



ANNUAL GROWER MEETING

November 2023

Agenda

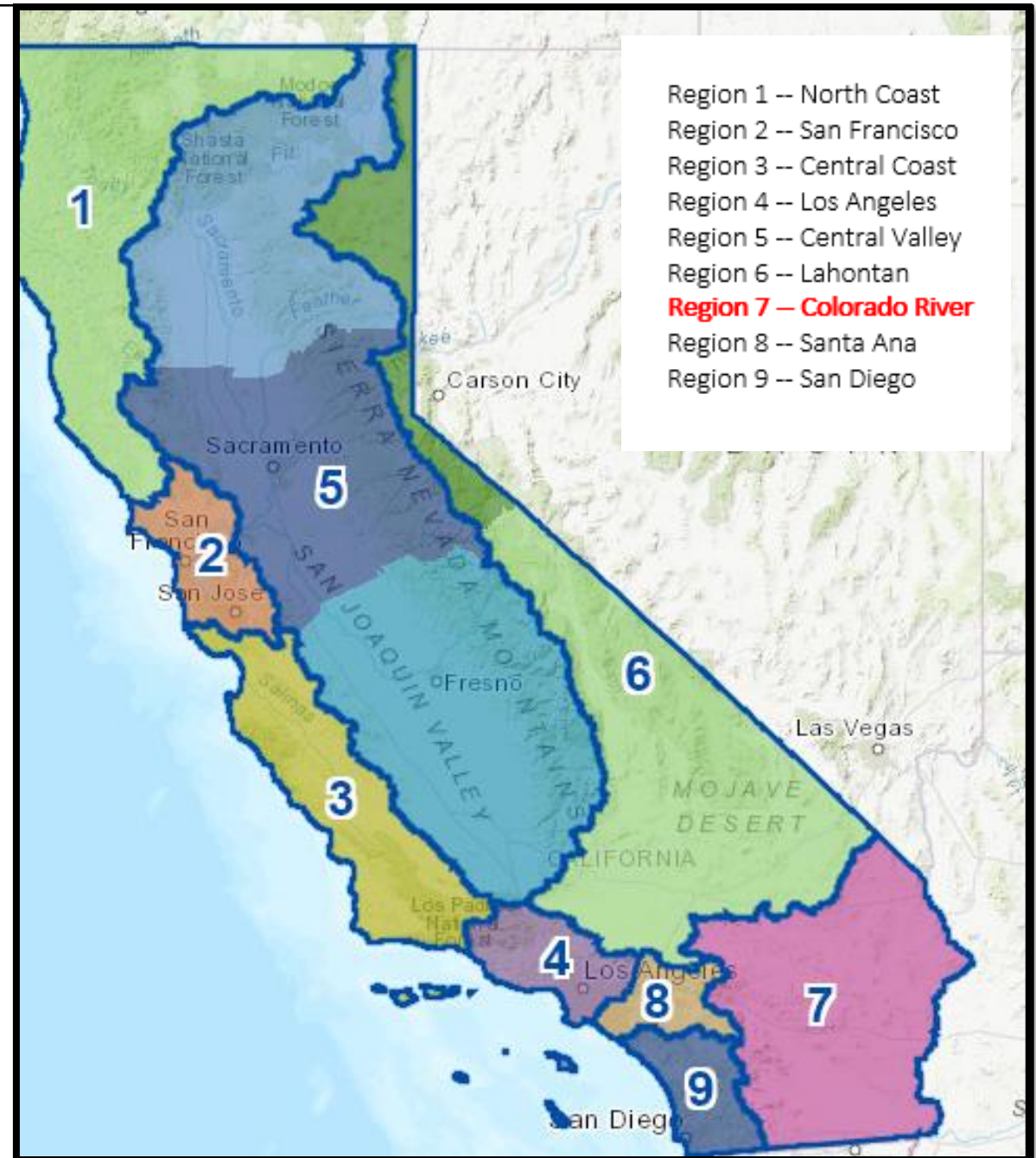
- Program Background
- Updated Member Portal
- Grower Entry Forms
- Nitrogen Removed Coefficients
- Surface and Groundwater Monitoring

Colorado River Regional Water Board

Mission: Protect quality of Region's waters for all beneficial uses

Region 7 – Colorado River Regional Water Quality Control Board

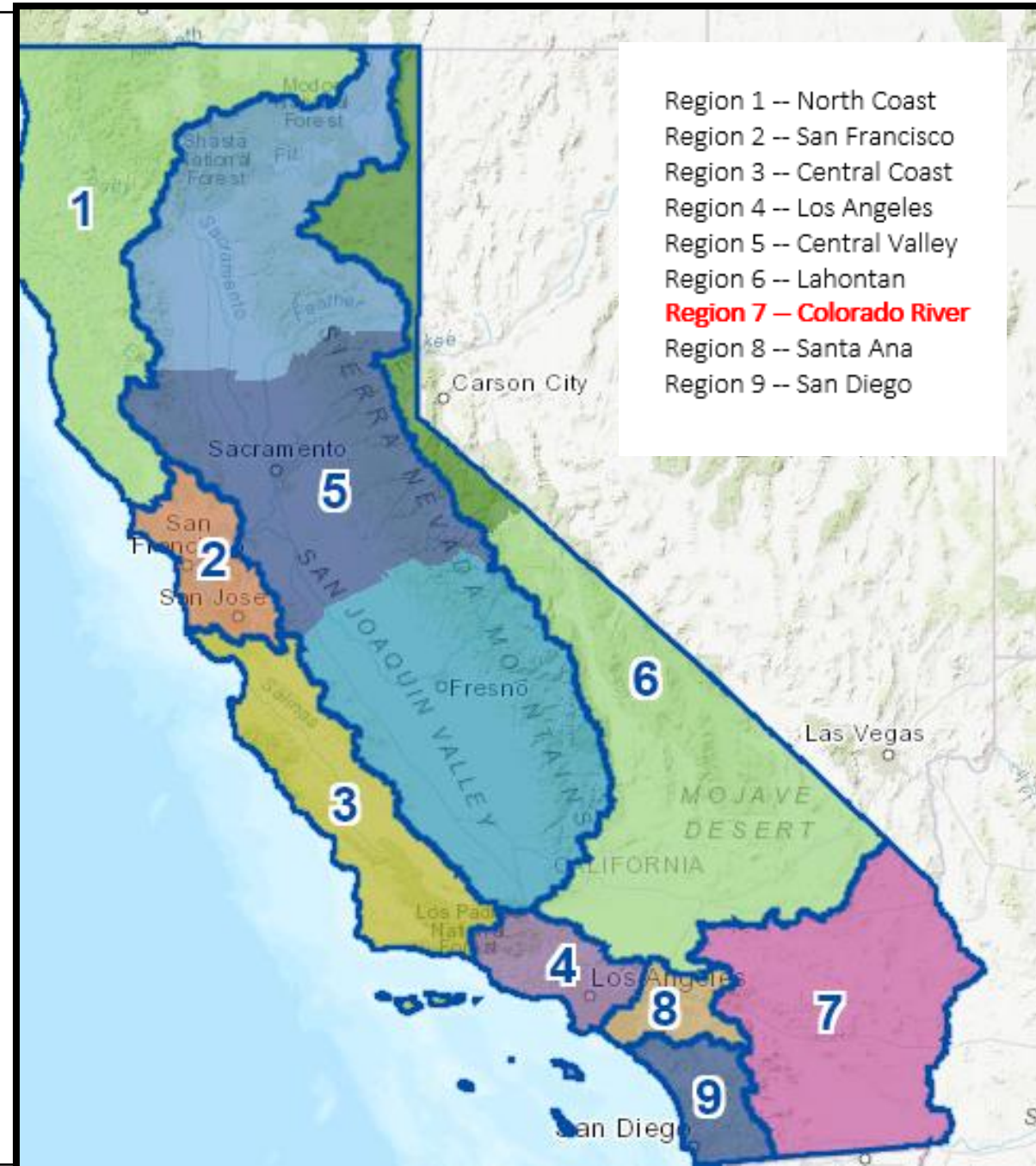
- Imperial County
- San Bernardino County (portion)
- Riverside County (portion)
- San Diego County (portion)



History of Water Quality Coalitions

Irrigated Lands Regulatory Programs in California

- **2004:** Central Valley and Central Coast Regional Water Boards adopted first conditional waivers; 12 coalitions formed in Central Valley; 1 formed on Central Coast
- **2012:** Central Valley and Central Coast Regional Water Boards added nitrogen fertilizer reporting to requirements
- **2015:** Conditional Waiver for Imperial Valley adopted (IID-ICFB Coalition formed)
- **2018:** Central Valley and Central Coast added yield reporting to nitrogen reporting (presidential)
- **2021:** General Waste Discharge Requirements for Irrigated Lands were adopted for Imperial Valley including the nitrogen reporting



Imperial Valley Irrigated Lands Coalition

Imperial County Farm Bureau

- Administers all member compliance and coalition reporting
- Assist members with ILRP compliance
- Intermediary between growers and Regional Board

Imperial Irrigation District

- Water quality monitoring
- Billing and collection of state fee



Grower Responsibilities

- Obtain Coverage
- Implement Management Practices
- Prepare Plans and Reports on Practices
 - Farm Plans
 - Irrigation and Nitrogen Management Summary Report (INMP SR)
 - Irrigation and Nitrogen Management Plan Worksheet (INMP WS)
- Farm Bureau Membership
- Pay State Fee

IVILC MEMBER PORTAL

November Launch Date

Welcome!

The Imperial Valley Irrigated Lands Coalition is an entity managed by the Imperial County Farm Bureau. The IVILC Member Portal grants access to membership information and regulatory requirements.

An ICFB membership is required to join IVILC. If you are not a member, please contact ICFB at (760) 352-3831 or alicyn@icfb.net for more information.

Enter your IVILC member login to access your Member Portal account.



Member Login



Forgot Password?

I Agree to the website [Terms & Conditions](#), and [Privacy Policy](#)

SIGN IN

Login Page – ivilcportal.com

VERIFICATION CODE



Welcome to the IVILC Member Dashboard.

★ Getting Started

The Imperial Valley Irrigated Lands Coalition is an entity managed by the Imperial County Farm Bureau. All ICFB members with irrigated commercial agricultural land may join the IVILC to comply with state regulations.

This Portal provides access to your IVILC membership information including:

- Canal and gate information

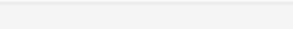


MEMBER AND PARCEL INFORMATION



Farm Plan & INMP Summary Report

0% complete



Deadline is January 31, 2024

ENTER SURVEYS



2024 Crop Year

Do not submit to IVILC

INMP Worksheet



DOCUMENT REPOSITORY



CHECKLIST



MAP

Updated Dashboard

Updated Dashboard

- Three new tiles added

IVILC
Member
Dashboard.

★ Getting Started ▾

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? How-To Video (760) 352-3831 ivilc@icfb.net LOGOUT ☰

MEMBER AND PARCEL INFORMATION

Farm Plan & INMP Summary Report
0% complete
Deadline is January 31, 2024

2024 Crop Year
Do not submit to IVILC

INMP Worksheet

DOCUMENT REPOSITORY

CHECKLIST

MAP

Updated Dashboard

Document Repository

- View previously submitted surveys



2022 FarmPlan

Member ID: 1

Your Farm Plan was received on 4/5/2023

Management Unit Summary

Management Unit	Management Unit Description	Canal / Gate	APN	County	Field ID	Result Crop	Result Acres	Year Planted	TRS	Crop Rotation
1	barley	ACA P079	TBD	Imperial		BARLEY, GRAIN	5	2018	Unknown	No

MEMBER AND
INFORMATION



DOCUMENT REPOSITORY

2022

Select Crop Year

2022

Select Survey Type and Year from drop downs

Updated Dashboard

Checklist

- Review status of current membership requirements

1 / 1

2024 Member Requirements Checklist
IVILC ID # 1 Test Member1

Total Canals/Gates Enrolled: 2
Total Acres Enrolled: 76.00

- Participation Agreement**
- Farm Plan Survey**
Incomplete
Your Farm Plan Survey must be completed online by 1/31/2024. This survey is required annually.
- Irrigation and Nitrogen Management Plan (INMP) Summary Report**
Your Irrigation and Nitrogen Management Plan (INMP) Summary Report must be completed online by 1/31/2024. This report is required annually.

Member Dashboard.

★ Getting Started

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- Canal and gate information

MEMBER AND PARCEL INFORMATION

DOCUMENT REPOSITORY

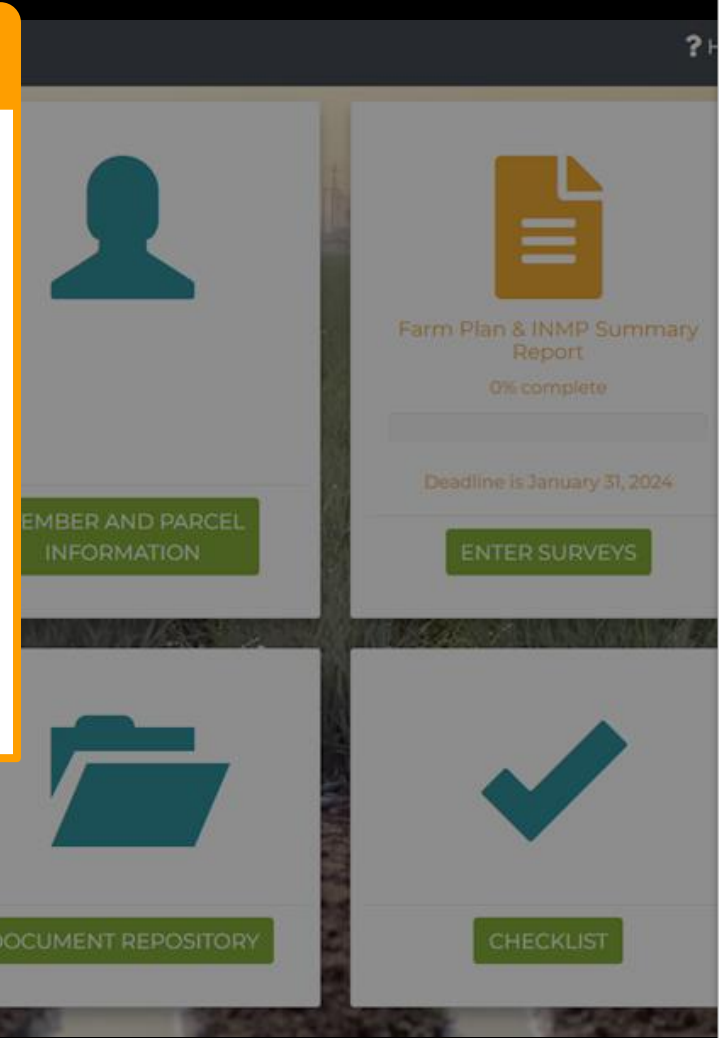
CHECKLIST

MAP

Updated Dashboard

INMP Worksheet

- PDF of the INMP pre-season planning worksheet
- Required to be filled out by March 1
- Plan for upcoming growing season
- Kept on farm



IVILC IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID: _____ INMP Field or MU: _____ Crop: _____ Total Acres: _____

IRRIGATION MANAGEMENT			
1. Irrigation Method* (check one for Primary; if applicable, check one for Secondary)		Pre-Season Planning	
Primary	Secondary ¹	2. Crop Evapotranspiration (ET, inches)	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drip
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Micro Sprinkler
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Furrow
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Border Strip
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flood
3. Anticipated Crop Irrigation (inches)			
4. Irrigation Water N Concentration (ppm or mg/L, as NO ₂ -N)			
5. Irrigation Efficiency Practices* (Check all that apply)			
<input type="checkbox"/> Cascade irrigation		<input type="checkbox"/> Land leveling	
<input type="checkbox"/> Irrigation water management		<input type="checkbox"/> Level basin irrigation	
<input type="checkbox"/> Concrete lined ditches		<input type="checkbox"/> Pump back system (permanent)	
<input type="checkbox"/> Deficit irrigation		<input type="checkbox"/> Pump back system (temporary)	
<input type="checkbox"/> Gated pipe irrigation		<input type="checkbox"/> Other	
HARVEST / YIELD INFORMATION			
Harvest / Yield Information		Expected (A)	Actual (B)
6. Production Unit (lbs, tons, etc.)		7. Harvested Yield*	
NITROGEN MANAGEMENT			
8. Nitrogen Efficiency Practices* (Check all that apply)		Nitrogen Sources	Recommended/ Planned N (A)
<input type="checkbox"/> Split Fertilizer Applications		9. Soil – Available N in Root Zone (Annualized, lbs/ac)	
<input type="checkbox"/> Irrigation Water N Testing		10. N in Irrigation Water* (Annualized, lbs/ac)	
<input type="checkbox"/> Soil Testing		11. Organic Amendments* (Manure/Compost/Other, lbs/ac estimate)	
<input type="checkbox"/> Tissue/Petiole Testing		12. Dry/Liquid Fertilizer N* (lbs/ac)	
<input type="checkbox"/> Fertigation		13. Foliar Fertilizer N* (lbs/ac)	
<input type="checkbox"/> Foliar N Application		14. TOTAL NITROGEN (Estimated Total)	
<input type="checkbox"/> Cover Crops			
<input type="checkbox"/> Variable Rate Applications using GPS			
<input type="checkbox"/> Other: _____			
<input type="checkbox"/> Other: _____			

Updated Dashboard



Navigation Bar

Parcels are populated for each gate linked to the membership

Membership Information

Member ID: 499

Member Name: Jillian Chalfant

Company Name: MLJ Environmental

Language Preference: English

[Update](#)

Contact Information

Address: 1480 Drew Ave.

City: Davis

State: CA

Zip Code: 95618

Email Address: jchalfant@mljenvironmental.com

Phone 1: 530-756-5200

Search Enrolled Parcels

Enrolled Parcels [Click to Add/Edit Secondary Contacts](#)

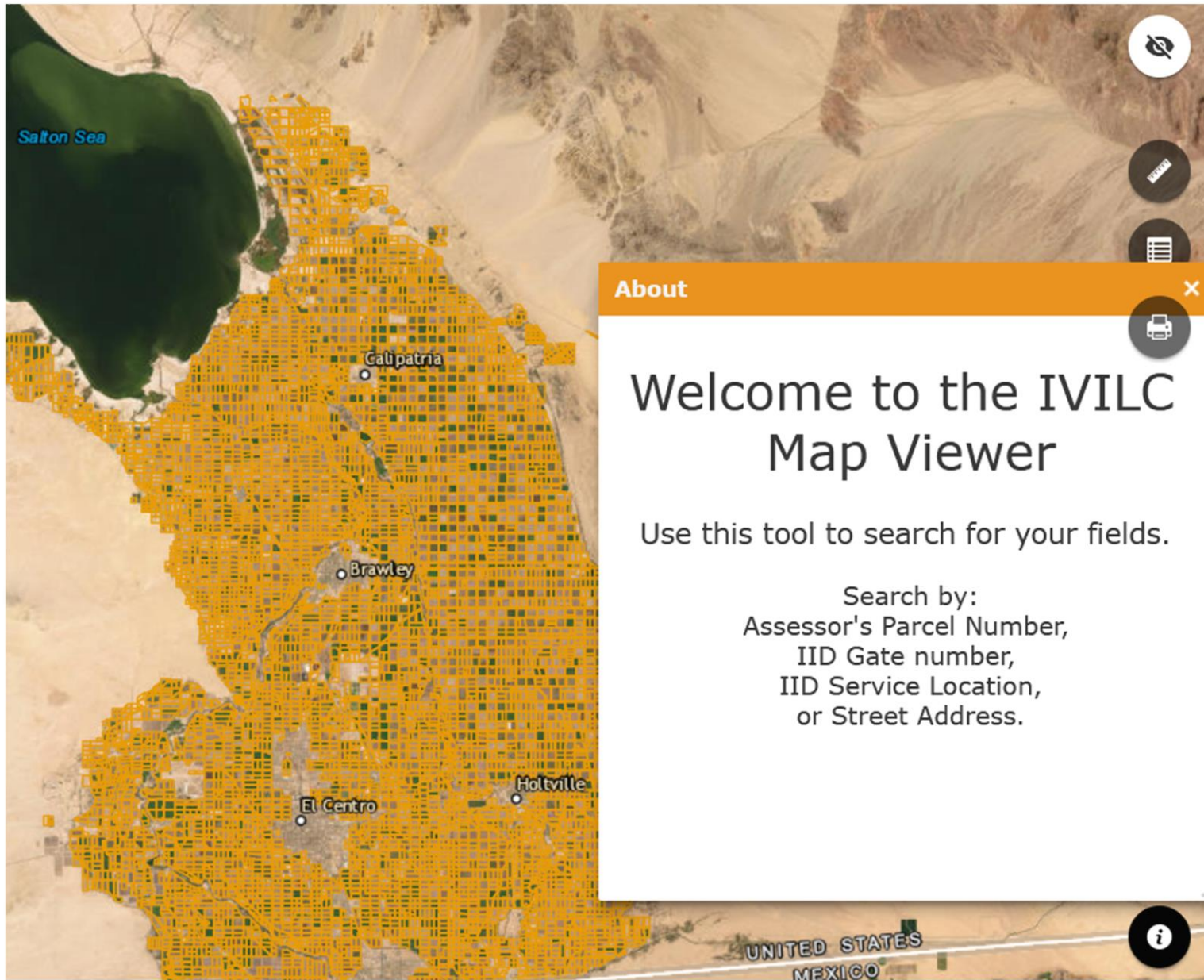
Assessor's Parcel Number (APN)	Canal	Gate	Field ID	Acreage	Landowner	Delete
054-260-019	Acacia	ACA 17 001	8460	75.38	William D Allen Et Al	Delete
054-260-019	Acacia	ACA 17 001	8461	76.31	William D Allen Et Al	Delete
051-290-011	Foxglove	FOX 11 001	5840	28.27	Garcia, Gustavo	Delete

Remove a Gate

[Add a new Canal/Gate and associated Parcels](#)

Link a Gate

Edit Membership Info



Map Tool

- Search for canal/gate and parcels
- Review overlap for completing surveys

Do not submit to IVILC

INMP Worksheet



MAP



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? How-To Video



MEMBER AND PARCEL INFORMATION



Farm Plan & INMP Summary Report

0% complete

Deadline is January 31, 2024

ENTER SURVEYS



DOCUMENT REPOSITORY



CHECKLIST



MAP

Survey Reporting

- Farm Plan requirements same as 2022
- INMP requirements new for 2023
- Click to enter combined reporting module

Updated Dashboard

Combined Reporting

Simplified Survey Entry Forms

- Farm Plan & INMP combined to avoid duplication.
- Information required on both surveys only entered once.
- Whenever possible, field details and responses from last year's survey are pre-filled.



Farm Plan



INMP Summary Report



The screenshot shows a user interface for a survey. At the top is an orange document icon. Below it, the text reads "Farm Plan & INMP Summary Report" and "0% complete". A progress bar is shown below this text. Underneath the progress bar, it says "Deadline is January 31, 2024". At the bottom of the form is a green button with the text "ENTER SURVEYS".

GROWER SURVEYS

Print Blank Surveys

2023 INMP Summary Report and Farm Plan

Each year, both the Farm Plan (FP) and the Irrigation and Nitrogen Management Plan (INMP) Summary Report are required annually.

This survey module guides you through **both** surveys to reduce redundancy and maximize your time.

Management Unit Assignment

Both the INMP Summary Report and FP require information be submitted per parcel.

Group parcels below using the "Add all parcels" button. When possible, your Management Unit (MU) information from the prior survey entry is populated below for added efficiency.

Group parcels into MUs by filling out all required fields and assigning a Management Unit Description.

When the different nitrogen and yield application rates should be split into different MUs using Management Unit Description.

Do not lump low yield and high yield fields into one MU.

What is a Management Unit?

A Management Unit (MU) is a group of fields or parcels that are managed the same way. Parcels with the same irrigation method, crop, age, fertilizer management practices, and per acre yield can be grouped into one MU.

Crop Rotation

Document crop rotation on a parcel by adding a row for the each crop grown within the year (the Duplicate button will help with this).

Welcome to the Farm Plan survey. This new survey is required every year and covers farming practices for the previous crop year.

Progress indicator: 1 of 5 steps

Back Next

A tour will highlight elements of each entry step.

Entry Forms

2023 INMP Summary Report

Starting with the 2023 Crop Year, both the Farm Plan (FP) and the Irrigation and Nitrogen

This survey module guides you through **both** surveys to reduce

Management Unit Assi

Both the INMP Summary Report and FP require inform

1. Populate your membership's enrolled parcels below using the "Add all parcels" button. When possible below for added efficiency
2. Please provide information for each parcel: Crop, Year Planted, Acreage, and Management Unit Description
3. Consider yield when assigning your Management Units. Fields with the different nitrogen and yield Description.

It is recommended not to lump low yield and high

What is a Management Unit?

A Management Unit (MU) is a group of fields or parcels that are managed the same way. Parcels with the same irrigation method, crop, age, fertilizer management practices, and per acre yield can be grouped into one MU.

[Informational Video](#)

Management Units have the same:

- Specific Crop
- Crop Age
- Yield per Acre
- Nitrogen Application per Acre
- Management Practices used

Step 1: Management Units

2023 INMP Summary Report and Farm Plan

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This survey module guides you through **both** surveys to reduce redundancy and maximize your time.

Management Unit Assignment

Both the INMP Summary Report and FP require information be submitted per parcel.

- 1. Populate your membership's enrolled parcels** below using the "Add all parcels" button. When possible, your Management Unit (MU) information from the prior survey entry is populated below for added efficiency.
- 2. Please provide information for each parcel:** Crop, Year Planted, Acreage, and Management Unit Description. Group parcels into MUs by filling out all required fields and assigning a Management Unit Description.
- 3. Consider yield when assigning your Management Units.** Fields with the different nitrogen and yield application rates should be split into different MUs using Management Unit Description.

It is recommended not to lump low yield and high yield fields into one MU.

What is a Management Unit?

A Management Unit (MU) is a group of fields or parcels that are managed the same way. Parcels with the same irrigation method, crop, age, fertilizer management practices, and per acre yield can be grouped into one MU.

[Informational Video](#)

Crop Rotation

Document crop rotation on a parcel by adding a row for the each crop grown within the year (the Duplicate button will help with this).

Add a checkmark under Crop Rotation to indicate the given field had multiple crops grown on the land over the year.

See the top of the Management Unit Assignment Entry form for helpful tips

Step 1: Management Units

Add parcels from your membership records

Select parcels by associated Gate

Preview Management Units

Add All Enrolled Parcels: **Add all parcels**

Select a gate: Select a Gate **Add Parcels**

		MU Description	Canal Gate Nu...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acr
--	--	----------------	------------------	------------	-------	-----	----	------	--------------	----------

Add All Enrolled Parcels: **Add all parcels**

		MU Description	Canal Gate Nu...
--	--	----------------	------------------

Or add all enrolled parcels at once

Select a gate: Select a Gate **Add Parcels**

TRS	Select a Gate	Year Planted
	ALD P053	
	ALD 3 001	

You need to assign all management units before proceeding.

Entry Forms: Add Parcels

Preview Management Units

Add All Enrolled Parcels: Add all parcels

Select a gate: Select a Gate Add Parcels

			MU Description	Canal Gate Nu...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acres	Crop Rotat...
✓ Update	Delete	Duplicate	Block 1	ALD P053	1A	054-272-018	T16SR14E4		CARROT	2023	1.09	<input type="checkbox"/>
Cancel				ALD 3 001		059-010-059	T17SR14E1				27.33	No
Edit				ALD 3 001		059-010-062	Unknown				9.75	No
Edit				ALD 3 001		059-010-063	Unknown				26.75	No

Edit each line

Automatically group into one Management Unit with same:

- MU Description
- Crop
- Year Planted

Field ID can be different: describe that specific field or section of the MU

Next

Entry Forms: Creating Management Units

1. Parcels start in an unassigned MU bucket.
2. Enter crop, age, and description
3. Parcels will fall into Management Unit buckets

(Unassigned parcels)

Block 1 (1, CARROT, Age: < 1, 64.92 acres)

- 054-272-018, Field: 1A
- 059-010-059, Field: 1B
- 059-010-062, Field: 1C
- 059-010-063, Field: 1D

(Unassigned parcels)

- 054-272-018, Field: N/A
- 059-010-059, Field: N/A
- 059-010-062, Field: N/A
- 059-010-063, Field: N/A

Add All Enrolled Parcels: Select a gate:

			MU Description	Canal Gate Nu...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acres	Crop Rotat...
Edit	Delete	Duplicate	Block 1	ALD P053	1A	054-272-018	T16SR14E4	1	CARROT	2023	1.09	Yes
Edit	Delete	Duplicate	Block 1	ALD 3 001	1B	059-010-059	T17SR14E1	1	CARROT	2023	27.33	Yes
Edit	Delete	Duplicate	Block 1	ALD 3 001	1C	059-010-062	Unknown	1	CARROT	2023	9.75	Yes
Edit	Delete	Duplicate	Block 1	ALD 3 001	1D	059-010-063	Unknown	1	CARROT	2023	26.75	No

Entry Forms: Creating Management Units

Crop Rotation Scenario

Different crop on same field,
different seasons

Block 1

Block 1 – Rotation

Review Assignments

Check “Yes” for
Crop Rotation

Preview Management Units

			MU Description	Canal Gate Nu...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Ac	Crop Rotat...
	Delete	Duplicate	Block 1	ALD P053	1A	054-272-018	T16SR14E4	1	CARROT	2023	1.09	<input type="checkbox"/>
	Delete	Duplicate	Block 1 - Rotation	ALD P053	1A	054-272-018	T16SR14E4	2	LETTUCE	2023	1.09	<input checked="" type="checkbox"/>
	Delete	Duplicate	Block 1	ALD 3 001					CARROT	2023		<input type="checkbox"/>
	Delete	Duplicate	Block 1	ALD 3 001					CARROT	2023		<input type="checkbox"/>
	Delete	Duplicate	Block 1	ALD 3 001	1D	059-010-063	Unknown	1	CARROT	2023		<input type="checkbox"/>

Next

Same
Acreage

New Management Unit info

Add parcel/gate
combination more than
once to split into multiple
Management Units

Entry Forms: Creating Management Units

(Unassigned parcels)

Block 1 (1, CARROT, Age: < 1, 64.92 acres)

054-272-018, Field: 1A

059-010-059, Field: 1B

059-010-062, Field: 1C

059-010-063, Field: 1D

Block 1 - Rotation (2, LETTUCE, Age: < 1, 38.17 acres)

054-272-018, Field: 1A

059-010-059, Field: 1B

059-010-062, Field: 1C

Crop Rotation Scenario

- Different crop on same field, different seasons
 - *Block 1*
 - *Block 1 – Rotation*
 - *Fields 1A, 1B, and 1C in crop rotation*

Add All Enrolled Parcels: Add all parcels

 Select a gate: Select a Gate ▼ Add Parcels

			MU Description	Canal Gate Numb...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acres	Crop Rotation
✎ Edit	Delete	Duplicate	Block 1	ALD P053	1A	054-272-018	T16SR14E4	1	CARROT	2023	1.09	Yes
✎ Edit	Delete	Duplicate	Block 1 - Rotation	ALD P053	1A	054-272-018	T16SR14E4	2	LETTUCE	2023	1.09	Yes
✎ Edit	Delete	Duplicate	Block 1 - Rotation	ALD 3 001	1B	059-010-059	T17SR14E1	2	LETTUCE	2023	27.33	Yes
✎ Edit	Delete	Duplicate	Block 1	ALD 3 001	1B	059-010-059	T17SR14E1	1	CARROT	2023	27.33	Yes
✎ Edit	Delete	Duplicate	Block 1	ALD 3 001	1C	059-010-062	Unknown	1	CARROT	2023	9.75	Yes
✎ Edit	Delete	Duplicate	Block 1 - Rotation	ALD 3 001	1C	059-010-062	Unknown	2	LETTUCE	2023	9.75	Yes
✎ Edit	Delete	Duplicate	Block 1	ALD 3 001	1D	059-010-063	Unknown	1	CARROT	2023	26.75	No

Entry Forms: Creating Management Units

Split Parcel Scenario

- Different crops on different areas of the same field, same seasons
 - Block 1
 - Alfalfa Field

Review Assignments

Preview Management Units

parcels

Select a gate: Select a Gate Add Parcels

	Canal Gate Nu...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acres	Crop Rotat...			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD P053	1A	054-272-018	T16SR14E4	1	CARROT			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1 - Rotation	ALD P053	1A	054-272-018	T16SR14E4	2	LETTUCE			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1 - Rotation	ALD 3 001	1B	059-010-059	T17SR14E1	2	LETTUCE			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD 3 001	1B	059-010-059	T17SR14E1	1	CARROT			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD 3 001					CARROT			
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1 - Rotation	ALD 3 001					LETTUCE			
<input checked="" type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Alfalfa Field	ALD 3 001	1D	059-010-063	Unknown	3	ALFALFA, HAY	2023	9.75	Yes
<input type="button" value="Cancel"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>										
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD 3 001	1D	059-010-063	Unknown	1	CARROT	2023	10	No

New Management Unit info

Split Acres:

- 25 acres total
 - 15 in new MU
 - 10 in Block 1 MU

Duplicate field 1D to split into multiple Management Units

Next

Entry Forms: Creating Management Units

(Unassigned parcels)

Block 1 (1, CARROT, Age: < 1, 48.17 acres)

- 054-272-018, Field: 1A
- 059-010-059, Field: 1B
- 059-010-062, Field: 1C
- 059-010-063, Field: 1D

Block 1 - Rotation (2, LETTUCE, Age: < 1, 38.17 acres)

- 054-272-018, Field: 1A
- 059-010-059, Field: 1B
- 059-010-062, Field: 1C

Alfalfa Field (3, ALFALFA, HAY, Age: < 1, 15 acres)

- 059-010-063, Field: 1D

Split Parcel Scenario

- Different crops on different areas of the same field, same seasons
 - Block 1
 - Alfalfa Field
 - Field 1D split between two MUs

Add All Enrolled Parcels: Add all parcels Select a gate: Select a Gate Add Parcels

			MU Description	Canal Gate Numb...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acres	Crop Rotation
	Delete	Duplicate	Block 1	ALD P053	1A	054-272-018	T16SR14E4	1	CARROT	2023	1.09	Yes
	Delete	Duplicate	Block 1 - Rotation	ALD P053	1A	054-272-018	T16SR14E4	2	LETTUCE	2023	1.09	Yes
	Delete	Duplicate	Block 1 - Rotation	ALD 3 001	1B	059-010-059	T17SR14E1	2	LETTUCE	2023	27.33	Yes
	Delete	Duplicate	Block 1	ALD 3 001	1B	059-010-059	T17SR14E1	1	CARROT	2023	27.33	Yes
	Delete	Duplicate	Block 1	ALD 3 001	1C	059-010-062	Unknown	1	CARROT	2023	9.75	Yes
	Delete	Duplicate	Block 1 - Rotation	ALD 3 001	1C	059-010-062	Unknown	2	LETTUCE	2023	9.75	Yes
	Delete	Duplicate	Alfalfa Field	ALD 3 001	1D	059-010-063	Unknown	3	ALFALFA, HAY	2023	15	No
	Delete	Duplicate	Block 1	ALD 3 001	1D	059-010-063	Unknown	1	CARROT	2023	10	No

Entry Forms: Creating Management Units

(Unassigned parcels)

Block 1 (1, CARROT, Age: < 1, 48.17 acres)

- 054-272-018, Field: 1A
- 059-010-059, Field: 1B
- 059-010-062, Field: 1C
- 059-010-063, Field: 1D

Block 1 - Rotation (2, LETTUCE, Age: < 1, 38.17 acres)

- 054-272-018, Field: 1A
- 059-010-059, Field: 1B
- 059-010-062, Field: 1C

Alfalfa Field (3, ALFALFA, HAY, Age: < 1, 15 acres)

- 059-010-063, Field: 1D

Finalize MUs

- Move on to next section once Management Units are completed

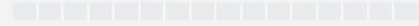
Add All Enrolled Parcels: Select a gate:

			MU Description	Canal Gate Numb...	Field ID ↑	APN ↑	TRS	MU	Crop	Year Planted	Crop Acres	Crop Rotation
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD P053	1A	054-272-018	T16SR14E4	1	CARROT	2023	1.09	Yes
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1 - Rotation	ALD P053	1A	054-272-018	T16SR14E4	2	LETTUCE	2023	1.09	Yes
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1 - Rotation	ALD 3 001	1B	059-010-059	T17SR14E1	2	LETTUCE	2023	27.33	Yes
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD 3 001	1B	059-010-059	T17SR14E1	1	CARROT	2023	27.33	Yes
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD 3 001	1C	059-010-062	Unknown	1	CARROT	2023	9.75	Yes
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1 - Rotation	ALD 3 001	1C	059-010-062	Unknown	2	LETTUCE	2023	9.75	Yes
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Alfalfa Field	ALD 3 001	1D	059-010-063	Unknown	3	ALFALFA, HAY	2023	15	No
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	<input type="button" value="Duplicate"/>	Block 1	ALD 3 001	1D	059-010-063	Unknown	4	CARROT	2023	10	No

Next Question

Entry Forms: Creating Management Units

Survey Completeness: 0 / 16



Expand boxes at the top of the page for helpful information on each component

2023 INMP Summary Report and Farm Plan

Nitrogen and Yield Information

Enter your nitrogen application and yield information below per management unit

Click the headers below to expand or collapse the content:

N in Irrigation Water ▲

Enter the amount of nitrogen applied via irrigation water over the course of the crop year in pounds per acre. This value is calculated based on the actual crop irrigation and irrigation water N concentration. To calculate N in irrigation water, use the following formula:

N concentration (ppm or mg/L) x inches of irrigation applied x 0.226

Nitrate as nitrogen is also referred to as Nitrate as N, nitrate-nitrogen, or NO3-N.

Production Unit ▼

Yield Info ▼

Step 2: INMP Entry

Nitrogen Applied:

- Annual total
- Pounds of N per acre
- Each individual source type
- All boxes must be filled

Main	Nitrogen Sources			Yield				
	N in Irrigation Water (lbs/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Harvested Yield (Per Acre)	Production Unit		
Block 1	48.17	CARROT	0	0	150	0	300	Pounds
Block 1 - I	38.17	LETTUCE	0	0	200	0	15	Tons (2000 lbs)
Alfalfa Fie	15	ALFALFA, HAY	0	0	0	0	8	Tons (2000 lbs)

Yield Information

None

None

No Yield

Non-Bearing

No Nitrogen Applied

Not Irrigated

Seed or Rootstock

Irrigation Nitrogen Only

Not Farmed

Built in Controls

- Progress saved through automatic and manual saving features
- Alerts for missing info

Save Progress

Next

Harvested Yield:

- Annual total
- Defaults to pounds
- Double check units

Entry Forms: Nitrogen and Yield Information

Step 1 MU(s)			Nitrogen Sources				Yield			Additional Information
Management Unit Description	Total Acres	Specific Crop	N in Irrigation Water (lbs/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Harvested Yield (Per Acre)	Production Unit	Yield Information	Comments
Block 1	48.17	CARROT	0	0	150	0	300	Pounds	None	Comments
Block 1 - I	38.17	LETTUCE	0	0	200	0	15	Tons (2000 lbs)	None	Comments
Alfalfa Field	15	ALFALFA, HAY	0	0	0	0	8	Tons (2000 lbs)	No Nitrogen Applied	Comments

- Return to field page to refine MU groupings
- MUs are locked after this step to prevent data mismatch issues.

Save Progress

Next



Confirm to continue

After continuing past this page, your Management Units are locked. You will not be able to change the field groupings. Are you ready to proceed?

Entry Forms: Nitrogen and Yield Information

- Entry forms require responses for each MU.
- “Check all” features streamline entry.

1

Primary Irrigation Method

Select the Primary Irrigation Method per Management

MU	Drip <input type="checkbox"/> Check All	Flood <input type="checkbox"/> Check All	Furrow <input type="checkbox"/> Check All	Microsprinkler <input type="checkbox"/> Check All
Block1 (1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Block2 (2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Home Dates (3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Management Practice Questions

- INMP Summary Report:
 - Irrigation methods
 - Irrigation efficiency practices
 - Nitrogen efficiency practices
- These questions are duplicated on the Farm Plan.
 - Responses will be used for both Surveys

Entry Forms: INMP Management Practices

You're almost there!

Enter your name below to finish your INMP Summary Report.

If you have a Farm Plan requirement, continue to answer the remaining questions.

Forms completed by:

Type name here

Date:

10/23/2023



Submit

Add an electronic signature to complete the INMP Summary Report.

Two options:

- Continue to enter remaining responses for Farm Plan
- Exit and return later for Farm Plan entry

Entry Forms: INMP Signature

Survey Check Point Page:

2023 Surveys
MEMBERSHIP #1234

Complete

INMP Summary Report REVIEW / EDIT Print

Completed By: Mark Waters on 11/01/2023

Incomplete

Farm Plan In Progress

CONTINUE SURVEY

This page is available as a tool from the main portal Dashboard after the INMP Summary Report milestone is complete.

This survey check point page allows you to:

- See a summary of completeness
- Continue incomplete Farm Plan survey
- Edit submitted responses
- Print a copy of the submitted surveys

2023 Surveys
MEMBERSHIP #1234

Complete

INMP Summary Report REVIEW / EDIT Print

Completed By: Mark Waters on 11/01/2023

Incomplete



Farm Plan REVIEW / EDIT Print

Completed By: Mark Waters on 11/01/2023

2023 Surveys


MEMBERSHIP #1234

🕒 Complete

 **INMP Summary Report** REVIEW / EDIT 

Completed By: Mark Waters on 11/01/2023

🕒 Incomplete

 **Farm Plan** In Progress

CONTINUE SURVEY

Step 3: Farm Plan Entry

Back

Go back to the last question



Are you sure?

By clicking Reset, you are clearing your survey and must start again to receive credit for completing this requirement. Your existing field information and responses will be temporarily preserved to help streamline your new survey entry.

Cancel

OK

Reset Survey

Reset survey to start over from the beginning

Some answers will be temporarily saved

Save Progress

Next

Save progress to come back later

Forms will guide you through the remaining questions to complete the Farm Plan survey

Step 3: Farm Plan Entry

Cultural Practices for Managing Sediment and Erosion

Check all that apply

Block 1 (1)

Add electronic signature to complete the Farm Plan

You are almost done!

Please enter your name below and click "Submit" to finish your survey.
After submitting your survey, you may return to edit your responses, if needed.

Forms completed by:

Date:

Plastic sheeting used to control erosion

Check All

Reduced tillage (including minimum till planting)

Check All

Settling basin

Check All

Other

Management Practice Questions

- Remaining Farm Plan Questions:
 - Well information
 - Sediment and erosion control practices
 - Agricultural chemical information
 - Spray practices
 - Drainage information

Step 3: Farm Plan Entry



Welcome to the IVILC Member Dashboard.

★ Getting Started

The Imperial Valley Irrigated Lands Coalition is an entity managed by the Imperial County Farm Bureau. All ICFB members with irrigated commercial agricultural land may join the IVILC to comply with state regulations.

This Portal provides access to your IVILC membership information including:

- Canal and gate information



MEMBER AND PARCEL INFORMATION



Farm Plan & INMP Summary Report

100% complete



Deadline is January 31, 2024

ENTER SURVEYS



2024 Crop Year

Do not submit to IVILC

INMP Worksheet



DOCUMENT REPOSITORY



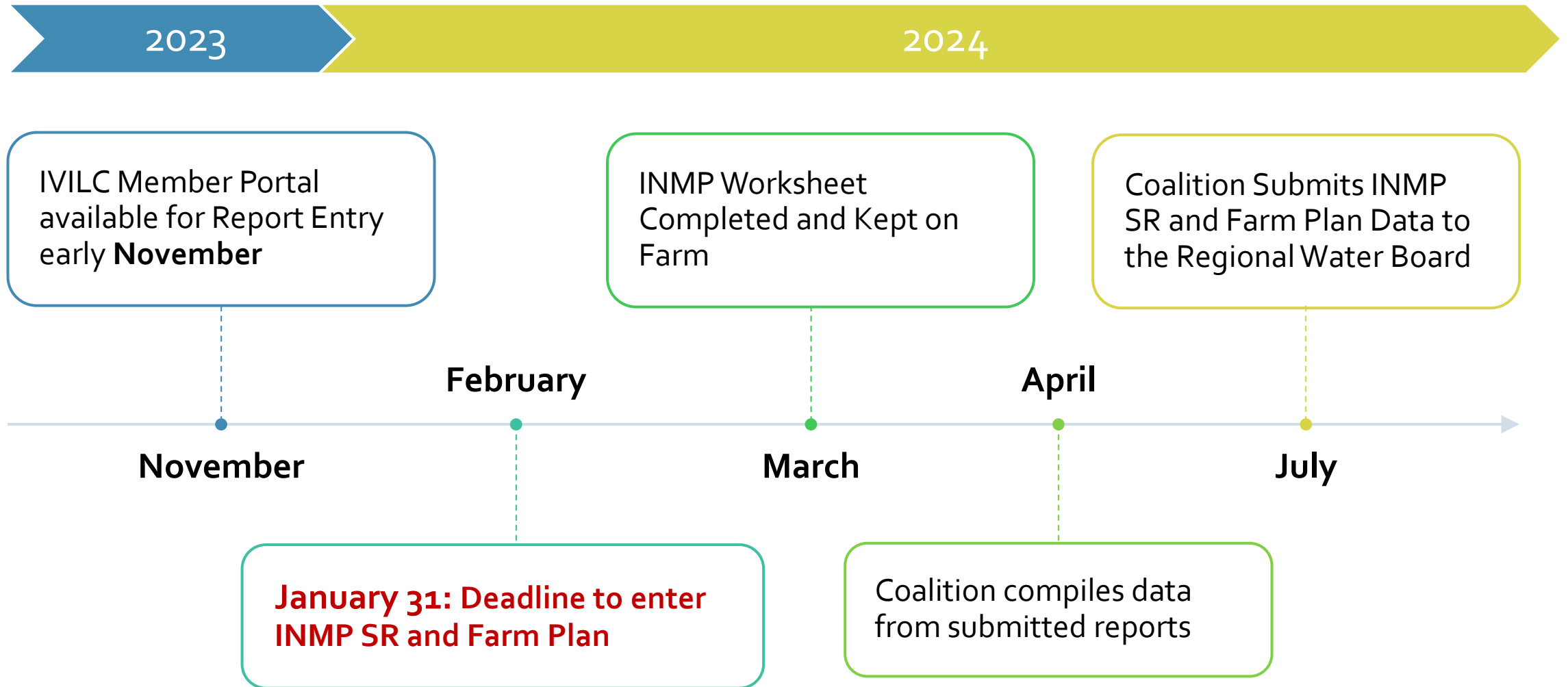
CHECKLIST



MAP

Surveys Complete!

Membership Reporting Timeline



NITROGEN REMOVED COEFFICIENTS

Interpreting and Reporting INMP Data



Comparison of nitrogen applied to yield information gives an indication of relative efficiency



Need a way to express yield reported in terms of nitrogen

Converting Yield to Nitrogen Removed



Nitrogen Removed
Coefficients are used to convert amount harvested material to pounds of N removed



Estimates amount of nitrogen to efficiently grow a crop













Values obtained from scientific literature and studies

Converting Yield to Nitrogen Removed

- Example: **Carrots**
 - Coefficient for carrots is 0.0014*
 - pounds of N removed per pound of yield
 - * Developed by UC Davis (Dr. Patrick Brown)
 - **If yield is 30,000 lbs then crop needs 42 lbs/N acre**
 - Pounds of N removed = 30,000 lbs yield * 0.0014 = 42 pounds of N removed with harvest
- CDFA "FREP" Program has best library of existing crop nitrogen coefficients
<https://www.cdfa.ca.gov/is/ffldrs/frep/FertilizationGuidelines/>

Central Valley Coefficients for Imperial Valley Crops

- Different growing conditions and cropping patterns raise concerns for using existing values
 - Most coefficients are from the Central Valley
 - Only 5 of top 10 Imperial Crops have a coefficient from the Central Valley
- Further review needed to assess usability in Imperial Valley

	Alfalfa Hay
	Grass Hay
	Grass (Seed)
	Sudan Hay
	Beets
	Alfalfa (Seed)
	Lettuce
	Onions (Dehydrator)
	Carrots
	Wheat (Grain)

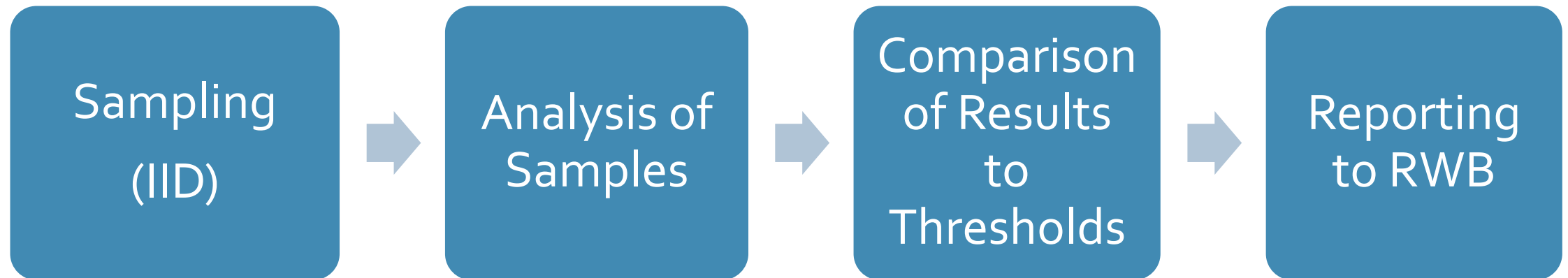
Reporting INMP Data

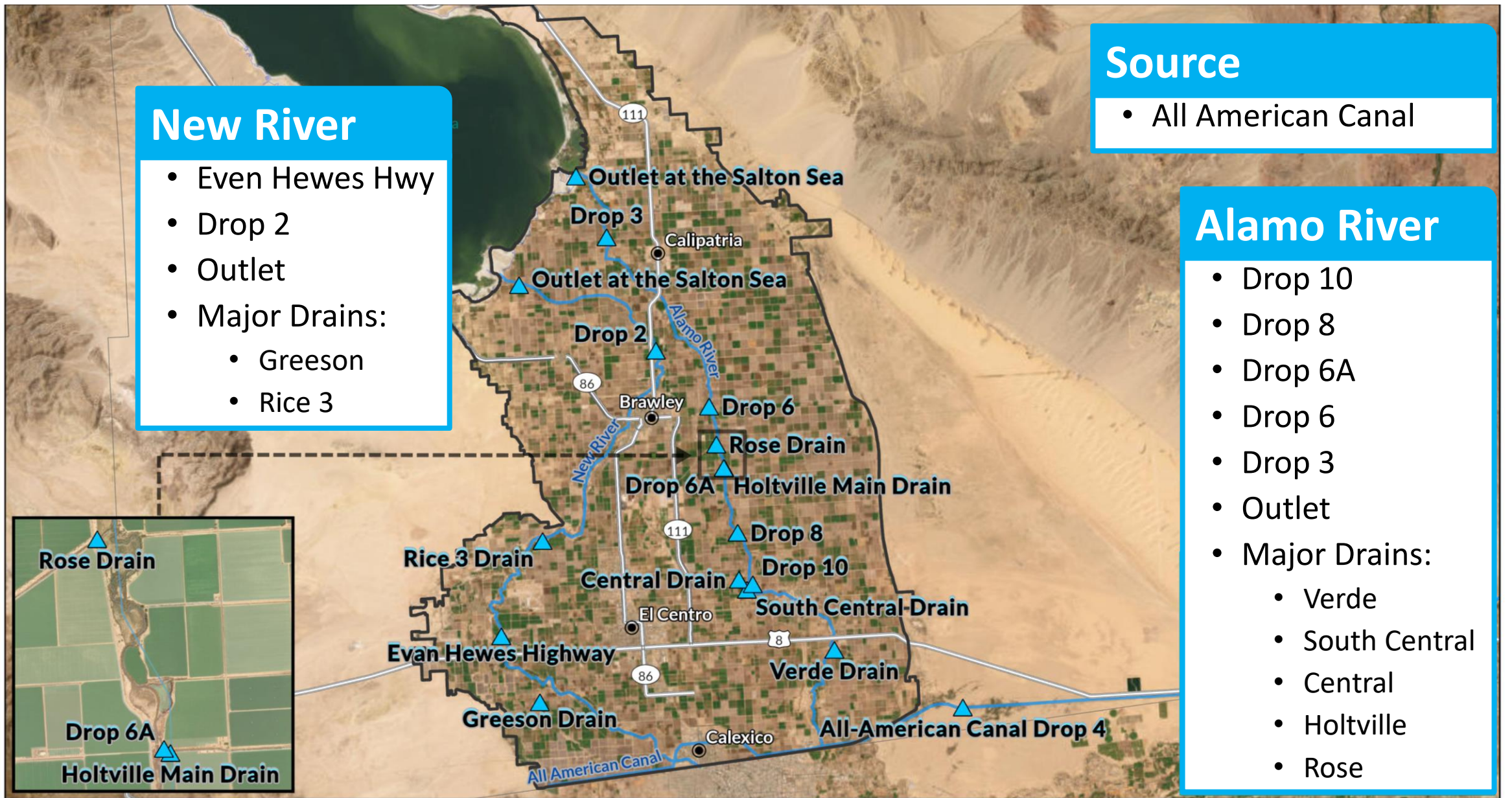
- **A** = Nitrogen Applied
 - Reported by members on INMP SR as lbs/acre
- **R** = Nitrogen Removed
 - Converted yield value using Nitrogen Removed Coefficient
- Comparisons of A and R are required as a part of Coalition reports
 - **A/R** = Ratio (efficiency)
 - **A-R** = Difference (potential loading risk)
- A/R and A-R are indicators of nitrogen efficiency
- Values summed over time – three year running totals

SURFACE AND GROUNDWATER REPORTING

Surface Water Monitoring

- Goal is to characterize the impact of irrigated agriculture on the water quality on surface waters and drains in Imperial Valley.



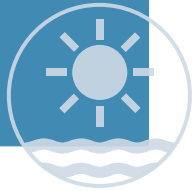


Surface Water Monitoring Locations

Surface Water Monitoring - Constituents

- pH
- Water Temperature
- Dissolved Oxygen
- Electrical Conductivity
- Flow

Field Measures



- Total Phosphorous
- Total Nitrogen, Nitrate as N, Nitrite as N, Total Kjeldahl Nitrogen, Ammonia as N
- Selenium
- E. Coli / Enterococcus
- Biological Oxygen Demand
- Hardness, Alkalinity, Chloride, Sulfate

Nutrients,
Metals, Bacteria,
Phys Parameters



- Chlorpyrifos
- Diazinon
- Malathion
- Bifenthrin
- Cyfluthrin
- Cypermethrin

Pesticides



- Fathead Minnow –survival / growth
- Water Flea – survival / reproduction
- Algae – growth

Toxicity



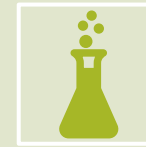
Quarterly

Semiannually

Annually

2022 Surface Water Exceedances

	Parameter	Threshold	Count of 2022 Exceedances
Field Measures	pH	6.0 to 9.0	17
	Dissolved Oxygen (DO)	5.0 mg/L	None
Physical Parameters	Total Suspended Solids (TSS)	200 mg/L	92
	Total Dissolved Solids (TDS)	4500 mg/L	None
Bacteria	E. coli	126 MPN/100 mL	178
Metals	Selenium	5.0 µg/L	154
Pesticides	Chlorpyrifos	14 µg/L	None
	Diazinon	100 µg/L	None
	Malathion	0.028 µg/L	None
	Bifenthrin	0.0006 µg/L	7
	Cyfluthrin	0.00005 µg/L	3
	Cypermethrin	0.0002 µg/L	6



Samples collected monthly during 2022

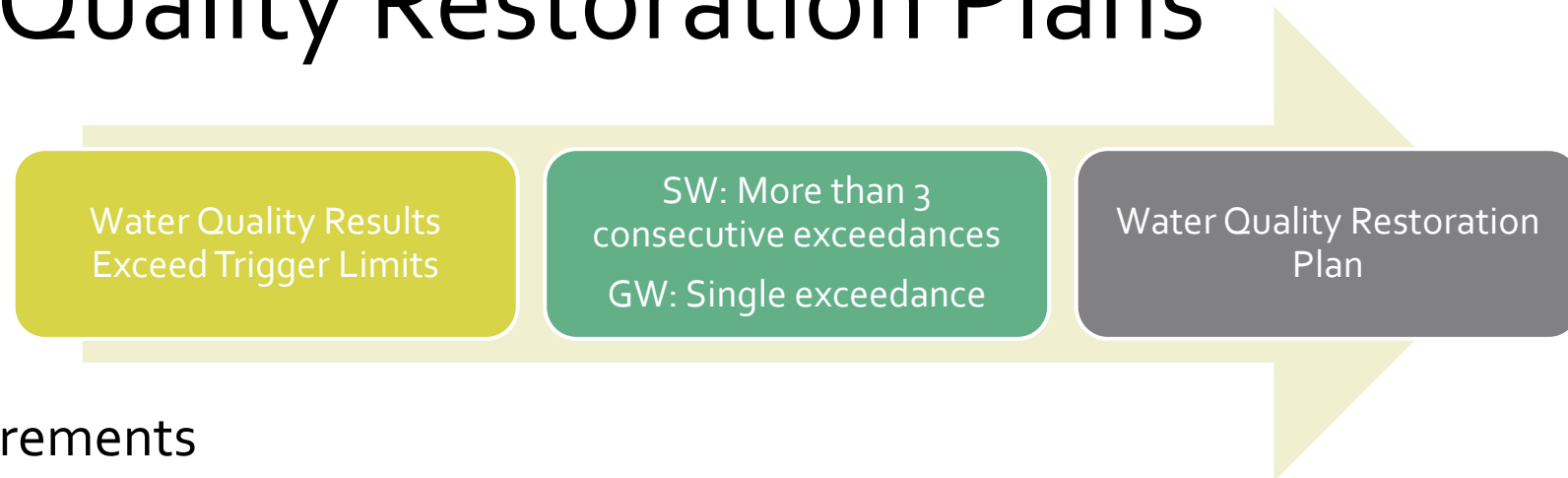
204 total samples
8 pesticide samples



Long term tracking began 2023

Assessed quarterly

Water Quality Restoration Plans



WQRP Requirements

- Water quality results over time and trend analysis
- Description of actual or suspected sources
- For sources that are agriculture, identify management practices current implemented and practices that could be implemented/improved
- Schedule for implementation
- Monitoring and Reporting Plan
- Must be approved by the Executive Officer

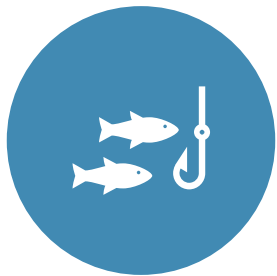
Fish Tissue Monitoring



New requirement to sample high level trophic fish for legacy contaminants (annually each fall)



California Fish and Wildlife Sampling Permit approved in June.



Plan to complete fish sampling late 2023



Continue to discuss value with Regional Water Board

Groundwater Monitoring Program Plan

Purpose

- Regional impact of agricultural on groundwater conditions
- Long-term trends in groundwater quality

Groundwater Monitoring Workplan

- Submitted December of 2022
- Extension of Program approved
- Monitoring to begin in fall of 2024

Well Network

- Working with Regional Board on finalizing available sample locations
- Information sharing with existing programs where possible



QUESTIONS?
