

Ag Testing - Consulting

Account No. : 19356

Soil Analysis Report

DANIELS, JUDY
SOIL SAGE LLC
8323 DEPEW WAY
ARVADA

CO 80003

Invoice No. : 1430856
Date Received : 08/29/2024
Date Reported : 09/03/2024

Results For : CIV
Location : PAWNEE

Lab No. : 90062 Depth : 0 - 8
ID : CIV-330368-SOIL 1

1:1 Soil pH	8.8
Soluble Salts 1:1, mmho/cm	0.43
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.9
Nitrate-N KCl, ppm N	24.2
Nitrate-N, lbs N / Acre	58
Phosphorus M3, ppm P	28
Potassium NH ₄ OAc, ppm K	798
Sulfate M-3, ppm S	14.3
Zinc DTPA, ppm Zn	0.35
Iron DTPA, ppm Fe	1.1
Manganese DTPA, ppm Mn	1.7
Copper DTPA, ppm Cu	0.43
Calcium NH ₄ OAc, ppm Ca	8408
Magnesium NH ₄ OAc, ppm Mg	411
Sodium NH ₄ OAc, ppm Na	1174
Chloride Ca-NO ₃ , ppm Cl	76.0
Boron Hot Water, ppm B	5.83
Calcium Carbonate, %	2.1

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
52.6	0	4	79	7	10

Saturated Soil Paste Analysis (SAR)

Saturation, %	50
Sat Paste pH	7.6
Sat Paste ECe, mmho/cm	1.58
HCO ₃ , ppm	235
Cl, ppm	159
Ca, ppm	42
Mg, ppm	9
Na, ppm	274
S, ppm	24.5

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Sodium Adsorption Ratio 10.1

Soil Texture	Sand, %	Silt, %	Clay, %
Clay	34	22	44

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Results For : CIV
Location : PAWNEE

Lab No. : 90063 Depth : 0 - 8
ID : CIV-330502-SOIL 2

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	0.52
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.0
Nitrate-N KCl, ppm N	67.4
Nitrate-N, lbs N / Acre	162
Phosphorus M3, ppm P	32
Potassium NH ₄ OAc, ppm K	541
Sulfate M-3, ppm S	25.8
Zinc DTPA, ppm Zn	0.26
Iron DTPA, ppm Fe	2.0
Manganese DTPA, ppm Mn	2.0
Copper DTPA, ppm Cu	0.33
Calcium NH ₄ OAc, ppm Ca	7035
Magnesium NH ₄ OAc, ppm Mg	351
Sodium NH ₄ OAc, ppm Na	96
Chloride Ca-NO ₃ , ppm Cl	45.8
Boron Hot Water, ppm B	0.57
Calcium Carbonate, %	1.5

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
39.9	0	3	88	7	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	40
Sat Paste pH	7.2
Sat Paste ECe, mmho/cm	2.08
HCO ₃ , ppm	125
Cl, ppm	83
Ca, ppm	250
Mg, ppm	28
Na, ppm	86
S, ppm	33.4

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Results For : CIV
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Sodium Adsorption Ratio			1.4
Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	46	24	30

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Results For : CIV
Location : PAWNEE

Lab No. : 90064 Depth : 0 - 8
ID : CIV-330688-SOIL 3

1:1 Soil pH	7.9
Soluble Salts 1:1, mmho/cm	0.70
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.0
Nitrate-N KCl, ppm N	35.4
Nitrate-N, lbs N / Acre	85
Phosphorus M3, ppm P	87
Potassium NH ₄ OAc, ppm K	329
Sulfate M-3, ppm S	108.0
Zinc DTPA, ppm Zn	2.17
Iron DTPA, ppm Fe	5.9
Manganese DTPA, ppm Mn	2.5
Copper DTPA, ppm Cu	0.62
Calcium NH ₄ OAc, ppm Ca	7453
Magnesium NH ₄ OAc, ppm Mg	668
Sodium NH ₄ OAc, ppm Na	125
Chloride Ca-NO ₃ , ppm Cl	36.6
Boron Hot Water, ppm B	1.01
Calcium Carbonate, %	2.9

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
44.2	0	2	84	13	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	43
Sat Paste pH	7.3
Sat Paste ECe, mmho/cm	1.96
HCO ₃ , ppm	148
Cl, ppm	56
Ca, ppm	197
Mg, ppm	53
Na, ppm	85
S, ppm	143.0

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Sodium Adsorption Ratio			1.4
Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	54	18	28

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Results For : CIV
Location : PAWNEE

Lab No. : 90065 Depth : 0 - 8
ID : CIV-330782-SOIL 4

1:1 Soil pH	7.5
Soluble Salts 1:1, mmho/cm	0.36
Excess Lime Rating	LOW
Organic Matter LOI, %	1.8
Nitrate-N KCl, ppm N	46.6
Nitrate-N, lbs N / Acre	112
Phosphorus M3, ppm P	26
Potassium NH ₄ OAc, ppm K	363
Sulfate M-3, ppm S	15.2
Zinc DTPA, ppm Zn	0.33
Iron DTPA, ppm Fe	2.7
Manganese DTPA, ppm Mn	2.8
Copper DTPA, ppm Cu	0.45
Calcium NH ₄ OAc, ppm Ca	3757
Magnesium NH ₄ OAc, ppm Mg	394
Sodium NH ₄ OAc, ppm Na	54
Chloride Ca-NO ₃ , ppm Cl	16.6
Boron Hot Water, ppm B	0.35
Calcium Carbonate, %	0.1

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
23.2	0	4	81	14	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	42
Sat Paste pH	6.9
Sat Paste ECe, mmho/cm	1.43
HCO ₃ , ppm	114
Cl, ppm	30
Ca, ppm	175
Mg, ppm	24
Na, ppm	43
S, ppm	29.3

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Sodium Adsorption Ratio 0.8

Soil Texture	Sand, %	Silt, %	Clay, %
Clay Loam	44	20	36

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Results For : CIV
Location : PAWNEE

Lab No. : 90066 Depth : 0 - 8
ID : CIV-330783-SOIL 5

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	0.43
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.6
Nitrate-N KCl, ppm N	46.8
Nitrate-N, lbs N / Acre	112
Phosphorus M3, ppm P	30
Potassium NH ₄ OAc, ppm K	541
Sulfate M-3, ppm S	16.6
Zinc DTPA, ppm Zn	0.95
Iron DTPA, ppm Fe	1.2
Manganese DTPA, ppm Mn	1.8
Copper DTPA, ppm Cu	0.31
Calcium NH ₄ OAc, ppm Ca	9125
Magnesium NH ₄ OAc, ppm Mg	404
Sodium NH ₄ OAc, ppm Na	91
Chloride Ca-NO ₃ , ppm Cl	18.7
Boron Hot Water, ppm B	0.89
Calcium Carbonate, %	6.6

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
50.8	0	3	89	7	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	49
Sat Paste pH	7.4
Sat Paste ECe, mmho/cm	1.22
HCO ₃ , ppm	127
Cl, ppm	27
Ca, ppm	146
Mg, ppm	17
Na, ppm	54
S, ppm	20.0

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Results For : CIV
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Sodium Adsorption Ratio			1.1
Soil Texture	Sand, %	Silt, %	Clay, %
Clay Loam	44	18	38

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Results For : CIV
 Location : PAWNEE

Lab No. : 90067 Depth : 0 - 8
 ID : CIV-330784-SOIL 6

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	0.25
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.8
Nitrate-N KCl, ppm N	38.2
Nitrate-N, lbs N / Acre	92
Phosphorus M3, ppm P	13
Potassium NH ₄ OAc, ppm K	580
Sulfate M-3, ppm S	11.3
Zinc DTPA, ppm Zn	2.15
Iron DTPA, ppm Fe	1.1
Manganese DTPA, ppm Mn	1.0
Copper DTPA, ppm Cu	0.21
Calcium NH ₄ OAc, ppm Ca	8517
Magnesium NH ₄ OAc, ppm Mg	348
Sodium NH ₄ OAc, ppm Na	91
Chloride Ca-NO ₃ , ppm Cl	15.4
Boron Hot Water, ppm B	0.40
Calcium Carbonate, %	3.6

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
47.4	0	3	90	6	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	40
Sat Paste pH	7.5
Sat Paste ECe, mmho/cm	1.16
HCO ₃ , ppm	110
Cl, ppm	26
Ca, ppm	114
Mg, ppm	13
Na, ppm	54
S, ppm	16.0

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Sodium Adsorption Ratio			1.3
Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	54	16	30

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Results For : CIV
Location : PAWNEE

Lab No. : 90068 Depth : 0 - 8
ID : CIV-431982-SOIL 7

1:1 Soil pH	8.0
Soluble Salts 1:1, mmho/cm	0.29
Excess Lime Rating	HIGH
Organic Matter LOI, %	3.1
Nitrate-N KCl, ppm N	44.2
Nitrate-N, lbs N / Acre	106
Phosphorus M3, ppm P	20
Potassium NH ₄ OAc, ppm K	712
Sulfate M-3, ppm S	14.1
Zinc DTPA, ppm Zn	0.31
Iron DTPA, ppm Fe	1.3
Manganese DTPA, ppm Mn	1.3
Copper DTPA, ppm Cu	0.32
Calcium NH ₄ OAc, ppm Ca	6744
Magnesium NH ₄ OAc, ppm Mg	413
Sodium NH ₄ OAc, ppm Na	54
Chloride Ca-NO ₃ , ppm Cl	24.2
Boron Hot Water, ppm B	0.48
Calcium Carbonate, %	0.8

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
39.2	0	5	85	9	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	51
Sat Paste pH	7.4
Sat Paste ECe, mmho/cm	1.23
HCO ₃ , ppm	131
Cl, ppm	35
Ca, ppm	152
Mg, ppm	16
Na, ppm	27
S, ppm	16.9

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Results For : CIV
Location : PAWNEE

Sodium Adsorption Ratio 0.6

Soil Texture	Sand, %	Silt, %	Clay, %
Clay Loam	44	18	38