



1602 Park West Dr. • PO Box 169 • Hastings, NE 68902
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Lab No.: 88768		SOIL ANALYSIS RESULTS		Date Reported: 01/10/2022	
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 0-48"		Invoice No.: 638601 Date Received: 12/23/2021 Field ID SCHEPLER FARMS 19-03	
Exchangable:					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	679	73	Cation Exchange Capacity, CEC meq/100g		5
Magnesium, Mg	96	17	Soil pH - 1:1		7.5
Potassium, K	158	9	Soil pH - Saturated Paste		7.4
Sodium, Na	13	1	Soluble Salts, mmho/cm		0.08
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		1
Extractable (from saturated paste, based on 31% water saturation):					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		26		1.3	
Magnesium (Mg)		5		0.4	
Sodium (Na)		3		0.1	
Sulfur (S)		3		0.2	
Boron (B)		0.05			
Potassium (K)		19		0.5	
Chloride (Cl)		4		0.1	
Bicarbonate (HCO ₃)		130		2.1	
Carbonate (CO ₃)		<10		<0.3	
Sodium Adsorption Ratio (SAR) 0.14					
Electrical Conductivity (ECe), mmho/cm 0.25					
Cation:Anion 2.3 / 2.8					
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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Results For:	OWN RESOURCES	Invoice No.:	638601	
Sample Identification:	WELLHEAD	Date Received:	12/23/2021	
Sample Depth:	0-48"	Field ID	SCHEPLER FARMS 19-03	
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.: 88769		SOIL ANALYSIS RESULTS		Date Reported: 01/10/2022	
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 BACKGROUND 0-12"		Invoice No.: 638601 Date Received: 12/23/2021 Field ID SCHEPLER FARMS 19-03	
Exchangable:					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	780	76	Cation Exchange Capacity, CEC meq/100g		5
Magnesium, Mg	93	15	Soil pH - 1:1		7.9
Potassium, K	155	8	Soil pH - Saturated Paste		7.7
Sodium, Na	16	1	Soluble Salts, mmho/cm		0.09
Excess Lime Rating		NO	Exchangable Sodium Percent, ESP		1
Extractable (from saturated paste, based on 32% water saturation):					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		37		1.8	
Magnesium (Mg)		7		0.6	
Sodium (Na)		21		0.9	
Sulfur (S)		5		0.3	
Boron (B)		0.15			
Potassium (K)		15		0.4	
Chloride (Cl)		17		0.5	
Bicarbonate (HCO ₃)		150		2.5	
Carbonate (CO ₃)		<10		<0.3	
Sodium Adsorption Ratio (SAR)		0.83			
Electrical Conductivity (ECe), mmho/cm		0.37			
Cation:Anion		3.7 / 3.6			
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.:	638601	
Sample Identification:	BACKGROUND	Date Received:	12/23/2021	
Sample Depth:	0-12"	Field ID	SCHEPLER FARMS 19-03	
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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