



PSA-GPS
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Customer's Name
and Contact Information

Sample Number PSA-8351
Collection Date 2011-05-11
Process Date 2011-05-25
Report Date 2011-05-25
Date of Last Liming _____
Soil Type Loam

Fruit Type(s) Apple Life Stage Mature (10+ yrs)
Fruit Area 10 ac Watering Method None
Sample Notes: _____

LABORATORY ANALYSIS and RECOMMENDATIONS

[Results reported as Parts Per Million (ppm)]

TEST	RE-SULTS	OPTIMUM RANGE	RATING	RECOMMENDATIONS
1. pH Adjustment	6.0	6.5 - 7.0	Low	Apply 1.32 tons/acre of Agricultural Limestone [Make 2 applications of 0.66 tons/acre 4-6 months apart]
2. Calcium (Ca)	105	662 - 888	Extremely Low	Apply 3.27 tons/acre of gypsum in (3) 1.09 ton applications 4-6 months apart
3. Core Depth	6"	12+"	Very Low	Apply 0.5 oz/100 sq.ft. of Bio-Aer or similar Organic Soil Conditioner in 2-3 gals water at 6-8 week intervals throughout the growing season until Optimum Range reached. After the season, work all plant residue and composted leaves, grass, etc. into the soil
4. Humus Content	2%	10+%	Extremely Low	Apply 5 lbs/100 sq.ft. of Bio-Soil Boost (or similar organic material) [Make 2 applications of 2.5 lbs/100 sq.ft. at 4-6 month interval]
5. Thatch Layer	N/A	N/A	N/A	This test point is not relevant for this particular test
6. Soluble Salts	135	177 - 426	Low	Apply 1.5 oz. per linial foot of 10-10-10 in each row and lightly work into the soil. An organic source of nutrients with match or similar levels can be substituted.
7. Nitrates (NO ₃)	9	10 - 20	Low	See Item #6
8. Ammonium (NH ₄)	1	5 - 15	Extremely Low	See Item #6
9. Phosphate (HPO ₄)	2	2 - 5	Low Normal	Apply 2 lbs./100 sq.ft. of rock phosphate or 0.2 lb./100 sq.ft. of superphosphate
10. Potassium (K)	22	5 - 25	Normal	Continue a balanced nutrition program with low salt and chloride content
11. Magnesium (Mg)	17	10 - 30	Normal	No action required
12. Iron (Fe)	0.1	0.5 - 5	Very Low	See Item #15
13. Manganese (Mn)	0.1	0.5 - 5	Very Low	See Item #15
14. Boron (B)	0.3	0.06 - .5	Very Low	See Item #15
15. Copper (Cu)	0.01	0.06 - .5	Extremely Low	Follow items # 6 - #8 or apply 3 ozs./100 sq.ft. of Bio-Green in 1 or more gals. of water 3 times during season or similar micro-nutrient material
16. Zinc (Zn)	0.01	0.3 - 3.0	Extremely Low	See Item #15
17. Sulfates (SO ₄)	40	40 - 150	Normal	No action required
18. Chlorides (Cl)	15	0 - 30	Normal	Avoid fertilizers containing chlorides

Special Instructions & Recommendations

Applying compost tea as a soil drench at least once per month will enhance all beneficial microbial systems.
Applying compost tea as a foliar application may help to reduce/prevent various diseases.