

MONITORING AND REPORTING PROGRAM
R5-2017-0000
Attachment B-1
Farm Evaluation Survey
for
Confined Bovine Feeding Operations

This Farm Evaluation Survey is intended to be a summary of farm management practices being used on land application areas to protect surface and groundwater. All Confined Bovine Feeding Operations that irrigate a "land application area" that is not covered under the Irrigated Lands Regulatory Program (whether or not manure or wastewater is applied to that land) shall complete and submit this form to the Executive Officer.

There are three, one-page "parts" to the Farm Evaluation Survey to complete:

- Part A: Whole Farm Evaluation; complete only once (1 page).
- Part B: Specific Field Evaluation; complete one page for each field.
- Part C: Sediment and Erosion Control Practices; complete one page for each field.

Answer questions based on practices used in 2016.

You may need to make copies of Parts B and C of the survey and complete separate surveys for each of your fields that are managed differently or have different crops. See detailed instructions on the following pages.

The practices recorded on the survey should correspond to the APN parcels and Field IDs used in your Nutrient Management Plan. You may subdivide a parcel into fields, assigning each field a name or number (if one is not already assigned).

For example, you might have two fields of different crops in one APN so they could be identified as APN# 111-00-222, field A; APN# 111-00-222, field B, etc or any other designation used by the County Agricultural Commissioner or your own records.

If all parcels/fields listed have the same practices, fill out one (1) survey for all parcels and return. If parcels/fields have different practices, make copies of the survey and fill out one (1) survey for each parcel/field with different practices.

For example, if a Discharger has 3 parcels enrolled with one crop grown (Parcel A, B, and C) and he manages Parcel A and B the same, he can fill out one survey for Parcels A and B. Another survey needs to be filled out for Parcel C to record the crops or practices that differ from A and B.

Step by Step Instructions

The Farm Evaluation has 3 components:

Part A: Whole Farm Evaluation

Part B: Specific Field Evaluation

Part C: Sediment & Erosion Control Practices

Step 1: Part A: Answer Questions 1 – 3 for all cropland.

Step 2: Part B, Question 1: List the parcels described on that page. Remember to fill out a page for each of your parcels or fields that are managed differently.

Step 3: Part B: Answer questions 2 – 4 for parcels that **you identified** at the top of the page by checking the applicable box(es). *If parcels or fields differ in their practices, you must make a copy of the page to answer questions for parcels/fields differently.*

Step 4: Part C: Answer questions as you did in Part B in reference to parcels that **you identified** at the top of the page. *If parcels or fields differ in their practices you must make a copy of the page to answer questions for parcels/fields differently.*

Step 5: Sign the bottom of Part A to certify that all of the information provided is current and accurate and submit to the Executive Officer by the due date, **XXXXXXXX**.

Part A – Whole Farm Evaluation

Facility Name: _____ Facility Address: _____

1. Which pest management application practices have you implemented? (check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Followed County Permit | <input type="checkbox"/> Monitored Wind Conditions |
| <input type="checkbox"/> Followed Label Restrictions | <input type="checkbox"/> Used Buffer Zones |
| <input type="checkbox"/> Mapped Sensitive Areas | <input type="checkbox"/> Used Vegetative Drain Ditches |
| <input type="checkbox"/> Attended Pest Management Trainings | <input type="checkbox"/> Monitored Rain Forecasts |
| <input type="checkbox"/> Used End of Row Sprayer Shutoff | <input type="checkbox"/> Followed PCA Recommendations |
| <input type="checkbox"/> Avoided Surface Water When Spraying | <input type="checkbox"/> Used Chemigation |
| <input type="checkbox"/> Reapplied Rinsate to Treated Field | <input type="checkbox"/> Mixed and loaded on low runoff hazard site (e.g. away from creeks or wells) |
| <input type="checkbox"/> Used Targeted Sensing Sprayer | <input type="checkbox"/> Applied Lower Risk Pesticides |
| <input type="checkbox"/> Used Drift Control Agents | <input type="checkbox"/> Limited/controlled irrigation runoff after pesticide |
| <input type="checkbox"/> Integrated Pest Management (Reduced Pesticide Use) | <input type="checkbox"/> No Pesticides Applied |
| | <input type="checkbox"/> Other _____ |

2. Who do you have develop your Nutrient Management Plan? (check all that apply)

- Certified Crop Advisor (CCA)
- UC Farm Advisor
- Certified Technical Service Providers by NRCS
- Professional Soil Scientist
- Professional Agronomist
- None of the Above

3. Do one of more of your fields have the potential to discharge sediment to off-farm surface waters? Circle One: Yes No

*If so, complete Part C on sediment and erosion control practice used on farm field(s).
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

Signature

Printed Name

Date

Part B – Field Specific Evaluation

Facility Name: _____ Facility Address: _____

1. Identify the Parcels and Fields covered by this evaluation.

Fill out a separate survey for parcels/fields with different practices.

| Parcel (APN) | Field ID | Acres | Crop |
|--------------|----------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

2. Which irrigation method(s) are used for the parcel/field covered by this evaluation? (A secondary system could be used for crop germination, frost protection, crop cooling, etc.)

Primary (check one)

(Secondary (if applicable check one))

- Drip
- Micro Sprayer/Sprinkler
- Furrow
- Sprinkler
- Border Strip
- Flood

- Drip
- Micro Sprayer/Sprinkler
- Furrow
- Sprinkler
- Border Strip
- Flood

3. Which irrigation management practices are implemented for the parcel/field covered by this evaluation? (Check all that apply)

- Laser Levelled Fields
- Weather-based irrigation
- Based irrigation on crop water need
- Measured soil moisture
- Tested/improved distribution uniformity (DU)
- Used tailwater return/reuse system

- Measured plant water stress
- Measured applied irrigation water (water meter)
- Maintained irrigation system for optimal performance
- Used pressure control regulators
- Used variable speed pump
- Other _____

4. Nitrogen Management Methods to Minimize Leaching Past the Root Zone (Check all that apply)

- Scheduled Fertilizer application to match crop need
- Used Cover Crop or crop rotation
- Used split fertilizer applications
- Tested soil for residual nitrogen
- Used Tissue/Petiole testing
- GPS used for Variable Rate Application
- Applied Foliar N

- Used Urease and/or nitrification inhibitors
- Mixed and load fertilizers on low runoff sites (away from creeks/wells)
- Tested irrigation water N concentration
- Used Fertigation
- Measured N content of organic amendments
- Evaluated crop nitrogen need
- Other _____

Part C – Sediment & Erosion Control Practices

Facility Name: _____ Facility Address: _____

1. Identify the Parcels and Fields covered by this evaluation.

Fill out a separate survey for parcels/fields with different practices.

| Parcel (APN) | Field ID | Acres | Crop |
|--------------|----------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

2. Which Irrigation Practices are used for the parcel/field covered by this evaluation for Managing Sediment and Erosion? (Check all that apply).

- In-furrow dams are used to increase infiltration and settling out of sediment prior to entering the tail ditch.
- The time between pesticide applications and the next irrigation is lengthened as much as possible to mitigate runoff of pesticide residue.
- Shorter irrigation runs are used with checks to manage and capture flows
- PAM (polyacrylamide) used in furrow and flood irrigated fields to help bind sediment and increase infiltration.
- Use drip or micro-irrigation to eliminate irrigation drainage.
- Use of flow dissipaters to minimize erosion at discharge point.
- Tailwater Return System.
- Catchment Basin.
- No irrigation drainage due to field or soil conditions.

3. Which Cultural Practices are implemented for the parcels/fields covered by this evaluation for Managing Sediment and Erosion? (check all that apply)

- Storm water is captured using field borders.
- Vegetative filter strips and buffers are used to capture flows.
- Sediment basins/holding ponds are used to settle out sediment and hydrophobic pesticides such as pyrethroids from irrigation and storm runoff.
- Cover crops or native vegetation are used to reduce erosion.
- Hedgerows or trees are used to help stabilize soils and trap sediment movement.
- Soil water penetration has been increased through the use of amendments, deep ripping and/or aeration.
- Crop rows are graded, directed and at a length that will optimize the use of rain and irrigation water.
- Creek banks and stream banks have been stabilized.
- Subsurface pipelines are used to channel runoff water.
- Berms are constructed at low ends of fields to capture runoff and trap sediment.
- Minimum tillage incorporated to minimize erosion.
- Field is lower than surrounding terrain.
- No storm drainage due to field or soil conditions