

Program Updates 2016

Sustainability in Practice (SIP) Certification



Document Includes

- Changes made to the 2015 Information Package which apply to 2016 Information Package.
- Changes made to the 2015 Standards which apply to 2016 Standards.

Vineyard Certification Year and Inspection Schedule

The 2016 SIP Vineyard Certification cycle runs from December 1, 2015 through November 30, 2016. All documentation needs to be present in time for inspections between June 1 and July 15, 2016.

How to Use the Update Package

Under the Update column you will find the following information:

- Words in **bold** show changes made to the 2015 Information Package and Standards that apply to the current 2016 Information Package and Standards.
- NEW = New SIP rule or Standard farming practice. If the change is a new Standard it should be documented for vineyards in all Cycles (1, 2 and 3).
- Edit = Any change including content, verbiage, and punctuation.
- Moved = Existing question moved to another section or chapter.
- Deleted = A question that was removed.

Documentation Process

Enter all Standards documentation in the online SIP database at <https://app.sipcertified.org>. All vineyards should document questions marked with New, Edit, and Deleted. Additionally, vineyards in Cycle 2 or 3 should document database Standards marked D or D+O based on the vineyard's inspection type as shown in the SIP database. If you are in Cycle 2 or 3 with a Documentation inspection and have not received a Documentation and Onsite OR Impromptu inspection in the past 6 years, you are eligible for an Impromptu inspection and should document Standards marked D and D+O. Vineyards in Cycle 1 should review and update the Standards in their entirety.

Other Documents

The complete 2016 Information Package and Standards can be found in the online SIP database at <https://app.sipcertified.org> and online at www.sipcertified.org by going to Get Certified → Vineyards → Program Documents.

Feel free to contact me with any questions.

Sincerely,

Beth Vukmanic Lopez, Certification Manager
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Information Package

Certification Advisory Committee (CAC)

Update	Section	Information Package
Edit	Membership	<ul style="list-style-type: none"> Terms are three year staggered intervals not to exceed three two terms...

Vineyard Certification

Update	Section	Information Package
Edit	Farming Company with Multiple Vineyards	<p>A single owner managing multiple ranches can combine documentation and inspections for vineyards under one application. Unless specified in the Standards, documentation can be a representative sample of the properties. Specific vineyard documentation will need to be available present for all vineyards if requested by the inspector. but Consistent information (e.g. Human Resources) can be documented once. Inspectors will review the most representative set of documentation and spot check documentation for all the vineyards. Onsite inspections will be conducted at sample all properties.</p>

Winery Certification

Update	Section	Information Package
NEW	All	See pages 31 – 42 of the Information Package for complete rules.

Product Certification

Update	Section	Information Package
NEW	All	See pages 53 – 62 of the Information Package for complete rules.

Inspection Procedures

Update	Section	Information Package
NEW	Inspection Report Check List	<ul style="list-style-type: none"> Request additional documentation when provided information in insufficient.

Style Guide

Update	Section	Information Package
NEW	Edit	Posted early December.

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

SIP Vineyard Certification Standards

1 Conservation and Enhancement of Biological Diversity

Question	Update	Type	Standard
1.1	Moved	NA	1.1.9 (was 1.1.10); 1.1.10 (was 1.1.11)
1.1.7	D+O	ME	<p>Do you have bat boxes as a means of insect pest control and/or raptor perches or owl boxes as a means of vertebrate pest control?</p> <p><input type="checkbox"/> YES: 5 <input type="checkbox"/> NO: 0</p> <p>Provide photo documentation of bat box, owl box, and/or raptor perch.</p>
1.1.8 (was 1.1.9)	Deleted Moved	ME	<p>Do you manage adjacent habitat areas, outside the vineyard, to control the spread of noxious weed species?</p> <p><input type="checkbox"/> YES: 5 <input type="checkbox"/> NO: 0</p> <p>If yes, describe management practices. Reference Pest Management, Weed Management, Management Enhancement 8.5.4.</p> <p>Do you avoid the spread of noxious weed species by using clean cover crop seed?</p> <p><input type="checkbox"/> YES: 3 <input type="checkbox"/> NO: 0</p> <p>If yes, include sample copy of cover crop seed bag tag indicating test results of cleaning process. Reference Pest Management, Weed Management, Management Enhancement 8.5.4.</p>

2 Vineyard Acquisition, Establishment & Management

Question	Update	Type	Standard
2.1.5	Edit	ME	<p>If the soil was alkaline (Sodium Adsorption Ratio ≥ 13), did you take corrective action?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, describe corrective actions taken. If Not Applicable, reference soil test and provide written explanation.</p>
2.1.6	Edit	ME	<p>If the soil was saline (Electrical Conductivity > 4 dS/m), did you take corrective action?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, describe corrective actions taken. If Not Applicable, reference soil test and provide written explanation.</p>
2.1.7	Edit	ME	<p>If your soil was acidic (pH < 5.5), did you take corrective action?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, describe corrective actions taken. If Not Applicable, reference soil test and provide written explanation.</p>
2.1.12 (was 2.3.2)	Edit	ME	<p>Prior to planting or purchasing the vineyard property, did you check with the Regional Water Quality Control Board for any 303(d) listed impaired water bodies located in or around the vineyard?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0 <input type="checkbox"/> NA</p> <p>If yes, identify the water body. Not applicable only if current owner did not establish the vineyard; provide statement.</p>
2.2.6	NEW	ME	<p>Prior to receipt of plant material, did you test for virus?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>Attach virus tests.</p> <p>Do you have a rootstock and/or clonal selection trial on your site (Note: This does not have to be a replicated trial.)?</p>
2.3	Edit Moved	NA	<p>Spacing, and Orientation and Trellis Selection (combined 2.3 and 2.4)</p> <p>2.3.3 (was 2.4.1); 2.3.4 (was 2.4.2); 2.3.5 (was 2.4.4);</p>

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
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2.3.1	Edit	ME	Prior to planting or purchasing the vineyard property , did you determine the percent slope and aspect of each potential planting block and the total acres of land within ranges of slope having different levels of erosion risk? <input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0 Provide a written description of slope and soil erosion potential considerations.
2.3.2	NEW	ME	Did you choose spacing based on soil type, rootstock, terrain, variety, and clone? <input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0 If yes, explain.
2.4 (was 2.5)	Moved	NA	2.4. Canopy Management (was 2.5) 2.4.1 (was 2.5.1); 2.4.2 (was 2.5.2)
2.4.3 (was 2.5.3)	Deleted Moved	ME	Do you have a trellis trial plot? <input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0 If yes, describe trellis trial.
2.4.4 (was 2.5.4)	Edit	ME	If needed, are you removing leaves and/or laterals in the fruit zone to reduce disease and pests or improve wine quality? If not, explain why leaf pulling is not necessary. <input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0 <input type="checkbox"/> NA Provide leaf and/or lateral removal records and before and after photo documentation.
2.5 (was 2.6)	Edit Moved	NA	2.5 Tissue Analysis (was 2.6) 2.5.3 (was 2.6.3); 2.5.4 (was 2.6.4)
2.5.1 (was 2.6.1)	Edit	ME	Do you take annual tissue samples? <input type="checkbox"/> YES: 3 2 <input type="checkbox"/> NO: 0 Provide results of the most recent tissue sample.
2.5.2 (was 2.6.2)	Edit	ME	If your vines exhibit nutritional problems, have you correlated them with your tissue tests and taken corrective action? <input type="checkbox"/> YES: 4 2 <input type="checkbox"/> NO: 0 If yes, document nutritional problems, tissue tests, and your corrective action(s). If Not Applicable, provide written explanation.
2.5.5	NEW	ME	Have you tested the vineyard for virus? <input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0 Attach virus tests.
2.5.6	NEW	ME	Did you test vines for virus prior to grafting? <input type="checkbox"/> YES: 1 <input type="checkbox"/> NO: 0 <input type="checkbox"/> NA Attach virus tests. Not Applicable if the vineyard was not grafted.
2.6 (was 2.7)	Edit Moved	NA	2.6 Fertilization (was 2.7) 2.6.2 (was 2.7.2); 2.6.3 (was 2.7.3); 2.6.4 (was 2.7.4); 2.6.6 (was 2.7.6); 2.6.7 (was 2.7.7); 2.6.8 (was 2.7.8); 2.6.9 (was 2.7.9)
2.6.1 (was 2.7.1)	Edit D	Req	You must provide tissue samples from within the last year. Attach analysis results from within the last year. You must provide well water quality analysis, soil analysis, and tissue samples from within the last five years.
2.6.2	D	Req	You must base <i>nutrient</i> applications on the vineyard's nutrient application plan. Attach nitrogen or other nutrient budget. Provide a written description of how your nutrient applications correlate with your nutrient budget.

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

2.6.3	D	Req	<p>You must annually add organic matter to the soil, such as compost, manure, municipal green waste, green manure from your cover crop, and/or mulch. Organic matter must be managed in such a way to prevent the introduction of unwanted pests, pathogens, and weed species as well as to prevent nutrient leaching.</p> <p>Attach organic matter application records.</p> <p>Provide written description of management practices that prevent the introduction of unwanted pests, pathogens, and weed species as well as prevent nutrient leaching.</p>
2.6.5 (was 2.7.5)	Edit	ME	<p>Do you utilize any properly composted local green waste and incorporate it into your vineyard operation (i.e., municipal green waste or other crop or food processing residues)?</p> <p>Attach records for green waste. Provide a written description of your local green waste diversion program.</p>

3 Soil Conservation & Water Quality

Question	Update	Type	Standard
3.1.1	NEW	Req	The soil must be sampled and tested at least every five three years for nutrient content and monitored for pH, Electrical Conductivity (EC), and toxicities. Attach results of soil samples within the last three years. If toxicities or deficiencies were detected, describe action taken.
3.1.9	D+O	ME	<p>Do you store liquid materials separately from dry materials, and are dry materials elevated above the spill zone?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, provide photo documentation.</p>
3.1.10	D+O	ME	<p>Is mixing and loading performed on sites with low runoff hazard?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, explain.</p>
3.2.2	D	Req	<p>A winter cover crop (resident or planted) must be maintained.</p> <p>Provide close-up photo and large scale photo from a block level. Describe winter cover cropping practices.</p>
3.2.4	Edit	ME	You must have vegetated perimeter buffers of no less than 25 feet from the edge of perennial and intermittent (per USGS definition) streams and wetland areas (as per EPA definition). Indicate perimeter buffers on ranch map. Not Applicable only if there are no perennial or intermittent streams and wetland areas on the property.
3.2.7	Edit	ME	<p>Do you utilize water runoff diversions on longer slopes to manage runoff?</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>Engineer recommended water runoff diversions.</p>

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

4 Water Conservation

Question	Update	Type	Standard
4.1	Moved	NA	4.1.6 (was 4.1.5); 4.1.7 (was 4.1.6)
4.1.4	NEW	Req	You must provide well water quality analysis from within the five years. Attach analysis results from within the last five years.
4.1.5 (was 4.1.4)	NEW Deleted	ME	Is well water quality analysis conducted more than every five years? <input type="checkbox"/> Every 3 years: 5 <input type="checkbox"/> Annually: 3 <input type="checkbox"/> No: 0 If yes, attach analysis results. Do you periodically conduct ag suitability tests for your irrigation water from accredited labs?
4.3.2	D	Req	You must track total water the vineyard receives during the season from rainfall, frost protection, and irrigation. Attach records of total water received.

5 Energy Conservation and Efficiency

Question	Update	Type	Standard
5.1	Moved	NA	5.1.8 (was 5.1.9); 5.1.9 (was 5.1.10); 5.1.10 (was 5.1.11); 5.1.11 (was 5.1.12); 5.1.12 (was 5.1.13); 5.1.13 (was 5.1.14); 5.1.14 (was 5.1.15)
5.1.2	Edit	ME	Based on your results from 5.1.1, if your Overall Pumping Efficiency (OPE) was under 50% did you take corrective action? <input type="checkbox"/> YES: 4 <input type="checkbox"/> NO: Document corrective action taken.
5.1.8	Deleted	ME	Do you periodically have your well tested for pump energy efficiency and monitored for changes in standing water level, water yield (gallons per minute) and drawdown? <input type="checkbox"/> 2 years: 3 <input type="checkbox"/> 3 years: 2 <input type="checkbox"/> More than 3 years: 0 If yes, list date of most recent test result. This date must match that of the documentation provided for Requirement 5.1.1.

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

6 Air Quality

Question	Update	Type	Standard
6.1	Moved	NA	6.1.8 (was 6.1.9)
6.1.2 (was 6.1.9)	NEW D	Req	You must have speed limit signs posted on main vineyard access roads to reduce dust. Indicate speed limit signs on ranch map or attach photo.
6.1.6	NEW	ME	<p>What percentage of you tractor fleet is tier 3 or above?</p> <p><input type="checkbox"/> Greater than or equal to 75% of fleet: 5</p> <p><input type="checkbox"/> Between 25% and 75% of fleet: 3</p> <p><input type="checkbox"/> Less than 25% of fleet: 0</p> <p>If yes, describe. Do you use alternate energy sources including bio-fuels, solar, or wind for your vineyard energy needs?</p>
6.1.9	Deleted	ME	<p>You must have speed limit signs posted on main vineyard access roads to reduce dust.</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, indicate speed limit signs on ranch map or attach photo.</p>
6.1.10	Edit	ME	<p>If you have purchased new motors in the last five years, do they run on natural gas, propane, electricity or tier 4 diesel rather than diesel?</p> <p><input type="checkbox"/> Greater than or equal to 75% of fleet: 6</p> <p><input type="checkbox"/> Between 25% and 75% of fleet: 3</p> <p><input type="checkbox"/> Less than 25% of fleet: 0</p> <p><input type="checkbox"/> No 0</p> <p><input type="checkbox"/> NA</p> <p>If yes, list new engines and their power source. Not Applicable only applies if you have not purchased new engines in the last five years. Provide a written explanation.</p>

7 Social Equity

Question	Update	Type	Standard
7.1.4	D	Req	<p>Employee safety trainings must be given every time an employee starts work and/or enters a new working environment.</p> <p>Training meetings include:</p> <ul style="list-style-type: none"> • Personal hygiene • Daily change of clean clothing • Recognizing and avoiding unsafe working environments or conditions • Emergency Action Plan training • Safe use and handling of pesticides for handlers and applicators • Pesticide safety and awareness • Pesticide use notification • Equipment safety & ergonomics • Other types of ergonomic/musculoskeletal safety issues (lifting, carrying, etc.) <p>Provide documentation of employee safety training meetings.</p>
7.7.2	Edit	ME	<p>Do you recycle your used bird netting and/or drip hose through the Crop Recycling Program or at another recycling facility? http://www.calrecycle.ca.gov</p> <p><input type="checkbox"/> YES: 2 <input type="checkbox"/> NO: 0</p> <p>If yes, explain your recycling program.</p>

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

8 Pest Management

Question	Update	Type	Standard
8.1.1	D Edit	Req	No Active Ingredients (AI) on the Prohibited Materials List (PML) can be used. See attached Prohibited Materials List. Attach pesticide use reports with trade names and active ingredients listed. (Records are required for all certified acres)
8.1.2	D	Req	You must monitor and record the following: <ul style="list-style-type: none"> • Presence and population dynamics of vineyard pests and insect/mite natural enemies at a minimum of every two weeks during the growing season • Presence and severity levels of diseases or disease vectors at a minimum of every two weeks during the growing season • Presence and severity levels of weeds at least once per month during the growing season • Presence and identification of vertebrate pests at least once per month during the growing season Attach Records. Describe your monitoring program.
8.1.4	D	Req	Pesticides (insecticides, fungicides, and herbicides) with different modes of action must be alternated within the seasonal spray program in order to minimize the risk of pesticide resistance development. Attach Spray Records which include target pest, disease, or weed and pesticide mode of action. Provide an example from your vineyard.
8.5.2	Edit	ME	Are spot spraying methods used when applying contact herbicides? <input type="checkbox"/> YES: 6 <input type="checkbox"/> NO: 0 <input type="checkbox"/> NA If yes, provide written statement describing the timing of your weed control program and attach herbicide spray records. Not Applicable if herbicides were not used.

9 Continuing Education

Question	Update	Type	Standard
9.1.1	D	Req	You must participate in at least 20 hours of Continuing Education pertaining to farming sustainability issues each year. Attach Continuing Education verification forms totaling 20 hours from the past 12 months.

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

10 Product Assurance & Business Sustainability

Question	Update	Type	Standard
10.1.1	D	Req	You must record fruit quality parameters on an annual basis, including Brix, pH, and TA. Provide fruit quality parameter records from the previous year.
10.1.8	Edit	ME	If your winery is providing objective analysis (Brix, TA, pH) do you maintain and correlate compare the data. <input type="checkbox"/> YES: 3 <input type="checkbox"/> NO: 0 <input type="checkbox"/> NA If yes, attach objective analysis records including variety(s), parameters, and results. Not Applicable if the winery does not provide the grower with objective analysis.
10.2.7	Edit	ME	Do you have crop insurance? <input type="checkbox"/> YES: 3 <input type="checkbox"/> NO: 0 <input type="checkbox"/> NA Provide proof of current crop insurance. Not applicable for nonbearing vineyards.

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

Due December 15, 2016

11 Year End Water and Nitrogen Use Reports

Question	Update	Type	Standard
Cp 11	D D+O Edit	Req	Attach documentation and/or calculations with specified units. Final use numbers will be based on acres certified in the SIP Certification program on a per acre basis. You can submit multiple reports to reflect use based on multiple management areas or ranches. The following reports reflect practices from December 1 through November 30 of the certification year. Year End Reports are due to your inspector by December 15 of the certification year. (Records required for all certified acres)

CALCULATIONS

CONVERSIONS AND EXAMPLES

General Parameters

Total Area (ac) _____ (y)

Total Yield (ton) _____ (z)

Tons/Ac _____ (x = z / y)

Water Use Report

Total Water on a **per acre basis**.

Applied Irrigation Water (ac-ft/ac) _____ (a)

To convert water units per acre to acre feet, download the [UCCE Irrigation Converter](#).

Applied Frost Water (ac-ft/ac) _____ (b)

To convert water units per acre to acre feet, download the [UCCE Irrigation Converter](#).

Rainfall (ac-ft/ac) _____ (c)

Example: Inches per acre can be converted to acre feet per acre by dividing by 12.

$$\frac{10.7 \text{ in/ac}}{12.0 \text{ in/ac-ft}} = \frac{0.89 \text{ ac-ft}}{\text{ac}}$$

Total Water (ac-ft/ac) _____ (d = a + b + c)

Efficiency

Water Efficiency (ac-ft/ton) _____ (d / x)

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

Nitrogen Use Report

Total Nitrogen on a **per acre basis**.

Fertilizer (lbs N/ac) _____ (e)

Example for Solid Fertilizer: Ammonium sulfate [(NH₄)₂SO₄] fertilizer contains 21% N or 0.21 lbs N/lb of fertilizer. If 100 lbs of ammonium sulfate are applied per acre, the total N application is 21 lbs/acre.

$$\frac{100 \text{ lbs } (\text{NH}_4)_2\text{SO}_4}{\text{ac}} \times \frac{0.21 \text{ lbs N}}{1.0 \text{ lb } (\text{NH}_4)_2\text{SO}_4} = \frac{21 \text{ lbs N}}{\text{ac}}$$

Example for Liquid Fertilizer: Ammonium nitrate liquid fertilizer (AN 20) has a density of 10.76 Lbs/gal, and 21% nitrogen.

$$\frac{10.76 \text{ lbs}}{\text{gal of fertilizer}} \times \frac{0.21 \text{ Lbs N}}{\text{lb of fertilizer}} \times \frac{5 \text{ gal applied fertilizer}}{\text{Ac}} = \frac{11.3 \text{ lbs N}}{\text{ac}}$$

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

Compost (lbs N/ac) _____ (f)

Presumptions (if not provided by your producer or lab): Two methods are presented below for converting compost applications per acre to lbs N per acre. The presumption for %N availability is based on an industry standard of 30% (0.30) availability of total N content of compost, and an average weight of 900 lbs per cubic yard of compost.

Example for Tons/Acre Compost Applied: Wet (as is) compost with 1.7% N content, applied at a rate of 5 tons per acre.

Step 1: Convert %N content to lbs N per ton of compost.

$$\frac{1.7 \text{ lbs N}}{100 \text{ lbs compost}} \times \frac{2000 \text{ lbs}}{\text{ton of compost}} = \frac{34 \text{ lbs N}}{\text{ton of compost}}$$

Step 2: Convert lbs N per ton of compost to lbs available N per ton of compost.

$$\frac{34 \text{ lbs N}}{\text{ton of compost}} \times \frac{0.30 \text{ lbs available}}{1 \text{ lb total N}} = \frac{10.2 \text{ lbs available}}{\text{ton of compost}}$$

Step 3: Multiply lbs of available N per ton by total tons applied per acre.

$$\frac{10.2 \text{ lbs available N}}{\text{ton of compost}} \times \frac{5 \text{ tons compost}}{\text{ac}} = \frac{51 \text{ lbs N}}{\text{ac}}$$

Example for Cubic Yards (CY)/Acre Compost Applied: Wet (as is) compost with 1.7% N content, applied at a rate of 5 cubic yard per acre.

Step 1: Convert %N content to lbs N per cubic yard of compost.

$$\frac{1.7 \text{ lbs N}}{100 \text{ lbs compost}} \times \frac{900 \text{ lbs}}{\text{cy of compost}} = \frac{15.3 \text{ lbs N}}{\text{cy of compost}}$$

Step 2: Convert lbs N per cubic yard of compost to lbs available N per cubic yard of compost.

$$\frac{15.3 \text{ lbs N}}{\text{cy of compost}} \times \frac{0.30 \text{ lbs available N}}{1 \text{ lb total N}} = \frac{4.6 \text{ lbs available N}}{\text{cy of compost}}$$

Step 3: Multiply lbs of available N per cubic yard by total cubic yards applied per acre.

$$\frac{4.6 \text{ lbs available N}}{\text{cy of compost}} \times \frac{5 \text{ cy of compost}}{\text{ac}} = \frac{23 \text{ lbs N}}{\text{ac}}$$

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

Water (lbs N/ac)_____ (g)

Presumptions: Two methods are presented below for converting irrigation water applications per acre to lbs N per acre. Nitrogen content of water is most commonly reported in ppm NO3 or ppm NO3-N. NO3 is converted to lbs N/acre foot of water by multiplying by 0.62. NO3-N is converted to lbs N/acre foot of water by multiplying by 2.74. A detailed description of these conversion factors can be viewed [online](#).

Example for lab report of ppm NO3: Report from lab shows 45ppm NO3 and a total of 0.89 acre feet (ac-ft) of irrigation water was applied.

Step1: Convert ppm NO3 to lbs N/acre foot of irrigation water applied.

$$45 \text{ ppm NO}_3 \times 0.62 = 27.9 \text{ lbs N/ ac-ft}$$

Step 2: Multiply lbs N/ac-ft by total irrigation water applied per acre.

$$\frac{27.9 \text{ lbs N}}{\text{ac-ft}} \times \frac{0.89 \text{ ac-ft irrigation water}}{\text{ac}} = \frac{24.8 \text{ lbs N}}{\text{ac}}$$

Example for lab report of ppm NO3-N: Report from lab shows 45ppm NO3-N and a total of 0.89 acre feet (ac-ft) of irrigation water was applied.

Step1: Convert ppm NO3-N to lbs N/acre foot of irrigation water applied.

$$45 \text{ ppm NO}_3 \times 2.74 = 123.3 \text{ lbs N/ ac-ft}$$

Step 2: Multiply lbs N/ ac-ft by total irrigation water applied per acre.

$$\frac{123.3 \text{ lbs N}}{\text{ac-ft}} \times \frac{0.89 \text{ ac-ft irrigation water}}{\text{ac}} = \frac{109.7 \text{ lbs N}}{\text{ac}}$$

*Efficiency of fertilization and of irrigation are not factored into the above equations.

Total Applied Nitrogen (lbs N/ac)_____ (h = e + f + g)

Nitrogen Efficiency (lbs N/Ton)_____ (h / x)

Standards Updates

Use the following Standards to update your documentation based in your certification cycle.
Under the Type column, Req = Requirement and ME = Management Enhancement.

2016 SIP CERTIFICATION PROHIBITED MATERIALS LIST (PML)

Information obtained from the Department of Pesticide Regulation sources based on flagged materials registered for use on grapes. Due to the fluctuating registrations of many materials, trade names are not listed. It is the responsibility of the applicant to list trade names and active ingredients on documentation.

Active Ingredient	Cholinesterase Inhibiting	Groundwater Protection	Toxic Air Contaminant	CA DPR Restricted	Federal EPA Restricted
(S)-CYPERMETHRIN					X
2,4-D			X	X	
2,4-D, DIMETHYLAMINE SALT			X	X	
4-AMINOPYRIDINE				X	X
ABAMECTIN					X
ACEPHATE	X				
ALUMINUM PHOSPHIDE			X	X	X
BETA-CYFLUTHRIN					X
BIFENTHRIN					X
CAPTAN			X		
CARBARYL	X		X	X	
CHLOROPICRIN			X	X	X
CHLORPYRIFOS	X				X
CYFLUTHRIN					X
DIAZINON	X				X
DIMETHOATE	X				
DIURON		X		X	
ENDOSULFAN			X	X	X
ETHEPHON	X				
FENBUTATIN-OXIDE					X
FENPROPATHRIN					X
HYDROGEN CYANAMIDE					X
MAGNESIUM PHOSPHIDE			X	X	X
MALATHION	X				
MANCOZEB			X		
META-CRESOL			X		
METHIOCARB	X				X
METHOMYL	X			X	X
METHYL BROMIDE			X	X	X
NALED	X				X
NORFLURAZON		X			
OXYDEMETON-METHYL	X			X	X
PARAQUAT DICHLORIDE				X	X
PHOSMET	X				
POTASSIUM N-METHYLDITHIOCARBAMATE			X	X	X
PROPARGITE					X
PROPYLENE OXIDE			X		X
PROPYZAMIDE					X
SIMAZINE		X		X	
SULFUR DIOXIDE					X
SULFURYL FLUORIDE			X	X	X
TRIFLURALIN			X		
ZINC PHOSPHIDE			X	X	X