New York Sustainable Viticulture Practices
Workbook Scoresheet
New York Guide to Sustainable Viticulture Workbook Scoresheet

Soil Management

Management Considerations for Sites with High Leaching or Runoff Potential

- If vineyard has a high leaching potential, is a plan in place to minimize this risk?
- If vineyard has a high runoff potential, is a plan in place to mitigate the runoff?

Preplant Considerations

- Are complete soil nutrient analyses done?
- Are soil samples sent for nematode analysis?
- Is preplant soil compaction addressed?
- Are soil pits dug to evaluate the soil profile?
- Are drainage problems addressed?
- If necessary, is soil pH adjusted?
- For sites with low soil organic matter, is additional organic matter added?
- How are vineyard rows oriented with respect to slopes?

Established Vineyard Considerations

- Is pH adjusted if necessary?
- How is soil compaction addressed if evident?
- How is soil erosion addressed?

Row Middle Management

- If cultivation is used in row middles, what practices are used?
- What type of seeded cover crop is used?
- If permanent cover is used in row middles, how is it managed?
- What is the frequency of mowing?
- If mulch is used in row middles for erosion control, how is it managed?

Established Vineyard Considerations

- Is ephemeral or gully erosion occurring on the farm?
- Are filter strips (grass borders along watercourses) used?
- Are drainage problems addressed?
- If a nitrogen supplying cover is used, are its nitrogen contributions factored into the nitrogen needs?

Pesticide Containers

- How is the disposal of pesticide containers handled?
- What type of pesticide containers is purchased?

Pesticide Use

- What is done with unwanted or banned pesticides?
- What is the distance of spray application from water bodies?
- How well are pesticide records kept?

Continuing Education

- Does the Vineyard Manager have these essential publications?
- Does the Vineyard Manager have any of these useful publications?
- Does the Vineyard Manager subscribe to industry newsletters?
- Does the Vineyard Manager subscribe to trade magazines?
- Does the Vineyard Manager attend grower meetings?
- Does the Vineyard Manager attend any other meetings, specifically pest/pesticide management?

Additional Notes:
### Disease Management, cont.

- Does the Vineyard Manager provide or arrange for training of field staff in disease and insect identification?
- Are fungicides with low leaching potential selected for use?
- When possible, are reduced risk/minimum risk/organic fungicides or biopesticides used?
- Is a Botrytis control program in place for susceptible varieties?

### Insect and Mite Management

- Can the Vineyard Manager identify insect and mite pests and the damage they cause?
- Are dormant miticide sprays applied?
- Does scouting for insect and mite pests take place?
- Are insect/mite thresholds considered when making a treatment decision?
- Is spot treatment used for insect/mite infestations?
- Where practical, are reduced risk/minimum risk/organic insecticides and miticides or biopesticides used?
- Is the impact on ERM predators considered when making a treatment decision?
- Are mancozeb products used in a way to minimize their impact on European Red Mite predators?

### Pest Control Management

#### Pesticide Storage

- What type of storage shelving is in place?
- What is the condition of the floor in the pesticide storage area?
- What security measures are taken at the storage area?
- What is the storage duration of the pesticides?
- What is the condition of the containers?

#### Mixing and Loading Practices

- What is the proximity of the mixing/loading area to wells and watercourses?
- Is a spill kit available?
- How are spills handled?
- What type of mixing and loading area is used?
- What is the water source for pesticide applications? Is an anti-backflow device in place?
- Is filling supervised by a certified applicator?
- How is the sprayer cleaned, and how is rinsate disposal handled?
- Is an inspection and emergency plan in place?

### Established Vineyard Considerations, cont.

- For soils with low organic matter, is additional organic matter added?
- Is biodiversity of soil microorganisms considered in soil management decisions?
- How is pomace utilized?

### Nutrition Management

#### Monitoring Nutrient Status

- Is tissue analysis done on a regular basis?
- Is soil analysis done on a regular basis?

#### Nitrogen (N) Management Practices

- What criteria are used to determine the rate of N fertilization?
- What is the total amount of supplemental N fertilizer applied from all sources?
- Is contribution of N from organic sources considered?
- Are different rates/timing of N fertilization tried to reduce overall N use?
- Are organic fertilizers used?
- When is N fertilizer soil-applied in spring?
- If N fertilizer is soil-applied during the post-harvest period, what criteria are used?
- In irrigated vineyards, how is N fertilizer applied?
- If foliar N is used, when is it applied?

#### Macronutrient Management Practices

- How are macronutrient (P, Ca, Mg, K) levels managed in soil?
- Is the base saturation ratio in the soil analysis within recommended ranges?

#### Micronutrient Management Practices

- How are micronutrients (B, Mn, Zn) managed?
- What criteria are used for foliar and ground application of micronutrients?

#### Fertilizer Storage

- What is the storage duration of fertilizers?
- What type of storage is used for dry formulations?
- What is the condition of the containers?
- What security measures are taken at the storage area?
- What is the distance from the fertilizer storage to the nearest waterbody or well?
<table>
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<th><strong>Plant Material and Planting</strong></th>
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**Irrigation Management**

| ____ Is there off-site water movement? |
| ____ What type of irrigation do you use? |

**Irrigation System Maintenance**

| ____ Do you check for distribution uniformity? |
| ____ Is routine maintenance performed on the irrigation system? |
| ____ Is a flow meter installed? |

**Irrigation Scheduling**

| ____ Is the vineyard’s soil water holding capacity used in setting irrigation schedules? |
| ____ Are monitoring devices used to determine the irrigation schedule? |
| ____ What factors are used to determine the length of time for irrigation? |

**Weed Management**

| ____ Is vineyard monitored and mapped for weeds? |
| ____ What percent of the area between rows contains permanent ground cover? |
| ____ Are non-chemical weed management techniques being used? |
| ____ In planning a weed control program, how are control methods and rates chosen? |
| ____ Are the leaching potential of herbicides & soil characteristics considered in choosing soil-applied herbicides? |
| ____ What type of herbicide sprayer is used? |
| ____ Is the herbicide sprayer calibrated properly? |
| ____ Are residual herbicides rotated to reduce the potential for resistant weeds? |
| ____ Is the amount of spring residual herbicide adjusted based on soil characteristics? |
| ____ What types of postemergence herbicides are used? |
| ____ How often are postemergence herbicides applied? |
| ____ Is spot treatment of weeds used to reduce the amount of postemergence herbicides used? |

**Pest Management**

**Pesticide Application Equipment**

| ____ What type of canopy sprayer is used? |
| ____ Are the selected nozzles appropriate for use? Are they replaced when worn? |
| ____ Is the canopy sprayer calibrated properly? |
| ____ Are environmental conditions considered before deciding to spray? |
| ____ Is the canopy sprayer maintained properly? |

**Pruning and Dormant Vineyard Practices**

| ____ Is pruning done in a way to minimize overwintering pathogens and insects? |
| ____ Can the Vineyard Manager identify Eutypa dieback symptoms? |
| ____ Can the Vineyard Manager identify symptoms of crown gall infection? |
| ____ Are dormant fungicide sprays applied? |

**Disease Management**

| ____ Are canopy management practices followed to minimize fungal disease pressure? |
| ____ When planning a disease management program, is block history taken into account? |
| ____ What actions are taken to minimize disease pressure in Labrusca varieties? |
| ____ Can Vineyard Manager identify fungal and viral disease symptoms on shoots/leaves/fruit? |
| ____ How are virus-infected vines dealt with? |
| ____ Is scouting done for fungal and viral diseases? |
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Vineyard Management

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