

# SOIL ANALYSIS REPORT

<b>CLIENT:</b>	OWN RESOURCES OPERATING LLC
18250	36695 HWY 385
	PO BOX 250
	WRAY, CO 80758



1602 Park West Dr.  
PO Box 169  
Hastings, NE 68902  
800.557.7509  
402.463.3522  
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<b>LAB NO:</b>	45633 - 45637
<b>INVOICE NO:</b>	632500
<b>DATE RECEIVED:</b>	11/12/2020
<b>DATE REPORTED:</b>	11/24/2020

**SOIL ANALYSIS RESULTS FOR: OWN RESOURCES** **FIELD IDENTIFICATION: WEIGEL 29-01**

METHOD USED:			1:1 Water-Soil	1:1 Water-Soil	XSL(i)	Mehlich 3 ICP	Ammonium Acetate		Mehlich 3 ICP								
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Phosphorus ppm P	Potassium ppm K	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
45633	BACKGROUND	0 - 36	7.7		0.32	Lo			520	3818	168	158					
45634	1	0 - 36	8.5		5.21	Hi			1050	3521	172	3760					
45635	2	0 - 36	8.4		5.38	No			649	1019	103	3390					
45636	3	0 - 36	8.3		3.97	No			654	876	88	2970					
45637	4	0 - 36	8.4		3.61	No			490	647	135	3630					

METHOD USED:			Sat. Paste														Cation:Anion	
Lab Number	Sample ID	Sample Depth	Date Sampled	Saturation % Sat	Soil pH	Electrical Conductivity mmho/cm	Potassium mg/L K	Sulfur mg/L S	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Carbonate mg/L CO3	Bicarbonate mg/L HCO3	Chloride mg/L Cl	Boron mg/L B	Sodium Adsorption Ratio		
45633	BACKGROUND	0 - 36	11/03/20	56	7.26	0.71	27	4	122	10	3	<10	350	18	0.08	<0.10	7.7 / 6.5	
45634	1	0 - 36	11/03/20	51	7.28	25.0	249	22	175	55	6220	25	820	9010	9.76	105	290.1 / 271.3	
45635	2	0 - 36	11/03/20	54	7.52	17.9	71	13	75	17	4480	37	750	5590	11.9	121	201.7 / 173.9	
45636	3	0 - 36	11/03/20	52	7.45	21.1	113	14	109	19	5240	39	720	6850	8.95	122	237.7 / 208.1	
45637	4	0 - 36	11/03/20	58	7.92	18.0	46	11	53	18	4370	17	640	5400	12.9	132	195.3 / 166.9	

FERTILIZER RECOMMENDATIONS:				POUNDS ACTUAL NUTRIENT PER ACRE														Cation Exchange Capacity					
Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Zn	S	Mn	Cu	MgO	B	Ca	Cl						
				6.0	6.5	7.0												CEC	%H	%K	%Ca	%Mg	%Na
45633	BACKGROUND																	23	0	6	85	6	3
45634	1																	38	0	7	46	4	43
45635	2																	22	0	7	23	4	66
45636	3																	20	0	9	22	4	66
45637	4																	21	0	6	15	5	74

**SPECIAL COMMENTS AND SUGGESTIONS:**

Analyses are representative of the samples submitted      Samples are retained 30 days after report of analysis      Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Hans Burken *Hans Burken*  
Agronomist

Page 1 of 2  
11/24/2020 4:01 pm

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<b>LAB NO:</b>	45633 - 45637
<b>INVOICE NO:</b>	632500
<b>DATE RECEIVED:</b>	11/12/2020
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**SOIL ANALYSIS RESULTS FOR:** OWN RESOURCES **FIELD IDENTIFICATION:** WEIGEL 29-01

Lab Number(s): 45633, 45634, 45635, 45636, 45637  
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 45634  
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s): 45634  
**SOLUBLE SALTS - WARNING (3.00 to 6.00 mmho/cm):** The soluble salt level is high and indicates a moderately to strongly saline soil. Salt tolerant crops may not be affected, but reduced growth and yield of sensitive crops is expected. Please call if you wish additional salinity diagnostic tests or for additional information.

Lab Number(s): 45634  
**SODIUM - VERY HIGH (over 10% Na):** The exchangeable soil sodium (as % Na) is very high for fine-textured soils. Typical symptoms of a sodic soil are surface crusting, soil sealing, and poor water penetration. Additional soil analysis can determine the proper rate of gypsum or other soil amendment. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 45635, 45636, 45637  
**SOLUBLE SALTS - WARNING (2.70 to 6.00 mmho/cm):** The soluble salt level is high and indicates a moderately to strongly saline soil. Salt tolerant crops may not be affected, but reduced growth and yield of sensitive crops is expected. Please call if you wish additional salinity diagnostic tests or for additional information.

Lab Number(s): 45635, 45636, 45637  
**SODIUM - VERY HIGH (over 12% Na):** The exchangeable soil sodium (as % Na) is very high for medium-textured soils. Typical symptoms of a sodic soil are surface crusting, soil sealing, and poor water penetration. Additional soil analysis can determine the proper rate of gypsum or other soil amendment. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Analyses are representative of the samples submitted      Samples are retained 30 days after report of analysis      Explanations of soil analysis terms are available upon request

Reviewed and  
Approved By:

Hans Burken  
Agronomist

Page 2 of 2  
11/24/2020 4:01 pm

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Lab No.: 45633		SOIL ANALYSIS RESULTS		Date Reported: 11/24/2020	
<b>Send To:</b> 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
<b>Results For:</b>		OWN RESOURCES		<b>Invoice No.:</b> 632500	
<b>Sample Identification:</b>		BACKGROUND		<b>Date Received:</b> 11/12/2020	
<b>Sample Depth:</b> 0-36"				<b>Field ID</b> WEIGEL 29-01	
<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	3818	85	Cation Exchange Capacity, CEC meq/100g		23
Magnesium, Mg	168	6	Soil pH - 1:1		7.7
Potassium, K	520	6	Soil pH - Saturated Paste		7.3
Sodium, Na	158	3	Soluble Salts, mmho/cm		0.32
Excess Lime Rating		LOW	Exchangable Sodium Percent, ESP		3
<b>Extractable (from saturated paste, based on 56% water saturation):</b>					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		122		6.1	
Magnesium (Mg)		10		0.8	
Sodium (Na)		3		0.1	
Sulfur (S)		4		0.2	
Boron (B)		0.08			
Potassium (K)		27		0.7	
Chloride (Cl)		18		0.5	
Bicarbonate (HCO <sub>3</sub> )		350		5.7	
Carbonate (CO <sub>3</sub> )		<10		<0.3	
Sodium Adsorption Ratio (SAR) <0.10					
Electrical Conductivity (ECe), mmho/cm 0.71					
Cation:Anion 7.7 / 6.5					
Calculated Gypsum Recommendation (from ESP and CEC)					
Soil Texture			Gypsum Rec. T/A		
COARSE	(sands, loamy sands, sandy loams)		0.0	To	0.0
MEDIUM	(loams, silt loams, clay loams)		0.0	To	0.0
FINE	(silty clay, clay loams, clays)		0.0	To	0.0
This soil is considered: NON-SALINE/NON-SODIC					

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<b>Results For:</b>		OWN RESOURCES		<b>Invoice No.:</b> 632500	
<b>Sample Identification:</b>		BACKGROUND		<b>Date Received:</b> 11/12/2020	
<b>Sample Depth:</b> 0-36"				<b>Field ID</b> WEIGEL 29-01	
SOIL PERMEABILITY HAZARD (based on ESP and SAR):					
Soil texture		Potential hazard			
-----					
COARSE (sands, loamy sands, sandy loams)		LOW			
MEDIUM (loams, silt loams, clay loams)		LOW			
FINE (silty clay loams, clays)		LOW			
SOIL SALINITY HAZARD (based on extractable salts, ECe):					
Crop type		Potential hazard			
-----					
SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.) . . . . .		LOW			
MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, brome grass, etc.) . . . . .		LOW			
SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.) . . . . .		LOW			
EXTRACTABLE BORON HAZARD (based on soil extractable boron, B):					
Crop type		Potential hazard			
-----					
BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.) . . . . .		LOW			
MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.) . . . . .		LOW			
BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.) . . . . .		LOW			

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Lab No.: 45634		SOIL ANALYSIS RESULTS		Date Reported: 11/24/2020	
<b>Send To:</b> 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
<b>Results For:</b> OWN RESOURCES <b>Sample Identification:</b> 1 <b>Sample Depth:</b> 0-36"		<b>Invoice No.:</b> 632500 <b>Date Received:</b> 11/12/2020 <b>Field ID</b> WEIGEL 29-01			
<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	3521	46	Cation Exchange Capacity, CEC meq/100g		38
Magnesium, Mg	172	4	Soil pH - 1:1		8.5
Potassium, K	1050	7	Soil pH - Saturated Paste		7.3
Sodium, Na	3760	43	Soluble Salts, mmho/cm		5.21
Excess Lime Rating		HIGH	Exchangable Sodium Percent, ESP		43
<b>Extractable (from saturated paste, based on 51% water saturation):</b>					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		175		8.7	
Magnesium (Mg)		55		4.5	
Sodium (Na)		6220		270.4	
Sulfur (S)		22		1.4	
Boron (B)		9.76			
Potassium (K)		249		6.4	
Chloride (Cl)		9010		254.1	
Bicarbonate (HCO <sub>3</sub> )		820		13.4	
Carbonate (CO <sub>3</sub> )		25		0.8	
<hr/> Sodium Adsorption Ratio (SAR) 105 Electrical Conductivity (ECe), mmho/cm 25.0 Cation:Anion 290.1 / 271.3					
Calculated Gypsum Recommendation (from ESP and CEC)					
Soil Texture			Gypsum Rec. T/A		
COARSE	(sands, loamy sands, sandy loams)		22.1	To	23.7
MEDIUM	(loams, silt loams, clay loams)		26.1	To	27.8
FINE	(silty clay, clay loams, clays)		28.6	To	30.2
<hr/> This soil is considered: SALINE/SODIC					

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<b>Results For:</b>	OWN RESOURCES	<b>Invoice No.:</b>	632500											
<b>Sample Identification:</b>	1	<b>Date Received:</b>	11/12/2020											
<b>Sample Depth:</b>	0-36"	<b>Field ID</b>	WEIGEL 29-01											
<p>GYPSUM SUGGESTIONS: If soil has good internal drainage, full gypsum rate can be used to reclaim the affected area, but keep applications below 2 to 3 tons in a single year. Reclamation may not be feasible if a high water table is present, but applying 1/2 to 1 ton of gypsum every one to two years may help prevent crusting and surface "sealing".</p>														
<p>SOIL PERMEABILITY HAZARD (based on ESP and SAR):</p> <table border="1"> <thead> <tr> <th>Soil texture</th> <th>Potential hazard</th> </tr> </thead> <tbody> <tr> <td>COARSE (sands, loamy sands, sandy loams)</td> <td>CAUTION</td> </tr> <tr> <td>MEDIUM (loams, silt loams, clay loams)</td> <td>HIGH</td> </tr> <tr> <td>FINE (silty clay loams, clays)</td> <td>HIGH</td> </tr> </tbody> </table>					Soil texture	Potential hazard	COARSE (sands, loamy sands, sandy loams)	CAUTION	MEDIUM (loams, silt loams, clay loams)	HIGH	FINE (silty clay loams, clays)	HIGH		
Soil texture	Potential hazard													
COARSE (sands, loamy sands, sandy loams)	CAUTION													
MEDIUM (loams, silt loams, clay loams)	HIGH													
FINE (silty clay loams, clays)	HIGH													
<p>SOIL SALINITY: Saline soils can be managed by choosing tolerant crops, keeping the seedbed moist until crop establishment, and/or irrigating with relatively good quality irrigation water. Good internal soil drainage is needed to reclaim saline areas, so lowering water tables may be necessary. Test soil (and water) annually to monitor changes in salinity levels.</p>														
<p>SOIL SALINITY HAZARD (based on extractable salts, ECe):</p> <table border="1"> <thead> <tr> <th>Crop type</th> <th>Potential hazard</th> </tr> </thead> <tbody> <tr> <td>SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.)</td> <td>HIGH</td> </tr> <tr> <td>MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.)</td> <td>HIGH</td> </tr> <tr> <td>MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, bromegrass, etc.)</td> <td>HIGH</td> </tr> <tr> <td>SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.)</td> <td>HIGH</td> </tr> </tbody> </table>					Crop type	Potential hazard	SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.)	HIGH	MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.)	HIGH	MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, bromegrass, etc.)	HIGH	SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.)	HIGH
Crop type	Potential hazard													
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SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.)	HIGH													
<p>BORON: Excess soil boron may cause toxicity symptoms in sensitive plants. Toxicity should be verified by plant tissue analysis. If toxicity is a problem, choose boron tolerant crops and/or irrigate with relatively good quality irrigation water.</p>														
<p>EXTRACTABLE BORON HAZARD (based on soil extractable boron, B):</p> <table border="1"> <thead> <tr> <th>Crop type</th> <th>Potential hazard</th> </tr> </thead> <tbody> <tr> <td>BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.)</td> <td>HIGH</td> </tr> <tr> <td>MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.)</td> <td>HIGH</td> </tr> <tr> <td>MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.)</td> <td>HIGH</td> </tr> <tr> <td>BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.)</td> <td>HIGH</td> </tr> </tbody> </table>					Crop type	Potential hazard	BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.)	HIGH	MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.)	HIGH	MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.)	HIGH	BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.)	HIGH
Crop type	Potential hazard													
BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.)	HIGH													
MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.)	HIGH													
MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.)	HIGH													
BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.)	HIGH													

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Lab No.: 45635		SOIL ANALYSIS RESULTS		Date Reported: 11/24/2020	
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<b>Results For:</b> <b>Sample Identification:</b> <b>Sample Depth:</b>		OWN RESOURCES 2 0-36"		<b>Invoice No.:</b> 632500 <b>Date Received:</b> 11/12/2020 <b>Field ID</b> WEIGEL 29-01	
<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	1019	23	Cation Exchange Capacity, CEC meq/100g		22
Magnesium, Mg	103	4	Soil pH - 1:1		8.4
Potassium, K	649	7	Soil pH - Saturated Paste		7.5
Sodium, Na	3390	66	Soluble Salts, mmho/cm		5.38
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		66
<b>Extractable (from saturated paste, based on 54% water saturation):</b>					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		75		3.7	
Magnesium (Mg)		17		1.4	
Sodium (Na)		4480		194.8	
Sulfur (S)		13		0.8	
Boron (B)		11.9			
Potassium (K)		71		1.8	
Chloride (Cl)		5590		157.7	
Bicarbonate (HCO <sub>3</sub> )		750		12.3	
Carbonate (CO <sub>3</sub> )		37		1.2	
Sodium Adsorption Ratio (SAR) 121					
Electrical Conductivity (ECe), mmho/cm 17.9					
Cation:Anion 201.7 / 173.9					
Calculated Gypsum Recommendation (from ESP and CEC)					
Soil Texture			Gypsum Rec. T/A		
COARSE	(sands, loamy sands, sandy loams)		23.7	To	24.6
MEDIUM	(loams, silt loams, clay loams)		26.0	To	27.0
FINE	(silty clay, clay loams, clays)		27.4	To	28.4
This soil is considered: SALINE/SODIC					

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Lab No.: 45635		<b>SOIL ANALYSIS RESULTS</b>		Date Reported: 11/24/2020										
<b>Send To:</b> 18250	OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist											
<b>Results For:</b>	OWN RESOURCES	<b>Invoice No.:</b>	632500											
<b>Sample Identification:</b>	2	<b>Date Received:</b>	11/12/2020											
<b>Sample Depth:</b>	0-36"	<b>Field ID</b>	WEIGEL 29-01											
<p>GYPSUM SUGGESTIONS: If soil has good internal drainage, full gypsum rate can be used to reclaim the affected area, but keep applications below 2 to 3 tons in a single year. Reclamation may not be feasible if a high water table is present, but applying 1/2 to 1 ton of gypsum every one to two years may help prevent crusting and surface "sealing".</p>														
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Lab No.: 45636		SOIL ANALYSIS RESULTS		Date Reported: 11/24/2020	
<b>Send To:</b> 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
<b>Results For:</b> <b>Sample Identification:</b> <b>Sample Depth:</b>		OWN RESOURCES 3 0-36"		<b>Invoice No.:</b> 632500 <b>Date Received:</b> 11/12/2020 <b>Field ID</b> WEIGEL 29-01	
<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	876	22	Cation Exchange Capacity, CEC meq/100g		20
Magnesium, Mg	88	4	Soil pH - 1:1		8.3
Potassium, K	654	9	Soil pH - Saturated Paste		7.5
Sodium, Na	2970	66	Soluble Salts, mmho/cm		3.97
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		66
<b>Extractable (from saturated paste, based on 52% water saturation):</b>					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		109		5.4	
Magnesium (Mg)		19		1.6	
Sodium (Na)		5240		227.8	
Sulfur (S)		14		0.9	
Boron (B)		8.95			
Potassium (K)		113		2.9	
Chloride (Cl)		6850		193.2	
Bicarbonate (HCO <sub>3</sub> )		720		11.8	
Carbonate (CO <sub>3</sub> )		39		1.3	
Sodium Adsorption Ratio (SAR) 122					
Electrical Conductivity (ECe), mmho/cm 21.1					
Cation:Anion 237.7 / 208.1					
Calculated Gypsum Recommendation (from ESP and CEC)					
Soil Texture			Gypsum Rec. T/A		
COARSE	(sands, loamy sands, sandy loams)		21.5	To	22.4
MEDIUM	(loams, silt loams, clay loams)		23.7	To	24.5
FINE	(silty clay, clay loams, clays)		24.9	To	25.8
This soil is considered: SALINE/SODIC					

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<p>GYPSUM SUGGESTIONS: If soil has good internal drainage, full gypsum rate can be used to reclaim the affected area, but keep applications below 2 to 3 tons in a single year. Reclamation may not be feasible if a high water table is present, but applying 1/2 to 1 ton of gypsum every one to two years may help prevent crusting and surface "sealing".</p>														
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Lab No.: 45637		SOIL ANALYSIS RESULTS		Date Reported: 11/24/2020	
<b>Send To:</b> 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
<b>Results For:</b> <b>Sample Identification:</b> <b>Sample Depth:</b>		OWN RESOURCES 4 0-36"		<b>Invoice No.:</b> 632500 <b>Date Received:</b> 11/12/2020 <b>Field ID</b> WEIGEL 29-01	
<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	647	15	Cation Exchange Capacity, CEC meq/100g		21
Magnesium, Mg	135	5	Soil pH - 1:1		8.4
Potassium, K	490	6	Soil pH - Saturated Paste		7.9
Sodium, Na	3630	74	Soluble Salts, mmho/cm		3.61
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		74
<b>Extractable (from saturated paste, based on 58% water saturation):</b>					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		53		2.6	
Magnesium (Mg)		18		1.5	
Sodium (Na)		4370		190.0	
Sulfur (S)		11		0.7	
Boron (B)		12.9			
Potassium (K)		46		1.2	
Chloride (Cl)		5400		152.3	
Bicarbonate (HCO <sub>3</sub> )		640		10.5	
Carbonate (CO <sub>3</sub> )		17		0.6	
Sodium Adsorption Ratio (SAR) 132					
Electrical Conductivity (ECe), mmho/cm 18.0					
Cation:Anion 195.3 / 166.9					
Calculated Gypsum Recommendation (from ESP and CEC)					
Soil Texture			Gypsum Rec. T/A		
COARSE	(sands, loamy sands, sandy loams)		26.2	To	27.1
MEDIUM	(loams, silt loams, clay loams)		28.4	To	29.3
FINE	(silty clay, clay loams, clays)		29.8	To	30.7
This soil is considered: SALINE/SODIC					

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