

Plant Tissue Analysis Report

with Cornell Nutrient Guidelines

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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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| | |
|---------------|-------------------------|
| 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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