

Soil Test Report

Agricultural & Environmental Testing Laboratory
and UVM Extension

Prepared For:



Sample Information:

Order #: 14102
Lab ID: S22-03391

O'Brien

Area Sampled: 2 acres
Received: 10/19/2022
Reported: 10/25/2022
VT County:

Results

Nutrient	Low	Medium	Optimum	High	Excessive
Phosphorus (P): 7.2					
Potassium (K): 145					
Magnesium (Mg): 69					

Analysis	Value Found	Optimal Range (for most crops)
Soil pH (2:1, water)	5.7	6-7
Modified Morgan extractable, ppm		
Phosphorus (P)	7.2	4-7
Potassium (K)	145	100-130
Calcium (Ca)	816	>1000 *
Magnesium (Mg)	69	50-100
Soil Organic Matter %	5.2	*
CEC, meq/100g	8.3	*

Analysis	Value Found	Typical Ranges in VT (ppm)**
Iron (Fe)	12.8	2.4-10.6
Manganese (Mn)	3.1	2.1-9.3
Boron (B)	0.2	0.10-0.60
Copper (Cu)	0.5	0.16-0.30
Sulfur (S)	7.0	5-17
Zinc (Zn)	13.2	0.4-3.2
Sodium (Na)	26.0	6-21
Aluminum (Al)	62	8-107

* Ca content, organic matter %, and CEC are dependent on soil texture. They tend to be high in soils with a lot of clay and low in soils with a lot of sand.
** Ranges shown represent 90% of > 7000 recent soil test results. Micronutrient deficiencies are rare in VT when soil pH is in the optimal range. Al and Na are not nutrients but are shown because at high levels they can cause plant toxicity.

Heavy Metal	Value Found	Normal *	High
Copper (Cu)	0.5	0.16-0.30	more than 10
Zinc (Zn)	13.2	0.4-3.2	more than 80
Cadmium (Cd)	0.1	0.1*	more than 2
Chromium (Cr)	0.1	1.0*	more than 20
Nickel (Ni)	0.2	1.0*	more than 20
Lead (Pb)	22.4	1.0*	more than 50

* Values are mg/kg, or ppm. Normal levels are Vermont averages from non-contaminated soils, and are given for comparison. Results higher than normal but lower than the "high level" are not considered dangerous for growing vegetables.