

Soil Test Sample Summary of Major Nutrients
for
All 2021 Samples

Agronomic crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 178	low: 131	low: 283	low: 198	low: 189	low: 264	low: 404
4.0-4.5: 7	5.1-7.5: 568	medium: 781	medium: 1047	medium: 860	medium: 846	medium: 323	medium: 1109
4.6-5.0: 54	7.6-10.0: 817	optimum: 1316	optimum: 661	optimum: 636	optimum: 988	optimum: 647	optimum: 644
5.1-5.5: 292	10.1-12.5: 563	above opt: 98	above opt: 335	above opt: 632	above opt: 303	above opt: 1092	above opt: 169
5.6-6.0: 720	12.5-15.0: 150						
6.1-6.5: 696	>15.0: 50						
6.5-7.0: 381							
>7.0: 176							

Lawns & Turf crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 394	low: 234	low: 249	low: 29	low: 100	low: 237	low: 265
4.0-4.5: 3	5.1-7.5: 555	medium: 855	medium: 564	medium: 255	medium: 508	medium: 311	medium: 699
4.6-5.0: 41	7.6-10.0: 393	optimum: 406	optimum: 261	optimum: 780	optimum: 690	optimum: 522	optimum: 422
5.1-5.5: 298	10.1-12.5: 130	above opt: 21	above opt: 442	above opt: 452	above opt: 218	above opt: 446	above opt: 130
5.6-6.0: 529	12.5-15.0: 30						
6.1-6.5: 376	>15.0: 14						
6.5-7.0: 204							
>7.0: 65							

Commercial Vegetables

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 34	low: 102	low: 6	low: 16	low: 12	low: 19	low: 87
4.0-4.5: 0	5.1-7.5: 101	medium: 125	medium: 95	medium: 60	medium: 79	medium: 38	medium: 96
4.6-5.0: 4	7.6-10.0: 103	optimum: 40	optimum: 116	optimum: 104	optimum: 166	optimum: 98	optimum: 85
5.1-5.5: 16	10.1-12.5: 33	above opt: 26	above opt: 76	above opt: 113	above opt: 36	above opt: 138	above opt: 25
5.6-6.0: 44	12.5-15.0: 10						
6.1-6.5: 108	>15.0: 12						
6.5-7.0: 108							
>7.0: 13							

Chemical Home Gardens

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 45	low: 62	low: 76	low: 90	low: 107	low: 147	low: 166
4.0-4.5: 2	5.1-7.5: 107	medium: 293	medium: 215	medium: 322	medium: 175	medium: 115	medium: 387
4.6-5.0: 14	7.6-10.0: 236	optimum: 299	optimum: 226	optimum: 265	optimum: 455	optimum: 204	optimum: 273
5.1-5.5: 127	10.1-12.5: 247	above opt: 341	above opt: 478	above opt: 318	above opt: 258	above opt: 529	above opt: 169
5.6-6.0: 163	12.5-15.0: 141						
6.1-6.5: 186	>15.0: 219						
6.5-7.0: 247							
>7.0: 256							

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Organic Gardens & Crops

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 1	<5.0: 62	low: 234	low: 245	low: 460	low: 150	low: 298	low: 348
4.0-4.5: 8	5.1-7.5: 257	medium: 1018	medium: 739	medium: 1239	medium: 556	medium: 445	medium: 1114
4.6-5.0: 44	7.6-10.0: 774	optimum: 1126	optimum: 818	optimum: 881	optimum: 1860	optimum: 637	optimum: 1175
5.1-5.5: 237	10.1-12.5: 1062	above opt: 1368	above opt: 1944	above opt: 1166	above opt: 1180	above opt: 2366	above opt: 1109
5.6-6.0: 547	12.5-15.0: 682						
6.1-6.5: 800	>15.0: 909						
6.5-7.0: 1106							
>7.0: 1003							

Commercial Fruit

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 80	low: 50	low: 59	low: 13	low: 29	low: 61	low: 67
4.0-4.5: 14	5.1-7.5: 91	medium: 122	medium: 106	medium: 60	medium: 93	medium: 62	medium: 134
4.6-5.0: 32	7.6-10.0: 99	optimum: 86	optimum: 57	optimum: 90	optimum: 236	optimum: 154	optimum: 111
5.1-5.5: 82	10.1-12.5: 48	above opt: 154	above opt: 190	above opt: 249	above opt: 54	above opt: 135	above opt: 100
5.6-6.0: 126	12.5-15.0: 14						
6.1-6.5: 98	>15.0: 80						
6.5-7.0: 53							
>7.0: 7							

Commercial Potatoes/Rotation

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 9	low: 67	low: 7	low: 7	low: 14	low: 38	low: 35
4.0-4.5: 2	5.1-7.5: 192	medium: 235	medium: 62	medium: 54	medium: 71	medium: 90	medium: 107
4.6-5.0: 37	7.6-10.0: 75	optimum: 13	optimum: 201	optimum: 77	optimum: 178	optimum: 122	optimum: 119
5.1-5.5: 72	10.1-12.5: 25	above opt: 6	above opt: 51	above opt: 183	above opt: 58	above opt: 71	above opt: 60
5.6-6.0: 126	12.5-15.0: 15						
6.1-6.5: 63	>15.0: 5						
6.5-7.0: 18							
>7.0: 3							

Forestry/Christmas trees

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 2	<5.0: 26	low: 20	low: 37	low: 1	low: 42	low: 69	low: 17
4.0-4.5: 19	5.1-7.5: 38	medium: 35	medium: 46	medium: 35	medium: 40	medium: 20	medium: 31
4.6-5.0: 27	7.6-10.0: 28	optimum: 40	optimum: 11	optimum: 68	optimum: 34	optimum: 15	optimum: 35
5.1-5.5: 33	10.1-12.5: 23	above opt: 27	above opt: 28	above opt: 18	above opt: 6	above opt: 18	above opt: 39
5.6-6.0: 26	12.5-15.0: 2						
6.1-6.5: 7	>15.0: 5						
6.5-7.0: 3							
>7.0: 5							

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: 42	low: 29	low: 24	low: 27	low: 22	low: 35	low: 46
4.0-4.5: 4	5.1-7.5: 36	medium: 95	medium: 98	medium: 118	medium: 99	medium: 67	medium: 140
4.6-5.0: 14	7.6-10.0: 56	optimum: 67	optimum: 83	optimum: 90	optimum: 198	optimum: 85	optimum: 131
5.1-5.5: 45	10.1-12.5: 70	above opt: 185	above opt: 171	above opt: 141	above opt: 57	above opt: 189	above opt: 59
5.6-6.0: 84	12.5-15.0: 68						
6.1-6.5: 98	>15.0: 104						
6.5-7.0: 75							
>7.0: 55							

No crop/Other

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 0	<5.0: 44	low: 76	low: 31	low: 24	low: 15	low: 40	low: 13
4.0-4.5: 22	5.1-7.5: 104	medium: 69	medium: 102	medium: 63	medium: 74	medium: 45	medium: 75
4.6-5.0: 42	7.6-10.0: 68	optimum: 81	optimum: 52	optimum: 44	optimum: 116	optimum: 53	optimum: 115
5.1-5.5: 43	10.1-12.5: 45	above opt: 76	above opt: 117	above opt: 171	above opt: 97	above opt: 164	above opt: 99
5.6-6.0: 31	12.5-15.0: 27						
6.1-6.5: 55	>15.0: 14						
6.5-7.0: 51							
>7.0: 58							

Grand Totals

soil pH	CEC(target pH)	Organic matter	Phosphorus	Potassium	Magnesium	Calcium	Sulfur
<4.0: 9	<5.0: 1075	low: 1024	low: 1067	low: 865	low: 687	low: 1227	low: 1493
4.0-4.5: 142	5.1-7.5: 2141	medium: 3652	medium: 3203	medium: 3088	medium: 2616	medium: 1592	medium: 3957
4.6-5.0: 444	7.6-10.0: 2667	optimum: 3540	optimum: 2588	optimum: 3127	optimum: 5035	optimum: 2624	optimum: 3173
5.1-5.5: 1310	10.1-12.5: 2253	above opt: 2485	above opt: 3843	above opt: 3621	above opt: 2363	above opt: 5258	above opt: 2078
5.6-6.0: 2401	12.5-15.0: 1146						
6.1-6.5: 2490	>15.0: 1419						
6.5-7.0: 2254							
>7.0: 1651							