

SOIL SOLUTION REPORT

EXTRACTABLE NUTRIENTS					SOIL SOLUTION TEST**			
ELEMENT	YOURS	SHOULD BE	RECS	PRE-PLANT SUGGESTIONS	ELEMENT	YOURS	SHOULD BE	ADD WEEKLY
			LBS	LBS			LBS / DAY	LBS
Phosphorus-ppm	28	25 - 40	70	46	P-lbs	1.5	2	3.5
Potassium-ppm	648	300 +			K-lbs	6	8	7
Calcium-ppm	4064	1,800 +	*	see 1	Ca-lbs	3	5	*
Magnesium-ppm	266	250 +			Mg-lbs	0.6	1	2.5
			LBS	LBS			grams / DAY	OZ
Zinc-ppm	1.7	1.0 - 3.0	2	1	Zn-grams	52	57	0.2
Copper-ppm	0.6	0.8 - 2.5	2	1	Cu-grams	10	14	0.1
Manganese-ppm	2	6 - 30	6	3	Mn-grams	25	28	0.1
Boron-ppm	0.9	0.7 - 1.5	2	2	B-grams	57	60	0.1

*** Refer to soil report for Calcium recommendations, if needed.**

All chelating products can be used if the zinc, copper and magnesium are adequate. When the levels are below the should be levels, you need to use the elements in the sulfate forms. Disease suppressions are caused by the elements in their metallic forms. Chelates are an excellent sources for plant and production needs.

PRE-PLANT:

For disease suppression add 1/2 of the weekly recommendations for all micro nutrients in a sulfate form on calcareous soils.

For plant needs and maximum bulking add the other 1/2 in chelate form by using the SV (Secret Vault) program to monitor weekly requirements.

1. If calcium is over 1800 and there is free lime, use acid residue fertilizer and elemental sulfur to form gypsum from free lime .
2. If no lime and calcium is less than 1800 and soil solution is less than "should be" add 250 lbs. of gypsum pre-plant.
3. If Soil Solution calcium is less than 5, add 250 lbs. gypsum per acre

If phosphate, potash and magnesium in soil solution are less than requires consider putting filed on the SV Program to monitor it. If you are using the SV program and the phosphate, potash, and magnesium "should be" levels in the soil solution are higher than results on the SV Program, it is because the sample is taken with out the influence of the root system. In season results are lower because plant root gives off carbonaceous exodates.

**Our soil solution test emulates the exudates that plant roots release to stimulate bacteria and fungi to release nutrients from the extractable nutrients.

PPM K / 390 = Meg PPM Ca / 200 = Meg
 PPM Mg / 120 = Meg PPM Na / 230 = Meg

"Always practice the laws of Agronomy." - John P. Taberna, Soil Scientist