

	<b>Hoophouse</b>	<b>Lower Garden</b>	Difference between hoophouse and lower garden	%	
Total Exchange Capacity (M. E.)	62.5	25.52	-36.98		
pH of Soil Sample	8.7	8.7			
Organic Matter, Percent	2.33	5.47	3.14	235	
<b>ANIONS</b>					
SULFUR: p.p.m.	14	38	24	271	
Mehlich III as P2O5 Phosphorous lbs/acre -- <b>P</b>	89	379	290	426	lower garden has 4 times as much P
Deficit					
<b>Exchangable Cations</b>					
Why the huge difference in DESIRED value?					
<b>CALCIUM</b> (lbs/acre): Desired Value	16999	6940	-10059	40.83	
Value Found	23235	8300	-14935	35.72	lower garden has 35% of calcium in hoophou:
Deficit					
Why the huge difference in DESIRED value?					
<b>MAGNESIUM</b> : Desired Value	1799	734	-1065	40.80	
Value Found	601	727	126	120.97	
Deficit	-1198	-7			
Why the huge difference in DESIRED value?					
<b>POTASSIUM -- K</b> : Desired Value	1949	796	-1153	40.84	
Value Found	127	615	488	484	lower garden has almost 5 times as much K
Deficit	-1822	-181			
<b>SODIUM</b> : lbs / acre	26	120	94	462	lower garden has 4 times as much sodium
<b>BASE SATURATION %</b>					
What is the difference between Exchangable Cations and Base Saturation?					
Calcium (60 to 70%)	92.94	81.32	-11.62	87	
Magnesium (10 to 20%)	4.01	11.87	7.86	296	
Potassium (2 to 5%)	0.26	3.09	2.83	1188	
Sodium (.5 to 3%)	0.09	1.02	0.93	1133	
Other Bases (Variable)	2.7	2.7			
Exchangable Hydrogen (10 to 15%)	0	0			
<b>TRACE ELEMENTS</b>					
What are the desired values?					
Boron (p.p.m.)	0.44	1.38	0.94	314	
Iron (p.p.m.)	5	29	24	580	
Manganese (p.p.m.)	7	43	36	614	
Copper (p.p.m.)	0.73	1.1	0.37	151	
Zinc (p.p.m.)	0.75	3.93	3.18	524	
Aluminum (p.p.m.)	16	110	94	688	