

# Soil Test Report

Agricultural & Environmental Testing Laboratory  
and UVM Extension

**Prepared For:**

Molly Grover  
14 blackbird Swale Drive  
Huntington, VT 05462

deangrover33@gmail.com  
802 999-7854

**Sample Information:**

Order #: 16636  
Lab ID: S24-01389  
Fruit Trees

Area Sampled: 5000 sq ft  
Received: 5/13/2024  
Reported: 5/14/2024  
VT County: Chittenden

**Results**

Nutrient	Very Low	Low	Medium	High	Excessive
<b>Phosphorus (P): 1.2</b>					
<b>Potassium (K): 67</b>					
<b>Magnesium (Mg): 40</b>					

Analysis	Value Found	Optimal Range (for most crops)
Soil pH (2:1, water)	5.2	6-7
<b>Modified Morgan extractable, ppm</b>		
Phosphorus (P)	1.2	10-15
Potassium (K)	67	100-130
Calcium (Ca)	460	>1000 *
Magnesium (Mg)	40	50-100
Soil Organic Matter %	3.5	*
CEC, meq/100g	7.6	*

Analysis	Value Found	Typical Ranges in VT (ppm)**
Iron (Fe)	16.4	2.4-10.6
Manganese (Mn)	6.8	2.1-9.3
Boron (B)	0.1	0.10-0.60
Copper (Cu)	0.2	0.16-0.30
Sulfur (S)	6.0	5-17
Zinc (Zn)	1.4	0.4-3.2
Sodium (Na)	8.0	6-21
Aluminum (Al)	91	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.

*Recommendations for Apples - Maintenance (FAMh)*

*Home*

Limestone (Target pH of 6.5)	Nitrogen	Phosphate, P2O5	Potash, K2O
lbs / 1000 sq ft 200	lbs / 1000 sq ft 1	lbs / 1000 sq ft 2	lbs / 1000 sq ft 3

**Comments:**

To convert fertilizer or lime pounds per acre to pounds per 1,000 sq ft, divide by 40; for lb per 100 sq ft, divide lb per acre by 400  
Your magnesium level is low. Dolomitic limestone is recommended.  
Broadcast recommended nitrogen, P205, and K2O three to four weeks prior to bloom. Increase nitrogen recommendation slightly if planting in sod.  
Consult the New England Tree Fruit Management Guide for more information regarding timing and placement of amendments, and the UVM Fruit website: <http://www.uvm.edu/~fruit/>  
Recommendations for Pear, Plum, and Stone Fruit are the same as for Apple.  
For guidance on fertilizer options and rates, see the tables in the references below.

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## **References:**

Interpreting UVM Soil Test Results

<http://www.uvm.edu/vtvegandberry/factsheets/InterpretingSoilTests.pdf>

New England Small Fruit Management Guide

<https://ag.umass.edu/fruit/ne-small-fruit-management-guide>

**If you are a home gardener and have questions about this soil test report, submit your questions along with your soil test reports by filling out the online form @ <https://www.uvm.edu/extension/mastergardener/helpline>**