

Plant Tissue Analysis Report

with Cornell Nutrient Guidelines

Agro-One
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Cornell University
College of Agriculture
and Life Sciences



Agro-One
Agronomy Services

SHELBURNE VINEYARD
6308 SHELBURNE RD
SHELBURNE, VT 05482

Lab Sample ID 26057370
Crop Grapes, French-American
Variety
Age Mature (8+ years)
Market Processing
Sampled 08/14/2019
Tested 09/10/2019
Statement ID MARQUETTE TREATED
Description MARQUETTE TREATED

Element	DM Basis	Satisfactory Range	Deficient	Low	In Range	High	Excessive
Nitrogen	.75 %	0.8 - 1.2 %					
Potassium	1.45 %	1.3 - 2 %					
Phosphorus	.122 %	0.1 - 0.3 %					
Calcium	1.58 %	1.2 - 2 %					
Magnesium	.392 %	0.35 - 0.5 %					
Manganese	65 ppm	50 - 1000 ppm					
Iron	34.8 ppm	30 - 100 ppm					
Copper	66.75 ppm	5 - 15 ppm					
Boron	39 ppm	30 - 50 ppm					
Zinc	51.6 ppm	35 - 50 ppm					

Additional Elements	As Sampled Basis	Dry Matter Basis
% Sulfur	.19	.22

Nitrogen: Nitrogen values are useful in documenting potential problems. Consult Extension Specialist if value is outside of satisfactory range.

Potassium: Apply 90-120 lbs. K₂O equivalent per acre. Rate needed is best determined from soil test in conjunction with petiole analysis. If soil Mg is also low, use of 0-0-22-11 (sulfate of potash-magnesia) as the source of K is suggested.

Phosphorus: Omit phosphate from fertilizer program.

Calcium: Test soil and apply lime as needed to maintain calcium supply.

Magnesium: Continue present magnesium program.

Manganese: If manganese-containing fungicides or manganese sulfate sprays were applied this year, their use should be continued.

Iron: No correction is suggested.

Copper: High copper levels may indicate contamination of samples with copper from sprays.

Boron: Continue present boron program.

Zinc: High levels may be from fungicide contamination of the sample and do not represent a problem.

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SHELBURNE VINEYARD
6308 SHELBURNE RD
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Lab Sample ID	26057390
Crop	Grapes, French-American
Variety	
Age	Mature (8+ years)
Market	Processing
Sampled	08/20/2019
Tested	09/10/2019
Statement ID	LOUISE SWANSON CONTROL
Description	LOUISE SWANSON CONTROL

Element	DM Basis	Satisfactory Range	Deficient	Low	In Range	High	Excessive
Nitrogen	.74 %	0.8 - 1.2 %	████████████████████				
Potassium	1.41 %	1.3 - 2 %	████████████████████				
Phosphorus	.097 %	0.1 - 0.3 %	████████████████████				
Calcium	1.28 %	1.2 - 2 %	████████████████████				
Magnesium	.636 %	0.35 - 0.5 %	████████████████████				
Manganese	26 ppm	50 - 1000 ppm	████████████████				
Iron	19.9 ppm	30 - 100 ppm	████████████████				
Copper	90.02 ppm	5 - 15 ppm	████████████████				
Boron	33 ppm	30 - 50 ppm	████████████████				
Zinc	36.5 ppm	35 - 50 ppm	████████████████				

Additional Elements	As Sampled Basis	Dry Matter Basis
% Sulfur	.08	.09

- Nitrogen:** Nitrogen values are useful in documenting potential problems. Consult Extension Specialist if value is outside of satisfactory range.
- Potassium:** Apply 90-120 lbs. K₂O equivalent per acre. Rate needed is best determined from soil test in conjunction with petiole analysis. If soil Mg is also low, use of 0-0-22-11 (sulfate of potash-magnesia) as the source of K is suggested.
- Phosphorus:** Low P values are usually associated with low soil pH. Test soil and apply lime as needed.
- Calcium:** Test soil and apply lime as needed to maintain calcium supply.
- Magnesium:** High magnesium may be associated with low K. If both magnesium and potassium are high, consult Extension Specialist.
- Manganese:** If visible symptoms of manganese deficiency have been observed in the vineyard, consider use of manganese-containing fungicides or apply a spray of manganese sulfate (2 to 4 lbs. per acre) 14 - 21 days after bloom.
- Iron:** Low iron levels frequently indicate impaired root activity related to physical damage, excessive or inadequate moisture, or pH effects. Consult Extension Specialist for specific recommendation.
- Copper:** High copper levels may indicate contamination of samples with copper from sprays.
- Boron:** Continue present boron program.
- Zinc:** If zinc sprays were applied this year, they should be repeated next year.

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