



1602 Park West Dr. • PO Box 169 • Hastings, NE 68902
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Lab No.: 93131		SOIL ANALYSIS RESULTS		Date Reported: 02/01/2022	
Send To: 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
Results For: Sample Identification: Sample Depth:		OWN RESOURCES WELLHEAD 0-36"		Invoice No.: 638818 Date Received: 01/24/2022 Field ID BROPHY 01-12	
Exchangable:					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	3932	77	Cation Exchange Capacity, CEC meq/100g		25
Magnesium, Mg	415	14	Soil pH - 1:1		8.5
Potassium, K	857	9	Soil pH - Saturated Paste		8.1
Sodium, Na	27	0	Soluble Salts, mmho/cm		0.18
Excess Lime Rating		HIGH	Exchangable Sodium Percent, ESP		0
Extractable (from saturated paste, based on 34% water saturation):					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		27		1.3	
Magnesium (Mg)		12		1.0	
Sodium (Na)		5		0.2	
Sulfur (S)		6		0.4	
Boron (B)		0.12			
Potassium (K)		59		1.5	
Chloride (Cl)		8		0.2	
Bicarbonate (HCO ₃)		150		2.5	
Carbonate (CO ₃)		<10		<0.3	
Sodium Adsorption Ratio (SAR) 0.20					
Electrical Conductivity (ECe), mmho/cm 0.46					
Cation:Anion 4.1 / 3.4					
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					

The reported analytical results apply only to the sample as it was supplied.

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Results For:	OWN RESOURCES	Invoice No.:	638818	
Sample Identification:	WELLHEAD	Date Received:	01/24/2022	
Sample Depth:	0-36"	Field ID	BROPHY 01-12	
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, bromegrass, 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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Send To: 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
Results For: Sample Identification: Sample Depth:		OWN RESOURCES BACKGROUND 0-36"		Invoice No.: 638818 Date Received: 01/24/2022 Field ID BROPHY 01-12	
Exchangable:					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	5409	87	Cation Exchange Capacity, CEC meq/100g		29
Magnesium, Mg	219	6	Soil pH - 1:1		7.9
Potassium, K	735	7	Soil pH - Saturated Paste		7.6
Sodium, Na	26	0	Soluble Salts, mmho/cm		0.53
Excess Lime Rating		LOW	Exchangable Sodium Percent, ESP		0
Extractable (from saturated paste, based on 43% water saturation):					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		208		10.4	
Magnesium (Mg)		19		1.6	
Sodium (Na)		5		0.2	
Sulfur (S)		10		0.6	
Boron (B)		0.12			
Potassium (K)		63		1.6	
Chloride (Cl)		54		1.5	
Bicarbonate (HCO ₃)		430		7.0	
Carbonate (CO ₃)		<10		<0.3	
Sodium Adsorption Ratio (SAR) <0.10					
Electrical Conductivity (ECe), mmho/cm 1.37					
Cation:Anion 13.8 / 9.6					
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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Send To: 18250	OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
Results For:	OWN RESOURCES	Invoice No.:	638818	
Sample Identification:	BACKGROUND	Date Received:	01/24/2022	
Sample Depth:	0-36"	Field ID	BROPHY 01-12	
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: 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.				
SOIL SALINITY HAZARD (based on extractable salts, ECe):				
Crop type		Potential hazard		

SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.)		CAUTION		
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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