

Appendix 4: MFWF – Precipitation and Evaporation Data



Evaporation Stations

Standard daily pan evaporation is measured using the four-foot diameter Class A evaporation pan. The pan water level reading is adjusted when precipitation is measure to obtain the actual evaporation. Most Class A pans are installed above ground, allowing effects such as radiation on the side walls and heat exchnge with the pan material. These effects tend to increase the evaporation totals. The amounts can then be adjusted by multiplying the totals b 0.70 or 0.80 to more closely estimate the evaporation from naturally existing urfaces such as a shallow lake, wet soil or other moist natural surfaces.

Many stations do not measure pan evaportation during winter months. A "0.00" total indicates no measuement is taken.

Stations marked with an asterisk (*) have estimated totals computed from meteorological measurements using a form of the Penman equation.

Click on a State: [Arizona](#), [California](#), [Colorado](#), [Hawaii & Pacific Islands](#), [Idaho](#), [Montana](#), [Nevada](#), [New Mexico](#), [Oregon](#), [Utah](#), [Washington](#), [Wyoming](#)

<http://www.wrcc.dri.edu/htmlfiles/westevap.final.html>

COLORADO

MONTHLY AVERAGE PAN EVAPORATION (INCHES)

	PERIOD OF RECORD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
AKRON 4 E	1918-2005	0.00	0.00	0.00	7.30	9.29	11.43	13.26	11.16	9.09	6.16	0.00	0.00	67.69
ALAMOSA WSO AP	1948-2005	0.00	0.00	0.00	7.06	9.01	10.08	9.16	7.81	6.40	4.39	0.00	0.00	53.91
ARBOLES	1957-1963	0.00	0.00	0.00	5.41	7.95	9.56	9.78	8.61	6.52	0.00	0.00	0.00	47.83
BONNY LAKE	1949-2005	0.00	0.00	0.00	7.26	8.69	10.86	11.78	10.61	8.12	6.12	4.57	0.00	68.01
CLIMAX	1949-2005	0.00	0.00	0.00	0.00	0.00	5.36	5.32	4.44	3.41	0.00	0.00	0.00	18.53
CONEJOS 3 NNW	1948-1960	0.00	0.00	0.00	6.30	7.14	7.67	7.41	6.87	7.19	5.74	0.00	0.00	48.32
ESTES PARK	1948-1994	0.00	0.00	0.00	5.78	5.26	7.09	7.13	6.15	5.04	4.04	0.00	0.00	40.49
FORT COLLINS	1900-2005	0.00	0.00	2.50	4.52	5.42	6.32	6.92	6.07	4.74	3.07	1.48	0.00	41.04
GRAND JUNCTION WALKER	1900-2005	0.00	0.00	4.67	8.53	12.18	15.96	16.53	14.02	10.98	7.05	2.42	0.00	92.34
GRAND JUNCTION 6 ESE	1962-2005	0.00	0.00	0.00	6.60	9.29	11.77	12.01	10.24	7.48	4.65	2.09	0.00	64.13
GRAND LAKE 6 SSW	1948-2005	0.00	0.00	0.00	0.00	4.82	7.75	7.81	6.79	5.24	3.10	0.00	0.00	35.51
GREEN MOUNTAIN DAM	1948-2005	0.00	0.00	0.00	0.00	4.96	6.56	6.93	5.90	4.65	2.90	0.00	0.00	31.90
JOHN MARTIN DAM	1941-2005	0.00	0.00	6.40	8.04	9.67	11.30	12.31	10.28	7.82	5.61	2.78	0.00	74.21
LAKE GEORGE 8 SW	1948-2005	0.00	0.00	0.00	0.00	5.15	8.26	7.39	6.02	5.72	0.00	0.00	0.00	32.54
MEREDITH	1963-2005	0.00	0.00	0.00	0.00	7.69	8.26	8.34	6.96	5.25	3.21	0.00	0.00	39.71
MONTROSE 1	1948-1982	1.68	1.49	3.34	5.69	7.49	9.47	9.04	7.39	5.54	3.45	1.61	1.26	57.45
PLATORO	1949-1991	0.00	0.00	0.00	0.00	5.86	8.10	6.57	5.24	5.52	3.33	0.00	0.00	34.62
PUEBLO WSO AP	1954-2005	0.00	0.00	0.00	8.71	9.50	11.51	12.14	10.41	8.17	6.14	0.00	0.00	66.58
PUEBLO CITY RESERVOIR	1948-1971	0.00	5.13	5.86	6.85	8.81	10.09	10.60	8.85	7.43	5.30	2.99	2.71	74.62
PUEBLO RESERVOIR	1975-2005	0.00	0.00	0.00	7.18	9.34	10.87	11.58	9.92	7.90	5.88	0.00	0.00	62.67
PUEBLO 6 SSW	1971-1985	0.00	0.00	4.82	7.47	8.57	10.65	11.30	9.40	7.13	5.53	0.00	0.00	64.87
SAN LUIS LAKES 3W	1948-1955	0.00	0.00	4.50	6.07	8.51	9.88	8.49	7.77	6.57	4.53	0.00	0.00	56.32
SPRINGFIELD 7 WSW	1956-2002	0.00	0.00	0.00	7.85	9.73	11.44	12.69	11.28	8.53	6.29	4.57	0.00	72.38
SUGARLOAF RESERVOIR	1948-2005	0.00	0.00	0.00	0.00	0.00	7.03	6.15	4.97	4.15	2.93	0.00	0.00	25.23
TRINIDAD LAKE	1989-2005	0.00	0.00	0.00	6.75	9.04	10.55	9.88	8.27	7.65	6.17	3.92	2.21	64.44
TWIN LAKES RESERVOIR	1949-2005	0.00	0.00	0.00	0.00	6.93	8.65	7.92	6.79	5.33	3.96	0.00	0.00	39.58
VALLECITO DAM	1948-2005	0.00	0.00	1.91	3.82	5.29	6.22	6.09	5.31	4.39	3.04	1.60	0.00	37.67
WAGON WHEEL GAP 3 N	1948-1972	0.00	0.00	0.00	0.00	6.69	7.90	7.15	5.81	5.30	2.61	0.00	0.00	35.46
WALSH 1 W	1951-2005	0.00	0.00	0.00	0.00	10.78	12.35	12.76	11.63	9.42	6.88	0.00	0.00	63.82
WIGGINS 7 SW	1960-1971	0.00	0.00	0.00	6.82	8.50	8.42	9.97	8.09	5.87	4.22	2.23	0.00	54.12

<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?corifl>

RIFLE, COLORADO (057031)

Period of Record Monthly Climate Summary

Period of Record : 9/ 9/1910 to 12/31/2005

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	36.8	43.8	53.7	64.2	74.0	84.0	90.2	87.6	79.4	67.3	51.4	39.4	64.3
Average Min. Temperature (F)	9.4	16.5	24.2	31.4	38.7	45.2	52.0	50.4	41.4	31.1	21.3	12.4	31.2
Average Total Precipitation (in.)	0.86	0.77	0.95	1.02	1.00	0.73	1.02	1.13	1.11	1.20	0.89	0.93	11.61
Average Total SnowFall (in.)	11.1	7.7	3.7	0.8	0.0	0.0	0.0	0.0	0.0	0.5	3.8	11.1	38.6
Average Snow Depth (in.)	4	3	0	0	0	0	0	0	0	0	0	2	1

Percent of possible observations for period of record.

Max. Temp.: 92% Min. Temp.: 91.7% Precipitation: 90.7% Snowfall: 87.3% Snow Depth: 81.7%

Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu

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NOTE:
To print data frame (right side), click on right frame before printing.

1981 - 2010

- [Daily Temp. & Precip.](#)
- [Daily Tabular data \(~23 KB\)](#)
- [Monthly Tabular data \(~1 KB\)](#)
- [NCDC 1981-2010 Normals \(~3 KB\)](#)

1971 - 2000

- [Daily Temp. & Precip.](#)
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1961 - 1990

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RIFLE, COLORADO

Period of Record General Climate Summary - Precipitation

Station:(057031) RIFLE														
From Year=1910 To Year=2007														
	Precipitation											Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.	>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.		Mean	High	Year
	in.	in.	-	in.	-	in.	dd/yyyy or yyyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	0.86	2.75	1957	0.00	1919	1.30	27/1978	7	3	0	0	11.0	36.7	1988
February	0.77	2.45	1996	0.05	1972	1.05	21/1996	7	3	0	0	7.6	35.6	1989
March	0.94	3.04	1985	0.09	1915	0.92	20/1912	7	3	0	0	3.7	25.0	1985
April	1.01	3.29	1999	0.08	1982	1.10	03/1934	7	3	0	0	0.8	9.0	1945
May	1.00	3.22	1979	0.00	1936	1.41	20/1916	6	3	0	0	0.0	0.0	1912
June	0.73	3.71	1984	0.00	1916	1.98	07/1984	4	2	0	0	0.0	0.0	1912
July	1.03	2.63	1989	0.02	1960	1.40	29/1989	6	3	0	0	0.0	0.0	1912
August	1.14	4.18	1957	0.10	1975	2.15	09/1930	7	4	0	0	0.0	0.0	1912
September	1.14	3.30	1986	0.00	1956	1.76	12/1988	6	4	0	0	0.0	0.0	1911
October	1.19	3.63	1969	0.00	1934	1.36	04/1914	6	3	1	0	0.5	5.5	1972
November	0.88	3.59	1985	0.00	1976	1.21	26/1919	6	3	0	0	3.7	28.0	1985
December	0.93	4.06	1951	0.02	1976	1.42	06/1966	7	3	0	0	11.1	50.9	1983
Annual	11.61	21.76	1985	6.90	1960	2.15	19300809	76	38	4	0	38.5	104.1	1985
Winter	2.56	5.84	1979	0.54	1931	1.42	19661206	20	9	1	0	29.8	77.0	1979
Spring	2.95	7.19	1985	0.70	1936	1.41	19160520	21	10	1	0	4.5	25.0	1985
Summer	2.89	8.20	1984	0.51	1962	2.15	19300809	18	9	1	0	0.0	0.0	1912
Fall	3.21	8.28	1985	0.59	1952	1.76	19880912	18	10	1	0	4.3	28.0	1985

Table updated on Oct 31, 2012

For monthly and annual means, thresholds, and sums:

Months with 5 or more missing days are not considered

Years with 1 or more missing months are not considered

Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

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