

Date: May 14, 2021  
 Report No: 72509  
 Grower: Marchini Ag  
 Client: Farmers Future LP  
 Sampler: Elke Fornaciari  
 Sampled: 4/13/2021



**SUMMARY PAGE**

Lab #	Depth Inches Start End	Field ID	Sample ID	Crop	SOIL ANALYSIS REPORT																										
					NO3-N		NH4-N		P		K	Ca	Mg	Na	SO4-S	B	Zn	Mn	Cu	Fe	pH	SMP	Soluble Salts	OM	Efferve- -science Test	Total Bases Meq/100g	Base Saturation				
					lbs/ac	ppm	lbs/ac	ppm	Olsen ppm	Bray ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	1:2	pH	1:1			%	% Ca	% Mg	% K	% Na
2566	0 12	Marchini Ag -Before	4-13-2021		325	81.3	28	7.1	88	230	29.6	8.4	1.30	113	1.44	4.8	7.6	2.6	47	6.8		1.68	1.86		39.8	74.3	21.0	1.5	3.3		
2567	0 12	Marchini Ag -After	4-26-2021		427	106.8	25	6.2	87	214	37.1	10.2	1.67	87	1.31	4.7	6.1	2.8	66	6.5	7.0	1.78	1.90		51.5	71.9	19.9	1.1	3.2	3.9	



KTL will make every effort to provide an accurate analysis. Liability is limited to the cost of the analysis and no other warranties, expressed or implied are given. Recommendations serve only as a general guide and should be adjusted to specific situations and conditions.

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## SOIL HEALTH ASSESSMENT SUMMARY

Lab #	Depth Inches Start    End		Field ID	SOLVITA ANALYSIS		
				CO2 Burst	Microbial Biomass	PMN
				ppm	ppm	#/acre
2566	0	12	Marchini Ag -Before 4-13-2021	57	1290	35
2567	0	12	Marchini Ag -After 4-26-2021	63	1410	37

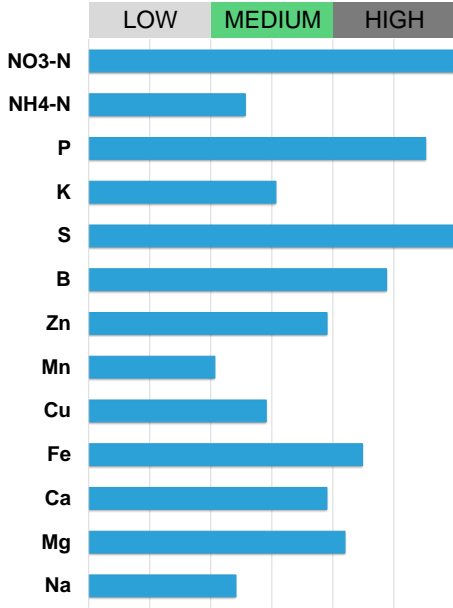


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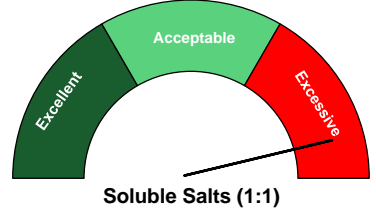
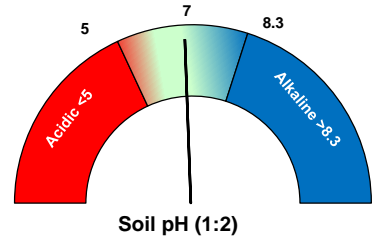


Lab #	Depth inches Start End	Sample ID	NO3-N		NH4-N		P		K	Ca	Mg	Na	SO4-S	B	Zn	Mn	Cu	Fe	pH 1:2	SMP pH	Soluble Salts 1:1 mmho/cm	OM %	Effervescence (Free Lime)		
			lbs/ac	ppm	lbs/ac	ppm	Olsen ppm	Bray ppm																Ammonium ppm	Acetate meq/100g
2566	0 12	4-13-2021	325	81.3	28	7.1			88	230	29.6	8.4	1.30	113	1.44	4.8	8	2.6	47	6.8		1.68	1.86		



**BASE SATURATION**

	meq/100 g	%	Ideal Soil
Total Bases	39.8		
Calcium	29.6	74.3	65-75%
Magnesium	8.4	21.0	15-20%
Potassium	0.6	1.5	2-9%
Sodium	1.3	3.3	<1%



**Fertilizer Recommendations**

Nitrogen	Lbs per acre N
Phosphorus	Lbs per acre P2O5
Potassium	Lbs per acre K2O
Sulfur	Lbs per acre actual S
Boron	Lbs per acre actual B
Zinc	Lbs per acre actual Zn
Mangnese	Lbs per acre actual Mn
Copper	Lbs per acre actual Cu
Iron	Lbs per acre actual Fe
Lime Requirement	Lbs per acre 100 % Lime Score material

**Additional Parameters**



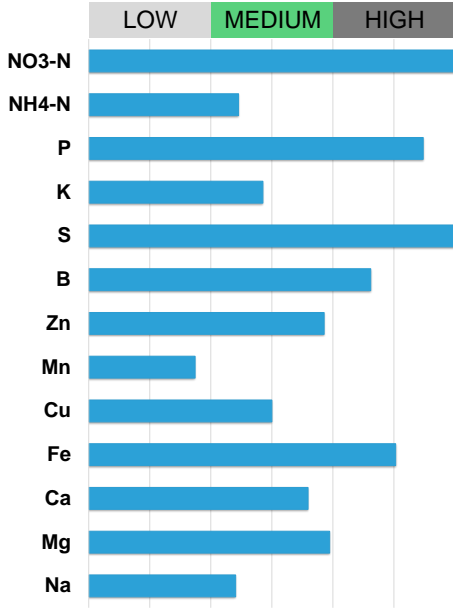
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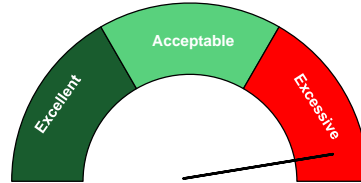
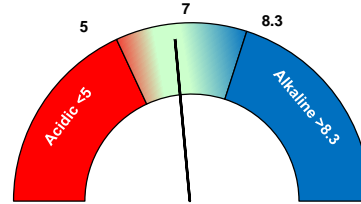


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			ppm	ppm	ppm	ppm	ppm	ppm															
2567	0 12	4-26-2021	427	106.8	25	6.2	87	214	37.1	10.2	1.67	87	1.31	4.7	6	2.8	66	6.5	7.0	1.78	1.90		



**BASE SATURATION**

	meq/100 g	%	Ideal Soil
Estimated CEC	51.5		
Calcium	37.1	71.9	65-75%
Magnesium	10.2	19.9	15-20%
Potassium	0.5	1.1	2-9%
Sodium	1.7	3.2	<1%
Hydrogen	-6.4	3.9	



**Fertilizer Recommendations**

Nitrogen	Lbs per acre N
Phosphorus	Lbs per acre P2O5
Potassium	Lbs per acre K2O
Sulfur	Lbs per acre actual S
Boron	Lbs per acre actual B
Zinc	Lbs per acre actual Zn
Manganese	Lbs per acre actual Mn
Copper	Lbs per acre actual Cu
Iron	Lbs per acre actual Fe
Lime Requirement	Lbs per acre 100 % Lime Score material

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