

# Irrigation and Nutrient Management Requirements for Greenhouses and Nurseries

[AgNOI@waterboards.ca.gov](mailto:AgNOI@waterboards.ca.gov)  
(805) 549-3148



# Purpose

- Agricultural Order approved in 2021
- Enrollment of Commercial Irrigated Ag Land
- Annual Compliance Form (ACF)
- Total Nitrogen Applied Form (TNA)
- Irrigation and Nutrient Management Plan (INMP) Summary Report
- Research Needed
- Resources Available
- Third-Party Program Members Information





# Enroll Commercial Irrigated Ag Land

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- The Agricultural Order applies to owners and operators of irrigated land used for commercial crop production
- Submit an electronic Notice of Intent (eNOI)
- Enroll prior to begin any ag activities, including land preparation prior to crop production, begin to control or own a new operation or ranch

## Welcome to the Irrigated Lands Program (ILP)

The Central Coast Water Board regulates discharges from irrigated agricultural lands to protect surface water and groundwater using Order No. R3-2021-0040, General Waste Discharge Requirements for Discharges from Irrigated Lands (also known as the Agricultural Order), that applies to owners and operators of irrigated land used for commercial crop production. The Central Coast Water Board is focusing on priority water quality issues, such as pesticides and toxicity, nutrients, and sediments – especially nitrate impacts to drinking water sources. Staff is prioritizing efforts in the major agricultural areas of the region - the Salinas River, Santa Maria, and Pajaro River watersheds.

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✓ Requirements Checklist Tool

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# Annual Compliance Form (ACF)

- All Ranches. Access in GeoTracker
- Due Annually by March 1<sup>st</sup>

<u>RANCH / FARM NAME</u>	<u>GW PHASE AREA</u>	<u>SW PRIORITY AREA</u>		
TEST RANCH 2	1	4	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
TEST RANCH 3	1	4	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
TEST: SARAH TEST 1	1	1	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>

# TNA or INMP by March 1, 2025?

Ranch Location, Groundwater Phase Area (GW)

Phase 1 = INMP, Phases 2 and 3 = TNA

<u>RANCH / FARM NAME</u>	<u>ADDRESS</u>	<u>GW PHASE AREA</u>	<u>SW PRIORITY AREA</u>		
CCWB TEST	895 AEROVISTA PLACE	1		<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
RANCH 1	MAIN STREET	1	0	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
RANCH 2	12280 SYCAMORE AVENUE	3	4	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT TNA REPORT]</a>
TEST RANCH 1	805 AEROVISTA PLACE	1	1	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
TNA TEST RANCH	1234 MAIN STREET	3	4	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT TNA REPORT]</a>

# INMP Report

- In 2023- Phase 1. In 2025- Phase 2. In 2027- Phase 3.
- Due Annually by March 1<sup>st</sup>

<u>RANCH / FARM NAME</u>	<u>ADDRESS</u>
TEST RANCH 2	895 AEROVISTA PLACE
TEST RANCH 3	900 AEROVISTA
TEST: SARAH TEST 1	895 AEROVISTA PLACE, SUITE 101

<u>GW PHASE AREA</u>	<u>SW PRIORITY AREA</u>		
1	4	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
1	4	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>
1	1	<a href="#">[SUBMIT ACF]</a>	<a href="#">[SUBMIT INMP REPORT]</a>

# TNA Records needed

1. Pounds of Nitrogen Applied in:
  - A. Organic and conventional fertilizers,
  - B. Irrigation water,
  - C. Compost, amendments, other
2. List of crop(s)
3. Each crop acres

# INMP Records needed

1. Pounds of Nitrogen Applied in:
  - A. Organic and conventional fertilizers,
  - B. Irrigation water,
  - C. Compost, amendments, other
2. List of crop(s)
3. Each crop acres
4. Nitrogen removed at harvest
5. Crop evapotranspiration and estimate volume of irrigation water runoff



# Data Gaps: Research Needed

## 1. Nitrogen Removed at Harvest (RHARV)

- RHARV is the amount of nitrogen removed from the field through harvest or other removal of crop material.

$$\text{RHARV} = \text{Crop Material Removed} \times \text{Crop Conversion Coefficient}$$

- **Crop Material Removed** is the amount of nitrogen-containing material removed from the field, in pounds per acre or total pounds.

The crop material removed in pounds must be determined by growers and/or consultants by weighing the fresh harvested material or employing other methods and information generated during harvest.

- **Crop Conversion Coefficient**, crop-specific coefficient used to convert from units of material removed per acre to units of nitrogen removed per acre. It has no units

# Data Gaps: Research Needed

## 2. Crops Evapotranspiration

- Evaporation and transpiration inside greenhouses, shaded areas, plastic/covered.

**Crop Evapotranspiration = Reference Evapotranspiration x Crop Coefficient**

# Irrigated Lands Program (ILP) Website:

[www.waterboards.ca.gov/centralcoast/water\\_issues/programs/ilp/](http://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/)

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🔍 I am looking for...

Glossary

- Agricultural Order Requirements
- Annual Compliance Form
- Annual Irrigated Lands Permit Fees
- Archive
- Compliance Calendar
- Dashboard for Grower Reporting and Water Quality
- Enforcement Actions
- Enrollment
- Farm Water Quality Management Plan
- Funding Opportunities
- Groundwater Quality Monitoring and Reporting

- Items for Discretionary Review
- Public and Legal Information
- Requirements Checklist Tool
- Surface Water Quality Monitoring and Reporting
- Technical Assistance Providers and Consultants
- Third Party Programs
- Total Nitrogen Applied Report / Irrigation and Nutrient Management Summary Report
- Tutorials & Instructions **Important**
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# Irrigated Lands Program (ILP) Website:

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[www.waterboards.ca.gov/centralcoast/water\\_issues/programs/ilp/](http://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/)

- (TNA) Report Instructions
- (INMP) Summary Report Instructions
- Crop Nitrogen Removal Conversion Coefficient Protocols
- List of Qualified Labs to Test Nitrogen Content in Crop Material
- Crop evapotranspiration for a single crop via the [ET calculator](#)
- Crop evapotranspiration for multiple crops and plantings via the [Preservation, Inc. ET Calculator](#)



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- TNA Recordkeeping Video & Transcript
- INMP Recordkeeping Video & Transcript
- TNA Reporting Video & Transcript
- INMP Reporting Video & Transcript

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# Contact

Irrigated Lands Program (ILP):

[AgNOI@waterboards.ca.gov](mailto:AgNOI@waterboards.ca.gov)

(805) 549-3148

# Third-Party Program Assisting their Members

Central Coast Water Quality Preservation,  
Inc. (Preservation, Inc.)

[support@ccwqp.org](mailto:support@ccwqp.org)

(831) 761-8644