

Soil Report

Job Name **Heinz Thomet 10615 Benton Rd**
Company Keystone Bio Ag
Submitted By Zook, Sam
Date 3/26/2015



Advancing Eco-Agriculture

<i>Sample Location</i>		Sect II	Sect IV	Orchard	MF	MF
<i>Sample ID</i>		Bottom	Top		North	South I
<i>Lab Number</i>		201	202	203	204	205
<i>Total Exchange Capacity (M. E.)</i>		7.39	5.79	5.54	6.46	7.15
<i>pH of Soil Sample</i>		6.9	6.4	6.9	6.6	6.2
<i>Organic Matter, Percent</i>		4.38	2.69	3.15	2.99	3.26
ANIONS	SULFUR: (35 ppm)	13	8	7	9	9
	Mehlich III Phosphorous: (75 ppm)	220	100	91	188	64
EXCHANGEABLE CATIONS	CALCIUM: Desired Value ppm Value Found	1005 1204	786 863	753 902	879 998	972 1053
	MAGNESIUM: Desired Value ppm Value Found	106 78	83 54	79 54	93 66	102 66
	POTASSIUM: Desired Value ppm Value Found	115 96	90 73	86 84	100 81	111 35
	SODIUM: ppm	7	6	7	5	5
BASE SATURATION	Calcium (70 to 75%)	81.5	74.5	81.4	77.1	73.6
	Magnesium (15%)	8.8	7.8	8.2	8.5	7.7
	Potassium (5%)	3.3	3.2	3.9	3.2	1.2
	Sodium (.5 to 3%)	0.4	0.4	0.5	0.3	0.3
	Exchangable Hydrogen (10 to 15%)	1.5	9.0	1.5	6.0	12.0
MICRO NUTRIENTS	Boron (3 ppm)	0.31	0.25	0.24	0.22	< 0.2
	Iron (60-80 ppm)	237	192	157	148	235
	Manganese (80-90 ppm)	35	37	27	30	20
	Copper (4 ppm)	1.27	0.77	0.87	1.05	0.75
	Zinc (8 ppm)	5.03	3.56	3.67	2.95	1.93
	Aluminum (<200 ppm)	732	880	762	1000	772

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Sample Location		Oak	LF	Cedar	LF	Marsh
Sample ID			North III		East IV	I
Lab Number		206	207	208	209	210
Total Exchange Capacity (M. E.)		5.54	5.24	10.09	4.42	7.28
pH of Soil Sample		6.8	6.5	6.8	6.9	6.6
Organic Matter, Percent		2.95	2.12	7.69	2.44	3.06
ANIONS	SULFUR: (35 ppm)	7	6	6	5	6
	Mehlich III Phosphorous: (75 ppm)	40	30	31	20	63
EXCHANGEABLE CATIONS	CALCIUM: Desired Value ppm Value Found	753 921	712 776	1372 1573	601 743	989 1176
	MAGNESIUM: Desired Value ppm Value Found	100 51	75 68	145 152	100 47	104 65
	POTASSIUM: Desired Value ppm Value Found	100 22	81 46	157 65	100 13	113 19
	SODIUM: ppm	8	6	6	5	5
BASE SATURATION	Calcium (70 to 75%)	83.1	74.1	77.9	83.9	80.8
	Magnesium (15%)	7.7	10.7	12.6	8.9	7.4
	Potassium (5%)	1.0	2.2	1.7	0.8	0.7
	Sodium (.5 to 3%)	0.6	0.5	0.2	0.5	0.3
	Exchangable Hydrogen (10 to 15%)	3.0	7.5	3.0	1.5	6.0
MICRO NUTRIENTS	Boron (3 ppm)	0.21	< 0.2	0.52	< 0.2	< 0.2
	Iron (60-80 ppm)	273	163	258	199	150
	Manganese (80-90 ppm)	42	19	33	14	16
	Copper (4 ppm)	0.82	0.64	0.72	0.48	0.43
	Zinc (8 ppm)	3.27	1.96	3.57	1.55	1.12
	Aluminum (<200 ppm)	696	558	386	482	591

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<i>Sample Location</i>		Marsh				
<i>Sample ID</i>		III				
<i>Lab Number</i>		211				
<i>Total Exchange Capacity (M. E.)</i>		7.44				
<i>pH of Soil Sample</i>		6.9				
<i>Organic Matter, Percent</i>		2.72				
ANIONS	SULFUR: (35 ppm)	7				
	Mehlich III Phosphorous: (75 ppm)	73				
EXCHANGEABLE CATIONS	CALCIUM: Desired Value ppm Value Found	1012 1271				
	MAGNESIUM: Desired Value ppm Value Found	107 65				
	POTASSIUM: Desired Value ppm Value Found	116 26				
	SODIUM: ppm	8				
BASE SATURATION	Calcium (70 to 75%)	85.4				
	Magnesium (15%)	7.3				
	Potassium (5%)	0.9				
	Sodium (.5 to 3%)	0.5				
	Exchangable Hydrogen (10 to 15%)	1.5				
MICRO NUTRIENTS	Boron (3 ppm)	0.21				
	Iron (60-80 ppm)	164				
	Manganese (80-90 ppm)	34				
	Copper (4 ppm)	0.72				
	Zinc (8 ppm)	1.59				
	Aluminum (<200 ppm)	653				