



## SOIL ANALYSIS

Client :		Report No: 16-230-0818
		Cust No:
		Date Printed: 08/18/2016
		Date Received : 08/17/2016
		PO:
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Lab Number : 02305

Field Id :

Sample Id : South

Test	Method	Results	SOIL TEST RATINGS					Calculated Cation Exchange Capacity		
			Very Low	Low	Medium	Optimum	Very High	%sat	meq	
Soil pH	1:1	8.3						<b>21.5 meq/100g</b>		
Buffer pH								<b>%Saturation</b>		
Phosphorus (P)	BI	6 ppm								
Potassium (K)	AA	485 ppm						K	5.8	1.2
Calcium (Ca)	AA	3820 ppm						Ca	88.8	19.1
Magnesium (Mg)	AA	135 ppm						Mg	5.2	1.1
Sulfur (S)	M3	26 ppm						H	0.0	0.0
Boron (B)	M3	1.3 ppm						Na	0.4	0.1
Copper (Cu)	M3	2.2 ppm						<b>K/Mg Ratio: 1.09</b>		
Iron (Fe)	M3	14 ppm						<b>Ca/Mg Ratio: 17.08</b>		
Manganese (Mn)	M3	113 ppm								
Zinc (Zn)	M3	0.9 ppm								
Sodium (Na)	AA	18 ppm								
Organic Matter	LOI	2.2 % ENR 88								
Phosphorus (P)	M3	30 ppm								

## SOIL FERTILITY GUIDELINES

Crop : Wheat

Yield Goal : 50 bu/acre

Rec Units: LB/ACRE

(lbs)	LIME	(tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0		0	84	81	0	0	0	0	0	0	2.2	

Crop : Warm Grass Hay

Yield Goal : 5 tons/acre

Rec Units: LB/ACRE

(lbs)	LIME	(tons)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	B	Cu	Mn	Zn	Fe
0		0	221	96	0	0	0	0	0	0	2.2	

Comments :

**Nitrate-nitrogen analysis will detect levels no lower than 2 ppm nitrate-nitrogen. Results that indicate undetected levels of nitrate-nitrogen will display 2 ppm or 4 lb/acre.**

### Wheat

- For small grains apply 20-40 lbs N/acre in the fall and the remainder as a top dressing before jointing.
- For high yields of small grains or for small grains on wet soils, a split application of spring N may be beneficial.
- When small grain is grazed, increase the N fertilization rate by 60 lbs N/Acre. Apply 1/2 in the fall and the rest in mid or late winter.
- On small grains apply recommended P and K before or at planting.
- Apply sulfur with topdress nitrogen on small grains.

### Warm Grass Hay

- For grass hay apply 50 lbs. N/Acre for each ton of expected yield. The normal range is 200-500 lbs. N/Acre. Apply 75-100 lbs. N/Acre when spring growth begins and 75-100 lbs. N/Acre after each harvest.
- On light soils with high grass hay yields, soil test annually to maintain soil pH and nutrient level.
- For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.
- For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.