157
2140	1300	840	106	157
2280	1300	980	107	157
2530	1300	1230	108	157
1830	1300	530	109	157
1740	1300	440	110	157
2320	1300	1020	111	157
1660	1300	360	112	157
1480	1300	180	113	157
1440	1300	140	114	157
1800	1300	500	115	157
1500	1300	200	116	157
1090	1300	-210	116	158
2140	1300	840	117	158
2280	1300	980	118	158
2530	1300	1230	119	158
1830	1300	530	120	158
1740	1300	440	121	158
2320	1300	1020	122	158
1660	1300	360	123	158
1480	1300	180	124	158
1440	1300	140	125	158
1500	1800	-300	125	159
1090	1800	-710	125	160
2140	1800	340	126	160
2280	1800	480	127	160
2530	1800	730	128	160
1830	1800	30	129	160
1740	1800	-60	129	161
2320	1800	520	130	161
1660	1800	-140	130	162
1480	1800	-320	130	163
1440	1800	-360	130	164
1090	1500	-410	130	165
2140	1500	640	131	165
2280	1500	780	132	165
2530	1500	1030	133	165
1830	1500	330	134	165
1740	1500	240	135	165
2320	1500	820	136	165
1660	1500	160	137	165
1480	1500	-20	137	166
1440	1500	-60	137	167
2140	1090	1050	138	167
2280	1090	1190	139	167
2530	1090	1440	140	167
1830	1090	740	141	167
1740	1090	650	142	167
2320	1090	1230	143	167
1660	1090	570	144	167
1480	1090	390	145	167
1440	1090	350	146	167

2280	2140	140	147	167
2530	2140	390	148	167
1830	2140	-310	148	168
1740	2140	-400	148	169
2320	2140	180	149	169
1660	2140	-480	149	170
1480	2140	-660	149	171
1440	2140	-700	149	172
2530	2280	250	150	172
1830	2280	-450	150	173
1740	2280	-540	150	174
2320	2280	40	151	174
1660	2280	-620	151	175
1480	2280	-800	151	176
1440	2280	-840	151	177
1830	2530	-700	151	178
1740	2530	-790	151	179
2320	2530	-210	151	180
1660	2530	-870	151	181
1480	2530	-1050	151	182
1440	2530	-1090	151	183
1740	1830	-90	151	184
2320	1830	490	152	184
1660	1830	-170	152	185
1480	1830	-350	152	186
1440	1830	-390	152	187
2320	1740	580	153	187
1660	1740	-80	153	188
1480	1740	-260	153	189
1440	1740	-300	153	190
1660	2320	-660	153	191
1480	2320	-840	153	192
1440	2320	-880	153	193
1480	1660	-180	153	194
1440	1660	-220	153	195
1440	1480	-40	153	196

S Statistic = 153 - 196 = -43

Tied Group	**Value**	**Members**
1	1600	2
2	1300	2

Time Period	**Observations**
11/24/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1

10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2299
Z-Score = -0.875951
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-0.875951| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids

Location: MW-2

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1610	2310	-700	0	1
1550	2310	-760	0	2
1790	2310	-520	0	3
2050	2310	-260	0	4
1930	2310	-380	0	5
1780	2310	-530	0	6
1940	2310	-370	0	7
1760	2310	-550	0	8
1940	2310	-370	0	9
1960	2310	-350	0	10
1960	2310	-350	0	11
1500	2310	-810	0	12
1300	2310	-1010	0	13
1200	2310	-1110	0	14
1800	2310	-510	0	15
1400	2310	-910	0	16
1170	2310	-1140	0	17
1900	2310	-410	0	18
2250	2310	-60	0	19
2330	2310	20	1	19
1890	2310	-420	1	20
1780	2310	-530	1	21
2560	2310	250	2	21
1720	2310	-590	2	22
1500	2310	-810	2	23
1450	2310	-860	2	24
1550	1610	-60	2	25
1790	1610	180	3	25
2050	1610	440	4	25
1930	1610	320	5	25
1780	1610	170	6	25
1940	1610	330	7	25
1760	1610	150	8	25
1940	1610	330	9	25
1960	1610	350	10	25
1960	1610	350	11	25
1500	1610	-110	11	26
1300	1610	-310	11	27
1200	1610	-410	11	28
1800	1610	190	12	28
1400	1610	-210	12	29
1170	1610	-440	12	30
1900	1610	290	13	30
2250	1610	640	14	30
2330	1610	720	15	30
1890	1610	280	16	30

1780	1610	170	17	30
2560	1610	950	18	30
1720	1610	110	19	30
1500	1610	-110	19	31
1450	1610	-160	19	32
1790	1550	240	20	32
2050	1550	500	21	32
1930	1550	380	22	32
1780	1550	230	23	32
1940	1550	390	24	32
1760	1550	210	25	32
1940	1550	390	26	32
1960	1550	410	27	32
1960	1550	410	28	32
1500	1550	-50	28	33
1300	1550	-250	28	34
1200	1550	-350	28	35
1800	1550	250	29	35
1400	1550	-150	29	36
1170	1550	-380	29	37
1900	1550	350	30	37
2250	1550	700	31	37
2330	1550	780	32	37
1890	1550	340	33	37
1780	1550	230	34	37
2560	1550	1010	35	37
1720	1550	170	36	37
1500	1550	-50	36	38
1450	1550	-100	36	39
2050	1790	260	37	39
1930	1790	140	38	39
1780	1790	-10	38	40
1940	1790	150	39	40
1760	1790	-30	39	41
1940	1790	150	40	41
1960	1790	170	41	41
1960	1790	170	42	41
1500	1790	-290	42	42
1300	1790	-490	42	43
1200	1790	-590	42	44
1800	1790	10	43	44
1400	1790	-390	43	45
1170	1790	-620	43	46
1900	1790	110	44	46
2250	1790	460	45	46
2330	1790	540	46	46
1890	1790	100	47	46
1780	1790	-10	47	47
2560	1790	770	48	47
1720	1790	-70	48	48
1500	1790	-290	48	49
1450	1790	-340	48	50
1930	2050	-120	48	51
1780	2050	-270	48	52

1940	2050	-110	48	53
1760	2050	-290	48	54
1940	2050	-110	48	55
1960	2050	-90	48	56
1960	2050	-90	48	57
1500	2050	-550	48	58
1300	2050	-750	48	59
1200	2050	-850	48	60
1800	2050	-250	48	61
1400	2050	-650	48	62
1170	2050	-880	48	63
1900	2050	-150	48	64
2250	2050	200	49	64
2330	2050	280	50	64
1890	2050	-160	50	65
1780	2050	-270	50	66
2560	2050	510	51	66
1720	2050	-330	51	67
1500	2050	-550	51	68
1450	2050	-600	51	69
1780	1930	-150	51	70
1940	1930	10	52	70
1760	1930	-170	52	71
1940	1930	10	53	71
1960	1930	30	54	71
1960	1930	30	55	71
1500	1930	-430	55	72
1300	1930	-630	55	73
1200	1930	-730	55	74
1800	1930	-130	55	75
1400	1930	-530	55	76
1170	1930	-760	55	77
1900	1930	-30	55	78
2250	1930	320	56	78
2330	1930	400	57	78
1890	1930	-40	57	79
1780	1930	-150	57	80
2560	1930	630	58	80
1720	1930	-210	58	81
1500	1930	-430	58	82
1450	1930	-480	58	83
1940	1780	160	59	83
1760	1780	-20	59	84
1940	1780	160	60	84
1960	1780	180	61	84
1960	1780	180	62	84
1500	1780	-280	62	85
1300	1780	-480	62	86
1200	1780	-580	62	87
1800	1780	20	63	87
1400	1780	-380	63	88
1170	1780	-610	63	89
1900	1780	120	64	89
2250	1780	470	65	89
2330	1780	550	66	89

1890	1780	110	67	89
1780	1780	0	67	89
2560	1780	780	68	89
1720	1780	-60	68	90
1500	1780	-280	68	91
1450	1780	-330	68	92

1760	1940	-180	68	93
1940	1940	0	68	93
1960	1940	20	69	93
1960	1940	20	70	93
1500	1940	-440	70	94
1300	1940	-640	70	95
1200	1940	-740	70	96
1800	1940	-140	70	97
1400	1940	-540	70	98
1170	1940	-770	70	99
1900	1940	-40	70	100
2250	1940	310	71	100
2330	1940	390	72	100
1890	1940	-50	72	101
1780	1940	-160	72	102
2560	1940	620	73	102
1720	1940	-220	73	103
1500	1940	-440	73	104
1450	1940	-490	73	105

1940	1760	180	74	105
1960	1760	200	75	105
1960	1760	200	76	105
1500	1760	-260	76	106
1300	1760	-460	76	107
1200	1760	-560	76	108
1800	1760	40	77	108
1400	1760	-360	77	109
1170	1760	-590	77	110
1900	1760	140	78	110
2250	1760	490	79	110
2330	1760	570	80	110
1890	1760	130	81	110
1780	1760	20	82	110
2560	1760	800	83	110
1720	1760	-40	83	111
1500	1760	-260	83	112
1450	1760	-310	83	113

1960	1940	20	84	113
1960	1940	20	85	113
1500	1940	-440	85	114
1300	1940	-640	85	115
1200	1940	-740	85	116
1800	1940	-140	85	117
1400	1940	-540	85	118
1170	1940	-770	85	119
1900	1940	-40	85	120
2250	1940	310	86	120
2330	1940	390	87	120

1890	1940	-50	87	121
1780	1940	-160	87	122
2560	1940	620	88	122
1720	1940	-220	88	123
1500	1940	-440	88	124
1450	1940	-490	88	125
1960	1960	0	88	125
1500	1960	-460	88	126
1300	1960	-660	88	127
1200	1960	-760	88	128
1800	1960	-160	88	129
1400	1960	-560	88	130
1170	1960	-790	88	131
1900	1960	-60	88	132
2250	1960	290	89	132
2330	1960	370	90	132
1890	1960	-70	90	133
1780	1960	-180	90	134
2560	1960	600	91	134
1720	1960	-240	91	135
1500	1960	-460	91	136
1450	1960	-510	91	137
1500	1960	-460	91	138
1300	1960	-660	91	139
1200	1960	-760	91	140
1800	1960	-160	91	141
1400	1960	-560	91	142
1170	1960	-790	91	143
1900	1960	-60	91	144
2250	1960	290	92	144
2330	1960	370	93	144
1890	1960	-70	93	145
1780	1960	-180	93	146
2560	1960	600	94	146
1720	1960	-240	94	147
1500	1960	-460	94	148
1450	1960	-510	94	149
1300	1500	-200	94	150
1200	1500	-300	94	151
1800	1500	300	95	151
1400	1500	-100	95	152
1170	1500	-330	95	153
1900	1500	400	96	153
2250	1500	750	97	153
2330	1500	830	98	153
1890	1500	390	99	153
1780	1500	280	100	153
2560	1500	1060	101	153
1720	1500	220	102	153
1500	1500	0	102	153
1450	1500	-50	102	154
1200	1300	-100	102	155
1800	1300	500	103	155

1400	1300	100	104	155
1170	1300	-130	104	156
1900	1300	600	105	156
2250	1300	950	106	156
2330	1300	1030	107	156
1890	1300	590	108	156
1780	1300	480	109	156
2560	1300	1260	110	156
1720	1300	420	111	156
1500	1300	200	112	156
1450	1300	150	113	156
1800	1200	600	114	156
1400	1200	200	115	156
1170	1200	-30	115	157
1900	1200	700	116	157
2250	1200	1050	117	157
2330	1200	1130	118	157
1890	1200	690	119	157
1780	1200	580	120	157
2560	1200	1360	121	157
1720	1200	520	122	157
1500	1200	300	123	157
1450	1200	250	124	157
1400	1800	-400	124	158
1170	1800	-630	124	159
1900	1800	100	125	159
2250	1800	450	126	159
2330	1800	530	127	159
1890	1800	90	128	159
1780	1800	-20	128	160
2560	1800	760	129	160
1720	1800	-80	129	161
1500	1800	-300	129	162
1450	1800	-350	129	163
1170	1400	-230	129	164
1900	1400	500	130	164
2250	1400	850	131	164
2330	1400	930	132	164
1890	1400	490	133	164
1780	1400	380	134	164
2560	1400	1160	135	164
1720	1400	320	136	164
1500	1400	100	137	164
1450	1400	50	138	164
1900	1170	730	139	164
2250	1170	1080	140	164
2330	1170	1160	141	164
1890	1170	720	142	164
1780	1170	610	143	164
2560	1170	1390	144	164
1720	1170	550	145	164
1500	1170	330	146	164
1450	1170	280	147	164

2250	1900	350	148	164
2330	1900	430	149	164
1890	1900	-10	149	165
1780	1900	-120	149	166
2560	1900	660	150	166
1720	1900	-180	150	167
1500	1900	-400	150	168
1450	1900	-450	150	169
2330	2250	80	151	169
1890	2250	-360	151	170
1780	2250	-470	151	171
2560	2250	310	152	171
1720	2250	-530	152	172
1500	2250	-750	152	173
1450	2250	-800	152	174
1890	2330	-440	152	175
1780	2330	-550	152	176
2560	2330	230	153	176
1720	2330	-610	153	177
1500	2330	-830	153	178
1450	2330	-880	153	179
1780	1890	-110	153	180
2560	1890	670	154	180
1720	1890	-170	154	181
1500	1890	-390	154	182
1450	1890	-440	154	183
2560	1780	780	155	183
1720	1780	-60	155	184
1500	1780	-280	155	185
1450	1780	-330	155	186
1720	2560	-840	155	187
1500	2560	-1060	155	188
1450	2560	-1110	155	189
1500	1720	-220	155	190
1450	1720	-270	155	191
1450	1500	-50	155	192

S Statistic = 155 - 192 = -37

Tied Group	**Value**	**Members**
1	1780	2
2	1940	2
3	1960	2
4	1500	2

Time Period	**Observations**
11/25/2009	1
3/4/2010	1

4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 72
B = 0
C = 0
D = 0
E = 8
F = 0
a = 41418
b = 157950
c = 1404
Group Variance = 2297
Z-Score = -0.751142
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-0.751142| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids
Location: MW-3

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1810	1970	-160	0	1
1670	1970	-300	0	2
3850	1970	1880	1	2
1740	1970	-230	1	3
1870	1970	-100	1	4
1880	1970	-90	1	5
1880	1970	-90	1	6
1870	1970	-100	1	7
1940	1970	-30	1	8
1910	1970	-60	1	9
1790	1970	-180	1	10
1810	1970	-160	1	11
1820	1970	-150	1	12
1910	1970	-60	1	13
2020	1970	50	2	13
1840	1970	-130	2	14
1760	1970	-210	2	15
1780	1970	-190	2	16
1820	1970	-150	2	17
1990	1970	20	3	17
1780	1970	-190	3	18
1950	1970	-20	3	19
1980	1970	10	4	19
992	1970	-978	4	20
1750	1970	-220	4	21
1870	1970	-100	4	22
1800	1970	-170	4	23
1600	1970	-370	4	24
1700	1970	-270	4	25
1800	1970	-170	4	26
1300	1970	-670	4	27
1400	1970	-570	4	28
1400	1970	-570	4	29
1800	1970	-170	4	30
1400	1970	-570	4	31
11.8	1970	-1958.2	4	32
1800	1970	-170	4	33
2310	1970	340	5	33
2410	1970	440	6	33
1800	1970	-170	6	34
1800	1970	-170	6	35
2270	1970	300	7	35
1690	1970	-280	7	36
1570	1970	-400	7	37
1440	1970	-530	7	38
1670	1810	-140	7	39

3850	1810	2040	8	39
1740	1810	-70	8	40
1870	1810	60	9	40
1880	1810	70	10	40
1880	1810	70	11	40
1870	1810	60	12	40
1940	1810	130	13	40
1910	1810	100	14	40
1790	1810	-20	14	41
1810	1810	0	14	41
1820	1810	10	15	41
1910	1810	100	16	41
2020	1810	210	17	41
1840	1810	30	18	41
1760	1810	-50	18	42
1780	1810	-30	18	43
1820	1810	10	19	43
1990	1810	180	20	43
1780	1810	-30	20	44
1950	1810	140	21	44
1980	1810	170	22	44
992	1810	-818	22	45
1750	1810	-60	22	46
1870	1810	60	23	46
1800	1810	-10	23	47
1600	1810	-210	23	48
1700	1810	-110	23	49
1800	1810	-10	23	50
1300	1810	-510	23	51
1400	1810	-410	23	52
1400	1810	-410	23	53
1800	1810	-10	23	54
1400	1810	-410	23	55
11.8	1810	-1798.2	23	56
1800	1810	-10	23	57
2310	1810	500	24	57
2410	1810	600	25	57
1800	1810	-10	25	58
1800	1810	-10	25	59
2270	1810	460	26	59
1690	1810	-120	26	60
1570	1810	-240	26	61
1440	1810	-370	26	62

3850	1670	2180	27	62
1740	1670	70	28	62
1870	1670	200	29	62
1880	1670	210	30	62
1880	1670	210	31	62
1870	1670	200	32	62
1940	1670	270	33	62
1910	1670	240	34	62
1790	1670	120	35	62
1810	1670	140	36	62
1820	1670	150	37	62
1910	1670	240	38	62
2020	1670	350	39	62

1840	1670	170	40	62
1760	1670	90	41	62
1780	1670	110	42	62
1820	1670	150	43	62
1990	1670	320	44	62
1780	1670	110	45	62
1950	1670	280	46	62
1980	1670	310	47	62
992	1670	-678	47	63
1750	1670	80	48	63
1870	1670	200	49	63
1800	1670	130	50	63
1600	1670	-70	50	64
1700	1670	30	51	64
1800	1670	130	52	64
1300	1670	-370	52	65
1400	1670	-270	52	66
1400	1670	-270	52	67
1800	1670	130	53	67
1400	1670	-270	53	68
11.8	1670	-1658.2	53	69
1800	1670	130	54	69
2310	1670	640	55	69
2410	1670	740	56	69
1800	1670	130	57	69
1800	1670	130	58	69
2270	1670	600	59	69
1690	1670	20	60	69
1570	1670	-100	60	70
1440	1670	-230	60	71
1740	3850	-2110	60	72
1870	3850	-1980	60	73
1880	3850	-1970	60	74
1880	3850	-1970	60	75
1870	3850	-1980	60	76
1940	3850	-1910	60	77
1910	3850	-1940	60	78
1790	3850	-2060	60	79
1810	3850	-2040	60	80
1820	3850	-2030	60	81
1910	3850	-1940	60	82
2020	3850	-1830	60	83
1840	3850	-2010	60	84
1760	3850	-2090	60	85
1780	3850	-2070	60	86
1820	3850	-2030	60	87
1990	3850	-1860	60	88
1780	3850	-2070	60	89
1950	3850	-1900	60	90
1980	3850	-1870	60	91
992	3850	-2858	60	92
1750	3850	-2100	60	93
1870	3850	-1980	60	94
1800	3850	-2050	60	95
1600	3850	-2250	60	96
1700	3850	-2150	60	97

1800	3850	-2050	60	98
1300	3850	-2550	60	99
1400	3850	-2450	60	100
1400	3850	-2450	60	101
1800	3850	-2050	60	102
1400	3850	-2450	60	103
11.8	3850	-3838.2	60	104
1800	3850	-2050	60	105
2310	3850	-1540	60	106
2410	3850	-1440	60	107
1800	3850	-2050	60	108
1800	3850	-2050	60	109
2270	3850	-1580	60	110
1690	3850	-2160	60	111
1570	3850	-2280	60	112
1440	3850	-2410	60	113

1870	1740	130	61	113
1880	1740	140	62	113
1880	1740	140	63	113
1870	1740	130	64	113
1940	1740	200	65	113
1910	1740	170	66	113
1790	1740	50	67	113
1810	1740	70	68	113
1820	1740	80	69	113
1910	1740	170	70	113
2020	1740	280	71	113
1840	1740	100	72	113
1760	1740	20	73	113
1780	1740	40	74	113
1820	1740	80	75	113
1990	1740	250	76	113
1780	1740	40	77	113
1950	1740	210	78	113
1980	1740	240	79	113
992	1740	-748	79	114
1750	1740	10	80	114
1870	1740	130	81	114
1800	1740	60	82	114
1600	1740	-140	82	115
1700	1740	-40	82	116
1800	1740	60	83	116
1300	1740	-440	83	117
1400	1740	-340	83	118
1400	1740	-340	83	119
1800	1740	60	84	119
1400	1740	-340	84	120
11.8	1740	-1728.2	84	121
1800	1740	60	85	121
2310	1740	570	86	121
2410	1740	670	87	121
1800	1740	60	88	121
1800	1740	60	89	121
2270	1740	530	90	121
1690	1740	-50	90	122
1570	1740	-170	90	123

1440	1740	-300	90	124
1880	1870	10	91	124
1880	1870	10	92	124
1870	1870	0	92	124
1940	1870	70	93	124
1910	1870	40	94	124
1790	1870	-80	94	125
1810	1870	-60	94	126
1820	1870	-50	94	127
1910	1870	40	95	127
2020	1870	150	96	127
1840	1870	-30	96	128
1760	1870	-110	96	129
1780	1870	-90	96	130
1820	1870	-50	96	131
1990	1870	120	97	131
1780	1870	-90	97	132
1950	1870	80	98	132
1980	1870	110	99	132
992	1870	-878	99	133
1750	1870	-120	99	134
1870	1870	0	99	134
1800	1870	-70	99	135
1600	1870	-270	99	136
1700	1870	-170	99	137
1800	1870	-70	99	138
1300	1870	-570	99	139
1400	1870	-470	99	140
1400	1870	-470	99	141
1800	1870	-70	99	142
1400	1870	-470	99	143
11.8	1870	-1858.2	99	144
1800	1870	-70	99	145
2310	1870	440	100	145
2410	1870	540	101	145
1800	1870	-70	101	146
1800	1870	-70	101	147
2270	1870	400	102	147
1690	1870	-180	102	148
1570	1870	-300	102	149
1440	1870	-430	102	150
1880	1880	0	102	150
1870	1880	-10	102	151
1940	1880	60	103	151
1910	1880	30	104	151
1790	1880	-90	104	152
1810	1880	-70	104	153
1820	1880	-60	104	154
1910	1880	30	105	154
2020	1880	140	106	154
1840	1880	-40	106	155
1760	1880	-120	106	156
1780	1880	-100	106	157
1820	1880	-60	106	158
1990	1880	110	107	158

1780	1880	-100	107	159
1950	1880	70	108	159
1980	1880	100	109	159
992	1880	-888	109	160
1750	1880	-130	109	161
1870	1880	-10	109	162
1800	1880	-80	109	163
1600	1880	-280	109	164
1700	1880	-180	109	165
1800	1880	-80	109	166
1300	1880	-580	109	167
1400	1880	-480	109	168
1400	1880	-480	109	169
1800	1880	-80	109	170
1400	1880	-480	109	171
11.8	1880	-1868.2	109	172
1800	1880	-80	109	173
2310	1880	430	110	173
2410	1880	530	111	173
1800	1880	-80	111	174
1800	1880	-80	111	175
2270	1880	390	112	175
1690	1880	-190	112	176
1570	1880	-310	112	177
1440	1880	-440	112	178
1870	1880	-10	112	179
1940	1880	60	113	179
1910	1880	30	114	179
1790	1880	-90	114	180
1810	1880	-70	114	181
1820	1880	-60	114	182
1910	1880	30	115	182
2020	1880	140	116	182
1840	1880	-40	116	183
1760	1880	-120	116	184
1780	1880	-100	116	185
1820	1880	-60	116	186
1990	1880	110	117	186
1780	1880	-100	117	187
1950	1880	70	118	187
1980	1880	100	119	187
992	1880	-888	119	188
1750	1880	-130	119	189
1870	1880	-10	119	190
1800	1880	-80	119	191
1600	1880	-280	119	192
1700	1880	-180	119	193
1800	1880	-80	119	194
1300	1880	-580	119	195
1400	1880	-480	119	196
1400	1880	-480	119	197
1800	1880	-80	119	198
1400	1880	-480	119	199
11.8	1880	-1868.2	119	200
1800	1880	-80	119	201
2310	1880	430	120	201

2410	1880	530	121	201
1800	1880	-80	121	202
1800	1880	-80	121	203
2270	1880	390	122	203
1690	1880	-190	122	204
1570	1880	-310	122	205
1440	1880	-440	122	206

1940	1870	70	123	206
1910	1870	40	124	206
1790	1870	-80	124	207
1810	1870	-60	124	208
1820	1870	-50	124	209
1910	1870	40	125	209
2020	1870	150	126	209
1840	1870	-30	126	210
1760	1870	-110	126	211
1780	1870	-90	126	212
1820	1870	-50	126	213
1990	1870	120	127	213
1780	1870	-90	127	214
1950	1870	80	128	214
1980	1870	110	129	214
992	1870	-878	129	215
1750	1870	-120	129	216
1870	1870	0	129	216
1800	1870	-70	129	217
1600	1870	-270	129	218
1700	1870	-170	129	219
1800	1870	-70	129	220
1300	1870	-570	129	221
1400	1870	-470	129	222
1400	1870	-470	129	223
1800	1870	-70	129	224
1400	1870	-470	129	225
11.8	1870	-1858.2	129	226
1800	1870	-70	129	227
2310	1870	440	130	227
2410	1870	540	131	227
1800	1870	-70	131	228
1800	1870	-70	131	229
2270	1870	400	132	229
1690	1870	-180	132	230
1570	1870	-300	132	231
1440	1870	-430	132	232

1910	1940	-30	132	233
1790	1940	-150	132	234
1810	1940	-130	132	235
1820	1940	-120	132	236
1910	1940	-30	132	237
2020	1940	80	133	237
1840	1940	-100	133	238
1760	1940	-180	133	239
1780	1940	-160	133	240
1820	1940	-120	133	241
1990	1940	50	134	241

1780	1940	-160	134	242
1950	1940	10	135	242
1980	1940	40	136	242
992	1940	-948	136	243
1750	1940	-190	136	244
1870	1940	-70	136	245
1800	1940	-140	136	246
1600	1940	-340	136	247
1700	1940	-240	136	248
1800	1940	-140	136	249
1300	1940	-640	136	250
1400	1940	-540	136	251
1400	1940	-540	136	252
1800	1940	-140	136	253
1400	1940	-540	136	254
11.8	1940	-1928.2	136	255
1800	1940	-140	136	256
2310	1940	370	137	256
2410	1940	470	138	256
1800	1940	-140	138	257
1800	1940	-140	138	258
2270	1940	330	139	258
1690	1940	-250	139	259
1570	1940	-370	139	260
1440	1940	-500	139	261
1790	1910	-120	139	262
1810	1910	-100	139	263
1820	1910	-90	139	264
1910	1910	0	139	264
2020	1910	110	140	264
1840	1910	-70	140	265
1760	1910	-150	140	266
1780	1910	-130	140	267
1820	1910	-90	140	268
1990	1910	80	141	268
1780	1910	-130	141	269
1950	1910	40	142	269
1980	1910	70	143	269
992	1910	-918	143	270
1750	1910	-160	143	271
1870	1910	-40	143	272
1800	1910	-110	143	273
1600	1910	-310	143	274
1700	1910	-210	143	275
1800	1910	-110	143	276
1300	1910	-610	143	277
1400	1910	-510	143	278
1400	1910	-510	143	279
1800	1910	-110	143	280
1400	1910	-510	143	281
11.8	1910	-1898.2	143	282
1800	1910	-110	143	283
2310	1910	400	144	283
2410	1910	500	145	283
1800	1910	-110	145	284
1800	1910	-110	145	285

2270	1910	360	146	285
1690	1910	-220	146	286
1570	1910	-340	146	287
1440	1910	-470	146	288
1810	1790	20	147	288
1820	1790	30	148	288
1910	1790	120	149	288
2020	1790	230	150	288
1840	1790	50	151	288
1760	1790	-30	151	289
1780	1790	-10	151	290
1820	1790	30	152	290
1990	1790	200	153	290
1780	1790	-10	153	291
1950	1790	160	154	291
1980	1790	190	155	291
992	1790	-798	155	292
1750	1790	-40	155	293
1870	1790	80	156	293
1800	1790	10	157	293
1600	1790	-190	157	294
1700	1790	-90	157	295
1800	1790	10	158	295
1300	1790	-490	158	296
1400	1790	-390	158	297
1400	1790	-390	158	298
1800	1790	10	159	298
1400	1790	-390	159	299
11.8	1790	-1778.2	159	300
1800	1790	10	160	300
2310	1790	520	161	300
2410	1790	620	162	300
1800	1790	10	163	300
1800	1790	10	164	300
2270	1790	480	165	300
1690	1790	-100	165	301
1570	1790	-220	165	302
1440	1790	-350	165	303
1820	1810	10	166	303
1910	1810	100	167	303
2020	1810	210	168	303
1840	1810	30	169	303
1760	1810	-50	169	304
1780	1810	-30	169	305
1820	1810	10	170	305
1990	1810	180	171	305
1780	1810	-30	171	306
1950	1810	140	172	306
1980	1810	170	173	306
992	1810	-818	173	307
1750	1810	-60	173	308
1870	1810	60	174	308
1800	1810	-10	174	309
1600	1810	-210	174	310
1700	1810	-110	174	311

1800	1810	-10	174	312
1300	1810	-510	174	313
1400	1810	-410	174	314
1400	1810	-410	174	315
1800	1810	-10	174	316
1400	1810	-410	174	317
11.8	1810	-1798.2	174	318
1800	1810	-10	174	319
2310	1810	500	175	319
2410	1810	600	176	319
1800	1810	-10	176	320
1800	1810	-10	176	321
2270	1810	460	177	321
1690	1810	-120	177	322
1570	1810	-240	177	323
1440	1810	-370	177	324

1910	1820	90	178	324
2020	1820	200	179	324
1840	1820	20	180	324
1760	1820	-60	180	325
1780	1820	-40	180	326
1820	1820	0	180	326
1990	1820	170	181	326
1780	1820	-40	181	327
1950	1820	130	182	327
1980	1820	160	183	327
992	1820	-828	183	328
1750	1820	-70	183	329
1870	1820	50	184	329
1800	1820	-20	184	330
1600	1820	-220	184	331
1700	1820	-120	184	332
1800	1820	-20	184	333
1300	1820	-520	184	334
1400	1820	-420	184	335
1400	1820	-420	184	336
1800	1820	-20	184	337
1400	1820	-420	184	338
11.8	1820	-1808.2	184	339
1800	1820	-20	184	340
2310	1820	490	185	340
2410	1820	590	186	340
1800	1820	-20	186	341
1800	1820	-20	186	342
2270	1820	450	187	342
1690	1820	-130	187	343
1570	1820	-250	187	344
1440	1820	-380	187	345

2020	1910	110	188	345
1840	1910	-70	188	346
1760	1910	-150	188	347
1780	1910	-130	188	348
1820	1910	-90	188	349
1990	1910	80	189	349
1780	1910	-130	189	350

1950	1910	40	190	350
1980	1910	70	191	350
992	1910	-918	191	351
1750	1910	-160	191	352
1870	1910	-40	191	353
1800	1910	-110	191	354
1600	1910	-310	191	355
1700	1910	-210	191	356
1800	1910	-110	191	357
1300	1910	-610	191	358
1400	1910	-510	191	359
1400	1910	-510	191	360
1800	1910	-110	191	361
1400	1910	-510	191	362
11.8	1910	-1898.2	191	363
1800	1910	-110	191	364
2310	1910	400	192	364
2410	1910	500	193	364
1800	1910	-110	193	365
1800	1910	-110	193	366
2270	1910	360	194	366
1690	1910	-220	194	367
1570	1910	-340	194	368
1440	1910	-470	194	369

1840	2020	-180	194	370
1760	2020	-260	194	371
1780	2020	-240	194	372
1820	2020	-200	194	373
1990	2020	-30	194	374
1780	2020	-240	194	375
1950	2020	-70	194	376
1980	2020	-40	194	377
992	2020	-1028	194	378
1750	2020	-270	194	379
1870	2020	-150	194	380
1800	2020	-220	194	381
1600	2020	-420	194	382
1700	2020	-320	194	383
1800	2020	-220	194	384
1300	2020	-720	194	385
1400	2020	-620	194	386
1400	2020	-620	194	387
1800	2020	-220	194	388
1400	2020	-620	194	389
11.8	2020	-2008.2	194	390
1800	2020	-220	194	391
2310	2020	290	195	391
2410	2020	390	196	391
1800	2020	-220	196	392
1800	2020	-220	196	393
2270	2020	250	197	393
1690	2020	-330	197	394
1570	2020	-450	197	395
1440	2020	-580	197	396

1760	1840	-80	197	397

1780	1840	-60	197	398
1820	1840	-20	197	399
1990	1840	150	198	399
1780	1840	-60	198	400
1950	1840	110	199	400
1980	1840	140	200	400
992	1840	-848	200	401
1750	1840	-90	200	402
1870	1840	30	201	402
1800	1840	-40	201	403
1600	1840	-240	201	404
1700	1840	-140	201	405
1800	1840	-40	201	406
1300	1840	-540	201	407
1400	1840	-440	201	408
1400	1840	-440	201	409
1800	1840	-40	201	410
1400	1840	-440	201	411
11.8	1840	-1828.2	201	412
1800	1840	-40	201	413
2310	1840	470	202	413
2410	1840	570	203	413
1800	1840	-40	203	414
1800	1840	-40	203	415
2270	1840	430	204	415
1690	1840	-150	204	416
1570	1840	-270	204	417
1440	1840	-400	204	418

1780	1760	20	205	418
1820	1760	60	206	418
1990	1760	230	207	418
1780	1760	20	208	418
1950	1760	190	209	418
1980	1760	220	210	418
992	1760	-768	210	419
1750	1760	-10	210	420
1870	1760	110	211	420
1800	1760	40	212	420
1600	1760	-160	212	421
1700	1760	-60	212	422
1800	1760	40	213	422
1300	1760	-460	213	423
1400	1760	-360	213	424
1400	1760	-360	213	425
1800	1760	40	214	425
1400	1760	-360	214	426
11.8	1760	-1748.2	214	427
1800	1760	40	215	427
2310	1760	550	216	427
2410	1760	650	217	427
1800	1760	40	218	427
1800	1760	40	219	427
2270	1760	510	220	427
1690	1760	-70	220	428
1570	1760	-190	220	429
1440	1760	-320	220	430

1820	1780	40	221	430
1990	1780	210	222	430
1780	1780	0	222	430
1950	1780	170	223	430
1980	1780	200	224	430
992	1780	-788	224	431
1750	1780	-30	224	432
1870	1780	90	225	432
1800	1780	20	226	432
1600	1780	-180	226	433
1700	1780	-80	226	434
1800	1780	20	227	434
1300	1780	-480	227	435
1400	1780	-380	227	436
1400	1780	-380	227	437
1800	1780	20	228	437
1400	1780	-380	228	438
11.8	1780	-1768.2	228	439
1800	1780	20	229	439
2310	1780	530	230	439
2410	1780	630	231	439
1800	1780	20	232	439
1800	1780	20	233	439
2270	1780	490	234	439
1690	1780	-90	234	440
1570	1780	-210	234	441
1440	1780	-340	234	442
1990	1820	170	235	442
1780	1820	-40	235	443
1950	1820	130	236	443
1980	1820	160	237	443
992	1820	-828	237	444
1750	1820	-70	237	445
1870	1820	50	238	445
1800	1820	-20	238	446
1600	1820	-220	238	447
1700	1820	-120	238	448
1800	1820	-20	238	449
1300	1820	-520	238	450
1400	1820	-420	238	451
1400	1820	-420	238	452
1800	1820	-20	238	453
1400	1820	-420	238	454
11.8	1820	-1808.2	238	455
1800	1820	-20	238	456
2310	1820	490	239	456
2410	1820	590	240	456
1800	1820	-20	240	457
1800	1820	-20	240	458
2270	1820	450	241	458
1690	1820	-130	241	459
1570	1820	-250	241	460
1440	1820	-380	241	461
1780	1990	-210	241	462

1950	1990	-40	241	463
1980	1990	-10	241	464
992	1990	-998	241	465
1750	1990	-240	241	466
1870	1990	-120	241	467
1800	1990	-190	241	468
1600	1990	-390	241	469
1700	1990	-290	241	470
1800	1990	-190	241	471
1300	1990	-690	241	472
1400	1990	-590	241	473
1400	1990	-590	241	474
1800	1990	-190	241	475
1400	1990	-590	241	476
11.8	1990	-1978.2	241	477
1800	1990	-190	241	478
2310	1990	320	242	478
2410	1990	420	243	478
1800	1990	-190	243	479
1800	1990	-190	243	480
2270	1990	280	244	480
1690	1990	-300	244	481
1570	1990	-420	244	482
1440	1990	-550	244	483
1950	1780	170	245	483
1980	1780	200	246	483
992	1780	-788	246	484
1750	1780	-30	246	485
1870	1780	90	247	485
1800	1780	20	248	485
1600	1780	-180	248	486
1700	1780	-80	248	487
1800	1780	20	249	487
1300	1780	-480	249	488
1400	1780	-380	249	489
1400	1780	-380	249	490
1800	1780	20	250	490
1400	1780	-380	250	491
11.8	1780	-1768.2	250	492
1800	1780	20	251	492
2310	1780	530	252	492
2410	1780	630	253	492
1800	1780	20	254	492
1800	1780	20	255	492
2270	1780	490	256	492
1690	1780	-90	256	493
1570	1780	-210	256	494
1440	1780	-340	256	495
1980	1950	30	257	495
992	1950	-958	257	496
1750	1950	-200	257	497
1870	1950	-80	257	498
1800	1950	-150	257	499
1600	1950	-350	257	500
1700	1950	-250	257	501

1800	1950	-150	257	502
1300	1950	-650	257	503
1400	1950	-550	257	504
1400	1950	-550	257	505
1800	1950	-150	257	506
1400	1950	-550	257	507
11.8	1950	-1938.2	257	508
1800	1950	-150	257	509
2310	1950	360	258	509
2410	1950	460	259	509
1800	1950	-150	259	510
1800	1950	-150	259	511
2270	1950	320	260	511
1690	1950	-260	260	512
1570	1950	-380	260	513
1440	1950	-510	260	514
992	1980	-988	260	515
1750	1980	-230	260	516
1870	1980	-110	260	517
1800	1980	-180	260	518
1600	1980	-380	260	519
1700	1980	-280	260	520
1800	1980	-180	260	521
1300	1980	-680	260	522
1400	1980	-580	260	523
1400	1980	-580	260	524
1800	1980	-180	260	525
1400	1980	-580	260	526
11.8	1980	-1968.2	260	527
1800	1980	-180	260	528
2310	1980	330	261	528
2410	1980	430	262	528
1800	1980	-180	262	529
1800	1980	-180	262	530
2270	1980	290	263	530
1690	1980	-290	263	531
1570	1980	-410	263	532
1440	1980	-540	263	533
1750	992	758	264	533
1870	992	878	265	533
1800	992	808	266	533
1600	992	608	267	533
1700	992	708	268	533
1800	992	808	269	533
1300	992	308	270	533
1400	992	408	271	533
1400	992	408	272	533
1800	992	808	273	533
1400	992	408	274	533
11.8	992	-980.2	274	534
1800	992	808	275	534
2310	992	1318	276	534
2410	992	1418	277	534
1800	992	808	278	534
1800	992	808	279	534

2270	992	1278	280	534
1690	992	698	281	534
1570	992	578	282	534
1440	992	448	283	534

1870	1750	120	284	534
1800	1750	50	285	534
1600	1750	-150	285	535
1700	1750	-50	285	536
1800	1750	50	286	536
1300	1750	-450	286	537
1400	1750	-350	286	538
1400	1750	-350	286	539
1800	1750	50	287	539
1400	1750	-350	287	540
11.8	1750	-1738.2	287	541
1800	1750	50	288	541
2310	1750	560	289	541
2410	1750	660	290	541
1800	1750	50	291	541
1800	1750	50	292	541
2270	1750	520	293	541
1690	1750	-60	293	542
1570	1750	-180	293	543
1440	1750	-310	293	544

1800	1870	-70	293	545
1600	1870	-270	293	546
1700	1870	-170	293	547
1800	1870	-70	293	548
1300	1870	-570	293	549
1400	1870	-470	293	550
1400	1870	-470	293	551
1800	1870	-70	293	552
1400	1870	-470	293	553
11.8	1870	-1858.2	293	554
1800	1870	-70	293	555
2310	1870	440	294	555
2410	1870	540	295	555
1800	1870	-70	295	556
1800	1870	-70	295	557
2270	1870	400	296	557
1690	1870	-180	296	558
1570	1870	-300	296	559
1440	1870	-430	296	560

1600	1800	-200	296	561
1700	1800	-100	296	562
1800	1800	0	296	562
1300	1800	-500	296	563
1400	1800	-400	296	564
1400	1800	-400	296	565
1800	1800	0	296	565
1400	1800	-400	296	566
11.8	1800	-1788.2	296	567
1800	1800	0	296	567
2310	1800	510	297	567

2410	1800	610	298	567
1800	1800	0	298	567
1800	1800	0	298	567
2270	1800	470	299	567
1690	1800	-110	299	568
1570	1800	-230	299	569
1440	1800	-360	299	570

1700	1600	100	300	570
1800	1600	200	301	570
1300	1600	-300	301	571
1400	1600	-200	301	572
1400	1600	-200	301	573
1800	1600	200	302	573
1400	1600	-200	302	574
11.8	1600	-1588.2	302	575
1800	1600	200	303	575
2310	1600	710	304	575
2410	1600	810	305	575
1800	1600	200	306	575
1800	1600	200	307	575
2270	1600	670	308	575
1690	1600	90	309	575
1570	1600	-30	309	576
1440	1600	-160	309	577

1800	1700	100	310	577
1300	1700	-400	310	578
1400	1700	-300	310	579
1400	1700	-300	310	580
1800	1700	100	311	580
1400	1700	-300	311	581
11.8	1700	-1688.2	311	582
1800	1700	100	312	582
2310	1700	610	313	582
2410	1700	710	314	582
1800	1700	100	315	582
1800	1700	100	316	582
2270	1700	570	317	582
1690	1700	-10	317	583
1570	1700	-130	317	584
1440	1700	-260	317	585

1300	1800	-500	317	586
1400	1800	-400	317	587
1400	1800	-400	317	588
1800	1800	0	317	588
1400	1800	-400	317	589
11.8	1800	-1788.2	317	590
1800	1800	0	317	590
2310	1800	510	318	590
2410	1800	610	319	590
1800	1800	0	319	590
1800	1800	0	319	590
2270	1800	470	320	590
1690	1800	-110	320	591
1570	1800	-230	320	592

1440	1800	-360	320	593
1400	1300	100	321	593
1400	1300	100	322	593
1800	1300	500	323	593
1400	1300	100	324	593
11.8	1300	-1288.2	324	594
1800	1300	500	325	594
2310	1300	1010	326	594
2410	1300	1110	327	594
1800	1300	500	328	594
1800	1300	500	329	594
2270	1300	970	330	594
1690	1300	390	331	594
1570	1300	270	332	594
1440	1300	140	333	594
1400	1400	0	333	594
1800	1400	400	334	594
1400	1400	0	334	594
11.8	1400	-1388.2	334	595
1800	1400	400	335	595
2310	1400	910	336	595
2410	1400	1010	337	595
1800	1400	400	338	595
1800	1400	400	339	595
2270	1400	870	340	595
1690	1400	290	341	595
1570	1400	170	342	595
1440	1400	40	343	595
1800	1400	400	344	595
1400	1400	0	344	595
11.8	1400	-1388.2	344	596
1800	1400	400	345	596
2310	1400	910	346	596
2410	1400	1010	347	596
1800	1400	400	348	596
1800	1400	400	349	596
2270	1400	870	350	596
1690	1400	290	351	596
1570	1400	170	352	596
1440	1400	40	353	596
1400	1800	-400	353	597
11.8	1800	-1788.2	353	598
1800	1800	0	353	598
2310	1800	510	354	598
2410	1800	610	355	598
1800	1800	0	355	598
1800	1800	0	355	598
2270	1800	470	356	598
1690	1800	-110	356	599
1570	1800	-230	356	600
1440	1800	-360	356	601
11.8	1400	-1388.2	356	602

1800	1400	400	357	602
2310	1400	910	358	602
2410	1400	1010	359	602
1800	1400	400	360	602
1800	1400	400	361	602
2270	1400	870	362	602
1690	1400	290	363	602
1570	1400	170	364	602
1440	1400	40	365	602
1800	11.8	1788.2	366	602
2310	11.8	2298.2	367	602
2410	11.8	2398.2	368	602
1800	11.8	1788.2	369	602
1800	11.8	1788.2	370	602
2270	11.8	2258.2	371	602
1690	11.8	1678.2	372	602
1570	11.8	1558.2	373	602
1440	11.8	1428.2	374	602
2310	1800	510	375	602
2410	1800	610	376	602
1800	1800	0	376	602
1800	1800	0	376	602
2270	1800	470	377	602
1690	1800	-110	377	603
1570	1800	-230	377	604
1440	1800	-360	377	605
2410	2310	100	378	605
1800	2310	-510	378	606
1800	2310	-510	378	607
2270	2310	-40	378	608
1690	2310	-620	378	609
1570	2310	-740	378	610
1440	2310	-870	378	611
1800	2410	-610	378	612
1800	2410	-610	378	613
2270	2410	-140	378	614
1690	2410	-720	378	615
1570	2410	-840	378	616
1440	2410	-970	378	617
1800	1800	0	378	617
2270	1800	470	379	617
1690	1800	-110	379	618
1570	1800	-230	379	619
1440	1800	-360	379	620
2270	1800	470	380	620
1690	1800	-110	380	621
1570	1800	-230	380	622
1440	1800	-360	380	623
1690	2270	-580	380	624
1570	2270	-700	380	625

1440	2270	-830	380	626
1570	1690	-120	380	627
1440	1690	-250	380	628
1440	1570	-130	380	629

S Statistic = 380 - 629 = -249

Tied Group	**Value**	**Members**
1	1810	2
2	1870	3
3	1880	2
4	1910	2
5	1820	2
6	1780	2
7	1800	6
8	1400	3

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1

1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 732
B = 0
C = 132
D = 0
E = 52
F = 0
a = 200790
b = 819720
c = 4140
Group Variance = 11114.3
Z-Score = -2.35239
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-2.35239| > 2.32634 indicating a trend

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids

Location: MW-4

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1870	1980	-110	0	1
1610	1980	-370	0	2
1140	1980	-840	0	3
1750	1980	-230	0	4
1880	1980	-100	0	5
1820	1980	-160	0	6
1820	1980	-160	0	7
1840	1980	-140	0	8
1870	1980	-110	0	9
1820	1980	-160	0	10
1810	1980	-170	0	11
1810	1980	-170	0	12
1860	1980	-120	0	13
1980	1980	0	0	13
1950	1980	-30	0	14
1800	1980	-180	0	15
1560	1980	-420	0	16
1730	1980	-250	0	17
1840	1980	-140	0	18
1880	1980	-100	0	19
1830	1980	-150	0	20
1840	1980	-140	0	21
1860	1980	-120	0	22
1820	1980	-160	0	23
1840	1980	-140	0	24
1860	1980	-120	0	25
1800	1980	-180	0	26
1600	1980	-380	0	27
1700	1980	-280	0	28
1900	1980	-80	0	29
1300	1980	-680	0	30
1400	1980	-580	0	31
1300	1980	-680	0	32
1800	1980	-180	0	33
1400	1980	-580	0	34
1090	1980	-890	0	35
1790	1980	-190	0	36
2250	1980	270	1	36
2190	1980	210	2	36
1770	1980	-210	2	37
1770	1980	-210	2	38
2400	1980	420	3	38
1730	1980	-250	3	39
1580	1980	-400	3	40
1450	1980	-530	3	41
1610	1870	-260	3	42

1140	1870	-730	3	43
1750	1870	-120	3	44
1880	1870	10	4	44
1820	1870	-50	4	45
1820	1870	-50	4	46
1840	1870	-30	4	47
1870	1870	0	4	47
1820	1870	-50	4	48
1810	1870	-60	4	49
1810	1870	-60	4	50
1860	1870	-10	4	51
1980	1870	110	5	51
1950	1870	80	6	51
1800	1870	-70	6	52
1560	1870	-310	6	53
1730	1870	-140	6	54
1840	1870	-30	6	55
1880	1870	10	7	55
1830	1870	-40	7	56
1840	1870	-30	7	57
1860	1870	-10	7	58
1820	1870	-50	7	59
1840	1870	-30	7	60
1860	1870	-10	7	61
1800	1870	-70	7	62
1600	1870	-270	7	63
1700	1870	-170	7	64
1900	1870	30	8	64
1300	1870	-570	8	65
1400	1870	-470	8	66
1300	1870	-570	8	67
1800	1870	-70	8	68
1400	1870	-470	8	69
1090	1870	-780	8	70
1790	1870	-80	8	71
2250	1870	380	9	71
2190	1870	320	10	71
1770	1870	-100	10	72
1770	1870	-100	10	73
2400	1870	530	11	73
1730	1870	-140	11	74
1580	1870	-290	11	75
1450	1870	-420	11	76
1140	1610	-470	11	77
1750	1610	140	12	77
1880	1610	270	13	77
1820	1610	210	14	77
1820	1610	210	15	77
1840	1610	230	16	77
1870	1610	260	17	77
1820	1610	210	18	77
1810	1610	200	19	77
1810	1610	200	20	77
1860	1610	250	21	77
1980	1610	370	22	77
1950	1610	340	23	77

1800	1610	190	24	77
1560	1610	-50	24	78
1730	1610	120	25	78
1840	1610	230	26	78
1880	1610	270	27	78
1830	1610	220	28	78
1840	1610	230	29	78
1860	1610	250	30	78
1820	1610	210	31	78
1840	1610	230	32	78
1860	1610	250	33	78
1800	1610	190	34	78
1600	1610	-10	34	79
1700	1610	90	35	79
1900	1610	290	36	79
1300	1610	-310	36	80
1400	1610	-210	36	81
1300	1610	-310	36	82
1800	1610	190	37	82
1400	1610	-210	37	83
1090	1610	-520	37	84
1790	1610	180	38	84
2250	1610	640	39	84
2190	1610	580	40	84
1770	1610	160	41	84
1770	1610	160	42	84
2400	1610	790	43	84
1730	1610	120	44	84
1580	1610	-30	44	85
1450	1610	-160	44	86
1750	1140	610	45	86
1880	1140	740	46	86
1820	1140	680	47	86
1820	1140	680	48	86
1840	1140	700	49	86
1870	1140	730	50	86
1820	1140	680	51	86
1810	1140	670	52	86
1810	1140	670	53	86
1860	1140	720	54	86
1980	1140	840	55	86
1950	1140	810	56	86
1800	1140	660	57	86
1560	1140	420	58	86
1730	1140	590	59	86
1840	1140	700	60	86
1880	1140	740	61	86
1830	1140	690	62	86
1840	1140	700	63	86
1860	1140	720	64	86
1820	1140	680	65	86
1840	1140	700	66	86
1860	1140	720	67	86
1800	1140	660	68	86
1600	1140	460	69	86
1700	1140	560	70	86

1900	1140	760	71	86
1300	1140	160	72	86
1400	1140	260	73	86
1300	1140	160	74	86
1800	1140	660	75	86
1400	1140	260	76	86
1090	1140	-50	76	87
1790	1140	650	77	87
2250	1140	1110	78	87
2190	1140	1050	79	87
1770	1140	630	80	87
1770	1140	630	81	87
2400	1140	1260	82	87
1730	1140	590	83	87
1580	1140	440	84	87
1450	1140	310	85	87
1880	1750	130	86	87
1820	1750	70	87	87
1820	1750	70	88	87
1840	1750	90	89	87
1870	1750	120	90	87
1820	1750	70	91	87
1810	1750	60	92	87
1810	1750	60	93	87
1860	1750	110	94	87
1980	1750	230	95	87
1950	1750	200	96	87
1800	1750	50	97	87
1560	1750	-190	97	88
1730	1750	-20	97	89
1840	1750	90	98	89
1880	1750	130	99	89
1830	1750	80	100	89
1840	1750	90	101	89
1860	1750	110	102	89
1820	1750	70	103	89
1840	1750	90	104	89
1860	1750	110	105	89
1800	1750	50	106	89
1600	1750	-150	106	90
1700	1750	-50	106	91
1900	1750	150	107	91
1300	1750	-450	107	92
1400	1750	-350	107	93
1300	1750	-450	107	94
1800	1750	50	108	94
1400	1750	-350	108	95
1090	1750	-660	108	96
1790	1750	40	109	96
2250	1750	500	110	96
2190	1750	440	111	96
1770	1750	20	112	96
1770	1750	20	113	96
2400	1750	650	114	96
1730	1750	-20	114	97
1580	1750	-170	114	98

1450	1750	-300	114	99

1820	1880	-60	114	100
1820	1880	-60	114	101
1840	1880	-40	114	102
1870	1880	-10	114	103
1820	1880	-60	114	104
1810	1880	-70	114	105
1810	1880	-70	114	106
1860	1880	-20	114	107
1980	1880	100	115	107
1950	1880	70	116	107
1800	1880	-80	116	108
1560	1880	-320	116	109
1730	1880	-150	116	110
1840	1880	-40	116	111
1880	1880	0	116	111
1830	1880	-50	116	112
1840	1880	-40	116	113
1860	1880	-20	116	114
1820	1880	-60	116	115
1840	1880	-40	116	116
1860	1880	-20	116	117
1800	1880	-80	116	118
1600	1880	-280	116	119
1700	1880	-180	116	120
1900	1880	20	117	120
1300	1880	-580	117	121
1400	1880	-480	117	122
1300	1880	-580	117	123
1800	1880	-80	117	124
1400	1880	-480	117	125
1090	1880	-790	117	126
1790	1880	-90	117	127
2250	1880	370	118	127
2190	1880	310	119	127
1770	1880	-110	119	128
1770	1880	-110	119	129
2400	1880	520	120	129
1730	1880	-150	120	130
1580	1880	-300	120	131
1450	1880	-430	120	132

1820	1820	0	120	132
1840	1820	20	121	132
1870	1820	50	122	132
1820	1820	0	122	132
1810	1820	-10	122	133
1810	1820	-10	122	134
1860	1820	40	123	134
1980	1820	160	124	134
1950	1820	130	125	134
1800	1820	-20	125	135
1560	1820	-260	125	136
1730	1820	-90	125	137
1840	1820	20	126	137
1880	1820	60	127	137

1830	1820	10	128	137
1840	1820	20	129	137
1860	1820	40	130	137
1820	1820	0	130	137
1840	1820	20	131	137
1860	1820	40	132	137
1800	1820	-20	132	138
1600	1820	-220	132	139
1700	1820	-120	132	140
1900	1820	80	133	140
1300	1820	-520	133	141
1400	1820	-420	133	142
1300	1820	-520	133	143
1800	1820	-20	133	144
1400	1820	-420	133	145
1090	1820	-730	133	146
1790	1820	-30	133	147
2250	1820	430	134	147
2190	1820	370	135	147
1770	1820	-50	135	148
1770	1820	-50	135	149
2400	1820	580	136	149
1730	1820	-90	136	150
1580	1820	-240	136	151
1450	1820	-370	136	152
1840	1820	20	137	152
1870	1820	50	138	152
1820	1820	0	138	152
1810	1820	-10	138	153
1810	1820	-10	138	154
1860	1820	40	139	154
1980	1820	160	140	154
1950	1820	130	141	154
1800	1820	-20	141	155
1560	1820	-260	141	156
1730	1820	-90	141	157
1840	1820	20	142	157
1880	1820	60	143	157
1830	1820	10	144	157
1840	1820	20	145	157
1860	1820	40	146	157
1820	1820	0	146	157
1840	1820	20	147	157
1860	1820	40	148	157
1800	1820	-20	148	158
1600	1820	-220	148	159
1700	1820	-120	148	160
1900	1820	80	149	160
1300	1820	-520	149	161
1400	1820	-420	149	162
1300	1820	-520	149	163
1800	1820	-20	149	164
1400	1820	-420	149	165
1090	1820	-730	149	166
1790	1820	-30	149	167
2250	1820	430	150	167

2190	1820	370	151	167
1770	1820	-50	151	168
1770	1820	-50	151	169
2400	1820	580	152	169
1730	1820	-90	152	170
1580	1820	-240	152	171
1450	1820	-370	152	172
1870	1840	30	153	172
1820	1840	-20	153	173
1810	1840	-30	153	174
1810	1840	-30	153	175
1860	1840	20	154	175
1980	1840	140	155	175
1950	1840	110	156	175
1800	1840	-40	156	176
1560	1840	-280	156	177
1730	1840	-110	156	178
1840	1840	0	156	178
1880	1840	40	157	178
1830	1840	-10	157	179
1840	1840	0	157	179
1860	1840	20	158	179
1820	1840	-20	158	180
1840	1840	0	158	180
1860	1840	20	159	180
1800	1840	-40	159	181
1600	1840	-240	159	182
1700	1840	-140	159	183
1900	1840	60	160	183
1300	1840	-540	160	184
1400	1840	-440	160	185
1300	1840	-540	160	186
1800	1840	-40	160	187
1400	1840	-440	160	188
1090	1840	-750	160	189
1790	1840	-50	160	190
2250	1840	410	161	190
2190	1840	350	162	190
1770	1840	-70	162	191
1770	1840	-70	162	192
2400	1840	560	163	192
1730	1840	-110	163	193
1580	1840	-260	163	194
1450	1840	-390	163	195
1820	1870	-50	163	196
1810	1870	-60	163	197
1810	1870	-60	163	198
1860	1870	-10	163	199
1980	1870	110	164	199
1950	1870	80	165	199
1800	1870	-70	165	200
1560	1870	-310	165	201
1730	1870	-140	165	202
1840	1870	-30	165	203
1880	1870	10	166	203

1830	1870	-40	166	204
1840	1870	-30	166	205
1860	1870	-10	166	206
1820	1870	-50	166	207
1840	1870	-30	166	208
1860	1870	-10	166	209
1800	1870	-70	166	210
1600	1870	-270	166	211
1700	1870	-170	166	212
1900	1870	30	167	212
1300	1870	-570	167	213
1400	1870	-470	167	214
1300	1870	-570	167	215
1800	1870	-70	167	216
1400	1870	-470	167	217
1090	1870	-780	167	218
1790	1870	-80	167	219
2250	1870	380	168	219
2190	1870	320	169	219
1770	1870	-100	169	220
1770	1870	-100	169	221
2400	1870	530	170	221
1730	1870	-140	170	222
1580	1870	-290	170	223
1450	1870	-420	170	224

1810	1820	-10	170	225
1810	1820	-10	170	226
1860	1820	40	171	226
1980	1820	160	172	226
1950	1820	130	173	226
1800	1820	-20	173	227
1560	1820	-260	173	228
1730	1820	-90	173	229
1840	1820	20	174	229
1880	1820	60	175	229
1830	1820	10	176	229
1840	1820	20	177	229
1860	1820	40	178	229
1820	1820	0	178	229
1840	1820	20	179	229
1860	1820	40	180	229
1800	1820	-20	180	230
1600	1820	-220	180	231
1700	1820	-120	180	232
1900	1820	80	181	232
1300	1820	-520	181	233
1400	1820	-420	181	234
1300	1820	-520	181	235
1800	1820	-20	181	236
1400	1820	-420	181	237
1090	1820	-730	181	238
1790	1820	-30	181	239
2250	1820	430	182	239
2190	1820	370	183	239
1770	1820	-50	183	240
1770	1820	-50	183	241

2400	1820	580	184	241
1730	1820	-90	184	242
1580	1820	-240	184	243
1450	1820	-370	184	244

1810	1810	0	184	244
1860	1810	50	185	244
1980	1810	170	186	244
1950	1810	140	187	244
1800	1810	-10	187	245
1560	1810	-250	187	246
1730	1810	-80	187	247
1840	1810	30	188	247
1880	1810	70	189	247
1830	1810	20	190	247
1840	1810	30	191	247
1860	1810	50	192	247
1820	1810	10	193	247
1840	1810	30	194	247
1860	1810	50	195	247
1800	1810	-10	195	248
1600	1810	-210	195	249
1700	1810	-110	195	250
1900	1810	90	196	250
1300	1810	-510	196	251
1400	1810	-410	196	252
1300	1810	-510	196	253
1800	1810	-10	196	254
1400	1810	-410	196	255
1090	1810	-720	196	256
1790	1810	-20	196	257
2250	1810	440	197	257
2190	1810	380	198	257
1770	1810	-40	198	258
1770	1810	-40	198	259
2400	1810	590	199	259
1730	1810	-80	199	260
1580	1810	-230	199	261
1450	1810	-360	199	262

1860	1810	50	200	262
1980	1810	170	201	262
1950	1810	140	202	262
1800	1810	-10	202	263
1560	1810	-250	202	264
1730	1810	-80	202	265
1840	1810	30	203	265
1880	1810	70	204	265
1830	1810	20	205	265
1840	1810	30	206	265
1860	1810	50	207	265
1820	1810	10	208	265
1840	1810	30	209	265
1860	1810	50	210	265
1800	1810	-10	210	266
1600	1810	-210	210	267
1700	1810	-110	210	268

1900	1810	90	211	268
1300	1810	-510	211	269
1400	1810	-410	211	270
1300	1810	-510	211	271
1800	1810	-10	211	272
1400	1810	-410	211	273
1090	1810	-720	211	274
1790	1810	-20	211	275
2250	1810	440	212	275
2190	1810	380	213	275
1770	1810	-40	213	276
1770	1810	-40	213	277
2400	1810	590	214	277
1730	1810	-80	214	278
1580	1810	-230	214	279
1450	1810	-360	214	280
1980	1860	120	215	280
1950	1860	90	216	280
1800	1860	-60	216	281
1560	1860	-300	216	282
1730	1860	-130	216	283
1840	1860	-20	216	284
1880	1860	20	217	284
1830	1860	-30	217	285
1840	1860	-20	217	286
1860	1860	0	217	286
1820	1860	-40	217	287
1840	1860	-20	217	288
1860	1860	0	217	288
1800	1860	-60	217	289
1600	1860	-260	217	290
1700	1860	-160	217	291
1900	1860	40	218	291
1300	1860	-560	218	292
1400	1860	-460	218	293
1300	1860	-560	218	294
1800	1860	-60	218	295
1400	1860	-460	218	296
1090	1860	-770	218	297
1790	1860	-70	218	298
2250	1860	390	219	298
2190	1860	330	220	298
1770	1860	-90	220	299
1770	1860	-90	220	300
2400	1860	540	221	300
1730	1860	-130	221	301
1580	1860	-280	221	302
1450	1860	-410	221	303
1950	1980	-30	221	304
1800	1980	-180	221	305
1560	1980	-420	221	306
1730	1980	-250	221	307
1840	1980	-140	221	308
1880	1980	-100	221	309
1830	1980	-150	221	310

1840	1980	-140	221	311
1860	1980	-120	221	312
1820	1980	-160	221	313
1840	1980	-140	221	314
1860	1980	-120	221	315
1800	1980	-180	221	316
1600	1980	-380	221	317
1700	1980	-280	221	318
1900	1980	-80	221	319
1300	1980	-680	221	320
1400	1980	-580	221	321
1300	1980	-680	221	322
1800	1980	-180	221	323
1400	1980	-580	221	324
1090	1980	-890	221	325
1790	1980	-190	221	326
2250	1980	270	222	326
2190	1980	210	223	326
1770	1980	-210	223	327
1770	1980	-210	223	328
2400	1980	420	224	328
1730	1980	-250	224	329
1580	1980	-400	224	330
1450	1980	-530	224	331
1800	1950	-150	224	332
1560	1950	-390	224	333
1730	1950	-220	224	334
1840	1950	-110	224	335
1880	1950	-70	224	336
1830	1950	-120	224	337
1840	1950	-110	224	338
1860	1950	-90	224	339
1820	1950	-130	224	340
1840	1950	-110	224	341
1860	1950	-90	224	342
1800	1950	-150	224	343
1600	1950	-350	224	344
1700	1950	-250	224	345
1900	1950	-50	224	346
1300	1950	-650	224	347
1400	1950	-550	224	348
1300	1950	-650	224	349
1800	1950	-150	224	350
1400	1950	-550	224	351
1090	1950	-860	224	352
1790	1950	-160	224	353
2250	1950	300	225	353
2190	1950	240	226	353
1770	1950	-180	226	354
1770	1950	-180	226	355
2400	1950	450	227	355
1730	1950	-220	227	356
1580	1950	-370	227	357
1450	1950	-500	227	358
1560	1800	-240	227	359

1730	1800	-70	227	360
1840	1800	40	228	360
1880	1800	80	229	360
1830	1800	30	230	360
1840	1800	40	231	360
1860	1800	60	232	360
1820	1800	20	233	360
1840	1800	40	234	360
1860	1800	60	235	360
1800	1800	0	235	360
1600	1800	-200	235	361
1700	1800	-100	235	362
1900	1800	100	236	362
1300	1800	-500	236	363
1400	1800	-400	236	364
1300	1800	-500	236	365
1800	1800	0	236	365
1400	1800	-400	236	366
1090	1800	-710	236	367
1790	1800	-10	236	368
2250	1800	450	237	368
2190	1800	390	238	368
1770	1800	-30	238	369
1770	1800	-30	238	370
2400	1800	600	239	370
1730	1800	-70	239	371
1580	1800	-220	239	372
1450	1800	-350	239	373

1730	1560	170	240	373
1840	1560	280	241	373
1880	1560	320	242	373
1830	1560	270	243	373
1840	1560	280	244	373
1860	1560	300	245	373
1820	1560	260	246	373
1840	1560	280	247	373
1860	1560	300	248	373
1800	1560	240	249	373
1600	1560	40	250	373
1700	1560	140	251	373
1900	1560	340	252	373
1300	1560	-260	252	374
1400	1560	-160	252	375
1300	1560	-260	252	376
1800	1560	240	253	376
1400	1560	-160	253	377
1090	1560	-470	253	378
1790	1560	230	254	378
2250	1560	690	255	378
2190	1560	630	256	378
1770	1560	210	257	378
1770	1560	210	258	378
2400	1560	840	259	378
1730	1560	170	260	378
1580	1560	20	261	378
1450	1560	-110	261	379

1840	1730	110	262	379
1880	1730	150	263	379
1830	1730	100	264	379
1840	1730	110	265	379
1860	1730	130	266	379
1820	1730	90	267	379
1840	1730	110	268	379
1860	1730	130	269	379
1800	1730	70	270	379
1600	1730	-130	270	380
1700	1730	-30	270	381
1900	1730	170	271	381
1300	1730	-430	271	382
1400	1730	-330	271	383
1300	1730	-430	271	384
1800	1730	70	272	384
1400	1730	-330	272	385
1090	1730	-640	272	386
1790	1730	60	273	386
2250	1730	520	274	386
2190	1730	460	275	386
1770	1730	40	276	386
1770	1730	40	277	386
2400	1730	670	278	386
1730	1730	0	278	386
1580	1730	-150	278	387
1450	1730	-280	278	388
1880	1840	40	279	388
1830	1840	-10	279	389
1840	1840	0	279	389
1860	1840	20	280	389
1820	1840	-20	280	390
1840	1840	0	280	390
1860	1840	20	281	390
1800	1840	-40	281	391
1600	1840	-240	281	392
1700	1840	-140	281	393
1900	1840	60	282	393
1300	1840	-540	282	394
1400	1840	-440	282	395
1300	1840	-540	282	396
1800	1840	-40	282	397
1400	1840	-440	282	398
1090	1840	-750	282	399
1790	1840	-50	282	400
2250	1840	410	283	400
2190	1840	350	284	400
1770	1840	-70	284	401
1770	1840	-70	284	402
2400	1840	560	285	402
1730	1840	-110	285	403
1580	1840	-260	285	404
1450	1840	-390	285	405
1830	1880	-50	285	406

1840	1880	-40	285	407
1860	1880	-20	285	408
1820	1880	-60	285	409
1840	1880	-40	285	410
1860	1880	-20	285	411
1800	1880	-80	285	412
1600	1880	-280	285	413
1700	1880	-180	285	414
1900	1880	20	286	414
1300	1880	-580	286	415
1400	1880	-480	286	416
1300	1880	-580	286	417
1800	1880	-80	286	418
1400	1880	-480	286	419
1090	1880	-790	286	420
1790	1880	-90	286	421
2250	1880	370	287	421
2190	1880	310	288	421
1770	1880	-110	288	422
1770	1880	-110	288	423
2400	1880	520	289	423
1730	1880	-150	289	424
1580	1880	-300	289	425
1450	1880	-430	289	426
1840	1830	10	290	426
1860	1830	30	291	426
1820	1830	-10	291	427
1840	1830	10	292	427
1860	1830	30	293	427
1800	1830	-30	293	428
1600	1830	-230	293	429
1700	1830	-130	293	430
1900	1830	70	294	430
1300	1830	-530	294	431
1400	1830	-430	294	432
1300	1830	-530	294	433
1800	1830	-30	294	434
1400	1830	-430	294	435
1090	1830	-740	294	436
1790	1830	-40	294	437
2250	1830	420	295	437
2190	1830	360	296	437
1770	1830	-60	296	438
1770	1830	-60	296	439
2400	1830	570	297	439
1730	1830	-100	297	440
1580	1830	-250	297	441
1450	1830	-380	297	442
1860	1840	20	298	442
1820	1840	-20	298	443
1840	1840	0	298	443
1860	1840	20	299	443
1800	1840	-40	299	444
1600	1840	-240	299	445
1700	1840	-140	299	446

1900	1840	60	300	446
1300	1840	-540	300	447
1400	1840	-440	300	448
1300	1840	-540	300	449
1800	1840	-40	300	450
1400	1840	-440	300	451
1090	1840	-750	300	452
1790	1840	-50	300	453
2250	1840	410	301	453
2190	1840	350	302	453
1770	1840	-70	302	454
1770	1840	-70	302	455
2400	1840	560	303	455
1730	1840	-110	303	456
1580	1840	-260	303	457
1450	1840	-390	303	458
1820	1860	-40	303	459
1840	1860	-20	303	460
1860	1860	0	303	460
1800	1860	-60	303	461
1600	1860	-260	303	462
1700	1860	-160	303	463
1900	1860	40	304	463
1300	1860	-560	304	464
1400	1860	-460	304	465
1300	1860	-560	304	466
1800	1860	-60	304	467
1400	1860	-460	304	468
1090	1860	-770	304	469
1790	1860	-70	304	470
2250	1860	390	305	470
2190	1860	330	306	470
1770	1860	-90	306	471
1770	1860	-90	306	472
2400	1860	540	307	472
1730	1860	-130	307	473
1580	1860	-280	307	474
1450	1860	-410	307	475
1840	1820	20	308	475
1860	1820	40	309	475
1800	1820	-20	309	476
1600	1820	-220	309	477
1700	1820	-120	309	478
1900	1820	80	310	478
1300	1820	-520	310	479
1400	1820	-420	310	480
1300	1820	-520	310	481
1800	1820	-20	310	482
1400	1820	-420	310	483
1090	1820	-730	310	484
1790	1820	-30	310	485
2250	1820	430	311	485
2190	1820	370	312	485
1770	1820	-50	312	486
1770	1820	-50	312	487

2400	1820	580	313	487
1730	1820	-90	313	488
1580	1820	-240	313	489
1450	1820	-370	313	490
1860	1840	20	314	490
1800	1840	-40	314	491
1600	1840	-240	314	492
1700	1840	-140	314	493
1900	1840	60	315	493
1300	1840	-540	315	494
1400	1840	-440	315	495
1300	1840	-540	315	496
1800	1840	-40	315	497
1400	1840	-440	315	498
1090	1840	-750	315	499
1790	1840	-50	315	500
2250	1840	410	316	500
2190	1840	350	317	500
1770	1840	-70	317	501
1770	1840	-70	317	502
2400	1840	560	318	502
1730	1840	-110	318	503
1580	1840	-260	318	504
1450	1840	-390	318	505
1800	1860	-60	318	506
1600	1860	-260	318	507
1700	1860	-160	318	508
1900	1860	40	319	508
1300	1860	-560	319	509
1400	1860	-460	319	510
1300	1860	-560	319	511
1800	1860	-60	319	512
1400	1860	-460	319	513
1090	1860	-770	319	514
1790	1860	-70	319	515
2250	1860	390	320	515
2190	1860	330	321	515
1770	1860	-90	321	516
1770	1860	-90	321	517
2400	1860	540	322	517
1730	1860	-130	322	518
1580	1860	-280	322	519
1450	1860	-410	322	520
1600	1800	-200	322	521
1700	1800	-100	322	522
1900	1800	100	323	522
1300	1800	-500	323	523
1400	1800	-400	323	524
1300	1800	-500	323	525
1800	1800	0	323	525
1400	1800	-400	323	526
1090	1800	-710	323	527
1790	1800	-10	323	528
2250	1800	450	324	528

2190	1800	390	325	528
1770	1800	-30	325	529
1770	1800	-30	325	530
2400	1800	600	326	530
1730	1800	-70	326	531
1580	1800	-220	326	532
1450	1800	-350	326	533
1700	1600	100	327	533
1900	1600	300	328	533
1300	1600	-300	328	534
1400	1600	-200	328	535
1300	1600	-300	328	536
1800	1600	200	329	536
1400	1600	-200	329	537
1090	1600	-510	329	538
1790	1600	190	330	538
2250	1600	650	331	538
2190	1600	590	332	538
1770	1600	170	333	538
1770	1600	170	334	538
2400	1600	800	335	538
1730	1600	130	336	538
1580	1600	-20	336	539
1450	1600	-150	336	540
1900	1700	200	337	540
1300	1700	-400	337	541
1400	1700	-300	337	542
1300	1700	-400	337	543
1800	1700	100	338	543
1400	1700	-300	338	544
1090	1700	-610	338	545
1790	1700	90	339	545
2250	1700	550	340	545
2190	1700	490	341	545
1770	1700	70	342	545
1770	1700	70	343	545
2400	1700	700	344	545
1730	1700	30	345	545
1580	1700	-120	345	546
1450	1700	-250	345	547
1300	1900	-600	345	548
1400	1900	-500	345	549
1300	1900	-600	345	550
1800	1900	-100	345	551
1400	1900	-500	345	552
1090	1900	-810	345	553
1790	1900	-110	345	554
2250	1900	350	346	554
2190	1900	290	347	554
1770	1900	-130	347	555
1770	1900	-130	347	556
2400	1900	500	348	556
1730	1900	-170	348	557
1580	1900	-320	348	558

1450	1900	-450	348	559
1400	1300	100	349	559
1300	1300	0	349	559
1800	1300	500	350	559
1400	1300	100	351	559
1090	1300	-210	351	560
1790	1300	490	352	560
2250	1300	950	353	560
2190	1300	890	354	560
1770	1300	470	355	560
1770	1300	470	356	560
2400	1300	1100	357	560
1730	1300	430	358	560
1580	1300	280	359	560
1450	1300	150	360	560
1300	1400	-100	360	561
1800	1400	400	361	561
1400	1400	0	361	561
1090	1400	-310	361	562
1790	1400	390	362	562
2250	1400	850	363	562
2190	1400	790	364	562
1770	1400	370	365	562
1770	1400	370	366	562
2400	1400	1000	367	562
1730	1400	330	368	562
1580	1400	180	369	562
1450	1400	50	370	562
1800	1300	500	371	562
1400	1300	100	372	562
1090	1300	-210	372	563
1790	1300	490	373	563
2250	1300	950	374	563
2190	1300	890	375	563
1770	1300	470	376	563
1770	1300	470	377	563
2400	1300	1100	378	563
1730	1300	430	379	563
1580	1300	280	380	563
1450	1300	150	381	563
1400	1800	-400	381	564
1090	1800	-710	381	565
1790	1800	-10	381	566
2250	1800	450	382	566
2190	1800	390	383	566
1770	1800	-30	383	567
1770	1800	-30	383	568
2400	1800	600	384	568
1730	1800	-70	384	569
1580	1800	-220	384	570
1450	1800	-350	384	571
1090	1400	-310	384	572

1790	1400	390	385	572
2250	1400	850	386	572
2190	1400	790	387	572
1770	1400	370	388	572
1770	1400	370	389	572
2400	1400	1000	390	572
1730	1400	330	391	572
1580	1400	180	392	572
1450	1400	50	393	572
1790	1090	700	394	572
2250	1090	1160	395	572
2190	1090	1100	396	572
1770	1090	680	397	572
1770	1090	680	398	572
2400	1090	1310	399	572
1730	1090	640	400	572
1580	1090	490	401	572
1450	1090	360	402	572
2250	1790	460	403	572
2190	1790	400	404	572
1770	1790	-20	404	573
1770	1790	-20	404	574
2400	1790	610	405	574
1730	1790	-60	405	575
1580	1790	-210	405	576
1450	1790	-340	405	577
2190	2250	-60	405	578
1770	2250	-480	405	579
1770	2250	-480	405	580
2400	2250	150	406	580
1730	2250	-520	406	581
1580	2250	-670	406	582
1450	2250	-800	406	583
1770	2190	-420	406	584
1770	2190	-420	406	585
2400	2190	210	407	585
1730	2190	-460	407	586
1580	2190	-610	407	587
1450	2190	-740	407	588
1770	1770	0	407	588
2400	1770	630	408	588
1730	1770	-40	408	589
1580	1770	-190	408	590
1450	1770	-320	408	591
2400	1770	630	409	591
1730	1770	-40	409	592
1580	1770	-190	409	593
1450	1770	-320	409	594
1730	2400	-670	409	595
1580	2400	-820	409	596

1450	2400	-950	409	597
1580	1730	-150	409	598
1450	1730	-280	409	599
1450	1580	-130	409	600

S Statistic = 409 - 600 = -191

Tied Group	**Value**	**Members**
1	1980	2
2	1870	2
3	1880	2
4	1820	4
5	1840	4
6	1810	2
7	1860	3
8	1800	3
9	1730	2
10	1300	2
11	1400	2
12	1770	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1
8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1

1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
1/27/2016	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 588
B = 0
C = 60
D = 0
E = 52
F = 0
a = 200790
b = 819720
c = 4140
Group Variance = 11122.3
Z-Score = -1.80159
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.80159| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids

Location: MW-5

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1720	1990	-270	0	1
1610	1990	-380	0	2
2740	1990	750	1	2
1820	1990	-170	1	3
2030	1990	40	2	3
1940	1990	-50	2	4
1800	1990	-190	2	5
1920	1990	-70	2	6
1880	1990	-110	2	7
1950	1990	-40	2	8
1910	1990	-80	2	9
1820	1990	-170	2	10
1880	1990	-110	2	11
1950	1990	-40	2	12
1900	1990	-90	2	13
1840	1990	-150	2	14
1740	1990	-250	2	15
1740	1990	-250	2	16
1940	1990	-50	2	17
1880	1990	-110	2	18
1880	1990	-110	2	19
2010	1990	20	3	19
2020	1990	30	4	19
1670	1990	-320	4	20
1940	1990	-50	4	21
1790	1990	-200	4	22
1900	1990	-90	4	23
1700	1990	-290	4	24
1800	1990	-190	4	25
1800	1990	-190	4	26
1300	1990	-690	4	27
1300	1990	-690	4	28
1400	1990	-590	4	29
1500	1990	-490	4	30
1300	1990	-690	4	31
1800	1990	-190	4	32
2000	1990	10	5	32
1400	1990	-590	5	33
2280	1990	290	6	33
1260	1990	-730	6	34
1890	1990	-100	6	35
1780	1990	-210	6	36
1080	1990	-910	6	37
2110	1990	120	7	37
2290	1990	300	8	37
2250	1990	260	9	37
1800	1990	-190	9	38

1760	1990	-230	9	39
2410	1990	420	10	39
1780	1990	-210	10	40
2510	1990	520	11	40
2460	1990	470	12	40
2570	1990	580	13	40
1780	1990	-210	13	41
1720	1990	-270	13	42
1580	1990	-410	13	43
1580	1990	-410	13	44
1400	1990	-590	13	45
1610	1720	-110	13	46
2740	1720	1020	14	46
1820	1720	100	15	46
2030	1720	310	16	46
1940	1720	220	17	46
1800	1720	80	18	46
1920	1720	200	19	46
1880	1720	160	20	46
1950	1720	230	21	46
1910	1720	190	22	46
1820	1720	100	23	46
1880	1720	160	24	46
1950	1720	230	25	46
1900	1720	180	26	46
1840	1720	120	27	46
1740	1720	20	28	46
1740	1720	20	29	46
1940	1720	220	30	46
1880	1720	160	31	46
1880	1720	160	32	46
2010	1720	290	33	46
2020	1720	300	34	46
1670	1720	-50	34	47
1940	1720	220	35	47
1790	1720	70	36	47
1900	1720	180	37	47
1700	1720	-20	37	48
1800	1720	80	38	48
1800	1720	80	39	48
1300	1720	-420	39	49
1300	1720	-420	39	50
1400	1720	-320	39	51
1500	1720	-220	39	52
1300	1720	-420	39	53
1800	1720	80	40	53
2000	1720	280	41	53
1400	1720	-320	41	54
2280	1720	560	42	54
1260	1720	-460	42	55
1890	1720	170	43	55
1780	1720	60	44	55
1080	1720	-640	44	56
2110	1720	390	45	56
2290	1720	570	46	56
2250	1720	530	47	56

1800	1720	80	48	56
1760	1720	40	49	56
2410	1720	690	50	56
1780	1720	60	51	56
2510	1720	790	52	56
2460	1720	740	53	56
2570	1720	850	54	56
1780	1720	60	55	56
1720	1720	0	55	56
1580	1720	-140	55	57
1580	1720	-140	55	58
1400	1720	-320	55	59

2740	1610	1130	56	59
1820	1610	210	57	59
2030	1610	420	58	59
1940	1610	330	59	59
1800	1610	190	60	59
1920	1610	310	61	59
1880	1610	270	62	59
1950	1610	340	63	59
1910	1610	300	64	59
1820	1610	210	65	59
1880	1610	270	66	59
1950	1610	340	67	59
1900	1610	290	68	59
1840	1610	230	69	59
1740	1610	130	70	59
1740	1610	130	71	59
1940	1610	330	72	59
1880	1610	270	73	59
1880	1610	270	74	59
2010	1610	400	75	59
2020	1610	410	76	59
1670	1610	60	77	59
1940	1610	330	78	59
1790	1610	180	79	59
1900	1610	290	80	59
1700	1610	90	81	59
1800	1610	190	82	59
1800	1610	190	83	59
1300	1610	-310	83	60
1300	1610	-310	83	61
1400	1610	-210	83	62
1500	1610	-110	83	63
1300	1610	-310	83	64
1800	1610	190	84	64
2000	1610	390	85	64
1400	1610	-210	85	65
2280	1610	670	86	65
1260	1610	-350	86	66
1890	1610	280	87	66
1780	1610	170	88	66
1080	1610	-530	88	67
2110	1610	500	89	67
2290	1610	680	90	67
2250	1610	640	91	67

1800	1610	190	92	67
1760	1610	150	93	67
2410	1610	800	94	67
1780	1610	170	95	67
2510	1610	900	96	67
2460	1610	850	97	67
2570	1610	960	98	67
1780	1610	170	99	67
1720	1610	110	100	67
1580	1610	-30	100	68
1580	1610	-30	100	69
1400	1610	-210	100	70
1820	2740	-920	100	71
2030	2740	-710	100	72
1940	2740	-800	100	73
1800	2740	-940	100	74
1920	2740	-820	100	75
1880	2740	-860	100	76
1950	2740	-790	100	77
1910	2740	-830	100	78
1820	2740	-920	100	79
1880	2740	-860	100	80
1950	2740	-790	100	81
1900	2740	-840	100	82
1840	2740	-900	100	83
1740	2740	-1000	100	84
1740	2740	-1000	100	85
1940	2740	-800	100	86
1880	2740	-860	100	87
1880	2740	-860	100	88
2010	2740	-730	100	89
2020	2740	-720	100	90
1670	2740	-1070	100	91
1940	2740	-800	100	92
1790	2740	-950	100	93
1900	2740	-840	100	94
1700	2740	-1040	100	95
1800	2740	-940	100	96
1800	2740	-940	100	97
1300	2740	-1440	100	98
1300	2740	-1440	100	99
1400	2740	-1340	100	100
1500	2740	-1240	100	101
1300	2740	-1440	100	102
1800	2740	-940	100	103
2000	2740	-740	100	104
1400	2740	-1340	100	105
2280	2740	-460	100	106
1260	2740	-1480	100	107
1890	2740	-850	100	108
1780	2740	-960	100	109
1080	2740	-1660	100	110
2110	2740	-630	100	111
2290	2740	-450	100	112
2250	2740	-490	100	113
1800	2740	-940	100	114

1760	2740	-980	100	115
2410	2740	-330	100	116
1780	2740	-960	100	117
2510	2740	-230	100	118
2460	2740	-280	100	119
2570	2740	-170	100	120
1780	2740	-960	100	121
1720	2740	-1020	100	122
1580	2740	-1160	100	123
1580	2740	-1160	100	124
1400	2740	-1340	100	125

2030	1820	210	101	125
1940	1820	120	102	125
1800	1820	-20	102	126
1920	1820	100	103	126
1880	1820	60	104	126
1950	1820	130	105	126
1910	1820	90	106	126
1820	1820	0	106	126
1880	1820	60	107	126
1950	1820	130	108	126
1900	1820	80	109	126
1840	1820	20	110	126
1740	1820	-80	110	127
1740	1820	-80	110	128
1940	1820	120	111	128
1880	1820	60	112	128
1880	1820	60	113	128
2010	1820	190	114	128
2020	1820	200	115	128
1670	1820	-150	115	129
1940	1820	120	116	129
1790	1820	-30	116	130
1900	1820	80	117	130
1700	1820	-120	117	131
1800	1820	-20	117	132
1800	1820	-20	117	133
1300	1820	-520	117	134
1300	1820	-520	117	135
1400	1820	-420	117	136
1500	1820	-320	117	137
1300	1820	-520	117	138
1800	1820	-20	117	139
2000	1820	180	118	139
1400	1820	-420	118	140
2280	1820	460	119	140
1260	1820	-560	119	141
1890	1820	70	120	141
1780	1820	-40	120	142
1080	1820	-740	120	143
2110	1820	290	121	143
2290	1820	470	122	143
2250	1820	430	123	143
1800	1820	-20	123	144
1760	1820	-60	123	145
2410	1820	590	124	145

1780	1820	-40	124	146
2510	1820	690	125	146
2460	1820	640	126	146
2570	1820	750	127	146
1780	1820	-40	127	147
1720	1820	-100	127	148
1580	1820	-240	127	149
1580	1820	-240	127	150
1400	1820	-420	127	151
1940	2030	-90	127	152
1800	2030	-230	127	153
1920	2030	-110	127	154
1880	2030	-150	127	155
1950	2030	-80	127	156
1910	2030	-120	127	157
1820	2030	-210	127	158
1880	2030	-150	127	159
1950	2030	-80	127	160
1900	2030	-130	127	161
1840	2030	-190	127	162
1740	2030	-290	127	163
1740	2030	-290	127	164
1940	2030	-90	127	165
1880	2030	-150	127	166
1880	2030	-150	127	167
2010	2030	-20	127	168
2020	2030	-10	127	169
1670	2030	-360	127	170
1940	2030	-90	127	171
1790	2030	-240	127	172
1900	2030	-130	127	173
1700	2030	-330	127	174
1800	2030	-230	127	175
1800	2030	-230	127	176
1300	2030	-730	127	177
1300	2030	-730	127	178
1400	2030	-630	127	179
1500	2030	-530	127	180
1300	2030	-730	127	181
1800	2030	-230	127	182
2000	2030	-30	127	183
1400	2030	-630	127	184
2280	2030	250	128	184
1260	2030	-770	128	185
1890	2030	-140	128	186
1780	2030	-250	128	187
1080	2030	-950	128	188
2110	2030	80	129	188
2290	2030	260	130	188
2250	2030	220	131	188
1800	2030	-230	131	189
1760	2030	-270	131	190
2410	2030	380	132	190
1780	2030	-250	132	191
2510	2030	480	133	191
2460	2030	430	134	191

2570	2030	540	135	191
1780	2030	-250	135	192
1720	2030	-310	135	193
1580	2030	-450	135	194
1580	2030	-450	135	195
1400	2030	-630	135	196

1800	1940	-140	135	197
1920	1940	-20	135	198
1880	1940	-60	135	199
1950	1940	10	136	199
1910	1940	-30	136	200
1820	1940	-120	136	201
1880	1940	-60	136	202
1950	1940	10	137	202
1900	1940	-40	137	203
1840	1940	-100	137	204
1740	1940	-200	137	205
1740	1940	-200	137	206
1940	1940	0	137	206
1880	1940	-60	137	207
1880	1940	-60	137	208
2010	1940	70	138	208
2020	1940	80	139	208
1670	1940	-270	139	209
1940	1940	0	139	209
1790	1940	-150	139	210
1900	1940	-40	139	211
1700	1940	-240	139	212
1800	1940	-140	139	213
1800	1940	-140	139	214
1300	1940	-640	139	215
1300	1940	-640	139	216
1400	1940	-540	139	217
1500	1940	-440	139	218
1300	1940	-640	139	219
1800	1940	-140	139	220
2000	1940	60	140	220
1400	1940	-540	140	221
2280	1940	340	141	221
1260	1940	-680	141	222
1890	1940	-50	141	223
1780	1940	-160	141	224
1080	1940	-860	141	225
2110	1940	170	142	225
2290	1940	350	143	225
2250	1940	310	144	225
1800	1940	-140	144	226
1760	1940	-180	144	227
2410	1940	470	145	227
1780	1940	-160	145	228
2510	1940	570	146	228
2460	1940	520	147	228
2570	1940	630	148	228
1780	1940	-160	148	229
1720	1940	-220	148	230
1580	1940	-360	148	231

1580	1940	-360	148	232
1400	1940	-540	148	233

1920	1800	120	149	233
1880	1800	80	150	233
1950	1800	150	151	233
1910	1800	110	152	233
1820	1800	20	153	233
1880	1800	80	154	233
1950	1800	150	155	233
1900	1800	100	156	233
1840	1800	40	157	233
1740	1800	-60	157	234
1740	1800	-60	157	235
1940	1800	140	158	235
1880	1800	80	159	235
1880	1800	80	160	235
2010	1800	210	161	235
2020	1800	220	162	235
1670	1800	-130	162	236
1940	1800	140	163	236
1790	1800	-10	163	237
1900	1800	100	164	237
1700	1800	-100	164	238
1800	1800	0	164	238
1800	1800	0	164	238
1300	1800	-500	164	239
1300	1800	-500	164	240
1400	1800	-400	164	241
1500	1800	-300	164	242
1300	1800	-500	164	243
1800	1800	0	164	243
2000	1800	200	165	243
1400	1800	-400	165	244
2280	1800	480	166	244
1260	1800	-540	166	245
1890	1800	90	167	245
1780	1800	-20	167	246
1080	1800	-720	167	247
2110	1800	310	168	247
2290	1800	490	169	247
2250	1800	450	170	247
1800	1800	0	170	247
1760	1800	-40	170	248
2410	1800	610	171	248
1780	1800	-20	171	249
2510	1800	710	172	249
2460	1800	660	173	249
2570	1800	770	174	249
1780	1800	-20	174	250
1720	1800	-80	174	251
1580	1800	-220	174	252
1580	1800	-220	174	253
1400	1800	-400	174	254

1880	1920	-40	174	255
1950	1920	30	175	255

1910	1920	-10	175	256
1820	1920	-100	175	257
1880	1920	-40	175	258
1950	1920	30	176	258
1900	1920	-20	176	259
1840	1920	-80	176	260
1740	1920	-180	176	261
1740	1920	-180	176	262
1940	1920	20	177	262
1880	1920	-40	177	263
1880	1920	-40	177	264
2010	1920	90	178	264
2020	1920	100	179	264
1670	1920	-250	179	265
1940	1920	20	180	265
1790	1920	-130	180	266
1900	1920	-20	180	267
1700	1920	-220	180	268
1800	1920	-120	180	269
1800	1920	-120	180	270
1300	1920	-620	180	271
1300	1920	-620	180	272
1400	1920	-520	180	273
1500	1920	-420	180	274
1300	1920	-620	180	275
1800	1920	-120	180	276
2000	1920	80	181	276
1400	1920	-520	181	277
2280	1920	360	182	277
1260	1920	-660	182	278
1890	1920	-30	182	279
1780	1920	-140	182	280
1080	1920	-840	182	281
2110	1920	190	183	281
2290	1920	370	184	281
2250	1920	330	185	281
1800	1920	-120	185	282
1760	1920	-160	185	283
2410	1920	490	186	283
1780	1920	-140	186	284
2510	1920	590	187	284
2460	1920	540	188	284
2570	1920	650	189	284
1780	1920	-140	189	285
1720	1920	-200	189	286
1580	1920	-340	189	287
1580	1920	-340	189	288
1400	1920	-520	189	289

1950	1880	70	190	289
1910	1880	30	191	289
1820	1880	-60	191	290
1880	1880	0	191	290
1950	1880	70	192	290
1900	1880	20	193	290
1840	1880	-40	193	291
1740	1880	-140	193	292

1740	1880	-140	193	293
1940	1880	60	194	293
1880	1880	0	194	293
1880	1880	0	194	293
2010	1880	130	195	293
2020	1880	140	196	293
1670	1880	-210	196	294
1940	1880	60	197	294
1790	1880	-90	197	295
1900	1880	20	198	295
1700	1880	-180	198	296
1800	1880	-80	198	297
1800	1880	-80	198	298
1300	1880	-580	198	299
1300	1880	-580	198	300
1400	1880	-480	198	301
1500	1880	-380	198	302
1300	1880	-580	198	303
1800	1880	-80	198	304
2000	1880	120	199	304
1400	1880	-480	199	305
2280	1880	400	200	305
1260	1880	-620	200	306
1890	1880	10	201	306
1780	1880	-100	201	307
1080	1880	-800	201	308
2110	1880	230	202	308
2290	1880	410	203	308
2250	1880	370	204	308
1800	1880	-80	204	309
1760	1880	-120	204	310
2410	1880	530	205	310
1780	1880	-100	205	311
2510	1880	630	206	311
2460	1880	580	207	311
2570	1880	690	208	311
1780	1880	-100	208	312
1720	1880	-160	208	313
1580	1880	-300	208	314
1580	1880	-300	208	315
1400	1880	-480	208	316

1910	1950	-40	208	317
1820	1950	-130	208	318
1880	1950	-70	208	319
1950	1950	0	208	319
1900	1950	-50	208	320
1840	1950	-110	208	321
1740	1950	-210	208	322
1740	1950	-210	208	323
1940	1950	-10	208	324
1880	1950	-70	208	325
1880	1950	-70	208	326
2010	1950	60	209	326
2020	1950	70	210	326
1670	1950	-280	210	327
1940	1950	-10	210	328

1790	1950	-160	210	329
1900	1950	-50	210	330
1700	1950	-250	210	331
1800	1950	-150	210	332
1800	1950	-150	210	333
1300	1950	-650	210	334
1300	1950	-650	210	335
1400	1950	-550	210	336
1500	1950	-450	210	337
1300	1950	-650	210	338
1800	1950	-150	210	339
2000	1950	50	211	339
1400	1950	-550	211	340
2280	1950	330	212	340
1260	1950	-690	212	341
1890	1950	-60	212	342
1780	1950	-170	212	343
1080	1950	-870	212	344
2110	1950	160	213	344
2290	1950	340	214	344
2250	1950	300	215	344
1800	1950	-150	215	345
1760	1950	-190	215	346
2410	1950	460	216	346
1780	1950	-170	216	347
2510	1950	560	217	347
2460	1950	510	218	347
2570	1950	620	219	347
1780	1950	-170	219	348
1720	1950	-230	219	349
1580	1950	-370	219	350
1580	1950	-370	219	351
1400	1950	-550	219	352

1820	1910	-90	219	353
1880	1910	-30	219	354
1950	1910	40	220	354
1900	1910	-10	220	355
1840	1910	-70	220	356
1740	1910	-170	220	357
1740	1910	-170	220	358
1940	1910	30	221	358
1880	1910	-30	221	359
1880	1910	-30	221	360
2010	1910	100	222	360
2020	1910	110	223	360
1670	1910	-240	223	361
1940	1910	30	224	361
1790	1910	-120	224	362
1900	1910	-10	224	363
1700	1910	-210	224	364
1800	1910	-110	224	365
1800	1910	-110	224	366
1300	1910	-610	224	367
1300	1910	-610	224	368
1400	1910	-510	224	369
1500	1910	-410	224	370

1300	1910	-610	224	371
1800	1910	-110	224	372
2000	1910	90	225	372
1400	1910	-510	225	373
2280	1910	370	226	373
1260	1910	-650	226	374
1890	1910	-20	226	375
1780	1910	-130	226	376
1080	1910	-830	226	377
2110	1910	200	227	377
2290	1910	380	228	377
2250	1910	340	229	377
1800	1910	-110	229	378
1760	1910	-150	229	379
2410	1910	500	230	379
1780	1910	-130	230	380
2510	1910	600	231	380
2460	1910	550	232	380
2570	1910	660	233	380
1780	1910	-130	233	381
1720	1910	-190	233	382
1580	1910	-330	233	383
1580	1910	-330	233	384
1400	1910	-510	233	385

1880	1820	60	234	385
1950	1820	130	235	385
1900	1820	80	236	385
1840	1820	20	237	385
1740	1820	-80	237	386
1740	1820	-80	237	387
1940	1820	120	238	387
1880	1820	60	239	387
1880	1820	60	240	387
2010	1820	190	241	387
2020	1820	200	242	387
1670	1820	-150	242	388
1940	1820	120	243	388
1790	1820	-30	243	389
1900	1820	80	244	389
1700	1820	-120	244	390
1800	1820	-20	244	391
1800	1820	-20	244	392
1300	1820	-520	244	393
1300	1820	-520	244	394
1400	1820	-420	244	395
1500	1820	-320	244	396
1300	1820	-520	244	397
1800	1820	-20	244	398
2000	1820	180	245	398
1400	1820	-420	245	399
2280	1820	460	246	399
1260	1820	-560	246	400
1890	1820	70	247	400
1780	1820	-40	247	401
1080	1820	-740	247	402
2110	1820	290	248	402

2290	1820	470	249	402
2250	1820	430	250	402
1800	1820	-20	250	403
1760	1820	-60	250	404
2410	1820	590	251	404
1780	1820	-40	251	405
2510	1820	690	252	405
2460	1820	640	253	405
2570	1820	750	254	405
1780	1820	-40	254	406
1720	1820	-100	254	407
1580	1820	-240	254	408
1580	1820	-240	254	409
1400	1820	-420	254	410
1950	1880	70	255	410
1900	1880	20	256	410
1840	1880	-40	256	411
1740	1880	-140	256	412
1740	1880	-140	256	413
1940	1880	60	257	413
1880	1880	0	257	413
1880	1880	0	257	413
2010	1880	130	258	413
2020	1880	140	259	413
1670	1880	-210	259	414
1940	1880	60	260	414
1790	1880	-90	260	415
1900	1880	20	261	415
1700	1880	-180	261	416
1800	1880	-80	261	417
1800	1880	-80	261	418
1300	1880	-580	261	419
1300	1880	-580	261	420
1400	1880	-480	261	421
1500	1880	-380	261	422
1300	1880	-580	261	423
1800	1880	-80	261	424
2000	1880	120	262	424
1400	1880	-480	262	425
2280	1880	400	263	425
1260	1880	-620	263	426
1890	1880	10	264	426
1780	1880	-100	264	427
1080	1880	-800	264	428
2110	1880	230	265	428
2290	1880	410	266	428
2250	1880	370	267	428
1800	1880	-80	267	429
1760	1880	-120	267	430
2410	1880	530	268	430
1780	1880	-100	268	431
2510	1880	630	269	431
2460	1880	580	270	431
2570	1880	690	271	431
1780	1880	-100	271	432
1720	1880	-160	271	433

1580	1880	-300	271	434
1580	1880	-300	271	435
1400	1880	-480	271	436
1900	1950	-50	271	437
1840	1950	-110	271	438
1740	1950	-210	271	439
1740	1950	-210	271	440
1940	1950	-10	271	441
1880	1950	-70	271	442
1880	1950	-70	271	443
2010	1950	60	272	443
2020	1950	70	273	443
1670	1950	-280	273	444
1940	1950	-10	273	445
1790	1950	-160	273	446
1900	1950	-50	273	447
1700	1950	-250	273	448
1800	1950	-150	273	449
1800	1950	-150	273	450
1300	1950	-650	273	451
1300	1950	-650	273	452
1400	1950	-550	273	453
1500	1950	-450	273	454
1300	1950	-650	273	455
1800	1950	-150	273	456
2000	1950	50	274	456
1400	1950	-550	274	457
2280	1950	330	275	457
1260	1950	-690	275	458
1890	1950	-60	275	459
1780	1950	-170	275	460
1080	1950	-870	275	461
2110	1950	160	276	461
2290	1950	340	277	461
2250	1950	300	278	461
1800	1950	-150	278	462
1760	1950	-190	278	463
2410	1950	460	279	463
1780	1950	-170	279	464
2510	1950	560	280	464
2460	1950	510	281	464
2570	1950	620	282	464
1780	1950	-170	282	465
1720	1950	-230	282	466
1580	1950	-370	282	467
1580	1950	-370	282	468
1400	1950	-550	282	469
1840	1900	-60	282	470
1740	1900	-160	282	471
1740	1900	-160	282	472
1940	1900	40	283	472
1880	1900	-20	283	473
1880	1900	-20	283	474
2010	1900	110	284	474
2020	1900	120	285	474

1670	1900	-230	285	475
1940	1900	40	286	475
1790	1900	-110	286	476
1900	1900	0	286	476
1700	1900	-200	286	477
1800	1900	-100	286	478
1800	1900	-100	286	479
1300	1900	-600	286	480
1300	1900	-600	286	481
1400	1900	-500	286	482
1500	1900	-400	286	483
1300	1900	-600	286	484
1800	1900	-100	286	485
2000	1900	100	287	485
1400	1900	-500	287	486
2280	1900	380	288	486
1260	1900	-640	288	487
1890	1900	-10	288	488
1780	1900	-120	288	489
1080	1900	-820	288	490
2110	1900	210	289	490
2290	1900	390	290	490
2250	1900	350	291	490
1800	1900	-100	291	491
1760	1900	-140	291	492
2410	1900	510	292	492
1780	1900	-120	292	493
2510	1900	610	293	493
2460	1900	560	294	493
2570	1900	670	295	493
1780	1900	-120	295	494
1720	1900	-180	295	495
1580	1900	-320	295	496
1580	1900	-320	295	497
1400	1900	-500	295	498

1740	1840	-100	295	499
1740	1840	-100	295	500
1940	1840	100	296	500
1880	1840	40	297	500
1880	1840	40	298	500
2010	1840	170	299	500
2020	1840	180	300	500
1670	1840	-170	300	501
1940	1840	100	301	501
1790	1840	-50	301	502
1900	1840	60	302	502
1700	1840	-140	302	503
1800	1840	-40	302	504
1800	1840	-40	302	505
1300	1840	-540	302	506
1300	1840	-540	302	507
1400	1840	-440	302	508
1500	1840	-340	302	509
1300	1840	-540	302	510
1800	1840	-40	302	511
2000	1840	160	303	511

1400	1840	-440	303	512
2280	1840	440	304	512
1260	1840	-580	304	513
1890	1840	50	305	513
1780	1840	-60	305	514
1080	1840	-760	305	515
2110	1840	270	306	515
2290	1840	450	307	515
2250	1840	410	308	515
1800	1840	-40	308	516
1760	1840	-80	308	517
2410	1840	570	309	517
1780	1840	-60	309	518
2510	1840	670	310	518
2460	1840	620	311	518
2570	1840	730	312	518
1780	1840	-60	312	519
1720	1840	-120	312	520
1580	1840	-260	312	521
1580	1840	-260	312	522
1400	1840	-440	312	523
1740	1740	0	312	523
1940	1740	200	313	523
1880	1740	140	314	523
1880	1740	140	315	523
2010	1740	270	316	523
2020	1740	280	317	523
1670	1740	-70	317	524
1940	1740	200	318	524
1790	1740	50	319	524
1900	1740	160	320	524
1700	1740	-40	320	525
1800	1740	60	321	525
1800	1740	60	322	525
1300	1740	-440	322	526
1300	1740	-440	322	527
1400	1740	-340	322	528
1500	1740	-240	322	529
1300	1740	-440	322	530
1800	1740	60	323	530
2000	1740	260	324	530
1400	1740	-340	324	531
2280	1740	540	325	531
1260	1740	-480	325	532
1890	1740	150	326	532
1780	1740	40	327	532
1080	1740	-660	327	533
2110	1740	370	328	533
2290	1740	550	329	533
2250	1740	510	330	533
1800	1740	60	331	533
1760	1740	20	332	533
2410	1740	670	333	533
1780	1740	40	334	533
2510	1740	770	335	533
2460	1740	720	336	533

2570	1740	830	337	533
1780	1740	40	338	533
1720	1740	-20	338	534
1580	1740	-160	338	535
1580	1740	-160	338	536
1400	1740	-340	338	537
1940	1740	200	339	537
1880	1740	140	340	537
1880	1740	140	341	537
2010	1740	270	342	537
2020	1740	280	343	537
1670	1740	-70	343	538
1940	1740	200	344	538
1790	1740	50	345	538
1900	1740	160	346	538
1700	1740	-40	346	539
1800	1740	60	347	539
1800	1740	60	348	539
1300	1740	-440	348	540
1300	1740	-440	348	541
1400	1740	-340	348	542
1500	1740	-240	348	543
1300	1740	-440	348	544
1800	1740	60	349	544
2000	1740	260	350	544
1400	1740	-340	350	545
2280	1740	540	351	545
1260	1740	-480	351	546
1890	1740	150	352	546
1780	1740	40	353	546
1080	1740	-660	353	547
2110	1740	370	354	547
2290	1740	550	355	547
2250	1740	510	356	547
1800	1740	60	357	547
1760	1740	20	358	547
2410	1740	670	359	547
1780	1740	40	360	547
2510	1740	770	361	547
2460	1740	720	362	547
2570	1740	830	363	547
1780	1740	40	364	547
1720	1740	-20	364	548
1580	1740	-160	364	549
1580	1740	-160	364	550
1400	1740	-340	364	551
1880	1940	-60	364	552
1880	1940	-60	364	553
2010	1940	70	365	553
2020	1940	80	366	553
1670	1940	-270	366	554
1940	1940	0	366	554
1790	1940	-150	366	555
1900	1940	-40	366	556
1700	1940	-240	366	557

1800	1940	-140	366	558
1800	1940	-140	366	559
1300	1940	-640	366	560
1300	1940	-640	366	561
1400	1940	-540	366	562
1500	1940	-440	366	563
1300	1940	-640	366	564
1800	1940	-140	366	565
2000	1940	60	367	565
1400	1940	-540	367	566
2280	1940	340	368	566
1260	1940	-680	368	567
1890	1940	-50	368	568
1780	1940	-160	368	569
1080	1940	-860	368	570
2110	1940	170	369	570
2290	1940	350	370	570
2250	1940	310	371	570
1800	1940	-140	371	571
1760	1940	-180	371	572
2410	1940	470	372	572
1780	1940	-160	372	573
2510	1940	570	373	573
2460	1940	520	374	573
2570	1940	630	375	573
1780	1940	-160	375	574
1720	1940	-220	375	575
1580	1940	-360	375	576
1580	1940	-360	375	577
1400	1940	-540	375	578

1880	1880	0	375	578
2010	1880	130	376	578
2020	1880	140	377	578
1670	1880	-210	377	579
1940	1880	60	378	579
1790	1880	-90	378	580
1900	1880	20	379	580
1700	1880	-180	379	581
1800	1880	-80	379	582
1800	1880	-80	379	583
1300	1880	-580	379	584
1300	1880	-580	379	585
1400	1880	-480	379	586
1500	1880	-380	379	587
1300	1880	-580	379	588
1800	1880	-80	379	589
2000	1880	120	380	589
1400	1880	-480	380	590
2280	1880	400	381	590
1260	1880	-620	381	591
1890	1880	10	382	591
1780	1880	-100	382	592
1080	1880	-800	382	593
2110	1880	230	383	593
2290	1880	410	384	593
2250	1880	370	385	593

1800	1880	-80	385	594
1760	1880	-120	385	595
2410	1880	530	386	595
1780	1880	-100	386	596
2510	1880	630	387	596
2460	1880	580	388	596
2570	1880	690	389	596
1780	1880	-100	389	597
1720	1880	-160	389	598
1580	1880	-300	389	599
1580	1880	-300	389	600
1400	1880	-480	389	601
2010	1880	130	390	601
2020	1880	140	391	601
1670	1880	-210	391	602
1940	1880	60	392	602
1790	1880	-90	392	603
1900	1880	20	393	603
1700	1880	-180	393	604
1800	1880	-80	393	605
1800	1880	-80	393	606
1300	1880	-580	393	607
1300	1880	-580	393	608
1400	1880	-480	393	609
1500	1880	-380	393	610
1300	1880	-580	393	611
1800	1880	-80	393	612
2000	1880	120	394	612
1400	1880	-480	394	613
2280	1880	400	395	613
1260	1880	-620	395	614
1890	1880	10	396	614
1780	1880	-100	396	615
1080	1880	-800	396	616
2110	1880	230	397	616
2290	1880	410	398	616
2250	1880	370	399	616
1800	1880	-80	399	617
1760	1880	-120	399	618
2410	1880	530	400	618
1780	1880	-100	400	619
2510	1880	630	401	619
2460	1880	580	402	619
2570	1880	690	403	619
1780	1880	-100	403	620
1720	1880	-160	403	621
1580	1880	-300	403	622
1580	1880	-300	403	623
1400	1880	-480	403	624
2020	2010	10	404	624
1670	2010	-340	404	625
1940	2010	-70	404	626
1790	2010	-220	404	627
1900	2010	-110	404	628
1700	2010	-310	404	629

1800	2010	-210	404	630
1800	2010	-210	404	631
1300	2010	-710	404	632
1300	2010	-710	404	633
1400	2010	-610	404	634
1500	2010	-510	404	635
1300	2010	-710	404	636
1800	2010	-210	404	637
2000	2010	-10	404	638
1400	2010	-610	404	639
2280	2010	270	405	639
1260	2010	-750	405	640
1890	2010	-120	405	641
1780	2010	-230	405	642
1080	2010	-930	405	643
2110	2010	100	406	643
2290	2010	280	407	643
2250	2010	240	408	643
1800	2010	-210	408	644
1760	2010	-250	408	645
2410	2010	400	409	645
1780	2010	-230	409	646
2510	2010	500	410	646
2460	2010	450	411	646
2570	2010	560	412	646
1780	2010	-230	412	647
1720	2010	-290	412	648
1580	2010	-430	412	649
1580	2010	-430	412	650
1400	2010	-610	412	651
1670	2020	-350	412	652
1940	2020	-80	412	653
1790	2020	-230	412	654
1900	2020	-120	412	655
1700	2020	-320	412	656
1800	2020	-220	412	657
1800	2020	-220	412	658
1300	2020	-720	412	659
1300	2020	-720	412	660
1400	2020	-620	412	661
1500	2020	-520	412	662
1300	2020	-720	412	663
1800	2020	-220	412	664
2000	2020	-20	412	665
1400	2020	-620	412	666
2280	2020	260	413	666
1260	2020	-760	413	667
1890	2020	-130	413	668
1780	2020	-240	413	669
1080	2020	-940	413	670
2110	2020	90	414	670
2290	2020	270	415	670
2250	2020	230	416	670
1800	2020	-220	416	671
1760	2020	-260	416	672
2410	2020	390	417	672

1780	2020	-240	417	673
2510	2020	490	418	673
2460	2020	440	419	673
2570	2020	550	420	673
1780	2020	-240	420	674
1720	2020	-300	420	675
1580	2020	-440	420	676
1580	2020	-440	420	677
1400	2020	-620	420	678
1940	1670	270	421	678
1790	1670	120	422	678
1900	1670	230	423	678
1700	1670	30	424	678
1800	1670	130	425	678
1800	1670	130	426	678
1300	1670	-370	426	679
1300	1670	-370	426	680
1400	1670	-270	426	681
1500	1670	-170	426	682
1300	1670	-370	426	683
1800	1670	130	427	683
2000	1670	330	428	683
1400	1670	-270	428	684
2280	1670	610	429	684
1260	1670	-410	429	685
1890	1670	220	430	685
1780	1670	110	431	685
1080	1670	-590	431	686
2110	1670	440	432	686
2290	1670	620	433	686
2250	1670	580	434	686
1800	1670	130	435	686
1760	1670	90	436	686
2410	1670	740	437	686
1780	1670	110	438	686
2510	1670	840	439	686
2460	1670	790	440	686
2570	1670	900	441	686
1780	1670	110	442	686
1720	1670	50	443	686
1580	1670	-90	443	687
1580	1670	-90	443	688
1400	1670	-270	443	689
1790	1940	-150	443	690
1900	1940	-40	443	691
1700	1940	-240	443	692
1800	1940	-140	443	693
1800	1940	-140	443	694
1300	1940	-640	443	695
1300	1940	-640	443	696
1400	1940	-540	443	697
1500	1940	-440	443	698
1300	1940	-640	443	699
1800	1940	-140	443	700
2000	1940	60	444	700

1400	1940	-540	444	701
2280	1940	340	445	701
1260	1940	-680	445	702
1890	1940	-50	445	703
1780	1940	-160	445	704
1080	1940	-860	445	705
2110	1940	170	446	705
2290	1940	350	447	705
2250	1940	310	448	705
1800	1940	-140	448	706
1760	1940	-180	448	707
2410	1940	470	449	707
1780	1940	-160	449	708
2510	1940	570	450	708
2460	1940	520	451	708
2570	1940	630	452	708
1780	1940	-160	452	709
1720	1940	-220	452	710
1580	1940	-360	452	711
1580	1940	-360	452	712
1400	1940	-540	452	713
1900	1790	110	453	713
1700	1790	-90	453	714
1800	1790	10	454	714
1800	1790	10	455	714
1300	1790	-490	455	715
1300	1790	-490	455	716
1400	1790	-390	455	717
1500	1790	-290	455	718
1300	1790	-490	455	719
1800	1790	10	456	719
2000	1790	210	457	719
1400	1790	-390	457	720
2280	1790	490	458	720
1260	1790	-530	458	721
1890	1790	100	459	721
1780	1790	-10	459	722
1080	1790	-710	459	723
2110	1790	320	460	723
2290	1790	500	461	723
2250	1790	460	462	723
1800	1790	10	463	723
1760	1790	-30	463	724
2410	1790	620	464	724
1780	1790	-10	464	725
2510	1790	720	465	725
2460	1790	670	466	725
2570	1790	780	467	725
1780	1790	-10	467	726
1720	1790	-70	467	727
1580	1790	-210	467	728
1580	1790	-210	467	729
1400	1790	-390	467	730
1700	1900	-200	467	731
1800	1900	-100	467	732

1800	1900	-100	467	733
1300	1900	-600	467	734
1300	1900	-600	467	735
1400	1900	-500	467	736
1500	1900	-400	467	737
1300	1900	-600	467	738
1800	1900	-100	467	739
2000	1900	100	468	739
1400	1900	-500	468	740
2280	1900	380	469	740
1260	1900	-640	469	741
1890	1900	-10	469	742
1780	1900	-120	469	743
1080	1900	-820	469	744
2110	1900	210	470	744
2290	1900	390	471	744
2250	1900	350	472	744
1800	1900	-100	472	745
1760	1900	-140	472	746
2410	1900	510	473	746
1780	1900	-120	473	747
2510	1900	610	474	747
2460	1900	560	475	747
2570	1900	670	476	747
1780	1900	-120	476	748
1720	1900	-180	476	749
1580	1900	-320	476	750
1580	1900	-320	476	751
1400	1900	-500	476	752
1800	1700	100	477	752
1800	1700	100	478	752
1300	1700	-400	478	753
1300	1700	-400	478	754
1400	1700	-300	478	755
1500	1700	-200	478	756
1300	1700	-400	478	757
1800	1700	100	479	757
2000	1700	300	480	757
1400	1700	-300	480	758
2280	1700	580	481	758
1260	1700	-440	481	759
1890	1700	190	482	759
1780	1700	80	483	759
1080	1700	-620	483	760
2110	1700	410	484	760
2290	1700	590	485	760
2250	1700	550	486	760
1800	1700	100	487	760
1760	1700	60	488	760
2410	1700	710	489	760
1780	1700	80	490	760
2510	1700	810	491	760
2460	1700	760	492	760
2570	1700	870	493	760
1780	1700	80	494	760
1720	1700	20	495	760

1580	1700	-120	495	761
1580	1700	-120	495	762
1400	1700	-300	495	763
1800	1800	0	495	763
1300	1800	-500	495	764
1300	1800	-500	495	765
1400	1800	-400	495	766
1500	1800	-300	495	767
1300	1800	-500	495	768
1800	1800	0	495	768
2000	1800	200	496	768
1400	1800	-400	496	769
2280	1800	480	497	769
1260	1800	-540	497	770
1890	1800	90	498	770
1780	1800	-20	498	771
1080	1800	-720	498	772
2110	1800	310	499	772
2290	1800	490	500	772
2250	1800	450	501	772
1800	1800	0	501	772
1760	1800	-40	501	773
2410	1800	610	502	773
1780	1800	-20	502	774
2510	1800	710	503	774
2460	1800	660	504	774
2570	1800	770	505	774
1780	1800	-20	505	775
1720	1800	-80	505	776
1580	1800	-220	505	777
1580	1800	-220	505	778
1400	1800	-400	505	779
1300	1800	-500	505	780
1300	1800	-500	505	781
1400	1800	-400	505	782
1500	1800	-300	505	783
1300	1800	-500	505	784
1800	1800	0	505	784
2000	1800	200	506	784
1400	1800	-400	506	785
2280	1800	480	507	785
1260	1800	-540	507	786
1890	1800	90	508	786
1780	1800	-20	508	787
1080	1800	-720	508	788
2110	1800	310	509	788
2290	1800	490	510	788
2250	1800	450	511	788
1800	1800	0	511	788
1760	1800	-40	511	789
2410	1800	610	512	789
1780	1800	-20	512	790
2510	1800	710	513	790
2460	1800	660	514	790
2570	1800	770	515	790

1780	1800	-20	515	791
1720	1800	-80	515	792
1580	1800	-220	515	793
1580	1800	-220	515	794
1400	1800	-400	515	795

1300	1300	0	515	795
1400	1300	100	516	795
1500	1300	200	517	795
1300	1300	0	517	795
1800	1300	500	518	795
2000	1300	700	519	795
1400	1300	100	520	795
2280	1300	980	521	795
1260	1300	-40	521	796
1890	1300	590	522	796
1780	1300	480	523	796
1080	1300	-220	523	797
2110	1300	810	524	797
2290	1300	990	525	797
2250	1300	950	526	797
1800	1300	500	527	797
1760	1300	460	528	797
2410	1300	1110	529	797
1780	1300	480	530	797
2510	1300	1210	531	797
2460	1300	1160	532	797
2570	1300	1270	533	797
1780	1300	480	534	797
1720	1300	420	535	797
1580	1300	280	536	797
1580	1300	280	537	797
1400	1300	100	538	797

1400	1300	100	539	797
1500	1300	200	540	797
1300	1300	0	540	797
1800	1300	500	541	797
2000	1300	700	542	797
1400	1300	100	543	797
2280	1300	980	544	797
1260	1300	-40	544	798
1890	1300	590	545	798
1780	1300	480	546	798
1080	1300	-220	546	799
2110	1300	810	547	799
2290	1300	990	548	799
2250	1300	950	549	799
1800	1300	500	550	799
1760	1300	460	551	799
2410	1300	1110	552	799
1780	1300	480	553	799
2510	1300	1210	554	799
2460	1300	1160	555	799
2570	1300	1270	556	799
1780	1300	480	557	799
1720	1300	420	558	799

1580	1300	280	559	799
1580	1300	280	560	799
1400	1300	100	561	799

1500	1400	100	562	799
1300	1400	-100	562	800
1800	1400	400	563	800
2000	1400	600	564	800
1400	1400	0	564	800
2280	1400	880	565	800
1260	1400	-140	565	801
1890	1400	490	566	801
1780	1400	380	567	801
1080	1400	-320	567	802
2110	1400	710	568	802
2290	1400	890	569	802
2250	1400	850	570	802
1800	1400	400	571	802
1760	1400	360	572	802
2410	1400	1010	573	802
1780	1400	380	574	802
2510	1400	1110	575	802
2460	1400	1060	576	802
2570	1400	1170	577	802
1780	1400	380	578	802
1720	1400	320	579	802
1580	1400	180	580	802
1580	1400	180	581	802
1400	1400	0	581	802

1300	1500	-200	581	803
1800	1500	300	582	803
2000	1500	500	583	803
1400	1500	-100	583	804
2280	1500	780	584	804
1260	1500	-240	584	805
1890	1500	390	585	805
1780	1500	280	586	805
1080	1500	-420	586	806
2110	1500	610	587	806
2290	1500	790	588	806
2250	1500	750	589	806
1800	1500	300	590	806
1760	1500	260	591	806
2410	1500	910	592	806
1780	1500	280	593	806
2510	1500	1010	594	806
2460	1500	960	595	806
2570	1500	1070	596	806
1780	1500	280	597	806
1720	1500	220	598	806
1580	1500	80	599	806
1580	1500	80	600	806
1400	1500	-100	600	807

1800	1300	500	601	807
2000	1300	700	602	807

1400	1300	100	603	807
2280	1300	980	604	807
1260	1300	-40	604	808
1890	1300	590	605	808
1780	1300	480	606	808
1080	1300	-220	606	809
2110	1300	810	607	809
2290	1300	990	608	809
2250	1300	950	609	809
1800	1300	500	610	809
1760	1300	460	611	809
2410	1300	1110	612	809
1780	1300	480	613	809
2510	1300	1210	614	809
2460	1300	1160	615	809
2570	1300	1270	616	809
1780	1300	480	617	809
1720	1300	420	618	809
1580	1300	280	619	809
1580	1300	280	620	809
1400	1300	100	621	809

2000	1800	200	622	809
1400	1800	-400	622	810
2280	1800	480	623	810
1260	1800	-540	623	811
1890	1800	90	624	811
1780	1800	-20	624	812
1080	1800	-720	624	813
2110	1800	310	625	813
2290	1800	490	626	813
2250	1800	450	627	813
1800	1800	0	627	813
1760	1800	-40	627	814
2410	1800	610	628	814
1780	1800	-20	628	815
2510	1800	710	629	815
2460	1800	660	630	815
2570	1800	770	631	815
1780	1800	-20	631	816
1720	1800	-80	631	817
1580	1800	-220	631	818
1580	1800	-220	631	819
1400	1800	-400	631	820

1400	2000	-600	631	821
2280	2000	280	632	821
1260	2000	-740	632	822
1890	2000	-110	632	823
1780	2000	-220	632	824
1080	2000	-920	632	825
2110	2000	110	633	825
2290	2000	290	634	825
2250	2000	250	635	825
1800	2000	-200	635	826
1760	2000	-240	635	827
2410	2000	410	636	827

1780	2000	-220	636	828
2510	2000	510	637	828
2460	2000	460	638	828
2570	2000	570	639	828
1780	2000	-220	639	829
1720	2000	-280	639	830
1580	2000	-420	639	831
1580	2000	-420	639	832
1400	2000	-600	639	833

2280	1400	880	640	833
1260	1400	-140	640	834
1890	1400	490	641	834
1780	1400	380	642	834
1080	1400	-320	642	835
2110	1400	710	643	835
2290	1400	890	644	835
2250	1400	850	645	835
1800	1400	400	646	835
1760	1400	360	647	835
2410	1400	1010	648	835
1780	1400	380	649	835
2510	1400	1110	650	835
2460	1400	1060	651	835
2570	1400	1170	652	835
1780	1400	380	653	835
1720	1400	320	654	835
1580	1400	180	655	835
1580	1400	180	656	835
1400	1400	0	656	835

1260	2280	-1020	656	836
1890	2280	-390	656	837
1780	2280	-500	656	838
1080	2280	-1200	656	839
2110	2280	-170	656	840
2290	2280	10	657	840
2250	2280	-30	657	841
1800	2280	-480	657	842
1760	2280	-520	657	843
2410	2280	130	658	843
1780	2280	-500	658	844
2510	2280	230	659	844
2460	2280	180	660	844
2570	2280	290	661	844
1780	2280	-500	661	845
1720	2280	-560	661	846
1580	2280	-700	661	847
1580	2280	-700	661	848
1400	2280	-880	661	849

1890	1260	630	662	849
1780	1260	520	663	849
1080	1260	-180	663	850
2110	1260	850	664	850
2290	1260	1030	665	850
2250	1260	990	666	850

1800	1260	540	667	850
1760	1260	500	668	850
2410	1260	1150	669	850
1780	1260	520	670	850
2510	1260	1250	671	850
2460	1260	1200	672	850
2570	1260	1310	673	850
1780	1260	520	674	850
1720	1260	460	675	850
1580	1260	320	676	850
1580	1260	320	677	850
1400	1260	140	678	850

1780	1890	-110	678	851
1080	1890	-810	678	852
2110	1890	220	679	852
2290	1890	400	680	852
2250	1890	360	681	852
1800	1890	-90	681	853
1760	1890	-130	681	854
2410	1890	520	682	854
1780	1890	-110	682	855
2510	1890	620	683	855
2460	1890	570	684	855
2570	1890	680	685	855
1780	1890	-110	685	856
1720	1890	-170	685	857
1580	1890	-310	685	858
1580	1890	-310	685	859
1400	1890	-490	685	860

1080	1780	-700	685	861
2110	1780	330	686	861
2290	1780	510	687	861
2250	1780	470	688	861
1800	1780	20	689	861
1760	1780	-20	689	862
2410	1780	630	690	862
1780	1780	0	690	862
2510	1780	730	691	862
2460	1780	680	692	862
2570	1780	790	693	862
1780	1780	0	693	862
1720	1780	-60	693	863
1580	1780	-200	693	864
1580	1780	-200	693	865
1400	1780	-380	693	866

2110	1080	1030	694	866
2290	1080	1210	695	866
2250	1080	1170	696	866
1800	1080	720	697	866
1760	1080	680	698	866
2410	1080	1330	699	866
1780	1080	700	700	866
2510	1080	1430	701	866
2460	1080	1380	702	866

2570	1080	1490	703	866
1780	1080	700	704	866
1720	1080	640	705	866
1580	1080	500	706	866
1580	1080	500	707	866
1400	1080	320	708	866
2290	2110	180	709	866
2250	2110	140	710	866
1800	2110	-310	710	867
1760	2110	-350	710	868
2410	2110	300	711	868
1780	2110	-330	711	869
2510	2110	400	712	869
2460	2110	350	713	869
2570	2110	460	714	869
1780	2110	-330	714	870
1720	2110	-390	714	871
1580	2110	-530	714	872
1580	2110	-530	714	873
1400	2110	-710	714	874
2250	2290	-40	714	875
1800	2290	-490	714	876
1760	2290	-530	714	877
2410	2290	120	715	877
1780	2290	-510	715	878
2510	2290	220	716	878
2460	2290	170	717	878
2570	2290	280	718	878
1780	2290	-510	718	879
1720	2290	-570	718	880
1580	2290	-710	718	881
1580	2290	-710	718	882
1400	2290	-890	718	883
1800	2250	-450	718	884
1760	2250	-490	718	885
2410	2250	160	719	885
1780	2250	-470	719	886
2510	2250	260	720	886
2460	2250	210	721	886
2570	2250	320	722	886
1780	2250	-470	722	887
1720	2250	-530	722	888
1580	2250	-670	722	889
1580	2250	-670	722	890
1400	2250	-850	722	891
1760	1800	-40	722	892
2410	1800	610	723	892
1780	1800	-20	723	893
2510	1800	710	724	893
2460	1800	660	725	893
2570	1800	770	726	893
1780	1800	-20	726	894
1720	1800	-80	726	895

1580	1800	-220	726	896
1580	1800	-220	726	897
1400	1800	-400	726	898
2410	1760	650	727	898
1780	1760	20	728	898
2510	1760	750	729	898
2460	1760	700	730	898
2570	1760	810	731	898
1780	1760	20	732	898
1720	1760	-40	732	899
1580	1760	-180	732	900
1580	1760	-180	732	901
1400	1760	-360	732	902
1780	2410	-630	732	903
2510	2410	100	733	903
2460	2410	50	734	903
2570	2410	160	735	903
1780	2410	-630	735	904
1720	2410	-690	735	905
1580	2410	-830	735	906
1580	2410	-830	735	907
1400	2410	-1010	735	908
2510	1780	730	736	908
2460	1780	680	737	908
2570	1780	790	738	908
1780	1780	0	738	908
1720	1780	-60	738	909
1580	1780	-200	738	910
1580	1780	-200	738	911
1400	1780	-380	738	912
2460	2510	-50	738	913
2570	2510	60	739	913
1780	2510	-730	739	914
1720	2510	-790	739	915
1580	2510	-930	739	916
1580	2510	-930	739	917
1400	2510	-1110	739	918
2570	2460	110	740	918
1780	2460	-680	740	919
1720	2460	-740	740	920
1580	2460	-880	740	921
1580	2460	-880	740	922
1400	2460	-1060	740	923
1780	2570	-790	740	924
1720	2570	-850	740	925
1580	2570	-990	740	926
1580	2570	-990	740	927
1400	2570	-1170	740	928
1720	1780	-60	740	929
1580	1780	-200	740	930

1580	1780	-200	740	931
1400	1780	-380	740	932
1580	1720	-140	740	933
1580	1720	-140	740	934
1400	1720	-320	740	935
1580	1580	0	740	935
1400	1580	-180	740	936
1400	1580	-180	740	937

S Statistic = 740 - 937 = -197

Tied Group	**Value**	**Members**
1	1720	2
2	1820	2
3	1940	3
4	1800	5
5	1880	4
6	1950	2
7	1900	2
8	1740	2
9	1300	3
10	1400	3
11	1780	3
12	1580	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1
7/26/2012	1

8/15/2012	1
9/11/2012	1
10/18/2012	1
11/14/2012	1
12/5/2012	1
1/29/2013	1
4/17/2013	1
7/29/2013	1
10/30/2013	1
1/31/2014	1
4/18/2014	1
7/17/2014	1
10/23/2014	1
1/27/2015	1
4/13/2015	1
7/21/2015	1
10/20/2015	1
1/27/2016	1
4/26/2016	1
7/26/2016	1
10/31/2016	1
1/30/2017	1
4/27/2017	1
7/24/2017	1
10/27/2017	1
1/29/2018	1
4/12/2018	1
7/24/2018	1
10/29/2018	1
1/30/2019	1
4/29/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 828
B = 0
C = 108
D = 0
E = 68
F = 0
a = 420906
b = 1.75549e+006
c = 6844
Group Variance = 23337.7
Z-Score = -1.283
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.283| <= 2.32634 indicating no evidence of a trend

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids

Location: MW-6

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1840	2290	-450	0	1
1780	2290	-510	0	2
2820	2290	530	1	2
1770	2290	-520	1	3
1960	2290	-330	1	4
1900	2290	-390	1	5
1880	2290	-410	1	6
2000	2290	-290	1	7
1920	2290	-370	1	8
1930	2290	-360	1	9
1940	2290	-350	1	10
1820	2290	-470	1	11
1910	2290	-380	1	12
2170	2290	-120	1	13
2010	2290	-280	1	14
1920	2290	-370	1	15
1850	2290	-440	1	16
1770	2290	-520	1	17
1950	2290	-340	1	18
2030	2290	-260	1	19
1950	2290	-340	1	20
2050	2290	-240	1	21
2020	2290	-270	1	22
1830	2290	-460	1	23
1920	2290	-370	1	24
1920	2290	-370	1	25
1900	2290	-390	1	26
1700	2290	-590	1	27
1800	2290	-490	1	28
1900	2290	-390	1	29
1300	2290	-990	1	30
1400	2290	-890	1	31
1400	2290	-890	1	32
1400	2290	-890	1	33
1200	2290	-1090	1	34
1900	2290	-390	1	35
2000	2290	-290	1	36
1500	2290	-790	1	37
6160	2290	3870	2	37
1200	2290	-1090	2	38
1850	2290	-440	2	39
1800	2290	-490	2	40
1130	2290	-1160	2	41
2250	2290	-40	2	42
2200	2290	-90	2	43
2340	2290	50	3	43
1700	2290	-590	3	44

1780	2290	-510	3	45
2350	2290	60	4	45
1800	2290	-490	4	46
2510	2290	220	5	46
2510	2290	220	6	46
2540	2290	250	7	46
1840	2290	-450	7	47
1720	2290	-570	7	48
1560	2290	-730	7	49
1570	2290	-720	7	50
1540	2290	-750	7	51
1780	1840	-60	7	52
2820	1840	980	8	52
1770	1840	-70	8	53
1960	1840	120	9	53
1900	1840	60	10	53
1880	1840	40	11	53
2000	1840	160	12	53
1920	1840	80	13	53
1930	1840	90	14	53
1940	1840	100	15	53
1820	1840	-20	15	54
1910	1840	70	16	54
2170	1840	330	17	54
2010	1840	170	18	54
1920	1840	80	19	54
1850	1840	10	20	54
1770	1840	-70	20	55
1950	1840	110	21	55
2030	1840	190	22	55
1950	1840	110	23	55
2050	1840	210	24	55
2020	1840	180	25	55
1830	1840	-10	25	56
1920	1840	80	26	56
1920	1840	80	27	56
1900	1840	60	28	56
1700	1840	-140	28	57
1800	1840	-40	28	58
1900	1840	60	29	58
1300	1840	-540	29	59
1400	1840	-440	29	60
1400	1840	-440	29	61
1400	1840	-440	29	62
1200	1840	-640	29	63
1900	1840	60	30	63
2000	1840	160	31	63
1500	1840	-340	31	64
6160	1840	4320	32	64
1200	1840	-640	32	65
1850	1840	10	33	65
1800	1840	-40	33	66
1130	1840	-710	33	67
2250	1840	410	34	67
2200	1840	360	35	67
2340	1840	500	36	67

1700	1840	-140	36	68
1780	1840	-60	36	69
2350	1840	510	37	69
1800	1840	-40	37	70
2510	1840	670	38	70
2510	1840	670	39	70
2540	1840	700	40	70
1840	1840	0	40	70
1720	1840	-120	40	71
1560	1840	-280	40	72
1570	1840	-270	40	73
1540	1840	-300	40	74
2820	1780	1040	41	74
1770	1780	-10	41	75
1960	1780	180	42	75
1900	1780	120	43	75
1880	1780	100	44	75
2000	1780	220	45	75
1920	1780	140	46	75
1930	1780	150	47	75
1940	1780	160	48	75
1820	1780	40	49	75
1910	1780	130	50	75
2170	1780	390	51	75
2010	1780	230	52	75
1920	1780	140	53	75
1850	1780	70	54	75
1770	1780	-10	54	76
1950	1780	170	55	76
2030	1780	250	56	76
1950	1780	170	57	76
2050	1780	270	58	76
2020	1780	240	59	76
1830	1780	50	60	76
1920	1780	140	61	76
1920	1780	140	62	76
1900	1780	120	63	76
1700	1780	-80	63	77
1800	1780	20	64	77
1900	1780	120	65	77
1300	1780	-480	65	78
1400	1780	-380	65	79
1400	1780	-380	65	80
1400	1780	-380	65	81
1200	1780	-580	65	82
1900	1780	120	66	82
2000	1780	220	67	82
1500	1780	-280	67	83
6160	1780	4380	68	83
1200	1780	-580	68	84
1850	1780	70	69	84
1800	1780	20	70	84
1130	1780	-650	70	85
2250	1780	470	71	85
2200	1780	420	72	85
2340	1780	560	73	85

1700	1780	-80	73	86
1780	1780	0	73	86
2350	1780	570	74	86
1800	1780	20	75	86
2510	1780	730	76	86
2510	1780	730	77	86
2540	1780	760	78	86
1840	1780	60	79	86
1720	1780	-60	79	87
1560	1780	-220	79	88
1570	1780	-210	79	89
1540	1780	-240	79	90
1770	2820	-1050	79	91
1960	2820	-860	79	92
1900	2820	-920	79	93
1880	2820	-940	79	94
2000	2820	-820	79	95
1920	2820	-900	79	96
1930	2820	-890	79	97
1940	2820	-880	79	98
1820	2820	-1000	79	99
1910	2820	-910	79	100
2170	2820	-650	79	101
2010	2820	-810	79	102
1920	2820	-900	79	103
1850	2820	-970	79	104
1770	2820	-1050	79	105
1950	2820	-870	79	106
2030	2820	-790	79	107
1950	2820	-870	79	108
2050	2820	-770	79	109
2020	2820	-800	79	110
1830	2820	-990	79	111
1920	2820	-900	79	112
1920	2820	-900	79	113
1900	2820	-920	79	114
1700	2820	-1120	79	115
1800	2820	-1020	79	116
1900	2820	-920	79	117
1300	2820	-1520	79	118
1400	2820	-1420	79	119
1400	2820	-1420	79	120
1400	2820	-1420	79	121
1200	2820	-1620	79	122
1900	2820	-920	79	123
2000	2820	-820	79	124
1500	2820	-1320	79	125
6160	2820	3340	80	125
1200	2820	-1620	80	126
1850	2820	-970	80	127
1800	2820	-1020	80	128
1130	2820	-1690	80	129
2250	2820	-570	80	130
2200	2820	-620	80	131
2340	2820	-480	80	132
1700	2820	-1120	80	133

1780	2820	-1040	80	134
2350	2820	-470	80	135
1800	2820	-1020	80	136
2510	2820	-310	80	137
2510	2820	-310	80	138
2540	2820	-280	80	139
1840	2820	-980	80	140
1720	2820	-1100	80	141
1560	2820	-1260	80	142
1570	2820	-1250	80	143
1540	2820	-1280	80	144
1960	1770	190	81	144
1900	1770	130	82	144
1880	1770	110	83	144
2000	1770	230	84	144
1920	1770	150	85	144
1930	1770	160	86	144
1940	1770	170	87	144
1820	1770	50	88	144
1910	1770	140	89	144
2170	1770	400	90	144
2010	1770	240	91	144
1920	1770	150	92	144
1850	1770	80	93	144
1770	1770	0	93	144
1950	1770	180	94	144
2030	1770	260	95	144
1950	1770	180	96	144
2050	1770	280	97	144
2020	1770	250	98	144
1830	1770	60	99	144
1920	1770	150	100	144
1920	1770	150	101	144
1900	1770	130	102	144
1700	1770	-70	102	145
1800	1770	30	103	145
1900	1770	130	104	145
1300	1770	-470	104	146
1400	1770	-370	104	147
1400	1770	-370	104	148
1400	1770	-370	104	149
1200	1770	-570	104	150
1900	1770	130	105	150
2000	1770	230	106	150
1500	1770	-270	106	151
6160	1770	4390	107	151
1200	1770	-570	107	152
1850	1770	80	108	152
1800	1770	30	109	152
1130	1770	-640	109	153
2250	1770	480	110	153
2200	1770	430	111	153
2340	1770	570	112	153
1700	1770	-70	112	154
1780	1770	10	113	154
2350	1770	580	114	154

1800	1770	30	115	154
2510	1770	740	116	154
2510	1770	740	117	154
2540	1770	770	118	154
1840	1770	70	119	154
1720	1770	-50	119	155
1560	1770	-210	119	156
1570	1770	-200	119	157
1540	1770	-230	119	158
1900	1960	-60	119	159
1880	1960	-80	119	160
2000	1960	40	120	160
1920	1960	-40	120	161
1930	1960	-30	120	162
1940	1960	-20	120	163
1820	1960	-140	120	164
1910	1960	-50	120	165
2170	1960	210	121	165
2010	1960	50	122	165
1920	1960	-40	122	166
1850	1960	-110	122	167
1770	1960	-190	122	168
1950	1960	-10	122	169
2030	1960	70	123	169
1950	1960	-10	123	170
2050	1960	90	124	170
2020	1960	60	125	170
1830	1960	-130	125	171
1920	1960	-40	125	172
1920	1960	-40	125	173
1900	1960	-60	125	174
1700	1960	-260	125	175
1800	1960	-160	125	176
1900	1960	-60	125	177
1300	1960	-660	125	178
1400	1960	-560	125	179
1400	1960	-560	125	180
1400	1960	-560	125	181
1200	1960	-760	125	182
1900	1960	-60	125	183
2000	1960	40	126	183
1500	1960	-460	126	184
6160	1960	4200	127	184
1200	1960	-760	127	185
1850	1960	-110	127	186
1800	1960	-160	127	187
1130	1960	-830	127	188
2250	1960	290	128	188
2200	1960	240	129	188
2340	1960	380	130	188
1700	1960	-260	130	189
1780	1960	-180	130	190
2350	1960	390	131	190
1800	1960	-160	131	191
2510	1960	550	132	191
2510	1960	550	133	191

2540	1960	580	134	191
1840	1960	-120	134	192
1720	1960	-240	134	193
1560	1960	-400	134	194
1570	1960	-390	134	195
1540	1960	-420	134	196

1880	1900	-20	134	197
2000	1900	100	135	197
1920	1900	20	136	197
1930	1900	30	137	197
1940	1900	40	138	197
1820	1900	-80	138	198
1910	1900	10	139	198
2170	1900	270	140	198
2010	1900	110	141	198
1920	1900	20	142	198
1850	1900	-50	142	199
1770	1900	-130	142	200
1950	1900	50	143	200
2030	1900	130	144	200
1950	1900	50	145	200
2050	1900	150	146	200
2020	1900	120	147	200
1830	1900	-70	147	201
1920	1900	20	148	201
1920	1900	20	149	201
1900	1900	0	149	201
1700	1900	-200	149	202
1800	1900	-100	149	203
1900	1900	0	149	203
1300	1900	-600	149	204
1400	1900	-500	149	205
1400	1900	-500	149	206
1400	1900	-500	149	207
1200	1900	-700	149	208
1900	1900	0	149	208
2000	1900	100	150	208
1500	1900	-400	150	209
6160	1900	4260	151	209
1200	1900	-700	151	210
1850	1900	-50	151	211
1800	1900	-100	151	212
1130	1900	-770	151	213
2250	1900	350	152	213
2200	1900	300	153	213
2340	1900	440	154	213
1700	1900	-200	154	214
1780	1900	-120	154	215
2350	1900	450	155	215
1800	1900	-100	155	216
2510	1900	610	156	216
2510	1900	610	157	216
2540	1900	640	158	216
1840	1900	-60	158	217
1720	1900	-180	158	218
1560	1900	-340	158	219

1570	1900	-330	158	220
1540	1900	-360	158	221

2000	1880	120	159	221
1920	1880	40	160	221
1930	1880	50	161	221
1940	1880	60	162	221
1820	1880	-60	162	222
1910	1880	30	163	222
2170	1880	290	164	222
2010	1880	130	165	222
1920	1880	40	166	222
1850	1880	-30	166	223
1770	1880	-110	166	224
1950	1880	70	167	224
2030	1880	150	168	224
1950	1880	70	169	224
2050	1880	170	170	224
2020	1880	140	171	224
1830	1880	-50	171	225
1920	1880	40	172	225
1920	1880	40	173	225
1900	1880	20	174	225
1700	1880	-180	174	226
1800	1880	-80	174	227
1900	1880	20	175	227
1300	1880	-580	175	228
1400	1880	-480	175	229
1400	1880	-480	175	230
1400	1880	-480	175	231
1200	1880	-680	175	232
1900	1880	20	176	232
2000	1880	120	177	232
1500	1880	-380	177	233
6160	1880	4280	178	233
1200	1880	-680	178	234
1850	1880	-30	178	235
1800	1880	-80	178	236
1130	1880	-750	178	237
2250	1880	370	179	237
2200	1880	320	180	237
2340	1880	460	181	237
1700	1880	-180	181	238
1780	1880	-100	181	239
2350	1880	470	182	239
1800	1880	-80	182	240
2510	1880	630	183	240
2510	1880	630	184	240
2540	1880	660	185	240
1840	1880	-40	185	241
1720	1880	-160	185	242
1560	1880	-320	185	243
1570	1880	-310	185	244
1540	1880	-340	185	245

1920	2000	-80	185	246
1930	2000	-70	185	247

1940	2000	-60	185	248
1820	2000	-180	185	249
1910	2000	-90	185	250
2170	2000	170	186	250
2010	2000	10	187	250
1920	2000	-80	187	251
1850	2000	-150	187	252
1770	2000	-230	187	253
1950	2000	-50	187	254
2030	2000	30	188	254
1950	2000	-50	188	255
2050	2000	50	189	255
2020	2000	20	190	255
1830	2000	-170	190	256
1920	2000	-80	190	257
1920	2000	-80	190	258
1900	2000	-100	190	259
1700	2000	-300	190	260
1800	2000	-200	190	261
1900	2000	-100	190	262
1300	2000	-700	190	263
1400	2000	-600	190	264
1400	2000	-600	190	265
1400	2000	-600	190	266
1200	2000	-800	190	267
1900	2000	-100	190	268
2000	2000	0	190	268
1500	2000	-500	190	269
6160	2000	4160	191	269
1200	2000	-800	191	270
1850	2000	-150	191	271
1800	2000	-200	191	272
1130	2000	-870	191	273
2250	2000	250	192	273
2200	2000	200	193	273
2340	2000	340	194	273
1700	2000	-300	194	274
1780	2000	-220	194	275
2350	2000	350	195	275
1800	2000	-200	195	276
2510	2000	510	196	276
2510	2000	510	197	276
2540	2000	540	198	276
1840	2000	-160	198	277
1720	2000	-280	198	278
1560	2000	-440	198	279
1570	2000	-430	198	280
1540	2000	-460	198	281
1930	1920	10	199	281
1940	1920	20	200	281
1820	1920	-100	200	282
1910	1920	-10	200	283
2170	1920	250	201	283
2010	1920	90	202	283
1920	1920	0	202	283
1850	1920	-70	202	284

1770	1920	-150	202	285
1950	1920	30	203	285
2030	1920	110	204	285
1950	1920	30	205	285
2050	1920	130	206	285
2020	1920	100	207	285
1830	1920	-90	207	286
1920	1920	0	207	286
1920	1920	0	207	286
1900	1920	-20	207	287
1700	1920	-220	207	288
1800	1920	-120	207	289
1900	1920	-20	207	290
1300	1920	-620	207	291
1400	1920	-520	207	292
1400	1920	-520	207	293
1400	1920	-520	207	294
1200	1920	-720	207	295
1900	1920	-20	207	296
2000	1920	80	208	296
1500	1920	-420	208	297
6160	1920	4240	209	297
1200	1920	-720	209	298
1850	1920	-70	209	299
1800	1920	-120	209	300
1130	1920	-790	209	301
2250	1920	330	210	301
2200	1920	280	211	301
2340	1920	420	212	301
1700	1920	-220	212	302
1780	1920	-140	212	303
2350	1920	430	213	303
1800	1920	-120	213	304
2510	1920	590	214	304
2510	1920	590	215	304
2540	1920	620	216	304
1840	1920	-80	216	305
1720	1920	-200	216	306
1560	1920	-360	216	307
1570	1920	-350	216	308
1540	1920	-380	216	309
1940	1930	10	217	309
1820	1930	-110	217	310
1910	1930	-20	217	311
2170	1930	240	218	311
2010	1930	80	219	311
1920	1930	-10	219	312
1850	1930	-80	219	313
1770	1930	-160	219	314
1950	1930	20	220	314
2030	1930	100	221	314
1950	1930	20	222	314
2050	1930	120	223	314
2020	1930	90	224	314
1830	1930	-100	224	315
1920	1930	-10	224	316

1920	1930	-10	224	317
1900	1930	-30	224	318
1700	1930	-230	224	319
1800	1930	-130	224	320
1900	1930	-30	224	321
1300	1930	-630	224	322
1400	1930	-530	224	323
1400	1930	-530	224	324
1400	1930	-530	224	325
1200	1930	-730	224	326
1900	1930	-30	224	327
2000	1930	70	225	327
1500	1930	-430	225	328
6160	1930	4230	226	328
1200	1930	-730	226	329
1850	1930	-80	226	330
1800	1930	-130	226	331
1130	1930	-800	226	332
2250	1930	320	227	332
2200	1930	270	228	332
2340	1930	410	229	332
1700	1930	-230	229	333
1780	1930	-150	229	334
2350	1930	420	230	334
1800	1930	-130	230	335
2510	1930	580	231	335
2510	1930	580	232	335
2540	1930	610	233	335
1840	1930	-90	233	336
1720	1930	-210	233	337
1560	1930	-370	233	338
1570	1930	-360	233	339
1540	1930	-390	233	340
1820	1940	-120	233	341
1910	1940	-30	233	342
2170	1940	230	234	342
2010	1940	70	235	342
1920	1940	-20	235	343
1850	1940	-90	235	344
1770	1940	-170	235	345
1950	1940	10	236	345
2030	1940	90	237	345
1950	1940	10	238	345
2050	1940	110	239	345
2020	1940	80	240	345
1830	1940	-110	240	346
1920	1940	-20	240	347
1920	1940	-20	240	348
1900	1940	-40	240	349
1700	1940	-240	240	350
1800	1940	-140	240	351
1900	1940	-40	240	352
1300	1940	-640	240	353
1400	1940	-540	240	354
1400	1940	-540	240	355
1400	1940	-540	240	356

1200	1940	-740	240	357
1900	1940	-40	240	358
2000	1940	60	241	358
1500	1940	-440	241	359
6160	1940	4220	242	359
1200	1940	-740	242	360
1850	1940	-90	242	361
1800	1940	-140	242	362
1130	1940	-810	242	363
2250	1940	310	243	363
2200	1940	260	244	363
2340	1940	400	245	363
1700	1940	-240	245	364
1780	1940	-160	245	365
2350	1940	410	246	365
1800	1940	-140	246	366
2510	1940	570	247	366
2510	1940	570	248	366
2540	1940	600	249	366
1840	1940	-100	249	367
1720	1940	-220	249	368
1560	1940	-380	249	369
1570	1940	-370	249	370
1540	1940	-400	249	371

1910	1820	90	250	371
2170	1820	350	251	371
2010	1820	190	252	371
1920	1820	100	253	371
1850	1820	30	254	371
1770	1820	-50	254	372
1950	1820	130	255	372
2030	1820	210	256	372
1950	1820	130	257	372
2050	1820	230	258	372
2020	1820	200	259	372
1830	1820	10	260	372
1920	1820	100	261	372
1920	1820	100	262	372
1900	1820	80	263	372
1700	1820	-120	263	373
1800	1820	-20	263	374
1900	1820	80	264	374
1300	1820	-520	264	375
1400	1820	-420	264	376
1400	1820	-420	264	377
1400	1820	-420	264	378
1200	1820	-620	264	379
1900	1820	80	265	379
2000	1820	180	266	379
1500	1820	-320	266	380
6160	1820	4340	267	380
1200	1820	-620	267	381
1850	1820	30	268	381
1800	1820	-20	268	382
1130	1820	-690	268	383
2250	1820	430	269	383

2200	1820	380	270	383
2340	1820	520	271	383
1700	1820	-120	271	384
1780	1820	-40	271	385
2350	1820	530	272	385
1800	1820	-20	272	386
2510	1820	690	273	386
2510	1820	690	274	386
2540	1820	720	275	386
1840	1820	20	276	386
1720	1820	-100	276	387
1560	1820	-260	276	388
1570	1820	-250	276	389
1540	1820	-280	276	390
2170	1910	260	277	390
2010	1910	100	278	390
1920	1910	10	279	390
1850	1910	-60	279	391
1770	1910	-140	279	392
1950	1910	40	280	392
2030	1910	120	281	392
1950	1910	40	282	392
2050	1910	140	283	392
2020	1910	110	284	392
1830	1910	-80	284	393
1920	1910	10	285	393
1920	1910	10	286	393
1900	1910	-10	286	394
1700	1910	-210	286	395
1800	1910	-110	286	396
1900	1910	-10	286	397
1300	1910	-610	286	398
1400	1910	-510	286	399
1400	1910	-510	286	400
1400	1910	-510	286	401
1200	1910	-710	286	402
1900	1910	-10	286	403
2000	1910	90	287	403
1500	1910	-410	287	404
6160	1910	4250	288	404
1200	1910	-710	288	405
1850	1910	-60	288	406
1800	1910	-110	288	407
1130	1910	-780	288	408
2250	1910	340	289	408
2200	1910	290	290	408
2340	1910	430	291	408
1700	1910	-210	291	409
1780	1910	-130	291	410
2350	1910	440	292	410
1800	1910	-110	292	411
2510	1910	600	293	411
2510	1910	600	294	411
2540	1910	630	295	411
1840	1910	-70	295	412
1720	1910	-190	295	413

1560	1910	-350	295	414
1570	1910	-340	295	415
1540	1910	-370	295	416
2010	2170	-160	295	417
1920	2170	-250	295	418
1850	2170	-320	295	419
1770	2170	-400	295	420
1950	2170	-220	295	421
2030	2170	-140	295	422
1950	2170	-220	295	423
2050	2170	-120	295	424
2020	2170	-150	295	425
1830	2170	-340	295	426
1920	2170	-250	295	427
1920	2170	-250	295	428
1900	2170	-270	295	429
1700	2170	-470	295	430
1800	2170	-370	295	431
1900	2170	-270	295	432
1300	2170	-870	295	433
1400	2170	-770	295	434
1400	2170	-770	295	435
1400	2170	-770	295	436
1200	2170	-970	295	437
1900	2170	-270	295	438
2000	2170	-170	295	439
1500	2170	-670	295	440
6160	2170	3990	296	440
1200	2170	-970	296	441
1850	2170	-320	296	442
1800	2170	-370	296	443
1130	2170	-1040	296	444
2250	2170	80	297	444
2200	2170	30	298	444
2340	2170	170	299	444
1700	2170	-470	299	445
1780	2170	-390	299	446
2350	2170	180	300	446
1800	2170	-370	300	447
2510	2170	340	301	447
2510	2170	340	302	447
2540	2170	370	303	447
1840	2170	-330	303	448
1720	2170	-450	303	449
1560	2170	-610	303	450
1570	2170	-600	303	451
1540	2170	-630	303	452
1920	2010	-90	303	453
1850	2010	-160	303	454
1770	2010	-240	303	455
1950	2010	-60	303	456
2030	2010	20	304	456
1950	2010	-60	304	457
2050	2010	40	305	457
2020	2010	10	306	457

1830	2010	-180	306	458
1920	2010	-90	306	459
1920	2010	-90	306	460
1900	2010	-110	306	461
1700	2010	-310	306	462
1800	2010	-210	306	463
1900	2010	-110	306	464
1300	2010	-710	306	465
1400	2010	-610	306	466
1400	2010	-610	306	467
1400	2010	-610	306	468
1200	2010	-810	306	469
1900	2010	-110	306	470
2000	2010	-10	306	471
1500	2010	-510	306	472
6160	2010	4150	307	472
1200	2010	-810	307	473
1850	2010	-160	307	474
1800	2010	-210	307	475
1130	2010	-880	307	476
2250	2010	240	308	476
2200	2010	190	309	476
2340	2010	330	310	476
1700	2010	-310	310	477
1780	2010	-230	310	478
2350	2010	340	311	478
1800	2010	-210	311	479
2510	2010	500	312	479
2510	2010	500	313	479
2540	2010	530	314	479
1840	2010	-170	314	480
1720	2010	-290	314	481
1560	2010	-450	314	482
1570	2010	-440	314	483
1540	2010	-470	314	484

1850	1920	-70	314	485
1770	1920	-150	314	486
1950	1920	30	315	486
2030	1920	110	316	486
1950	1920	30	317	486
2050	1920	130	318	486
2020	1920	100	319	486
1830	1920	-90	319	487
1920	1920	0	319	487
1920	1920	0	319	487
1900	1920	-20	319	488
1700	1920	-220	319	489
1800	1920	-120	319	490
1900	1920	-20	319	491
1300	1920	-620	319	492
1400	1920	-520	319	493
1400	1920	-520	319	494
1400	1920	-520	319	495
1200	1920	-720	319	496
1900	1920	-20	319	497
2000	1920	80	320	497

1500	1920	-420	320	498
6160	1920	4240	321	498
1200	1920	-720	321	499
1850	1920	-70	321	500
1800	1920	-120	321	501
1130	1920	-790	321	502
2250	1920	330	322	502
2200	1920	280	323	502
2340	1920	420	324	502
1700	1920	-220	324	503
1780	1920	-140	324	504
2350	1920	430	325	504
1800	1920	-120	325	505
2510	1920	590	326	505
2510	1920	590	327	505
2540	1920	620	328	505
1840	1920	-80	328	506
1720	1920	-200	328	507
1560	1920	-360	328	508
1570	1920	-350	328	509
1540	1920	-380	328	510
1770	1850	-80	328	511
1950	1850	100	329	511
2030	1850	180	330	511
1950	1850	100	331	511
2050	1850	200	332	511
2020	1850	170	333	511
1830	1850	-20	333	512
1920	1850	70	334	512
1920	1850	70	335	512
1900	1850	50	336	512
1700	1850	-150	336	513
1800	1850	-50	336	514
1900	1850	50	337	514
1300	1850	-550	337	515
1400	1850	-450	337	516
1400	1850	-450	337	517
1400	1850	-450	337	518
1200	1850	-650	337	519
1900	1850	50	338	519
2000	1850	150	339	519
1500	1850	-350	339	520
6160	1850	4310	340	520
1200	1850	-650	340	521
1850	1850	0	340	521
1800	1850	-50	340	522
1130	1850	-720	340	523
2250	1850	400	341	523
2200	1850	350	342	523
2340	1850	490	343	523
1700	1850	-150	343	524
1780	1850	-70	343	525
2350	1850	500	344	525
1800	1850	-50	344	526
2510	1850	660	345	526
2510	1850	660	346	526

2540	1850	690	347	526
1840	1850	-10	347	527
1720	1850	-130	347	528
1560	1850	-290	347	529
1570	1850	-280	347	530
1540	1850	-310	347	531
1950	1770	180	348	531
2030	1770	260	349	531
1950	1770	180	350	531
2050	1770	280	351	531
2020	1770	250	352	531
1830	1770	60	353	531
1920	1770	150	354	531
1920	1770	150	355	531
1900	1770	130	356	531
1700	1770	-70	356	532
1800	1770	30	357	532
1900	1770	130	358	532
1300	1770	-470	358	533
1400	1770	-370	358	534
1400	1770	-370	358	535
1400	1770	-370	358	536
1200	1770	-570	358	537
1900	1770	130	359	537
2000	1770	230	360	537
1500	1770	-270	360	538
6160	1770	4390	361	538
1200	1770	-570	361	539
1850	1770	80	362	539
1800	1770	30	363	539
1130	1770	-640	363	540
2250	1770	480	364	540
2200	1770	430	365	540
2340	1770	570	366	540
1700	1770	-70	366	541
1780	1770	10	367	541
2350	1770	580	368	541
1800	1770	30	369	541
2510	1770	740	370	541
2510	1770	740	371	541
2540	1770	770	372	541
1840	1770	70	373	541
1720	1770	-50	373	542
1560	1770	-210	373	543
1570	1770	-200	373	544
1540	1770	-230	373	545
2030	1950	80	374	545
1950	1950	0	374	545
2050	1950	100	375	545
2020	1950	70	376	545
1830	1950	-120	376	546
1920	1950	-30	376	547
1920	1950	-30	376	548
1900	1950	-50	376	549
1700	1950	-250	376	550

1800	1950	-150	376	551
1900	1950	-50	376	552
1300	1950	-650	376	553
1400	1950	-550	376	554
1400	1950	-550	376	555
1400	1950	-550	376	556
1200	1950	-750	376	557
1900	1950	-50	376	558
2000	1950	50	377	558
1500	1950	-450	377	559
6160	1950	4210	378	559
1200	1950	-750	378	560
1850	1950	-100	378	561
1800	1950	-150	378	562
1130	1950	-820	378	563
2250	1950	300	379	563
2200	1950	250	380	563
2340	1950	390	381	563
1700	1950	-250	381	564
1780	1950	-170	381	565
2350	1950	400	382	565
1800	1950	-150	382	566
2510	1950	560	383	566
2510	1950	560	384	566
2540	1950	590	385	566
1840	1950	-110	385	567
1720	1950	-230	385	568
1560	1950	-390	385	569
1570	1950	-380	385	570
1540	1950	-410	385	571

1950	2030	-80	385	572
2050	2030	20	386	572
2020	2030	-10	386	573
1830	2030	-200	386	574
1920	2030	-110	386	575
1920	2030	-110	386	576
1900	2030	-130	386	577
1700	2030	-330	386	578
1800	2030	-230	386	579
1900	2030	-130	386	580
1300	2030	-730	386	581
1400	2030	-630	386	582
1400	2030	-630	386	583
1400	2030	-630	386	584
1200	2030	-830	386	585
1900	2030	-130	386	586
2000	2030	-30	386	587
1500	2030	-530	386	588
6160	2030	4130	387	588
1200	2030	-830	387	589
1850	2030	-180	387	590
1800	2030	-230	387	591
1130	2030	-900	387	592
2250	2030	220	388	592
2200	2030	170	389	592
2340	2030	310	390	592

1700	2030	-330	390	593
1780	2030	-250	390	594
2350	2030	320	391	594
1800	2030	-230	391	595
2510	2030	480	392	595
2510	2030	480	393	595
2540	2030	510	394	595
1840	2030	-190	394	596
1720	2030	-310	394	597
1560	2030	-470	394	598
1570	2030	-460	394	599
1540	2030	-490	394	600
2050	1950	100	395	600
2020	1950	70	396	600
1830	1950	-120	396	601
1920	1950	-30	396	602
1920	1950	-30	396	603
1900	1950	-50	396	604
1700	1950	-250	396	605
1800	1950	-150	396	606
1900	1950	-50	396	607
1300	1950	-650	396	608
1400	1950	-550	396	609
1400	1950	-550	396	610
1400	1950	-550	396	611
1200	1950	-750	396	612
1900	1950	-50	396	613
2000	1950	50	397	613
1500	1950	-450	397	614
6160	1950	4210	398	614
1200	1950	-750	398	615
1850	1950	-100	398	616
1800	1950	-150	398	617
1130	1950	-820	398	618
2250	1950	300	399	618
2200	1950	250	400	618
2340	1950	390	401	618
1700	1950	-250	401	619
1780	1950	-170	401	620
2350	1950	400	402	620
1800	1950	-150	402	621
2510	1950	560	403	621
2510	1950	560	404	621
2540	1950	590	405	621
1840	1950	-110	405	622
1720	1950	-230	405	623
1560	1950	-390	405	624
1570	1950	-380	405	625
1540	1950	-410	405	626
2020	2050	-30	405	627
1830	2050	-220	405	628
1920	2050	-130	405	629
1920	2050	-130	405	630
1900	2050	-150	405	631
1700	2050	-350	405	632

1800	2050	-250	405	633
1900	2050	-150	405	634
1300	2050	-750	405	635
1400	2050	-650	405	636
1400	2050	-650	405	637
1400	2050	-650	405	638
1200	2050	-850	405	639
1900	2050	-150	405	640
2000	2050	-50	405	641
1500	2050	-550	405	642
6160	2050	4110	406	642
1200	2050	-850	406	643
1850	2050	-200	406	644
1800	2050	-250	406	645
1130	2050	-920	406	646
2250	2050	200	407	646
2200	2050	150	408	646
2340	2050	290	409	646
1700	2050	-350	409	647
1780	2050	-270	409	648
2350	2050	300	410	648
1800	2050	-250	410	649
2510	2050	460	411	649
2510	2050	460	412	649
2540	2050	490	413	649
1840	2050	-210	413	650
1720	2050	-330	413	651
1560	2050	-490	413	652
1570	2050	-480	413	653
1540	2050	-510	413	654
1830	2020	-190	413	655
1920	2020	-100	413	656
1920	2020	-100	413	657
1900	2020	-120	413	658
1700	2020	-320	413	659
1800	2020	-220	413	660
1900	2020	-120	413	661
1300	2020	-720	413	662
1400	2020	-620	413	663
1400	2020	-620	413	664
1400	2020	-620	413	665
1200	2020	-820	413	666
1900	2020	-120	413	667
2000	2020	-20	413	668
1500	2020	-520	413	669
6160	2020	4140	414	669
1200	2020	-820	414	670
1850	2020	-170	414	671
1800	2020	-220	414	672
1130	2020	-890	414	673
2250	2020	230	415	673
2200	2020	180	416	673
2340	2020	320	417	673
1700	2020	-320	417	674
1780	2020	-240	417	675
2350	2020	330	418	675

1800	2020	-220	418	676
2510	2020	490	419	676
2510	2020	490	420	676
2540	2020	520	421	676
1840	2020	-180	421	677
1720	2020	-300	421	678
1560	2020	-460	421	679
1570	2020	-450	421	680
1540	2020	-480	421	681
1920	1830	90	422	681
1920	1830	90	423	681
1900	1830	70	424	681
1700	1830	-130	424	682
1800	1830	-30	424	683
1900	1830	70	425	683
1300	1830	-530	425	684
1400	1830	-430	425	685
1400	1830	-430	425	686
1400	1830	-430	425	687
1200	1830	-630	425	688
1900	1830	70	426	688
2000	1830	170	427	688
1500	1830	-330	427	689
6160	1830	4330	428	689
1200	1830	-630	428	690
1850	1830	20	429	690
1800	1830	-30	429	691
1130	1830	-700	429	692
2250	1830	420	430	692
2200	1830	370	431	692
2340	1830	510	432	692
1700	1830	-130	432	693
1780	1830	-50	432	694
2350	1830	520	433	694
1800	1830	-30	433	695
2510	1830	680	434	695
2510	1830	680	435	695
2540	1830	710	436	695
1840	1830	10	437	695
1720	1830	-110	437	696
1560	1830	-270	437	697
1570	1830	-260	437	698
1540	1830	-290	437	699
1920	1920	0	437	699
1900	1920	-20	437	700
1700	1920	-220	437	701
1800	1920	-120	437	702
1900	1920	-20	437	703
1300	1920	-620	437	704
1400	1920	-520	437	705
1400	1920	-520	437	706
1400	1920	-520	437	707
1200	1920	-720	437	708
1900	1920	-20	437	709
2000	1920	80	438	709

1500	1920	-420	438	710
6160	1920	4240	439	710
1200	1920	-720	439	711
1850	1920	-70	439	712
1800	1920	-120	439	713
1130	1920	-790	439	714
2250	1920	330	440	714
2200	1920	280	441	714
2340	1920	420	442	714
1700	1920	-220	442	715
1780	1920	-140	442	716
2350	1920	430	443	716
1800	1920	-120	443	717
2510	1920	590	444	717
2510	1920	590	445	717
2540	1920	620	446	717
1840	1920	-80	446	718
1720	1920	-200	446	719
1560	1920	-360	446	720
1570	1920	-350	446	721
1540	1920	-380	446	722
1900	1920	-20	446	723
1700	1920	-220	446	724
1800	1920	-120	446	725
1900	1920	-20	446	726
1300	1920	-620	446	727
1400	1920	-520	446	728
1400	1920	-520	446	729
1400	1920	-520	446	730
1200	1920	-720	446	731
1900	1920	-20	446	732
2000	1920	80	447	732
1500	1920	-420	447	733
6160	1920	4240	448	733
1200	1920	-720	448	734
1850	1920	-70	448	735
1800	1920	-120	448	736
1130	1920	-790	448	737
2250	1920	330	449	737
2200	1920	280	450	737
2340	1920	420	451	737
1700	1920	-220	451	738
1780	1920	-140	451	739
2350	1920	430	452	739
1800	1920	-120	452	740
2510	1920	590	453	740
2510	1920	590	454	740
2540	1920	620	455	740
1840	1920	-80	455	741
1720	1920	-200	455	742
1560	1920	-360	455	743
1570	1920	-350	455	744
1540	1920	-380	455	745
1700	1900	-200	455	746
1800	1900	-100	455	747

1900	1900	0	455	747
1300	1900	-600	455	748
1400	1900	-500	455	749
1400	1900	-500	455	750
1400	1900	-500	455	751
1200	1900	-700	455	752
1900	1900	0	455	752
2000	1900	100	456	752
1500	1900	-400	456	753
6160	1900	4260	457	753
1200	1900	-700	457	754
1850	1900	-50	457	755
1800	1900	-100	457	756
1130	1900	-770	457	757
2250	1900	350	458	757
2200	1900	300	459	757
2340	1900	440	460	757
1700	1900	-200	460	758
1780	1900	-120	460	759
2350	1900	450	461	759
1800	1900	-100	461	760
2510	1900	610	462	760
2510	1900	610	463	760
2540	1900	640	464	760
1840	1900	-60	464	761
1720	1900	-180	464	762
1560	1900	-340	464	763
1570	1900	-330	464	764
1540	1900	-360	464	765

1800	1700	100	465	765
1900	1700	200	466	765
1300	1700	-400	466	766
1400	1700	-300	466	767
1400	1700	-300	466	768
1400	1700	-300	466	769
1200	1700	-500	466	770
1900	1700	200	467	770
2000	1700	300	468	770
1500	1700	-200	468	771
6160	1700	4460	469	771
1200	1700	-500	469	772
1850	1700	150	470	772
1800	1700	100	471	772
1130	1700	-570	471	773
2250	1700	550	472	773
2200	1700	500	473	773
2340	1700	640	474	773
1700	1700	0	474	773
1780	1700	80	475	773
2350	1700	650	476	773
1800	1700	100	477	773
2510	1700	810	478	773
2510	1700	810	479	773
2540	1700	840	480	773
1840	1700	140	481	773
1720	1700	20	482	773

1560	1700	-140	482	774
1570	1700	-130	482	775
1540	1700	-160	482	776
1900	1800	100	483	776
1300	1800	-500	483	777
1400	1800	-400	483	778
1400	1800	-400	483	779
1400	1800	-400	483	780
1200	1800	-600	483	781
1900	1800	100	484	781
2000	1800	200	485	781
1500	1800	-300	485	782
6160	1800	4360	486	782
1200	1800	-600	486	783
1850	1800	50	487	783
1800	1800	0	487	783
1130	1800	-670	487	784
2250	1800	450	488	784
2200	1800	400	489	784
2340	1800	540	490	784
1700	1800	-100	490	785
1780	1800	-20	490	786
2350	1800	550	491	786
1800	1800	0	491	786
2510	1800	710	492	786
2510	1800	710	493	786
2540	1800	740	494	786
1840	1800	40	495	786
1720	1800	-80	495	787
1560	1800	-240	495	788
1570	1800	-230	495	789
1540	1800	-260	495	790
1300	1900	-600	495	791
1400	1900	-500	495	792
1400	1900	-500	495	793
1400	1900	-500	495	794
1200	1900	-700	495	795
1900	1900	0	495	795
2000	1900	100	496	795
1500	1900	-400	496	796
6160	1900	4260	497	796
1200	1900	-700	497	797
1850	1900	-50	497	798
1800	1900	-100	497	799
1130	1900	-770	497	800
2250	1900	350	498	800
2200	1900	300	499	800
2340	1900	440	500	800
1700	1900	-200	500	801
1780	1900	-120	500	802
2350	1900	450	501	802
1800	1900	-100	501	803
2510	1900	610	502	803
2510	1900	610	503	803
2540	1900	640	504	803

1840	1900	-60	504	804
1720	1900	-180	504	805
1560	1900	-340	504	806
1570	1900	-330	504	807
1540	1900	-360	504	808

1400	1300	100	505	808
1400	1300	100	506	808
1400	1300	100	507	808
1200	1300	-100	507	809
1900	1300	600	508	809
2000	1300	700	509	809
1500	1300	200	510	809
6160	1300	4860	511	809
1200	1300	-100	511	810
1850	1300	550	512	810
1800	1300	500	513	810
1130	1300	-170	513	811
2250	1300	950	514	811
2200	1300	900	515	811
2340	1300	1040	516	811
1700	1300	400	517	811
1780	1300	480	518	811
2350	1300	1050	519	811
1800	1300	500	520	811
2510	1300	1210	521	811
2510	1300	1210	522	811
2540	1300	1240	523	811
1840	1300	540	524	811
1720	1300	420	525	811
1560	1300	260	526	811
1570	1300	270	527	811
1540	1300	240	528	811

1400	1400	0	528	811
1400	1400	0	528	811
1200	1400	-200	528	812
1900	1400	500	529	812
2000	1400	600	530	812
1500	1400	100	531	812
6160	1400	4760	532	812
1200	1400	-200	532	813
1850	1400	450	533	813
1800	1400	400	534	813
1130	1400	-270	534	814
2250	1400	850	535	814
2200	1400	800	536	814
2340	1400	940	537	814
1700	1400	300	538	814
1780	1400	380	539	814
2350	1400	950	540	814
1800	1400	400	541	814
2510	1400	1110	542	814
2510	1400	1110	543	814
2540	1400	1140	544	814
1840	1400	440	545	814
1720	1400	320	546	814

1560	1400	160	547	814
1570	1400	170	548	814
1540	1400	140	549	814
1400	1400	0	549	814
1200	1400	-200	549	815
1900	1400	500	550	815
2000	1400	600	551	815
1500	1400	100	552	815
6160	1400	4760	553	815
1200	1400	-200	553	816
1850	1400	450	554	816
1800	1400	400	555	816
1130	1400	-270	555	817
2250	1400	850	556	817
2200	1400	800	557	817
2340	1400	940	558	817
1700	1400	300	559	817
1780	1400	380	560	817
2350	1400	950	561	817
1800	1400	400	562	817
2510	1400	1110	563	817
2510	1400	1110	564	817
2540	1400	1140	565	817
1840	1400	440	566	817
1720	1400	320	567	817
1560	1400	160	568	817
1570	1400	170	569	817
1540	1400	140	570	817
1200	1400	-200	570	818
1900	1400	500	571	818
2000	1400	600	572	818
1500	1400	100	573	818
6160	1400	4760	574	818
1200	1400	-200	574	819
1850	1400	450	575	819
1800	1400	400	576	819
1130	1400	-270	576	820
2250	1400	850	577	820
2200	1400	800	578	820
2340	1400	940	579	820
1700	1400	300	580	820
1780	1400	380	581	820
2350	1400	950	582	820
1800	1400	400	583	820
2510	1400	1110	584	820
2510	1400	1110	585	820
2540	1400	1140	586	820
1840	1400	440	587	820
1720	1400	320	588	820
1560	1400	160	589	820
1570	1400	170	590	820
1540	1400	140	591	820
1900	1200	700	592	820
2000	1200	800	593	820

1500	1200	300	594	820
6160	1200	4960	595	820
1200	1200	0	595	820
1850	1200	650	596	820
1800	1200	600	597	820
1130	1200	-70	597	821
2250	1200	1050	598	821
2200	1200	1000	599	821
2340	1200	1140	600	821
1700	1200	500	601	821
1780	1200	580	602	821
2350	1200	1150	603	821
1800	1200	600	604	821
2510	1200	1310	605	821
2510	1200	1310	606	821
2540	1200	1340	607	821
1840	1200	640	608	821
1720	1200	520	609	821
1560	1200	360	610	821
1570	1200	370	611	821
1540	1200	340	612	821

2000	1900	100	613	821
1500	1900	-400	613	822
6160	1900	4260	614	822
1200	1900	-700	614	823
1850	1900	-50	614	824
1800	1900	-100	614	825
1130	1900	-770	614	826
2250	1900	350	615	826
2200	1900	300	616	826
2340	1900	440	617	826
1700	1900	-200	617	827
1780	1900	-120	617	828
2350	1900	450	618	828
1800	1900	-100	618	829
2510	1900	610	619	829
2510	1900	610	620	829
2540	1900	640	621	829
1840	1900	-60	621	830
1720	1900	-180	621	831
1560	1900	-340	621	832
1570	1900	-330	621	833
1540	1900	-360	621	834

1500	2000	-500	621	835
6160	2000	4160	622	835
1200	2000	-800	622	836
1850	2000	-150	622	837
1800	2000	-200	622	838
1130	2000	-870	622	839
2250	2000	250	623	839
2200	2000	200	624	839
2340	2000	340	625	839
1700	2000	-300	625	840
1780	2000	-220	625	841
2350	2000	350	626	841

1800	2000	-200	626	842
2510	2000	510	627	842
2510	2000	510	628	842
2540	2000	540	629	842
1840	2000	-160	629	843
1720	2000	-280	629	844
1560	2000	-440	629	845
1570	2000	-430	629	846
1540	2000	-460	629	847
6160	1500	4660	630	847
1200	1500	-300	630	848
1850	1500	350	631	848
1800	1500	300	632	848
1130	1500	-370	632	849
2250	1500	750	633	849
2200	1500	700	634	849
2340	1500	840	635	849
1700	1500	200	636	849
1780	1500	280	637	849
2350	1500	850	638	849
1800	1500	300	639	849
2510	1500	1010	640	849
2510	1500	1010	641	849
2540	1500	1040	642	849
1840	1500	340	643	849
1720	1500	220	644	849
1560	1500	60	645	849
1570	1500	70	646	849
1540	1500	40	647	849
1200	6160	-4960	647	850
1850	6160	-4310	647	851
1800	6160	-4360	647	852
1130	6160	-5030	647	853
2250	6160	-3910	647	854
2200	6160	-3960	647	855
2340	6160	-3820	647	856
1700	6160	-4460	647	857
1780	6160	-4380	647	858
2350	6160	-3810	647	859
1800	6160	-4360	647	860
2510	6160	-3650	647	861
2510	6160	-3650	647	862
2540	6160	-3620	647	863
1840	6160	-4320	647	864
1720	6160	-4440	647	865
1560	6160	-4600	647	866
1570	6160	-4590	647	867
1540	6160	-4620	647	868
1850	1200	650	648	868
1800	1200	600	649	868
1130	1200	-70	649	869
2250	1200	1050	650	869
2200	1200	1000	651	869
2340	1200	1140	652	869

1700	1200	500	653	869
1780	1200	580	654	869
2350	1200	1150	655	869
1800	1200	600	656	869
2510	1200	1310	657	869
2510	1200	1310	658	869
2540	1200	1340	659	869
1840	1200	640	660	869
1720	1200	520	661	869
1560	1200	360	662	869
1570	1200	370	663	869
1540	1200	340	664	869

1800	1850	-50	664	870
1130	1850	-720	664	871
2250	1850	400	665	871
2200	1850	350	666	871
2340	1850	490	667	871
1700	1850	-150	667	872
1780	1850	-70	667	873
2350	1850	500	668	873
1800	1850	-50	668	874
2510	1850	660	669	874
2510	1850	660	670	874
2540	1850	690	671	874
1840	1850	-10	671	875
1720	1850	-130	671	876
1560	1850	-290	671	877
1570	1850	-280	671	878
1540	1850	-310	671	879

1130	1800	-670	671	880
2250	1800	450	672	880
2200	1800	400	673	880
2340	1800	540	674	880
1700	1800	-100	674	881
1780	1800	-20	674	882
2350	1800	550	675	882
1800	1800	0	675	882
2510	1800	710	676	882
2510	1800	710	677	882
2540	1800	740	678	882
1840	1800	40	679	882
1720	1800	-80	679	883
1560	1800	-240	679	884
1570	1800	-230	679	885
1540	1800	-260	679	886

2250	1130	1120	680	886
2200	1130	1070	681	886
2340	1130	1210	682	886
1700	1130	570	683	886
1780	1130	650	684	886
2350	1130	1220	685	886
1800	1130	670	686	886
2510	1130	1380	687	886
2510	1130	1380	688	886

2540	1130	1410	689	886
1840	1130	710	690	886
1720	1130	590	691	886
1560	1130	430	692	886
1570	1130	440	693	886
1540	1130	410	694	886
2200	2250	-50	694	887
2340	2250	90	695	887
1700	2250	-550	695	888
1780	2250	-470	695	889
2350	2250	100	696	889
1800	2250	-450	696	890
2510	2250	260	697	890
2510	2250	260	698	890
2540	2250	290	699	890
1840	2250	-410	699	891
1720	2250	-530	699	892
1560	2250	-690	699	893
1570	2250	-680	699	894
1540	2250	-710	699	895
2340	2200	140	700	895
1700	2200	-500	700	896
1780	2200	-420	700	897
2350	2200	150	701	897
1800	2200	-400	701	898
2510	2200	310	702	898
2510	2200	310	703	898
2540	2200	340	704	898
1840	2200	-360	704	899
1720	2200	-480	704	900
1560	2200	-640	704	901
1570	2200	-630	704	902
1540	2200	-660	704	903
1700	2340	-640	704	904
1780	2340	-560	704	905
2350	2340	10	705	905
1800	2340	-540	705	906
2510	2340	170	706	906
2510	2340	170	707	906
2540	2340	200	708	906
1840	2340	-500	708	907
1720	2340	-620	708	908
1560	2340	-780	708	909
1570	2340	-770	708	910
1540	2340	-800	708	911
1780	1700	80	709	911
2350	1700	650	710	911
1800	1700	100	711	911
2510	1700	810	712	911
2510	1700	810	713	911
2540	1700	840	714	911
1840	1700	140	715	911
1720	1700	20	716	911

1560	1700	-140	716	912
1570	1700	-130	716	913
1540	1700	-160	716	914
2350	1780	570	717	914
1800	1780	20	718	914
2510	1780	730	719	914
2510	1780	730	720	914
2540	1780	760	721	914
1840	1780	60	722	914
1720	1780	-60	722	915
1560	1780	-220	722	916
1570	1780	-210	722	917
1540	1780	-240	722	918
1800	2350	-550	722	919
2510	2350	160	723	919
2510	2350	160	724	919
2540	2350	190	725	919
1840	2350	-510	725	920
1720	2350	-630	725	921
1560	2350	-790	725	922
1570	2350	-780	725	923
1540	2350	-810	725	924
2510	1800	710	726	924
2510	1800	710	727	924
2540	1800	740	728	924
1840	1800	40	729	924
1720	1800	-80	729	925
1560	1800	-240	729	926
1570	1800	-230	729	927
1540	1800	-260	729	928
2510	2510	0	729	928
2540	2510	30	730	928
1840	2510	-670	730	929
1720	2510	-790	730	930
1560	2510	-950	730	931
1570	2510	-940	730	932
1540	2510	-970	730	933
2540	2510	30	731	933
1840	2510	-670	731	934
1720	2510	-790	731	935
1560	2510	-950	731	936
1570	2510	-940	731	937
1540	2510	-970	731	938
1840	2540	-700	731	939
1720	2540	-820	731	940
1560	2540	-980	731	941
1570	2540	-970	731	942
1540	2540	-1000	731	943
1720	1840	-120	731	944
1560	1840	-280	731	945

1570	1840	-270	731	946
1540	1840	-300	731	947
1560	1720	-160	731	948
1570	1720	-150	731	949
1540	1720	-180	731	950
1570	1560	10	732	950
1540	1560	-20	732	951
1540	1570	-30	732	952

S Statistic = 732 - 952 = -220

Tied Group	**Value**	**Members**
1	1840	2
2	1780	2
3	1770	2
4	1900	4
5	2000	2
6	1920	4
7	1850	2
8	1950	2
9	1700	2
10	1800	3
11	1400	3
12	1200	2
13	2510	2

Time Period	**Observations**
11/24/2009	1
1/27/2010	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
11/16/2010	1
12/27/2010	1
1/14/2011	1
2/11/2011	1
3/23/2011	1
4/21/2011	1
5/16/2011	1
6/9/2011	1
7/21/2011	1
8/8/2011	1
9/12/2011	1
10/31/2011	1
11/15/2011	1
12/6/2011	1
1/13/2012	1
2/21/2012	1
3/20/2012	1
4/27/2012	1
5/24/2012	1
6/15/2012	1

```
7/26/2012                    1
8/15/2012                    1
9/11/2012                    1
10/18/2012                   1
11/14/2012                   1
12/5/2012                    1
1/29/2013                    1
4/17/2013                    1
7/29/2013                    1
10/30/2013                   1
1/31/2014                    1
4/18/2014                    1
7/17/2014                    1
10/23/2014                   1
1/27/2015                    1
4/13/2015                    1
7/21/2015                    1
10/20/2015                   1
1/27/2016                    1
4/26/2016                    1
7/26/2016                    1
10/31/2016                   1
1/30/2017                    1
4/27/2017                    1
7/24/2017                    1
10/27/2017                   1
1/29/2018                    1
4/12/2018                    1
7/24/2018                    1
10/29/2018                   1
1/30/2019                    1
4/29/2019                    1
7/29/2019                    1
There are 0 time periods with multiple data
```

```
A = 606
B = 0
C = 60
D = 0
E = 54
F = 0
a = 420906
b = 1.75549e+006
c = 6844
Group Variance = 23350
Z-Score = -1.43318
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.43318| <= 2.32634 indicating no evidence of a trend
```

Mann-Kendall Trend Analysis

Parameter: Total Dissolved Solids
Location: MW-7

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

98% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
1740	2360	-620	0	1
5820	2360	3460	1	1
2090	2360	-270	1	2
1940	2360	-420	1	3
1860	2360	-500	1	4
1820	2360	-540	1	5
2040	2360	-320	1	6
1820	2360	-540	1	7
1980	2360	-380	1	8
2070	2360	-290	1	9
2120	2360	-240	1	10
1900	2360	-460	1	11
1400	2360	-960	1	12
1500	2360	-860	1	13
2000	2360	-360	1	14
1400	2360	-960	1	15
1190	2360	-1170	1	16
2270	2360	-90	1	17
2630	2360	270	2	17
1730	2360	-630	2	18
1800	2360	-560	2	19
2610	2360	250	3	19
1850	2360	-510	3	20
1640	2360	-720	3	21
1590	2360	-770	3	22
5820	1740	4080	4	22
2090	1740	350	5	22
1940	1740	200	6	22
1860	1740	120	7	22
1820	1740	80	8	22
2040	1740	300	9	22
1820	1740	80	10	22
1980	1740	240	11	22
2070	1740	330	12	22
2120	1740	380	13	22
1900	1740	160	14	22
1400	1740	-340	14	23
1500	1740	-240	14	24
2000	1740	260	15	24
1400	1740	-340	15	25
1190	1740	-550	15	26
2270	1740	530	16	26
2630	1740	890	17	26
1730	1740	-10	17	27
1800	1740	60	18	27
2610	1740	870	19	27

1850	1740	110	20	27
1640	1740	-100	20	28
1590	1740	-150	20	29
2090	5820	-3730	20	30
1940	5820	-3880	20	31
1860	5820	-3960	20	32
1820	5820	-4000	20	33
2040	5820	-3780	20	34
1820	5820	-4000	20	35
1980	5820	-3840	20	36
2070	5820	-3750	20	37
2120	5820	-3700	20	38
1900	5820	-3920	20	39
1400	5820	-4420	20	40
1500	5820	-4320	20	41
2000	5820	-3820	20	42
1400	5820	-4420	20	43
1190	5820	-4630	20	44
2270	5820	-3550	20	45
2630	5820	-3190	20	46
1730	5820	-4090	20	47
1800	5820	-4020	20	48
2610	5820	-3210	20	49
1850	5820	-3970	20	50
1640	5820	-4180	20	51
1590	5820	-4230	20	52
1940	2090	-150	20	53
1860	2090	-230	20	54
1820	2090	-270	20	55
2040	2090	-50	20	56
1820	2090	-270	20	57
1980	2090	-110	20	58
2070	2090	-20	20	59
2120	2090	30	21	59
1900	2090	-190	21	60
1400	2090	-690	21	61
1500	2090	-590	21	62
2000	2090	-90	21	63
1400	2090	-690	21	64
1190	2090	-900	21	65
2270	2090	180	22	65
2630	2090	540	23	65
1730	2090	-360	23	66
1800	2090	-290	23	67
2610	2090	520	24	67
1850	2090	-240	24	68
1640	2090	-450	24	69
1590	2090	-500	24	70
1860	1940	-80	24	71
1820	1940	-120	24	72
2040	1940	100	25	72
1820	1940	-120	25	73
1980	1940	40	26	73
2070	1940	130	27	73

2120	1940	180	28	73
1900	1940	-40	28	74
1400	1940	-540	28	75
1500	1940	-440	28	76
2000	1940	60	29	76
1400	1940	-540	29	77
1190	1940	-750	29	78
2270	1940	330	30	78
2630	1940	690	31	78
1730	1940	-210	31	79
1800	1940	-140	31	80
2610	1940	670	32	80
1850	1940	-90	32	81
1640	1940	-300	32	82
1590	1940	-350	32	83

1820	1860	-40	32	84
2040	1860	180	33	84
1820	1860	-40	33	85
1980	1860	120	34	85
2070	1860	210	35	85
2120	1860	260	36	85
1900	1860	40	37	85
1400	1860	-460	37	86
1500	1860	-360	37	87
2000	1860	140	38	87
1400	1860	-460	38	88
1190	1860	-670	38	89
2270	1860	410	39	89
2630	1860	770	40	89
1730	1860	-130	40	90
1800	1860	-60	40	91
2610	1860	750	41	91
1850	1860	-10	41	92
1640	1860	-220	41	93
1590	1860	-270	41	94

2040	1820	220	42	94
1820	1820	0	42	94
1980	1820	160	43	94
2070	1820	250	44	94
2120	1820	300	45	94
1900	1820	80	46	94
1400	1820	-420	46	95
1500	1820	-320	46	96
2000	1820	180	47	96
1400	1820	-420	47	97
1190	1820	-630	47	98
2270	1820	450	48	98
2630	1820	810	49	98
1730	1820	-90	49	99
1800	1820	-20	49	100
2610	1820	790	50	100
1850	1820	30	51	100
1640	1820	-180	51	101
1590	1820	-230	51	102

1820	2040	-220	51	103
1980	2040	-60	51	104
2070	2040	30	52	104
2120	2040	80	53	104
1900	2040	-140	53	105
1400	2040	-640	53	106
1500	2040	-540	53	107
2000	2040	-40	53	108
1400	2040	-640	53	109
1190	2040	-850	53	110
2270	2040	230	54	110
2630	2040	590	55	110
1730	2040	-310	55	111
1800	2040	-240	55	112
2610	2040	570	56	112
1850	2040	-190	56	113
1640	2040	-400	56	114
1590	2040	-450	56	115
1980	1820	160	57	115
2070	1820	250	58	115
2120	1820	300	59	115
1900	1820	80	60	115
1400	1820	-420	60	116
1500	1820	-320	60	117
2000	1820	180	61	117
1400	1820	-420	61	118
1190	1820	-630	61	119
2270	1820	450	62	119
2630	1820	810	63	119
1730	1820	-90	63	120
1800	1820	-20	63	121
2610	1820	790	64	121
1850	1820	30	65	121
1640	1820	-180	65	122
1590	1820	-230	65	123
2070	1980	90	66	123
2120	1980	140	67	123
1900	1980	-80	67	124
1400	1980	-580	67	125
1500	1980	-480	67	126
2000	1980	20	68	126
1400	1980	-580	68	127
1190	1980	-790	68	128
2270	1980	290	69	128
2630	1980	650	70	128
1730	1980	-250	70	129
1800	1980	-180	70	130
2610	1980	630	71	130
1850	1980	-130	71	131
1640	1980	-340	71	132
1590	1980	-390	71	133
2120	2070	50	72	133
1900	2070	-170	72	134
1400	2070	-670	72	135

1500	2070	-570	72	136
2000	2070	-70	72	137
1400	2070	-670	72	138
1190	2070	-880	72	139
2270	2070	200	73	139
2630	2070	560	74	139
1730	2070	-340	74	140
1800	2070	-270	74	141
2610	2070	540	75	141
1850	2070	-220	75	142
1640	2070	-430	75	143
1590	2070	-480	75	144
1900	2120	-220	75	145
1400	2120	-720	75	146
1500	2120	-620	75	147
2000	2120	-120	75	148
1400	2120	-720	75	149
1190	2120	-930	75	150
2270	2120	150	76	150
2630	2120	510	77	150
1730	2120	-390	77	151
1800	2120	-320	77	152
2610	2120	490	78	152
1850	2120	-270	78	153
1640	2120	-480	78	154
1590	2120	-530	78	155
1400	1900	-500	78	156
1500	1900	-400	78	157
2000	1900	100	79	157
1400	1900	-500	79	158
1190	1900	-710	79	159
2270	1900	370	80	159
2630	1900	730	81	159
1730	1900	-170	81	160
1800	1900	-100	81	161
2610	1900	710	82	161
1850	1900	-50	82	162
1640	1900	-260	82	163
1590	1900	-310	82	164
1500	1400	100	83	164
2000	1400	600	84	164
1400	1400	0	84	164
1190	1400	-210	84	165
2270	1400	870	85	165
2630	1400	1230	86	165
1730	1400	330	87	165
1800	1400	400	88	165
2610	1400	1210	89	165
1850	1400	450	90	165
1640	1400	240	91	165
1590	1400	190	92	165
2000	1500	500	93	165
1400	1500	-100	93	166

1190	1500	-310	93	167
2270	1500	770	94	167
2630	1500	1130	95	167
1730	1500	230	96	167
1800	1500	300	97	167
2610	1500	1110	98	167
1850	1500	350	99	167
1640	1500	140	100	167
1590	1500	90	101	167

1400	2000	-600	101	168
1190	2000	-810	101	169
2270	2000	270	102	169
2630	2000	630	103	169
1730	2000	-270	103	170
1800	2000	-200	103	171
2610	2000	610	104	171
1850	2000	-150	104	172
1640	2000	-360	104	173
1590	2000	-410	104	174

1190	1400	-210	104	175
2270	1400	870	105	175
2630	1400	1230	106	175
1730	1400	330	107	175
1800	1400	400	108	175
2610	1400	1210	109	175
1850	1400	450	110	175
1640	1400	240	111	175
1590	1400	190	112	175

2270	1190	1080	113	175
2630	1190	1440	114	175
1730	1190	540	115	175
1800	1190	610	116	175
2610	1190	1420	117	175
1850	1190	660	118	175
1640	1190	450	119	175
1590	1190	400	120	175

2630	2270	360	121	175
1730	2270	-540	121	176
1800	2270	-470	121	177
2610	2270	340	122	177
1850	2270	-420	122	178
1640	2270	-630	122	179
1590	2270	-680	122	180

1730	2630	-900	122	181
1800	2630	-830	122	182
2610	2630	-20	122	183
1850	2630	-780	122	184
1640	2630	-990	122	185
1590	2630	-1040	122	186

1800	1730	70	123	186
2610	1730	880	124	186

1850	1730	120	125	186
1640	1730	-90	125	187
1590	1730	-140	125	188
2610	1800	810	126	188
1850	1800	50	127	188
1640	1800	-160	127	189
1590	1800	-210	127	190
1850	2610	-760	127	191
1640	2610	-970	127	192
1590	2610	-1020	127	193
1640	1850	-210	127	194
1590	1850	-260	127	195
1590	1640	-50	127	196

S Statistic = 127 - 196 = -69

Tied Group	**Value**	**Members**
1	1820	2
2	1400	2

Time Period	**Observations**
11/25/2009	1
3/4/2010	1
4/30/2010	1
7/26/2010	1
10/13/2010	1
1/14/2011	1
4/21/2011	1
7/21/2011	1
10/31/2011	1
1/13/2012	1
4/27/2012	1
7/26/2012	1
10/18/2012	1
1/29/2013	1
7/29/2013	1
1/31/2014	1
7/17/2014	1
1/27/2015	1
7/21/2015	1
7/26/2016	1
1/30/2017	1
7/24/2017	1
1/29/2018	1
7/24/2018	1
1/30/2019	1
7/29/2019	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0

D = 0
E = 4
F = 0
a = 37050
b = 140400
c = 1300
Group Variance = 2056.33
Z-Score = -1.49955
Comparison Level at 1.0 - (0.02 / 2) = 99% confidence level = 2.32634 (two-tailed)
|-1.49955| <= 2.32634 indicating no evidence of a trend