SOIL ANALYSIS REPORT INTERPRETATION

one inch of rainfall = 27,000 gallons per Acre.

Hay and Pasture Ideal Fertility Levels

2% organic Matter will hold 32,000 gal. of water per Acre.

Item	Units	Report Test Results
pH		6.3 – 7.0
Lime Test Index		68 - 70
Organic Matter	%	1.5 - 9
Phosphorus (P)	Lb/Acre	50 - 90
Potassium (K)	Lb/Acre	175 - 275
Magnesium (Mg)	Lb/Acre	300 - 800
Calcium (Ca)	Lb/Acre	800 – 4900
Sodium (Na)	Lb/Acre	100 - 400
Soluble Salts (EC)	mmho/cm	Less than .40
Cation Exchange Capacity (CEC)	meq/100g	6 - 21
Base Saturation	%	91 - 100
Potassium (K)	%	2 - 5
Magnesium (Mg)	%	12 – 18
Calcium (Ca)	%	65 – 80
Sodium (Na)	%	.5 – 3.0
Hydrogen (H)	%	0 - 9
Sulfur (S04)	Lb/Acre	30 - 60
Zinc (Zn)	Lb/Acre	3 – 5
Manganese (Mn)	Lb/Acre	20 - 40
Iron (Fe)	Lb/Acre	25 - 45
Copper (Cu)	Lb/Acre	2 - 3
Boron (B)	Lb/Acre	2 - 3
Ca to Mg ratio		Between 1:1 and 10:1
Mg to K ratio		Greater than 2:1
Nitrate-Nitrogen (N03-N)	Lb/Acre	10 – 40

The higher the CEC - the soil can hold more Nutrients, and they will not be Leached out of the soil by water.

Cation Exchange = positive charge nutrients holding on to soil

This provides information on the nutrient Balance

% of Total CEC

If a Soil Report has the Units in PPM convert to Lb/Acre as follows:

PPM x 2 = Lb/Acre