

Soil Test Sample Summary of Major Nutrients  
for  
All 2017 Samples

Agronomic crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 107	low: 95	low: 209	low: 202	low: 197	low: 266	low: 206
4.0-4.5: 5	5.1-7.5: 444	medium: 657	medium: 793	medium: 759	medium: 728	medium: 366	medium: 943
4.6-5.0: 49	7.6-10.0: 740	optimum: 1167	optimum: 583	optimum: 489	optimum: 896	optimum: 451	optimum: 649
5.1-5.5: 303	10.1-12.5: 524	above opt: 73	above opt: 407	above opt: 542	above opt: 171	above opt: 909	above opt: 194
5.6-6.0: 708	12.5-15.0: 145						
6.1-6.5: 497	>15.0: 32						
6.5-7.0: 309							
>7.0: 121							

Lawns & Turf crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 175	low: 129	low: 138	low: 26	low: 71	low: 149	low: 225
4.0-4.5: 2	5.1-7.5: 241	medium: 434	medium: 303	medium: 278	medium: 282	medium: 200	medium: 397
4.6-5.0: 31	7.6-10.0: 254	optimum: 325	optimum: 132	optimum: 426	optimum: 377	optimum: 291	optimum: 197
5.1-5.5: 139	10.1-12.5: 174	above opt: 13	above opt: 328	above opt: 171	above opt: 171	above opt: 261	above opt: 82
5.6-6.0: 288	12.5-15.0: 44						
6.1-6.5: 258	>15.0: 13						
6.5-7.0: 141							
>7.0: 42							

Commercial Vegetables

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 13	low: 53	low: 11	low: 12	low: 22	low: 28	low: 22
4.0-4.5: 0	5.1-7.5: 63	medium: 82	medium: 71	medium: 54	medium: 57	medium: 46	medium: 74
4.6-5.0: 5	7.6-10.0: 62	optimum: 32	optimum: 70	optimum: 57	optimum: 81	optimum: 58	optimum: 74
5.1-5.5: 18	10.1-12.5: 27	above opt: 28	above opt: 43	above opt: 72	above opt: 35	above opt: 63	above opt: 25
5.6-6.0: 53	12.5-15.0: 13						
6.1-6.5: 71	>15.0: 17						
6.5-7.0: 33							
>7.0: 15							

Chemical Home Gardens

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 18	low: 39	low: 40	low: 61	low: 50	low: 90	low: 90
4.0-4.5: 6	5.1-7.5: 48	medium: 186	medium: 124	medium: 192	medium: 104	medium: 80	medium: 213
4.6-5.0: 12	7.6-10.0: 145	optimum: 206	optimum: 126	optimum: 130	optimum: 298	optimum: 119	optimum: 186
5.1-5.5: 60	10.1-12.5: 173	above opt: 189	above opt: 330	above opt: 237	above opt: 168	above opt: 331	above opt: 131
5.6-6.0: 103	12.5-15.0: 126						
6.1-6.5: 136	>15.0: 110						
6.5-7.0: 157							
>7.0: 146							

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Organic Gardens & Crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 41	low: 134	low: 157	low: 300	low: 176	low: 235	low: 243
4.0-4.5: 3	5.1-7.5: 164	medium: 724	medium: 468	medium: 762	medium: 394	medium: 364	medium: 731
4.6-5.0: 29	7.6-10.0: 582	optimum: 768	optimum: 586	optimum: 504	optimum: 1077	optimum: 412	optimum: 704
5.1-5.5: 192	10.1-12.5: 684	above opt: 731	above opt: 1146	above opt: 791	above opt: 710	above opt: 1346	above opt: 679
5.6-6.0: 397	12.5-15.0: 405						
6.1-6.5: 631	>15.0: 481						
6.5-7.0: 670							
>7.0: 434							

Commercial Fruit

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 8	<5.0: 37	low: 15	low: 37	low: 4	low: 30	low: 53	low: 32
4.0-4.5: 11	5.1-7.5: 88	medium: 92	medium: 74	medium: 45	medium: 89	medium: 47	medium: 74
4.6-5.0: 21	7.6-10.0: 66	optimum: 78	optimum: 26	optimum: 47	optimum: 110	optimum: 88	optimum: 75
5.1-5.5: 66	10.1-12.5: 37	above opt: 71	above opt: 119	above opt: 160	above opt: 27	above opt: 68	above opt: 75
5.6-6.0: 92	12.5-15.0: 5						
6.1-6.5: 33	>15.0: 23						
6.5-7.0: 19							
>7.0: 6							

Commercial Potatoes/Rotation

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 40	low: 277	low: 5	low: 13	low: 29	low: 115	low: 185
4.0-4.5: 7	5.1-7.5: 537	medium: 510	medium: 111	medium: 132	medium: 179	medium: 216	medium: 310
4.6-5.0: 26	7.6-10.0: 215	optimum: 29	optimum: 607	optimum: 246	optimum: 492	optimum: 314	optimum: 232
5.1-5.5: 174	10.1-12.5: 25	above opt: 2	above opt: 95	above opt: 427	above opt: 118	above opt: 173	above opt: 91
5.6-6.0: 336	12.5-15.0: 0						
6.1-6.5: 235	>15.0: 1						
6.5-7.0: 39							
>7.0: 1							

Forestry/Christmas trees

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 8	low: 9	low: 20	low: 1	low: 30	low: 39	low: 5
4.0-4.5: 2	5.1-7.5: 17	medium: 14	medium: 14	medium: 15	medium: 16	medium: 5	medium: 8
4.6-5.0: 22	7.6-10.0: 20	optimum: 23	optimum: 8	optimum: 30	optimum: 8	optimum: 2	optimum: 21
5.1-5.5: 20	10.1-12.5: 4	above opt: 9	above opt: 13	above opt: 9	above opt: 1	above opt: 9	above opt: 21
5.6-6.0: 2	12.5-15.0: 3						
6.1-6.5: 5	>15.0: 3						
6.5-7.0: 1							
>7.0: 2							

Soil Test Sample Summary of Major Nutrients  
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Ornamentals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 46	low: 50	low: 29	low: 31	low: 39	low: 46	low: 43
4.0-4.5: 3	5.1-7.5: 53	medium: 62	medium: 56	medium: 99	medium: 80	medium: 79	medium: 89
4.6-5.0: 15	7.6-10.0: 50	optimum: 86	optimum: 79	optimum: 52	optimum: 128	optimum: 70	optimum: 77
5.1-5.5: 46	10.1-12.5: 55	above opt: 123	above opt: 157	above opt: 139	above opt: 74	above opt: 126	above opt: 112
5.6-6.0: 88	12.5-15.0: 36						
6.1-6.5: 84	>15.0: 81						
6.5-7.0: 50							
>7.0: 34							

No crop/Other

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 41	low: 105	low: 51	low: 63	low: 27	low: 9	low: 54
4.0-4.5: 3	5.1-7.5: 101	medium: 100	medium: 79	medium: 93	medium: 91	medium: 4	medium: 113
4.6-5.0: 4	7.6-10.0: 69	optimum: 38	optimum: 104	optimum: 56	optimum: 122	optimum: 61	optimum: 82
5.1-5.5: 8	10.1-12.5: 29	above opt: 52	above opt: 61	above opt: 83	above opt: 55	above opt: 221	above opt: 46
5.6-6.0: 46	12.5-15.0: 22						
6.1-6.5: 77	>15.0: 33						
6.5-7.0: 78							
>7.0: 79							

Grand Totals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 15	<5.0: 552	low: 907	low: 703	low: 713	low: 676	low: 1048	low: 1108
4.0-4.5: 85	5.1-7.5: 1813	medium: 2866	medium: 2123	medium: 2429	medium: 2077	medium: 1448	medium: 2975
4.6-5.0: 248	7.6-10.0: 2210	optimum: 2759	optimum: 2373	optimum: 2057	optimum: 3609	optimum: 1882	optimum: 2314
5.1-5.5: 1033	10.1-12.5: 1733	above opt: 1369	above opt: 2702	above opt: 2702	above opt: 1539	above opt: 3523	above opt: 1504
5.6-6.0: 2116	12.5-15.0: 799						
6.1-6.5: 2027	>15.0: 794						
6.5-7.0: 1497							
>7.0: 880							