

Soil Test Sample Summary of Micronutrients  
for  
All 2021 Samples

**Agronomic crops**

Boron	Zinc	Copper	Iron	Manganese
low: 355	low: 173	low: 407	low: 148	low: 68
medium: 1203	medium: 578	below norm: 1135	below norm: 587	below norm: 512
optimum: 711	optimum: 923	normal: 696	normal: 540	normal: 1037
above opt: 57	above opt: 652	above norm: 88	above norm: 1051	above norm: 709

**Lawns & Turf crops**

Boron	Zinc	Copper	Iron	Manganese
low: 425	low: 75	low: 262	low: 46	low: 90
medium: 899	medium: 300	below norm: 846	below norm: 272	below norm: 481
optimum: 175	optimum: 470	normal: 389	normal: 409	normal: 572
above opt: 17	above opt: 671	above norm: 19	above norm: 789	above norm: 373

**Commercial Vegetables**

Boron	Zinc	Copper	Iron	Manganese
low: 57	low: 43	low: 56	low: 92	low: 55
medium: 152	medium: 86	below norm: 166	below norm: 107	below norm: 135
optimum: 79	optimum: 81	normal: 69	normal: 48	normal: 65
above opt: 5	above opt: 83	above norm: 2	above norm: 46	above norm: 38

**Chemical Home Gardens**

Boron	Zinc	Copper	Iron	Manganese
low: 102	low: 32	low: 151	low: 102	low: 26
medium: 320	medium: 119	below norm: 500	below norm: 414	below norm: 171
optimum: 349	optimum: 196	normal: 309	normal: 190	normal: 369
above opt: 224	above opt: 648	above norm: 35	above norm: 289	above norm: 429

**Organic Gardens & Crops**

Boron	Zinc	Copper	Iron	Manganese
low: 223	low: 89	low: 638	low: 376	low: 94
medium: 926	medium: 318	below norm: 1981	below norm: 1835	below norm: 666
optimum: 1595	optimum: 778	normal: 1052	normal: 844	normal: 1461
above opt: 1002	above opt: 2561	above norm: 75	above norm: 691	above norm: 1525

**Commercial Fruit**

Boron	Zinc	Copper	Iron	Manganese
low: 56	low: 29	low: 66	low: 27	low: 20
medium: 178	medium: 71	below norm: 187	below norm: 131	below norm: 78
optimum: 110	optimum: 82	normal: 146	normal: 84	normal: 109
above opt: 68	above opt: 230	above norm: 13	above norm: 170	above norm: 205

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**Commercial Potatoes/Rotation**

Boron		Zinc		Copper		Iron		Manganese	
low:	71	low:	67	low:	62	low:	26	low:	7
medium:	186	medium:	129	below norm:	102	below norm:	168	below norm:	88
optimum:	60	optimum:	88	normal:	71	normal:	65	normal:	110
above opt:	4	above opt:	37	above norm:	86	above norm:	62	above norm:	116

**Forestry/Christmas trees**

Boron		Zinc		Copper		Iron		Manganese	
low:	29	low:	11	low:	27	low:	9	low:	15
medium:	87	medium:	33	below norm:	52	below norm:	5	below norm:	27
optimum:	5	optimum:	48	normal:	38	normal:	21	normal:	28
above opt:	1	above opt:	30	above norm:	5	above norm:	87	above norm:	52

**Ornamentals**

Boron		Zinc		Copper		Iron		Manganese	
low:	43	low:	8	low:	43	low:	20	low:	6
medium:	125	medium:	25	below norm:	195	below norm:	114	below norm:	45
optimum:	163	optimum:	55	normal:	125	normal:	95	normal:	153
above opt:	45	above opt:	288	above norm:	13	above norm:	147	above norm:	172

**No crop/Other**

Boron		Zinc		Copper		Iron		Manganese	
low:	24	low:	35	low:	11	low:	53	low:	1
medium:	163	medium:	52	below norm:	106	below norm:	44	below norm:	23
optimum:	63	optimum:	50	normal:	147	normal:	37	normal:	70
above opt:	52	above opt:	165	above norm:	38	above norm:	168	above norm:	208

**Grand Totals**

Boron		Zinc		Copper		Iron		Manganese	
low:	1425	low:	577	low:	1771	low:	909	low:	388
medium:	4467	medium:	1728	below norm:	5442	below norm:	3684	below norm:	2248
optimum:	3322	optimum:	2871	normal:	3107	normal:	2342	normal:	4035
above opt:	1487	above opt:	5525	above norm:	381	above norm:	3766	above norm:	4030