

Soil Test Sample Summary of Major Nutrients
for
All 2020 Samples

Agronomic crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 152	low: 125	low: 282	low: 194	low: 260	low: 287	low: 229
4.0-4.5: 8	5.1-7.5: 545	medium: 840	medium: 1119	medium: 916	medium: 763	medium: 416	medium: 1075
4.6-5.0: 41	7.6-10.0: 883	optimum: 1323	optimum: 742	optimum: 596	optimum: 1079	optimum: 749	optimum: 853
5.1-5.5: 337	10.1-12.5: 566	above opt: 118	above opt: 263	above opt: 700	above opt: 304	above opt: 954	above opt: 249
5.6-6.0: 801	12.5-15.0: 195						
6.1-6.5: 733	>15.0: 65						
6.5-7.0: 346							
>7.0: 140							

Lawns & Turf crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 211	low: 144	low: 183	low: 28	low: 95	low: 191	low: 123
4.0-4.5: 6	5.1-7.5: 376	medium: 543	medium: 382	medium: 185	medium: 319	medium: 190	medium: 396
4.6-5.0: 61	7.6-10.0: 291	optimum: 303	optimum: 149	optimum: 473	optimum: 448	optimum: 327	optimum: 318
5.1-5.5: 189	10.1-12.5: 100	above opt: 24	above opt: 300	above opt: 328	above opt: 152	above opt: 306	above opt: 177
5.6-6.0: 324	12.5-15.0: 21						
6.1-6.5: 265	>15.0: 15						
6.5-7.0: 110							
>7.0: 59							

Commercial Vegetables

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 17	low: 79	low: 7	low: 10	low: 30	low: 22	low: 36
4.0-4.5: 0	5.1-7.5: 93	medium: 101	medium: 88	medium: 78	medium: 69	medium: 57	medium: 121
4.6-5.0: 1	7.6-10.0: 70	optimum: 56	optimum: 100	optimum: 81	optimum: 135	optimum: 75	optimum: 78
5.1-5.5: 24	10.1-12.5: 58	above opt: 27	above opt: 68	above opt: 94	above opt: 29	above opt: 109	above opt: 28
5.6-6.0: 57	12.5-15.0: 14						
6.1-6.5: 79	>15.0: 11						
6.5-7.0: 83							
>7.0: 19							

Chemical Home Gardens

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 32	low: 41	low: 31	low: 56	low: 54	low: 78	low: 100
4.0-4.5: 0	5.1-7.5: 72	medium: 223	medium: 182	medium: 258	medium: 132	medium: 93	medium: 234
4.6-5.0: 11	7.6-10.0: 153	optimum: 208	optimum: 186	optimum: 167	optimum: 327	optimum: 129	optimum: 249
5.1-5.5: 59	10.1-12.5: 186	above opt: 225	above opt: 298	above opt: 216	above opt: 184	above opt: 397	above opt: 114
5.6-6.0: 113	12.5-15.0: 120						
6.1-6.5: 151	>15.0: 134						
6.5-7.0: 187							
>7.0: 176							

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Organic Gardens & Crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 69	low: 246	low: 221	low: 464	low: 204	low: 311	low: 291
4.0-4.5: 3	5.1-7.5: 283	medium: 994	medium: 727	medium: 1128	medium: 605	medium: 422	medium: 880
4.6-5.0: 38	7.6-10.0: 771	optimum: 1027	optimum: 783	optimum: 777	optimum: 1604	optimum: 544	optimum: 1126
5.1-5.5: 246	10.1-12.5: 956	above opt: 1164	above opt: 1700	above opt: 1062	above opt: 1018	above opt: 2154	above opt: 1134
5.6-6.0: 538	12.5-15.0: 638						
6.1-6.5: 771	>15.0: 714						
6.5-7.0: 978							
>7.0: 857							

Commercial Fruit

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 57	low: 29	low: 35	low: 5	low: 14	low: 30	low: 22
4.0-4.5: 11	5.1-7.5: 69	medium: 70	medium: 102	medium: 35	medium: 87	medium: 43	medium: 71
4.6-5.0: 20	7.6-10.0: 68	optimum: 94	optimum: 33	optimum: 62	optimum: 127	optimum: 87	optimum: 91
5.1-5.5: 47	10.1-12.5: 33	above opt: 72	above opt: 95	above opt: 163	above opt: 37	above opt: 105	above opt: 81
5.6-6.0: 83	12.5-15.0: 12						
6.1-6.5: 68	>15.0: 26						
6.5-7.0: 30							
>7.0: 5							

Commercial Potatoes/Rotation

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 14	low: 70	low: 10	low: 8	low: 8	low: 29	low: 59
4.0-4.5: 0	5.1-7.5: 152	medium: 179	medium: 60	medium: 38	medium: 68	medium: 72	medium: 108
4.6-5.0: 2	7.6-10.0: 101	optimum: 32	optimum: 154	optimum: 72	optimum: 171	optimum: 98	optimum: 77
5.1-5.5: 65	10.1-12.5: 17	above opt: 6	above opt: 63	above opt: 169	above opt: 40	above opt: 88	above opt: 43
5.6-6.0: 108	12.5-15.0: 2						
6.1-6.5: 81	>15.0: 1						
6.5-7.0: 27							
>7.0: 4							

Forestry/Christmas trees

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 10	low: 5	low: 5	low: 1	low: 18	low: 23	low: 2
4.0-4.5: 3	5.1-7.5: 21	medium: 18	medium: 23	medium: 5	medium: 18	medium: 10	medium: 20
4.6-5.0: 12	7.6-10.0: 18	optimum: 25	optimum: 11	optimum: 30	optimum: 19	optimum: 10	optimum: 22
5.1-5.5: 15	10.1-12.5: 4	above opt: 9	above opt: 18	above opt: 21	above opt: 2	above opt: 14	above opt: 13
5.6-6.0: 19	12.5-15.0: 1						
6.1-6.5: 1	>15.0: 3						
6.5-7.0: 4							
>7.0: 3							

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Ornamentals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 55	low: 52	low: 39	low: 37	low: 28	low: 49	low: 34
4.0-4.5: 2	5.1-7.5: 53	medium: 92	medium: 81	medium: 102	medium: 88	medium: 41	medium: 132
4.6-5.0: 12	7.6-10.0: 63	optimum: 59	optimum: 60	optimum: 69	optimum: 191	optimum: 86	optimum: 116
5.1-5.5: 44	10.1-12.5: 48	above opt: 138	above opt: 161	above opt: 133	above opt: 34	above opt: 165	above opt: 59
5.6-6.0: 99	12.5-15.0: 46						
6.1-6.5: 74	>15.0: 76						
6.5-7.0: 51							
>7.0: 59							

No crop/Other

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 3	<5.0: 22	low: 22	low: 8	low: 21	low: 10	low: 26	low: 12
4.0-4.5: 15	5.1-7.5: 17	medium: 32	medium: 38	medium: 16	medium: 19	medium: 6	medium: 38
4.6-5.0: 9	7.6-10.0: 27	optimum: 20	optimum: 30	optimum: 21	optimum: 47	optimum: 16	optimum: 16
5.1-5.5: 6	10.1-12.5: 18	above opt: 42	above opt: 40	above opt: 58	above opt: 40	above opt: 68	above opt: 50
5.6-6.0: 10	12.5-15.0: 14						
6.1-6.5: 10	>15.0: 18						
6.5-7.0: 25							
>7.0: 38							

Grand Totals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 7	<5.0: 696	low: 813	low: 830	low: 824	low: 725	low: 1063	low: 916
4.0-4.5: 88	5.1-7.5: 1721	medium: 3094	medium: 2865	medium: 2768	medium: 2212	medium: 1389	medium: 3108
4.6-5.0: 256	7.6-10.0: 2453	optimum: 3170	optimum: 2285	optimum: 2376	optimum: 4177	optimum: 2140	optimum: 2967
5.1-5.5: 1049	10.1-12.5: 1988	above opt: 1909	above opt: 3006	above opt: 3018	above opt: 1872	above opt: 4394	above opt: 1995
5.6-6.0: 2152	12.5-15.0: 1063						
6.1-6.5: 2233	>15.0: 1065						
6.5-7.0: 1841							
>7.0: 1360							