

# Appendix A. Grower Survey of Best Management Practices

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## Grower Survey of Best Management Practices (BMPs)

**Please provide the following information:**

Today's date: \_\_\_\_\_

VCAILG ID Number: \_\_\_\_\_

**Information for person completing this survey:**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

**Operation Information:**

Operation Name: \_\_\_\_\_

Owner or Grower Name: \_\_\_\_\_

Operation address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone #: \_\_\_\_\_

**NOTE: One entire survey (all 7 pages) must be completed for each parcel!!!**

## Grower Survey of Best Management Practices (BMPs)

### Parcel Information:

A separate survey must be completed for each parcel that you farm! For this parcel survey, please provide total parcel acres, irrigated acres, and the acres for each crop type grown. The crop acreages should add up to the total irrigated acres. Print multiple surveys if you have more than one parcel.

Assessor's Parcel #: ____ - ____ - ____ - ____ - ____				
Total Parcel Acres:			Irrigated Acres:	
Crop Information				
	Acres		Acres	
Strawberries		Nursery		<input type="checkbox"/> Other: <i>(please specify)</i> _____
Raspberries		Cut flowers		
Row crops		Sod		
Orchard				

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## Management of Crops

Summarize how each of your crop types is managed on this parcel.

<b>Crop Type #1:</b>	
<b>Total Crop Acres:</b>	
What type of <b>Overhead Cover</b> is used in the production area? <i>Choose multiple answers as needed. Your overhead cover acres should add up your total crop acres.</i>	
Type	Acres
Greenhouse	
Hoop House	
Shade House/Shade Cloth	
No Overhead Cover	
Other: _____	
What types of <b>Surface Treatments</b> are used in the production area? <i>Choose multiple answers as needed. All surface treatments may add up to more than the total acres.</i>	
Bare Soil	
Cover Crop	
Gravel	
Mulch (plant based)	
Plastic	
Weed Cloth	
Other: _____	
What types of <b>Irrigation Systems</b> are used in the production area? <i>Choose multiple answers as needed. Your irrigation system acres should add up your total crop acres.</i>	
Drip	
Furrow/Flood	
Hand Watering	
Micro-Sprinkler	
Micro-Sprinkler, then Drip	
Overhead Sprinkler	
Overhead Sprinkler, then Drip	
Other: _____	

<b>Crop Type #2:</b>	
<b>Total Crop Acres:</b>	
What type of <b>Overhead Cover</b> is used in the production area? <i>Choose multiple answers as needed. Your overhead cover acres should add up your total crop acres.</i>	
Type	Acres
Greenhouse	
Hoop House	
Shade House/Shade Cloth	
No Overhead Cover	
Other: _____	
What types of <b>Surface Treatments</b> are used in the production area? <i>Choose multiple answers as needed. All surface treatments may add up to more than the total acres.</i>	
Bare Soil	
Cover Crop	
Gravel	
Mulch (plant based)	
Plastic	
Weed Cloth	
Other: _____	
What types of <b>Irrigation Systems</b> are used in the production area? <i>Choose multiple answers as needed. Your irrigation system acres should add up your total crop acres.</i>	
Drip	
Furrow/Flood	
Hand Watering	
Micro-Sprinkler	
Micro-Sprinkler, then Drip	
Overhead Sprinkler	
Overhead Sprinkler, then Drip	
Other: _____	

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## **In this Section:**

Provide details about management practices for this parcel in five categories (19 questions total):

1. Irrigation and Salinity Management
2. Nutrient Management
3. Sediment Management
4. Pest Management
5. Runoff Management/Treatment

## **About this Section:**

The survey questions are formatted to be answered in a few different formats:

- Yes or No (Not Applicable is an option only for select questions)
- Area (number of acres) the practice applies
- Length (feet) the practice is installed

*Completion of this survey is required to be considered in compliance with the Conditional Waiver. The survey is by no means an exhaustive list of all the potential BMPs that can protect or improve water quality. It is intended to capture and track over time the level of implementation of 19 BMPs that the Regional Board agreed will be used for reporting deliverables required by the Waiver. You must maintain, for inspection by the Regional Board, a copy of your completed survey (hard copy or electronic).*

# Grower Survey of Best Management Practices (BMPs)



Management Practice Questions			Response
<b><i>Irrigation and Salinity Management</i></b>			
1	Irrigation system pressure testing	Is the irrigation system on this parcel tested for distribution uniformity by monitoring water delivery or pressure differences by block at least every 3 years?	Yes    No    N/A <i>(circle one)</i>
2	Soil-moisture as determinant of irrigation practices	On how many acres within the parcel are irrigation practices based on soil moisture measurements and/or crop evapotranspiration (ET) (e.g., sensors, tensiometers, irrigation monitoring service, atmometers, CIMIS)?	Acres: _____
3	Salt leaching	Are soil solution electrical conductivity measurements used to determine when salt leaching is necessary?	Yes    No    N/A <i>(circle one)</i>
<b><i>Nutrient Management</i></b>			
4	Certified Nutrient Management Plans	Has a nutrient management plan* been prepared for this parcel? <i>*Currently not required, but plans will be required in several areas during the Waiver term based on water quality monitoring data and nitrogen TMDLs.</i>	Yes    No <i>(circle one)</i>
		<b>If yes, is it a certified plan*?</b> <i>*A plan may be certified in one of the following ways:</i> <ul style="list-style-type: none"> <li>• Self-certified by the Member who attends a CDFA or other approved training program for certification.</li> <li>• Self-certified by the Member that the plan adheres to a site-specific recommendation from the NRCS or UCCE.</li> <li>• Certified by a Crop Advisor certified by the American Society of Agronomy, or Technical Service Providers certified in nutrient management in CA by NRCS.</li> </ul>	Yes    No <i>(circle one)</i>
5	Soil nutrient tests	Are soil residual nitrate tests conducted on this parcel?	Yes    No <i>(circle one)</i>
		<b>If yes</b> , do you adjust fertilizer applications on this parcel to account for residual soil nitrate as determined by the soil test?	Yes    No <i>(circle one)</i>
6	Leaf/petiole testing	Are leaf/petiole tests conducted on this parcel and used to apply the minimum necessary amount of fertilizer?	Yes    No    N/A <i>(circle one)</i>
7	Fertigation water testing	Do you analyze nitrate in the irrigation water (prior to adding any fertilizer)?	Yes    No <i>(circle one)</i>
		<b>If yes</b> , do you adjust fertilizer applications on this parcel to account for nitrate in the irrigation water?	Yes    No <i>(circle one)</i>

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8	Nutrients from cover crops	Do you adjust fertilizer applications on this parcel to account for nutrients provided by cover crops?	Yes    No    N/A <i>(circle one)</i>
<b>Sediment Management</b>			
9	Amount of sloped, cropped area	How many cropped acres within the parcel have a slope greater than 2%? <i>**If zero acres are sloped, write a 0 for this question and then skip to #11.</i>	Acres: _____
10	Erosion control in sloped, cropped areas	On how many sloped acres within the parcel are one or more of the following practices used to minimize erosion? <ul style="list-style-type: none"> <li>• Contour farming</li> <li>• Contoured buffer strips</li> <li>• Terracing</li> </ul>	Acres: _____
11	Erosion control in non-cropped areas	<i>There are a total of _____ non-cropped acres within this parcel.</i> <i>**See page 2 and subtract Total Parcel Acres from the Irrigated Acres.</i>  How much of this area is bare soil? <i>In order to prevent erosion, it is recommended that this area be minimized by using any of the following:</i> <ul style="list-style-type: none"> <li>• Vegetation</li> <li>• Mulch</li> <li>• Gravel</li> </ul>	Acres: _____
12	Ditch erosion	How many feet of ditches* are in the parcel? <i>*Ditches are defined as field edges and channels that convey water off the property.</i>	Feet: _____
		How many feet of ditches (or ditch banks) are protected from erosion using vegetation, rock placement or geotextiles, or wattles placed at intervals (i.e., length of ditch where the banks are treated)?	Feet: _____
13	Distributed sediment BMPs	Do you have grassed waterways on the parcel?	Yes    No <i>(circle one)</i>
		If yes, how many acres drain to a grassed waterway for infiltration or treatment?	Acres: _____
14		How many acres within the parcel are treated by vegetated filter strips*? <i>* A strip or area planted in herbaceous vegetation specifically for slowing down overland flow and removing contaminants, typically before water enters a ditch or other conveyance.</i>	Acres: _____

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<i>Pest Management</i>			
15	Pest management	Do you use a pest control advisor (PCA) or certified qualified applicator to make pesticide management decisions?	Yes      No <i>(circle one)</i>
16	Decision-making	Do you implement an integrated pest management plan?	Yes      No <i>(circle one)</i>
17	Farm Type	How many acres of this parcel are organically farmed?	Org. Acres: _____
		How many acres of this parcel are conventionally farmed?	Conv. Acres: _____
<i>Runoff Management/Treatment</i>			
18	Irrigation runoff management	How many acres on your parcel produce irrigation runoff? <i>(If no runoff leaves the property during irrigations, you may answer 0 acres)</i>	Acres: _____
19	Runoff detention/treatment	How many acres within the parcel are treated by one or more of the following? <ul style="list-style-type: none"> <li>• Sediment traps</li> <li>• Detention/retention basins</li> <li>• Bioreactor</li> <li>• Constructed wetlands</li> </ul>	Acres: _____