

SOIL ANALYSIS

Send To : Leichtag Foundation	Project : August 20, 2015	Report No : 15-232-0016
		Cust No : 06875
		Date Printed : 08/25/2015
		Date Received : 08/20/2015
		Lab Number : 26731

Sample Id : **Farm Lab Field 2 Higher Bed**

SATURATION EXTRACT - PLANT SUITABILITY

Test	Result	Effect on Plant Growth				
		Negligible	Sensitive Crops Restricted	Many Crops Restricted	Only Tolerant Crops Satisfactory	Few Crops Survive
Salinity (ECe)	3.5 dS/m					
Sodium Adsorption Ratio (SAR) *	2.73					
Boron (B)	0.24 ppm					
Sodium (Na)	11.2 meq/L					
Chloride (Cl)						
Carbonate (CO3)						
Bicarbonate (HCO3)						
Fluoride (F)						

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

Test	Result	Strongly Acidic	Moderately Acidic	Slightly Acidic	Neutral	Slightly Alkaline	Moderately Alkaline	Strongly Alkaline	Qualitative Lime
pH	7.1 s.u.								None

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS					NO3-N
			Very Low	Low	Medium	Optimum	Very High	
Available-N	28 ppm	0.7						19 ppm
Phosphorus (P) - Olsen	24 ppm	1.0						NH4-N
Potassium (K)	384 ppm	2.6						
Potassium - sat. ext.	2.6 meq/L							9 ppm
Calcium (Ca)	1438 ppm	0.8						Total Exchangeable Cations(TEC)
Calcium - sat. ext.	21.4 meq/L							
Magnesium (Mg)	437 ppm	1.8						108 meq/kg
Magnesium - sat. ext.	12.2 meq/L							
Copper (Cu)	1.1 ppm	0.8						
Zinc (Zn)	3 ppm	0.5						
Manganese (Mn)	4 ppm	0.3						
Iron (Fe)	15 ppm	0.3						
Boron (B) - sat. ext.	0.24 ppm	0.8						
Sulfate - sat. ext.	35.9 meq/L	12.0						
Exch Aluminum								

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS





Half Sat	Organic Matter	Weight Percent of Sample Passing 2mm Screen							USDA Soil Classification
		Gravel		Sand			Silt	Clay	
		Coarse 5-12	Fine 2-5	Very Coarse 1-2	Coarse 0.5-1	Med. to Very Fine 0.05-0.5	.002-.05	0-.002	
19 %									

SOIL ANALYSIS


Send To : Leichtag Foundation	Project : August 20, 2015	Report No : 15-232-0016
		Cust No : 06875
		Date Printed : 08/25/2015
		Date Received : 08/20/2015
		Lab Number : 26732

Sample Id : **Farm Lab Future Farm**












SATURATION EXTRACT - PLANT SUITABILITY

Test	Result	Effect on Plant Growth				
		Negligible	Sensitive Crops Restricted	Many Crops Restricted	Only Tolerant Crops Satisfactory	Few Crops Survive
Salinity (ECe)	1.8 dS/m					
Sodium Adsorption Ratio (SAR) *	8.14					
Boron (B)	0.38 ppm					
Sodium (Na)	12.8 meq/L					
Chloride (Cl)						
Carbonate (CO3)						
Bicarbonate (HCO3)						
Fluoride (F)						

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

Test	Result	Strongly Acidic	Moderately Acidic	Slightly Acidic	Neutral	Slightly Alkaline	Moderately Alkaline	Strongly Alkaline	Qualitative Lime	
pH	7.6 s.u.									None

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS					NO3-N
			Very Low	Low	Medium	Optimum	Very High	
Available-N	24 ppm	0.8						15 ppm
Phosphorus (P) - Olsen	13 ppm	0.7						NH4-N
Potassium (K)	145 ppm	1.4						9 ppm
Potassium - sat. ext.	0.3 meq/L							
Calcium (Ca)	1061 ppm	0.8						Total Exchangeable Cations(TEC)
Calcium - sat. ext.	3.6 meq/L							
Magnesium (Mg)	371 ppm	2.1						97 meq/kg
Magnesium - sat. ext.	1.3 meq/L							
Copper (Cu)	1.1 ppm	1.1						
Zinc (Zn)	2 ppm	0.5						
Manganese (Mn)	7 ppm	0.8						
Iron (Fe)	10 ppm	0.2						
Boron (B) - sat. ext.	0.38 ppm	1.3						
Sulfate - sat. ext.	3.4 meq/L	1.1						
Exch Aluminum								

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS

Half Sat	Organic Matter	Weight Percent of Sample Passing 2mm Screen							USDA Soil Classification
		Gravel		Sand			Silt	Clay	
		Coarse 5-12	Fine 2-5	Very Coarse 1-2	Coarse 0.5-1	Med. to Very Fine 0.05-0.5	.002-.05	0-.002	
14 %									

SOIL ANALYSIS

Send To : Leichtag Foundation	Project : August 20, 2015	Report No : 15-232-0016
		Cust No : 06875
		Date Printed : 08/25/2015
		Date Received : 08/20/2015
		Lab Number : 26733

Sample Id : **Farm Lab Field 4 Lower Bed**

SATURATION EXTRACT - PLANT SUITABILITY

Test	Result	Effect on Plant Growth				
		Negligible	Sensitive Crops Restricted	Many Crops Restricted	Only Tolerant Crops Satisfactory	Few Crops Survive
Salinity (ECe)	8.7 dS/m					
Sodium Adsorption Ratio (SAR) *	4.1					
Boron (B)	0.47 ppm					
Sodium (Na)	25.6 meq/L					
Chloride (Cl)						
Carbonate (CO3)						
Bicarbonate (HCO3)						
Fluoride (F)						

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

Test	Result	Strongly Acidic	Moderately Acidic	Slightly Acidic	Neutral	Slightly Alkaline	Moderately Alkaline	Strongly Alkaline	Qualitative Lime	
pH	6.9 s.u.									Low

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS					NO3-N
			Very Low	Low	Medium	Optimum	Very High	
Available-N	180 ppm	4.4						164 ppm
Phosphorus (P) - Olsen	37 ppm	1.5						NH4-N
Potassium (K)	1257 ppm	9.4						
Potassium - sat. ext.	19.7 meq/L							16 ppm
Calcium (Ca)	1227 ppm	0.9						Total Exchangeable Cations(TEC)
Calcium - sat. ext.	52.3 meq/L							
Magnesium (Mg)	320 ppm	1.6						87 meq/kg
Magnesium - sat. ext.	25.8 meq/L							
Copper (Cu)	1.2 ppm	1.1						
Zinc (Zn)	3 ppm	0.6						
Manganese (Mn)	9 ppm	0.9						
Iron (Fe)	12 ppm	0.3						
Boron (B) - sat. ext.	0.47 ppm	1.6						
Sulfate - sat. ext.	49.9 meq/L	16.6						
Exch Aluminum								

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS

Half Sat	Organic Matter	Weight Percent of Sample Passing 2mm Screen							USDA Soil Classification
		Gravel		Sand			Silt	Clay	
		Coarse 5-12	Fine 2-5	Very Coarse 1-2	Coarse 0.5-1	Med. to Very Fine 0.05-0.5	.002-.05	0-.002	
20 %									

SOIL ANALYSIS

Send To : Leichtag Foundation	Project : August 20, 2015	Report No : 15-232-0016
		Cust No : 06875
		Date Printed : 08/25/2015
		Date Received : 08/20/2015
		Lab Number : 26734

Sample Id : **Farm Lab Field 4 Higher Bed**

SATURATION EXTRACT - PLANT SUITABILITY

Test	Result	Effect on Plant Growth				
		Negligible	Sensitive Crops Restricted	Many Crops Restricted	Only Tolerant Crops Satisfactory	Few Crops Survive
Salinity (ECe)	10.9 dS/m					
Sodium Adsorption Ratio (SAR) *	6.31					
Boron (B)	0.54 ppm					
Sodium (Na)	39.1 meq/L					
Chloride (Cl)						
Carbonate (CO3)						
Bicarbonate (HCO3)						
Fluoride (F)						

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

Test	Result	Strongly Acidic	Moderately Acidic	Slightly Acidic	Neutral	Slightly Alkaline	Moderately Alkaline	Strongly Alkaline	Qualitative Lime
pH	7.4 s.u.								Low

EXTRACTABLE NUTRIENTS

Test	Result	Sufficiency Factor	SOIL TEST RATINGS					NO3-N
			Very Low	Low	Medium	Optimum	Very High	
Available-N	261 ppm	4.6						243 ppm
Phosphorus (P) - Olsen	60 ppm	1.8						NH4-N
Potassium (K)	2792 ppm	13.2						18 ppm
Potassium - sat. ext.	34.6 meq/L							Total Exchangeable Cations(TEC)
Calcium (Ca)	2023 ppm	0.8						157 meq/kg
Calcium - sat. ext.	52.3 meq/L							
Magnesium (Mg)	404 ppm	1.2						
Magnesium - sat. ext.	24.5 meq/L							
Copper (Cu)	1.4 ppm	0.7						
Zinc (Zn)	4 ppm	0.5						
Manganese (Mn)	7 ppm	0.4						
Iron (Fe)	13 ppm	0.2						
Boron (B) - sat. ext.	0.54 ppm	1.8						
Sulfate - sat. ext.	47.5 meq/L	15.8						
Exch Aluminum								

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS

Half Sat	Organic Matter	Weight Percent of Sample Passing 2mm Screen							USDA Soil Classification
		Gravel		Sand			Silt	Clay	
		Coarse 5-12	Fine 2-5	Very Coarse 1-2	Coarse 0.5-1	Med. to Very Fine 0.05-0.5	.002-.05	0-.002	
28 %									