

Soil Test Sample Summary of Major Nutrients  
for  
All 2018 Samples

Agronomic crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 162	low: 170	low: 296	low: 260	low: 226	low: 264	low: 401
4.0-4.5: 3	5.1-7.5: 576	medium: 853	medium: 1188	medium: 1086	medium: 985	medium: 532	medium: 1466
4.6-5.0: 55	7.6-10.0: 1136	optimum: 1757	optimum: 914	optimum: 719	optimum: 1401	optimum: 821	optimum: 813
5.1-5.5: 376	10.1-12.5: 754	above opt: 108	above opt: 490	above opt: 823	above opt: 276	above opt: 1271	above opt: 208
5.6-6.0: 1047	12.5-15.0: 212						
6.1-6.5: 799	>15.0: 48						
6.5-7.0: 405							
>7.0: 203							

Lawns & Turf crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 194	low: 148	low: 173	low: 33	low: 117	low: 192	low: 273
4.0-4.5: 4	5.1-7.5: 297	medium: 478	medium: 344	medium: 285	medium: 354	medium: 262	medium: 471
4.6-5.0: 44	7.6-10.0: 307	optimum: 456	optimum: 138	optimum: 514	optimum: 439	optimum: 351	optimum: 253
5.1-5.5: 210	10.1-12.5: 211	above opt: 20	above opt: 447	above opt: 270	above opt: 192	above opt: 297	above opt: 105
5.6-6.0: 326	12.5-15.0: 76						
6.1-6.5: 308	>15.0: 17						
6.5-7.0: 140							
>7.0: 69							

Commercial Vegetables

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 20	low: 63	low: 11	low: 27	low: 29	low: 37	low: 74
4.0-4.5: 0	5.1-7.5: 70	medium: 89	medium: 68	medium: 98	medium: 87	medium: 40	medium: 67
4.6-5.0: 6	7.6-10.0: 64	optimum: 33	optimum: 99	optimum: 48	optimum: 72	optimum: 49	optimum: 46
5.1-5.5: 25	10.1-12.5: 33	above opt: 29	above opt: 36	above opt: 41	above opt: 26	above opt: 88	above opt: 27
5.6-6.0: 46	12.5-15.0: 19						
6.1-6.5: 76	>15.0: 8						
6.5-7.0: 44							
>7.0: 17							

Chemical Home Gardens

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 20	low: 30	low: 35	low: 45	low: 40	low: 65	low: 101
4.0-4.5: 2	5.1-7.5: 53	medium: 132	medium: 114	medium: 210	medium: 113	medium: 89	medium: 221
4.6-5.0: 9	7.6-10.0: 103	optimum: 164	optimum: 136	optimum: 133	optimum: 265	optimum: 121	optimum: 165
5.1-5.5: 53	10.1-12.5: 143	above opt: 265	above opt: 306	above opt: 203	above opt: 173	above opt: 316	above opt: 104
5.6-6.0: 110	12.5-15.0: 108						
6.1-6.5: 109	>15.0: 164						
6.5-7.0: 156							
>7.0: 151							

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Organic Gardens & Crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 39	low: 173	low: 153	low: 311	low: 132	low: 205	low: 308
4.0-4.5: 1	5.1-7.5: 211	medium: 685	medium: 518	medium: 899	medium: 468	medium: 356	medium: 800
4.6-5.0: 23	7.6-10.0: 545	optimum: 789	optimum: 595	optimum: 588	optimum: 1244	optimum: 420	optimum: 826
5.1-5.5: 186	10.1-12.5: 683	above opt: 943	above opt: 1324	above opt: 792	above opt: 746	above opt: 1609	above opt: 656
5.6-6.0: 393	12.5-15.0: 459						
6.1-6.5: 632	>15.0: 653						
6.5-7.0: 746							
>7.0: 609							

Commercial Fruit

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 2	<5.0: 54	low: 17	low: 33	low: 5	low: 25	low: 47	low: 30
4.0-4.5: 10	5.1-7.5: 82	medium: 82	medium: 87	medium: 37	medium: 70	medium: 48	medium: 67
4.6-5.0: 26	7.6-10.0: 63	optimum: 68	optimum: 47	optimum: 50	optimum: 132	optimum: 91	optimum: 67
5.1-5.5: 67	10.1-12.5: 23	above opt: 91	above opt: 91	above opt: 166	above opt: 31	above opt: 72	above opt: 94
5.6-6.0: 89	12.5-15.0: 17						
6.1-6.5: 43	>15.0: 19						
6.5-7.0: 15							
>7.0: 6							

Commercial Potatoes/Rotation

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 19	low: 164	low: 2	low: 7	low: 8	low: 68	low: 147
4.0-4.5: 2	5.1-7.5: 399	medium: 433	medium: 94	medium: 73	medium: 109	medium: 180	medium: 196
4.6-5.0: 11	7.6-10.0: 180	optimum: 19	optimum: 428	optimum: 157	optimum: 395	optimum: 232	optimum: 185
5.1-5.5: 119	10.1-12.5: 20	above opt: 5	above opt: 97	above opt: 384	above opt: 109	above opt: 141	above opt: 93
5.6-6.0: 292	12.5-15.0: 1						
6.1-6.5: 139	>15.0: 2						
6.5-7.0: 49							
>7.0: 9							

Forestry/Christmas trees

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 13	low: 2	low: 15	low: 3	low: 24	low: 44	low: 2
4.0-4.5: 7	5.1-7.5: 17	medium: 14	medium: 31	medium: 14	medium: 33	medium: 15	medium: 11
4.6-5.0: 23	7.6-10.0: 26	optimum: 28	optimum: 10	optimum: 40	optimum: 14	optimum: 6	optimum: 31
5.1-5.5: 26	10.1-12.5: 9	above opt: 30	above opt: 18	above opt: 17	above opt: 3	above opt: 9	above opt: 30
5.6-6.0: 10	12.5-15.0: 4						
6.1-6.5: 5	>15.0: 5						
6.5-7.0: 3							
>7.0: 0							

Soil Test Sample Summary of Major Nutrients  
for  
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Ornamentals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 65	low: 33	low: 15	low: 26	low: 16	low: 39	low: 39
4.0-4.5: 1	5.1-7.5: 69	medium: 91	medium: 108	medium: 82	medium: 74	medium: 111	medium: 118
4.6-5.0: 15	7.6-10.0: 81	optimum: 114	optimum: 111	optimum: 69	optimum: 205	optimum: 133	optimum: 163
5.1-5.5: 49	10.1-12.5: 69	above opt: 155	above opt: 159	above opt: 216	above opt: 98	above opt: 110	above opt: 73
5.6-6.0: 128	12.5-15.0: 30						
6.1-6.5: 110	>15.0: 79						
6.5-7.0: 59							
>7.0: 31							

No crop/Other

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 2	<5.0: 95	low: 103	low: 66	low: 26	low: 9	low: 28	low: 64
4.0-4.5: 10	5.1-7.5: 62	medium: 105	medium: 96	medium: 41	medium: 67	medium: 13	medium: 83
4.6-5.0: 20	7.6-10.0: 70	optimum: 35	optimum: 65	optimum: 46	optimum: 145	optimum: 78	optimum: 69
5.1-5.5: 30	10.1-12.5: 28	above opt: 41	above opt: 57	above opt: 171	above opt: 63	above opt: 165	above opt: 68
5.6-6.0: 49	12.5-15.0: 6						
6.1-6.5: 79	>15.0: 23						
6.5-7.0: 35							
>7.0: 59							

Grand Totals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 8	<5.0: 699	low: 905	low: 805	low: 743	low: 629	low: 991	low: 1468
4.0-4.5: 66	5.1-7.5: 1858	medium: 2963	medium: 2674	medium: 2827	medium: 2379	medium: 1668	medium: 3520
4.6-5.0: 262	7.6-10.0: 2595	optimum: 3474	optimum: 2581	optimum: 2381	optimum: 4329	optimum: 2313	optimum: 2625
5.1-5.5: 1155	10.1-12.5: 1984	above opt: 1746	above opt: 3028	above opt: 3137	above opt: 1751	above opt: 4116	above opt: 1475
5.6-6.0: 2491	12.5-15.0: 933						
6.1-6.5: 2300	>15.0: 1019						
6.5-7.0: 1652							
>7.0: 1154							