

2021 Long-Term Irrigated Lands Program

**Annual Meetings
March 2021**



Who Has To Comply?

You are required to have a Waste Discharge Permit if....

- * The landowner or operator has a current Operator Identification Number/Permit Number for pesticide use reporting;
- * The landowner/grower files federal taxes using federal Department of Treasury IRS Form 1040, Schedule F Profit or Loss from Farming
- * The crop is sold to a third-party including, but not limited to,
 - 1) an industry cooperative,
 - 2) harvest crew/company, or
 - 3) a direct marketing location such as farmers' markets;



Who Has To Comply?

Hemp

Hemp will be enrolled in this program when it is approved to be grown in Yolo County.



Who Has to Comply?

Rice

Fields planted to rice are automatically enrolled in a separate program with the California Rice Commission

We track rice acreages as the Regional Board thought we only had 60% participation until we explained about the rice acres. We do not charge fees for rice.

Cannabis

Parcels planted to cannabis are required to enroll directly with the Regional Board in the Cannabis Program



Enrolled Parcels

Each year we are required to submit a Participant Report listing parcels enrolled in the program.

We are required to report the names of landowners and growers enrolled in the program and include whether or not they are in “Good Standing”.

“Good Standing” means all reports have been completed and fees have been paid.

Yolo County seldom has to report landowners or growers “Not in Good Standing”.



Enrolled Parcels

Failure by members to complete reports or pay fees by the due dates could trigger increased Regional Board scrutiny of our program and even tighter regulations.

The Regional Board's Enforcement Department uses our yearly report and searches for irrigated parcels not enrolled in the program.

DIRECTIVE TO OBTAIN IRRIGATED LANDS
REGULATORY COVERAGE letters are mailed to these property owners

Sometimes these letters are sent in error because the land is not irrigated.



Responding to Notices

You are **REQUIRED** to respond to any notices from the Regional Board.

Not responding can result in **hefty fines.**

Please call our office if you receive **any** correspondence from the Regional Board.



Fees and Bills

Invoices are mailed to landowners

This reminds them about the program and allows them to notify us if there have been changes made during the past year (parcel number changes, change in grower, sold land etc.)

If landowners do not agree with acres on their invoices they should **contact their grower**, as the grower reports the acres for crops.

If landowners wants their grower to pay the fees, he/she needs to forward the bill to the grower.



Members

Landowners are also the Member if they farm the property.

Members are required to provide crop and farming practices information.

The grower is the Member because the grower:

- * knows the farming practices
- * knows the crop information
- * knows the amount of nitrogen used
- * knows the crop yield



Members

Members enter information into an online program.

The program tracks field names, acreages, crops, irrigation methods, nitrogen use, etc.

The program automatically generates required reports

- Farm Evaluation Survey

- Irrigation Nitrogen Management Plan

- Irrigation Nitrogen Management Summary Report

Growers print the reports, attach required maps of irrigation wells and file in their office.

These reports are reviewed if the property is chosen for a Site Inspection.



On-Site Inspections

The Regional Board started on-site inspections of enrolled parcels to prove the current program is working and is successful.

2017 - Four growers fields were inspected

2018 - No inspections

2019 - Five growers fields were inspected

2020 - Inspections were waived due to COVID



On-Site Inspections

Regional Board staff review past reports and then inspect the parcel to compare actual farming practices with reported practices.

There is a visual tour of the parcel to look at wells, pump and water movement across the property.

If violations are found, they must be corrected.

You will receive a letter from the Regional Board with details of the inspection for your file.



New Forms/Info Required

In 2020 the Irrigation Nitrogen Management Plan (INMP) was introduced. It replaced the Nitrogen Management Plan and Nitrogen Management Plan Summary Reports.

All growers with High Vulnerability Areas and Low Vulnerability Areas parcels now must complete Irrigation Nitrogen Management Plan Summary Reports



New Forms/Info

New questions on the form:

- * Have you have been identified as an outlier (we answer this for you)
- * Asks for crop ET (we answer this for you)
- * Asks for your Estimated Irrigation in Inches (this is in the planning section of the INMP)



New Forms/Info

Questions moved from Farm Evaluation to Irrigation Nitrogen Management Plan (new)

- * Irrigation Method
- * Irrigation Efficiency Practices
- * Nitrogen Efficiency Practices

Farm Evaluation Survey (updated)

- * Asks for information about drinking water wells (domestic water wells).

These are wells located on land your farm that is enrolled in the Irrigated Lands Program



PROGRAMS



Surface Water Quality Monitoring

The program started in the early 2000s with a Surface Monitoring Program. Monitoring was completed through September 2020 in the Yolo Subwatershed.

The “Representative Site” monitoring site for all of Yolo County is located at Willow Slough.

Monitoring is done:

- ▶ 6 times during the irrigation season
- ▶ 2 times during the storm season



Surface Water Quality Monitoring

Tule Canal continues to be tested due to previous exceedances at the site.

Parameters in the following categories are monitored:

- Microbiological Nutrients

- Physical

- Pesticides

- Trace metals

- Toxicity



2020 Surface Water Quality Monitoring

Sacramento Valley Water Quality Coalition: Non-Detect Pesticides (non-pyrethroids) 2014-2020							
AnalyteName	2014 Assessment	2015 Assessment	2016 Core	2017 Core	2018 Assessment	2019 Assessment	2020 Core
Pesticides with No Detections across All Monitoring Years							
Aldicarb	✓	✓	✓	✓	NM	NM	NM
Aldrin	✓	✓	✓	NM	✓	NM	NM
Aminocarb	✓	✓	✓	✓	NM	NM	NM
Atrazine	NM	NM	NM	NM	✓	✓	✓
Azinphos-methyl	✓	✓	✓	✓	✓	NM	NM
Barban	✓	✓	✓	✓	NM	NM	NM
Benomyl/Carbendazim	✓	✓	✓	✓	NM	NM	NM
Carbofuran	✓	✓	✓	✓	NM	NM	NM
Chlordane, cis	✓	✓	✓	NM	✓	NM	NM
Chlordane, trans	✓	✓	✓	NM	✓	NM	NM
Chloropicrin	NM	NM	NM	NM	✓	✓	✓
Chlorothalonil	✓	✓	✓	✓	✓	✓	✓
Chloroxuron	✓	✓	✓	✓	NM	NM	NM
Chlorpropham	✓	✓	✓	✓	NM	NM	NM
Dacthal	✓	✓	NM	NM	✓	NM	NM
DDO(o,p)	✓	✓	✓	NM	✓	NM	NM
DDE(o,p)	✓	✓	✓	NM	✓	NM	NM
DDT(o,p)	✓	✓	✓	NM	✓	NM	NM
Demeton	✓	✓	✓	NM	NM	NM	NM
Dieldrin	✓	✓	✓	NM	✓	NM	NM
Disulfoton	✓	✓	✓	NM	NM	NM	NM
Dodine	NM	NM	NM	NM	✓	✓	NM
Endosulfen I	✓	✓	✓	NM	✓	NM	NM
Endosulfen II	✓	✓	✓	NM	✓	NM	NM
Endosulfen sulfate	✓	✓	✓	NM	✓	NM	NM
Endrin	✓	✓	✓	NM	✓	NM	NM
Endrin Aldehyde	✓	✓	✓	NM	✓	NM	NM
Endrin Ketone	✓	✓	✓	NM	✓	NM	NM
Ethoprop	✓	✓	✓	NM	NM	NM	NM
Fenchlorphos	✓	✓	✓	NM	NM	NM	NM
Fensulfthion	✓	✓	✓	NM	NM	NM	NM
Fenthion	✓	✓	✓	NM	NM	NM	NM
Fenuron	✓	✓	✓	✓	NM	NM	NM
Flumioxazin	NM	NM	NM	NM	✓	NM	✓
Fluometuron	✓	✓	✓	✓	NM	NM	NM
HCH, alpha	✓	✓	✓	NM	✓	NM	NM
HCH, beta	✓	✓	✓	NM	✓	NM	NM
HCH, delta	✓	✓	✓	NM	✓	NM	NM
HCH, gamma	✓	✓	✓	NM	✓	NM	NM
Heptachlor	✓	✓	✓	NM	✓	NM	NM
Heptachlor epoxide	✓	✓	✓	NM	✓	NM	NM
Hexachlorobenzene	✓	NM	NM	NM	NM	NM	NM
Linuron	✓	✓	✓	✓	✓	✓	NM
Methamidophos	✓	NM	NM	NM	NM	NM	NM
Methidathion	✓	✓	✓	NM	✓	✓	NM



2020 Surface Water Quality Monitoring (continued)

AnalyteName	2014	2015	2016	2017	2018	2019	2020
	Assessment	Assessment	Core	Core	Assessment	Assessment	Core
<i>Pesticides with No Detections across All Monitoring Years</i>							
Methiocarb	✓	✓	✓	✓	✓	✓	NM
Methoxychlor	✓	✓	✓	NM	✓	NM	NM
Mevinphos	✓	✓	✓	NM	NM	NM	NM
Mexacarbate	✓	✓	✓	✓	NM	NM	NM
Mirex	✓	NM	NM	NM	NM	NM	NM
Monuron	✓	✓	✓	✓	NM	NM	NM
Neburon	✓	✓	✓	✓	NM	NM	NM
Nonachlor, cis-	✓	NM	NM	NM	NM	NM	NM
Nonachlor, trans-	✓	NM	NM	NM	NM	NM	NM
Oxamyl	✓	✓	✓	✓	NM	NM	NM
Oxychlorthane	✓	NM	NM	NM	NM	NM	NM
Paraquat	NM	NM	NM	NM	✓	✓	✓
Parathion, Methyl	✓	✓	✓	NM	NM	NM	NM
Pendimethalin	NM	NM	NM	NM	✓	✓	✓
Perthane	✓	NM	NM	NM	NM	NM	NM
Phorate	✓	✓	✓	NM	✓	✓	NM
Phosmet	✓	✓	✓	NM	NM	NM	NM
Prometryn	NM	NM	NM	NM	✓	✓	✓
Propachlor	✓	✓	✓	✓	NM	NM	NM
Propham	✓	✓	✓	✓	NM	NM	NM
Propoxur	✓	✓	✓	✓	NM	NM	NM
Pyridaben	NM	NM	NM	NM	✓	✓	✓
Siduron	✓	✓	✓	✓	NM	NM	NM
Sulprofos	✓	✓	✓	NM	NM	NM	NM
Tebuthiuron	✓	✓	✓	✓	NM	NM	NM
Tetrachlorvinphos	✓	✓	✓	NM	NM	NM	NM
Tokuthion	✓	✓	✓	NM	NM	NM	NM
Trichloronate	✓	✓	✓	NM	NM	NM	NM
Trifluralin	NM	NM	NM	NM	✓	✓	✓

NM = Not Monitored



Irrigation Nitrogen Management Plan Summary Report Results

Growers report nitrogen used by crop by field.

Reports are generated to compare the use of nitrogen for the same crop by township.

In 2022 a three year average using the 2021 crop year data will be generated to compare nitrogen use within sections.

Growers with above-average nitrogen use will be contacted to review their nitrogen use.



Irrigation Nitrogen Management Plan Summary Report Results

The Irrigation Nitrogen Management Plan is used to create the Irrigation Nitrogen Management Plan Summary Report Results

Each grower's nitrogen use is compared against the use of the entire Sacramento Valley Coalition members and their township by crop.

We have your 2019 crop year Nitrogen Management Plan Summary Report results and will mail them to you soon.



Nitrogen Management Plan Summary Report Results

A/R Value =

- ▶ Total Applied Nitrogen divided by Nitrogen Removed
- ▶ The Nitrogen Removed Value was calculated using published N removal values (Geisseler, 2016).
- ▶ Values have not been published for all crops.
- ▶ Values are expected to be updated and modified as new information becomes available.

A/Y =

- ▶ Total applied Nitrogen over Yield Value



Irrigation Nitrogen Management Plan

**Only report the
amount of
Nitrogen used...
not the total pounds of
fertilizer applied**



2021 Fees

2021 Fees are \$3.75/irrigated acre

The State Water Board fees increased from \$.95/irrigated acre last year to \$1.05 this year = \$244,359.59 for Yolo County

2020 fees were \$3.50/irrigated acre

\$.95/irrigated acre went directly to the Regional Board to pay their staff to run the program



Testing of Nitrates for Domestic Wells Parcels in ILP (Drinking Water Wells)

**Testing is done for
nitrate-N + nitrite-N
As Nitrogen**



Testing of Nitrates for Domestic Wells Parcels in ILP (Drinking Water Wells)

In 2022 the Regional Board will contact each grower with information about the requirement to test domestic wells.

The grower will be responsible to collect water samples and send to an e-certified lab. Payment must be included.

Test results will be mailed directly to the Regional Board, with a copy to the grower.



Baseline Domestic Well Testing on Ag Parcels

We recommend growers start testing water in domestic wells this year to get a baseline for their records.

* If your baseline results are below 8 mg/L the grower will still be required to sample in 2022, until Regional Board regulations are met.

* If test results are above the target number the grower has the option to start providing bottled water immediately.

Must keep receipts for purchases of water as proof – please see Q & A handout.

Anne Burkholder will review domestic well testing in her presentation.



Regional Board Website

http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/

Table of Contents

- » [Information for Growers](#) - Find out how to get regulatory coverage and information about coalition groups
- » [Grower Outreach and Enforcement](#) - Outreach, education and enforcement for owners of commercial irrigated lands
- » [Regulatory Information](#) - Information on adopted Waste Discharge Requirements for different areas in the Central Valley
- » Water Quality:
 - » [Coalition Submittals & Reviews](#) - Management plans, reports and reviews
 - » [Electronic Data Submission Resources](#) - Resources and tools for electronic surface water quality data submission
 - » [ILRP Surface Water Quality Data](#) - Access to surface water quality monitoring data collected since 2004 for ILRP
- » [Contact ILRP Staff](#) - Addresses, emails and telephone numbers for contacting ILRP program staff
- » [ILRP Archives](#) - Historical documents and information relating to the ILRP



Questions??

Contact: Katerina Kronauge

Phone: 530.402.1324

Email:

katerina@yolofarmbureau.org

