



The University of Vermont

# Soil Test Report

Agricultural & Environmental Testing Laboratory  
and UVM Extension

**Prepared For:**

Castleton, VT 05735

**Sample Information:**

**Order #:**

**Lab ID:**

**Vegetables**

Received: 10/21/2014

Reported: 11/4/2014

VT County: Rutland

**Results**

Nutrient	Low	Medium	Optimum	High or Excessive
<b>Phosphorus (P):</b>				
<b>Potassium (K):</b>				
<b>Magnesium (Mg):</b>				

**Phosphorus is excessive!!!**

Analysis	Value Found	Optimum Range or Average	Analysis	Value Found	Optimum Range or Average
Soil pH (2:1, water)	8.0		Copper (Cu)	0.2	0.5
<b>Modified Morgan extractable, ppm</b>			Zinc (Zn)	2.6	10
<i>Macronutrients</i>			Sodium (Na)	51.0	20.0
Phosphorus (P)	71.8	4-10	Aluminum (Al)	12	
Potassium (K)	148	100-160	<b>Soil Organic Matter %</b>	2.9	
Calcium (Ca)	3999		<b>Effective CEC, meq/100g</b>	23.2	
Magnesium (Mg)	336	50-120	<b>Base Saturation, %</b>		
Sulfur (S)	11.0		Calcium Saturation	86.3	40-80
<i>Micronutrients</i>			Potassium Saturation	1.6	2.0-7.0
Iron (Fe)	2.1	7.0	Magnesium Saturation	12.1	10-30
Manganese (Mn)	10.5	14.0			
Boron (B)	1.1	0.3			

*Recommendations for Home Vegetable (mixed) (HMLX)*

*Home*

Limestone (Target pH of 6.8)	Nitrogen, N	Phosphate, P <sub>2</sub> O <sub>5</sub>	Potash, K <sub>2</sub> O
lbs / 100 sq ft	lbs / 100 sq ft	lbs / 100 sq ft	lbs / 100 sq ft
0	0.25 - 0.3	0	0.1

**Comments:**

When pH is greater than 6.8, Cation Exchange Capacity (CEC) tends to be overestimated.

Soil tests normally do not measure nitrogen because its availability changes rapidly depending on temperature, moisture and microbial activity. Instead, N application rates are based on plant uptake needs. See enclosed fact sheet for more information.

Your soil tested OPTIMUM or HIGH in both phosphorus and potassium. Add 4-5 lb per 100 sq. ft. of a high-nitrogen fertilizer, such as 6-2-1, 7-3-4; OR 8-10 lb per 100 sq. ft. of alfalfa meal; or whatever your local supplier recommends.

Soil test values for phosphorus are above optimum. Do not add additional phosphorus at this time

**If you have questions about this soil test report, contact the UVM Extension Master Gardening Helpline; from Burlington: 656-5421; from all other parts of the state: 1-800-639-2230.**

**Reference:**