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SWP Workbook Criteria Number	SWP Workbook Criteria Name	Vineyard and/or Winery Criteria	Pre-requisite	Category 2 Text	Category 1 Text
3-12	Addressing Biological Problems	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Soil was fumigated to address a biological problem verified by testing, with spot fumigation done (if possible).	Soil was fumigated without testing the soil and determining that a biological problem existed.
3-16	Scion/Cultivar	Vineyard	Must be Category 2 or higher	The scion was not tested for viruses, but some production history was known <b>And</b> The scion is appropriate for climate, soil of site, and rootstock.	Scion was not tested for viruses, and no production history was known <b>And</b> No consideration was given for climate, soil of site, or rootstock.
3-19	Conservation of Habitat for Wildlife and Pest Natural Enemies	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	During vineyard establishment and/or development, some habitat was destroyed but other was created.	During vineyard establishment and/or development, habitat was destroyed and no new habitat was created.
3-20	Creation of Habitat for Wildlife and Pest Natural Enemies	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Resident vegetation was allowed to grow without mowing or disking in some non-crop areas (e.g., fence lines, ditchbanks).	No habitat was created.
4-5	Nitrogen Management	Vineyard	Must be Category 2 or higher	Nitrogen is applied only if justified by petiole analysis and inadequate vine vigor And Nitrogen is applied at one time during the year, but never when vines are dormant.	Nitrogen is applied every year despite more-thanadequate vine vigor (e.g., canes longer than 5 feet) And/Or Nitrogen is applied when vines are dormant.
4-10	Knowledge of Soil Series, Water-Holding Capacity and Erosion Potential	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I know the types of soil in my vineyard, but not the water-holding capacity, erosion hazard, wilting point, and infiltration rate for each type.	I do not know the types of soil in my vineyard.
4-11	Surface Water Diversions for Erodible Sites	Vineyard	Action plan required if Category 1 and Category 2 or higher for subsequent assessment years	Annual drainage structures are utilized during the winter <b>And</b> Moderate erosion occurs in the vineyard and alongroads.	No erosion control by means of water diversion devices are installed or maintained <b>And</b> Significant erosion occurs.



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4-16	Erosion from Roads, Ditches, and Culverts	Vineyard	Must be Category 2 or higher	<p>I have taken action(s) to eliminate obvious sources of erosion (e.g., outsloped or vegetated roads, vegetated or hardened* ditches, incorporated riprap** into culvert outflows)</p> <p><b>But</b></p> <p>I have not developed a comprehensive erosion control plan customized for my roads, ditches, and culverts</p> <p><b>And</b></p> <p>My road maintenance is sporadic (i.e., as needed) rather than preventive and regularly scheduled.</p>	<p>Erosion occurs on roads, in ditches, or at culverts associated with my vineyard</p> <p><b>But</b></p> <p>I have not taken corrective action(s) or developed an erosion control plan for my roads, ditches, and culverts.</p>
5-1	Water Management Strategy	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	My water management strategy* is based on grapegrowing goals set before the growing season (yield, fruit quality, canopy characteristics, floor management, and fertility requirements) and accounts for soil types, slopes, and irrigation water quality.	I have not developed a water management strategy for my vineyard.
5-2	Monitoring and Amending Quality of Irrigation Water	Vineyard	Action plan required if Category 1, but no timeline to move to Category 2 or higher	If my irrigation water is from a well, it is tested occasionally for at least pH, salinity or total dissolved solids (electrical conductivity), and nitrate.	The quality of my irrigation water has never been tested.
5-3	Off-Site Water Movement	Vineyard	Action plan required if Category 1, but no timeline to move to Category 2 or higher	My irrigation practices cause no runoff, but runoff occurs during high rainfall events <b>And</b> Drainage systems are not in place to minimize offsite movement of silt, pesticides, and/or fertilizers.	Runoff occurs both when I irrigate my vineyard and during rainfall events <b>And</b> Drainage systems are not in place to minimize offsite movement of silt, pesticides, and/or fertilizers.
5-6	Filters and Lines	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Water filters in my irrigation system are inspected and cleaned when pressure differences are found, and irrigation lines are flushed every spring.	Water filters in my irrigation system are not regularly inspected and cleaned, and irrigation lines are not regularly flushed.
5-7	Flow Meters	Vineyard	Action plan required if Category 1, but no timeline to move to Category 2 or higher	Flow meters are installed on lines from my wells or other pumps, but flows are not monitored during each irrigation.	Flow meters are not installed on lines from my wells or other pumps.



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5-8	Soil Water-Holding Capacity	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I guess the soil water-holding capacity of my vineyard (based on soil type) <b>And</b> This information is used for irrigation scheduling and overall water management.	I do not know the soil water-holding capacity of my vineyard.
5-9	Soil Moisture and Plant Water Status Monitoring Methods	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I use a shovel or bucket auger and the "squeeze test" to estimate the amount of available water in my vineyard soil and schedule irrigation <b>Or</b> Plant water status is monitored by visually assessing shoot tips and tendrils.	I do not measure soil moisture and water availability in my vineyard to schedule irrigation.
5-11	Water Budget	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I base the amount of water applied at each irrigation on vine appearance and general weather conditions.	I apply water to my vineyard on a calendar basis (e.g., the same amount each week or year regardless of ETc).
5-13	Fertigation	Vineyard	Action plan required if Category 1 or 2; Category 3 or higher for subsequent assessment years	I fertigate without first checking the soil or vine nutrient status.	I have a drip-irrigation system but never use it to apply fertilizers.
6-1	Vineyard Monitoring for Insects and Mite Pests	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I or my PCA monitors my vineyard periodically for insect and mite pests.	My vineyard is rarely or never monitored for insect and mite pests.
6-2	Economic Thresholds and Pest-Natural Enemy Ratios for Leafhoppers, Mites, and Thrips	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Control decisions for leafhoppers, mites, and thrips are based on the presence of these pests in the vineyard.	Control decisions for leafhoppers, mites, and thrips are based on the time of the year and/or past problems with these pests (calendar spraying).
6-3	Use of Broad-Spectrum/Long-Residue Insecticides and Miticides	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Broad-spectrum/longresidual insecticides and/or miticides are sometimes used but at lower than labeled rates (see Box 6-9) <b>And</b> Impacts to beneficial insects and mites are considered when selecting insecticides or miticides	Broad-spectrum/longresidual Insecticides and/or miticides are used on a calendar basis <b>And</b> Impacts to non-target organisms are not considered when selecting insecticides or miticides.
6-4	Use of Reduced-Risk Insecticides and Miticides	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I use reduced-risk materials at least every other application when an insecticide or miticide is necessary.	I never use reduced-risk insecticides or miticides.




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6-6	Dust Abatement in and Around Vineyards for Mite Management	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I control vehicle speed on unpaved roads surrounding my vineyard.	My grandkids do doughnuts with four wheelers on dry dirt roads surrounding my vineyard <b>Or</b> Vehicle speed is not controlled nor is dust suppressed on surrounding unpaved roads.
6-7	Use of Weather Data and Degree-Days for Managing Moth Pests	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I treat for moth pests based on time of year or vine development (e.g., bloom) and past experience.	I treat for moth pests when it is convenient.
6-8	Portion of Vineyard Treated for Mites or Leafhoppers	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I identify pest hotspots only as an indicator of a problem <b>And</b> I treat the entire vineyard when controlling mites or leafhoppers.	I do not identify pest hotspots <b>And</b> I treat the entire vineyard when controlling mites or leafhoppers.
6-11	<i>Pseudococcus</i> Mealybugs	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I annually monitor for <i>Pseudococcus</i> mealybugs <b>And</b> I treat my entire vineyard for <i>Pseudococcus</i> mealybugs each year.	I do not monitor for <i>Pseudococcus</i> mealybugs <b>And</b> I treat the entire vineyard for <i>Pseudococcus</i> mealybugs each year.
6-12	Vineyard Monitoring for Disease	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I or my PCA monitors my vineyard periodically for diseases.	My vineyard is rarely or never monitored for diseases.
6-14	Use of Reduced-Risk Fungicides for Powdery Mildew and Botrytis Control	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I rotate reduced-risk fungicides* with other materials for powdery mildew and Botrytis control <b>But</b> I do not intentionally rotate products with different modes of action.	I do not consider environmental and human health risks when selecting fungicides for powdery mildew and Botrytis control.
6-17	Identification of Causal Agent of Bunch Rot	Vineyard	Action plan required if Category 1 or 2; Category 3 or higher for subsequent assessment years	<b>(Category 3)</b> When bunch rot occurs, the causal agent(s) is identified as Botrytis (a fungus) or sour rot (a complex of bacteria and fungi).	When bunch rot occurs, I do not consider identifying the causal agent.
6-18	Pierce's Disease Management where Blue-Green Sharpshooter is Primary Vector	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I execute a PD management plan that consists of annual insecticide applications for blue-green sharpshooter.	I have no PD management plan despite PD being a problem in or around my vineyard <b>And</b> Pesticides may be applied without information on vector and disease presence.
6-20	Vineyard Monitoring for Weeds	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I or my PCA monitors my vineyard periodically for weeds.	My vineyard is rarely or never monitored for weeds.



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6-23	Herbicide Leaching Potential and Movement in Surface Water	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I annually use simazine (e.g., Princep, Caliber), diuron (e.g., Karmex, Direx), or norflurazon (Solicam), but not where sandy or gravelly soils or high water tables exist or where drip irrigation is applied at frequent intervals.	I use simazine (e.g., Princep, Caliber), diuron (e.g., Karmex, Direx), or norflurazon (Solicam), regardless of leaching potential or irrigation type and frequency.
6-24	Timing of Herbicide Treatments for Perennials	Vineyard	Action plan required if Category 1 or 2; Category 3 or higher for subsequent assessment years	I spray perennial weeds when they are big and ugly (mature) and full of seed.	I do not control perennial weeds in my vineyard, leading to seeds/plant parts (e.g., rhizomes, tubers, stolons) that spread the weed problem.
6-26	Vineyard Monitoring for Vertebrate Pests	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I or my PCA monitors my vineyard quarterly or less for vertebrate pests.	My vineyard is rarely or never monitored for vertebrate pests.
6-27	Vertebrate Pest Management	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I regularly use anticoagulant and/or strychnine baits to control vertebrate pests but ensure non-target animals cannot ingest them <b>Or</b> Fumigants or explosive devices are used.	I use toxic baits and fumigants to control vertebrate pests without considering potential impacts to non-target animals.
6-28	Area of Vineyard Treated for Vertebrate Pests	Vineyard	Action plan required if Category 1, but no timeline to move to Category 2 or higher	[No Category 2 or 3 for this criteria]	When toxic baits or fumigants are used for vertebrate problems, I treat the entire vineyard.
6-31	Sprayer Calibration and Maintenance	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I calibrate my sprayer every year <b>And</b> I check nozzle wear, nozzle variation, and spray coverage every other year or less.	I check nozzle wear, nozzle variation, and spray coverage every other year or less.
6-32	Spray Coverage	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Nozzles are positioned and opened or closed as canopy size and density change during the season.	The sprayer(s) is driven as fast as ground conditions allow <b>And/Or</b> Nozzles are not positioned and opened or closed as canopy size and density change during the season.
6-33	Buffer Zone	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I establish reasonable buffer zones* near sensitive areas** <b>Or</b> Applications are avoided when winds are blowing toward sensitive areas.	I give little consideration to establishing buffer zones* near sensitive areas**, other than as required by the pesticide label.
6-38	Restricted-Use Materials	Vineyard	Must be Category 2 or higher	I avoid using category I and restricted-use pesticides in my vineyard.	I use category I or restricted-use pesticides in my vineyard but am working with PCA to look for alternatives




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7-8	Planning, Monitoring, Goals and Results	Vineyard and Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	A food safety and security plan is being investigated or developed that focuses on preventive measures to minimize food safety and security risks for winegrapes and/or wine.	No plans are in place to investigate and develop a food safety and security plan that focuses on preventive measures to minimize food safety and security risks for winegrapes and/or wine.
8-2	Developing a Sustainability Strategy in the Context of Ecosystem Management	Vineyard and Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	Our company has a documented mission statement that includes sustainability elements <b>And</b> Our company is planning to add vision and values statements that focus on sustainability.	Our company has no plans to develop a documented company mission, vision, or values that focuses on sustainability.
8-3	Ecosystem Processes Water Cycle	Vineyard and Winery	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I understand the amount of water that enters my property by monitoring and recording rainfall <b>And</b> I know the total water used by my vineyard and/or winery operations by monitoring water use.	Our operation does not monitor and record rainfall or keep track of the total water used by vineyard and/or winery operations.
8-4	Ecosystem Processes Nutrient or Mineral Cycles	Vineyard and Winery	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	Our operation is in the process of developing nutrient budgets by monitoring nutrient inputs and outputs in our vineyard and/or winery operations <b>And</b> We implement practices to increase nutrient cycling (composting, cover cropping, use of treated water from ponds, etc.).	Our operation does not monitor nutrient inputs and outputs in an effort to develop nutrient budgets.
8-6	Ecosystem Processes Community Dynamics	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I am aware that community dynamics are important in my vineyard and impacted by management of the soil and vineyard floor, fencing system (if applicable), and edges and buffer areas <b>And</b> I am working to understand how to optimize practices to take advantage of the ecological services provided through community dynamics.	I am generally not aware of how community dynamics impact my vineyard.
8-8	Watershed Management	Vineyard and Winery	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I am aware of the main watershed in which my vineyard and/or winery is located.	I am not aware of the main watershed in which my vineyard and/or winery is located.
8-9	Enhancing Habitat Through Vegetation Management in and Around the Vineyard	Vineyard	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I maintain cover crops appropriate to each vineyard site*.	Vineyards are kept free and clean from any vegetation within and around their edges.

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8-14	Ecosystem Management - Riparian Habitat	Vineyard	Action plan required if Category 1, but no timeline to move to Category 2 or higher	Vines are not planted up to the edge of the watercourse but no vegetated buffer exists.	The vineyard is planted up to the edge of the watercourse to maximize the land area used for producing winegrapes (in accordance with legal requirements).
8-15	Ecosystem Management - Aquatic Habitats: Streams, Rivers, and Wetlands	Vineyard	Action plan required if Category 1, but no timeline to move to Category 2 or higher	Aquatic habitats near vineyards are considered in vineyard site selection and management (e.g., soil type and erosion ratings, slope of area, natural vegetation, and drainage are all considered to prevent off-site movement of sediments).	If nearby aquatic habitats are present, they are not considered in vineyard planning or management (except for complying with legal requirements).
8-18	Use of Pesticides Toxic to Terrestrial and Aquatic Wildlife	Vineyard	Must be Category 2 or higher	Pesticide toxicity to wildlife is considered when choosing pesticides to use in the vineyard <b>And</b> Considerations include timing applications to minimally impact wildlife during their breeding season.	Toxicity to wildlife is not considered when choosing pesticides to use in the vineyard.
8-19	Sensitive Species	Vineyard and Winery	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I am aware of and know most of the threatened, endangered, and/or sensitive species that occur in the region.	I am uninformed about sensitive species in my winegrowing and/or winemaking operation.
9-1	Planning, Monitoring, Goals and Results	Vineyard and Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	An energy audit* of the overall vineyard and/or winery operation has been conducted in the last 2 years <b>And</b> I am using the results from the audit to make decisions on maintenance, capital improvements, and employee training.	I have a general idea of total energy use per year in my vineyard and/or winery operation.
10-1	Water Conservation Planning, Monitoring, Goals, and Results	Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	The water quality used in winemaking operations is tested yearly <b>And</b> I am using the results from the testing for making decisions on capital improvements, maintenance, and employee training <b>And</b> Pretreatment options are being considered (if needed).	Water used in winemaking operations is known to be potable <b>And</b> I do not know the quality of the water <b>And</b> No pretreatment of water is done.



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10-2	Water Quality Planning, Monitoring, Goals, and Results	Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	The water quality used in winemaking operations is tested yearly <b>And</b> I am using the results from the testing for making decisions on capital improvements, maintenance, and employee training <b>And</b> Pretreatment options are being considered (if needed).	Water used in winemaking operations is known to be potable <b>And</b> I do not know the quality of the water <b>And</b> No pretreatment of water is done.
11-1	Planning, Monitoring, Goals and Results	Vineyard and Winery	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	I have begun to monitor and record information on the total amount of hazardous (haz) materials purchased and haz waste generated <b>And</b> I am in the process of establishing goals for overall P2 and haz waste reduction per specific operation <b>And</b> Local, state, and federal regulatory agencies are considered potential resources for P2 information.	I have little idea about the total amount of hazardous (haz) materials purchased and haz waste generated <b>And</b> Compliance is considered as a separate liability issue
12-1	Planning, Monitoring, Goals and Results	Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	A solid waste audit for the winery has been conducted in the last 2 years <b>And</b> I am using results from the audit to make decisions on procurement, inventory procedures, production, packaging, and employee training <b>And</b> Information about reducing, reusing, and recycling solid waste is easily accessible to all employees.	I have no idea of the total solid waste generated per year by our winery.
14-1	Sustainability Mission, Vision and Values	Vineyard and Winery	Action plan required if Category 1, but no timeline to move to Category 2 or higher	My company has a documented mission statement that includes sustainability elements <b>And</b> We are planning to add vision and values statements that focus on sustainability.	My company has no plans to develop a documented company mission, vision, or values that focus on sustainability.



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15-1	<b>Planning, Monitoring, Goals and Results</b>	<b>Vineyard and Winery</b>	Action plan required if Category 1; Category 2 or higher for subsequent assessment years	<p>I am becoming aware of neighbor issues by investigating relevant concerns  <b>And</b>                      I am becoming aware of community issues by investigating relevant concerns  <b>And</b>                      I am investigating the development of a locally relevant outreach plan to foster an open dialogue with neighbors and the community, address concerns, and share our sustainability values  <b>And</b>                      I try to react to issues before neighbors and/or the community demand action.</p>	<p>I am generally not aware of neighbor and community issues  <b>And</b>                      No plans are in place to investigate locally relevant neighbor issues (e.g., traffic, noise, light, air quality, agricultural and winery chemicals)  <b>And</b>                      No plans are in place to investigate locally relevant community issues (e.g., housing, education, transportation, health care, water supply, agricultural and winery chemicals, smart growth)  <b>And</b>                      I react to issues only when neighbor and/or community outcry demands action.</p>
15-2	<b>Sustainability Values Statement</b>	<b>Vineyard and Winery</b>	Action plan required if Category 1, but no timeline to move to Category 2 or higher	<p>A sustainability values statement has been expressed verbally  <b>And</b>                      Effort has been made to develop a formal sustainability values statement  <b>And</b>                      Our business value is expanded beyond strictly economic terms to include environmental and social factors.</p>	A sustainability values statement has not been developed.