

Crop

Variety:

Present Yield:

Proposed Yield

Soil Analysis

Certified By: ELAP Certificate No. 2714 Manure Analysis Proficiency (MAP) North American Proficiency Testing (NAPT) National Forage Testing Association (NFTA) Family Farms Alliance (FFA)

> Purchase Order: Report Date: Approved By: Order Number:

Grower:

Date Received:
Submitted By:
Lab ID:
Sample ID:

Customer

and

A numerical and visual representation of customer soil results versus the optimal levels of analyte and micronutrients for that type of crop.

Refers to how much of the cation is present in the soil. See CEC (red box) for how much the soil can hold.

Recommendations on what fertilizer needs to be added to the crop over time, based on above results.

These ratios provide information on what is of most concern. You want to address the largest negative number first and work your way up to the smallest negative number.

pH (Water) pH (Soil) 5.7 Units 6.55 1.4 1.25 Soluble Salts 672 Nitrate Nitrogen 18.0 Chloride 2.1 2.75 Organic Matte 1.75 26 licroNutrients Zinc 0.4 12.5 2.1 60 Mangan 0.5 Sulfate 113.0 38.5 Result Your % Optimal % Result % Total 336 ppm 14.29 % 23.9 % 12 - 20 3.37 meq ESP SAR Nitrogen 203.0 Lbs/Acre Phosphorus 15.1 Lbs/Acre 1.8 Lbs/Acre CEC 30.4 meg/100g 10.4 Lbs/Acre Carbona High 7.1 Lbs/ Acre 12.5 Lbs/ Acre Lime pH Correction 2.2 Ton(s)/acre Gypsum (18%) Sodium Reduction

FOC is required for this sample, cleane contact lab

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how to correct issues in the soil. Adding lime fixes the pH of the soil. Adding Gypsum (sodium sulfate), helps with a salt, pH, Na, and

Recommendation as to

Ca problems.

This illustration of the relationship between cations displays optimal numbers that encompass all crops. Therefore, numbers that place the results in the "normal" zone will vary between crop types.

This extraction is based on water instead of a solvent and the result is the inverse of the holding capacity. For the ratio, if K is below 7 it is of concern, but above 12 is good. Ca/Mg below 15 is of concern, but above 30 is good. Na depends on leaching. If there is no leaching you want a high number and if there is leaching you want a low number.

Total Nitrogen and its' holding capacity are included as safety precautions to avoid excess Nitrogen. CEC tells how much fertilizer the soil can hold and determines frequency it should be applied. Percolation follows the trend of CEC. Carbonates gives an idea as to the reaction of the soil to the addition of acid.