2025 IVILC GROWER MEETINGS

IVILC@icfb.net
www.icfb.net/IVILC





- 2024 Reporting Status
- 2025 Deadline Reminders
- Updates & Advocacy Efforts
 Groundwater Monitoring Requirements
 Crop Coefficients
- Reporting Portal Updates & Tools
- State Water Resources Control Board Expert Panel

UPDATES & ADVOCACY EFFORTS

2024 & 2025 Reporting Status

- 2025 89% Surveys Completed
- IVILC received Notice of Violation (NOV) for 2024 reporting
 - Members who did not complete reporting
 - Failure to submit on-farm drinking well testing
 - Deviations in INMP data for carrots & sudan hay (only crops with coefficients)

UPDATES & ADVOCACY EFFORTS

2025 Reporting Deadline

- Farm Plan & INMP Summary Reports due January 31, 2026 for crops harvested in 2025
- INMP Worksheet for 2026 crops to be kept on farm
- Complete any missing reports for previous years

UPDATES & ADVOCACY EFFORTS

Groundwater Monitoring

- Precedential Requirement from San Joaquin General Order
- Challenges with coming up with well network acceptable for State Water Board
 - No direction on what they expect
 - No economic considerations
- February 2025 Submitted exemption request
- May 2025 Exemption denied
- Next step explore redesignation/change beneficial uses

UPDATES & ADVOCACY EFFORTS

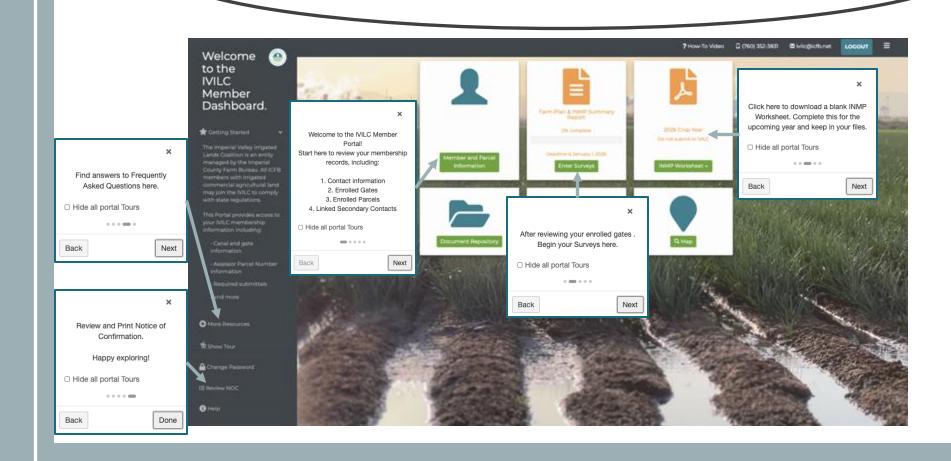
Crop Coefficients

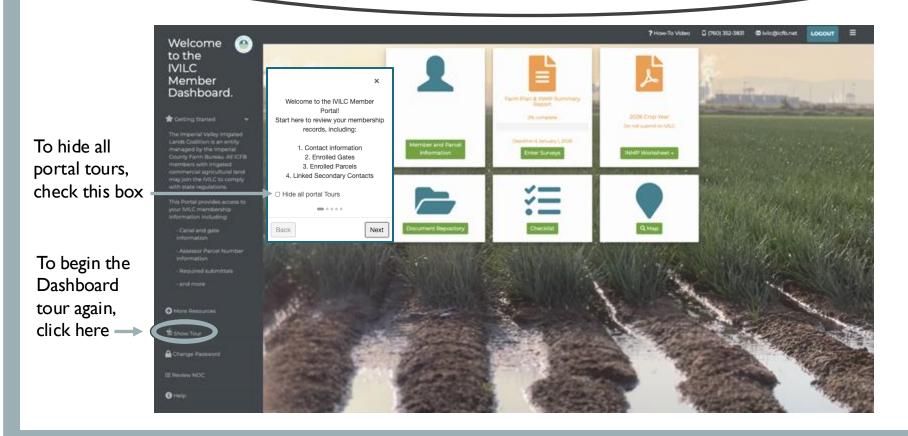
- Originally, 95% of crops needed coefficients by 2024 and 99% by 2025
- Received extension to 2029 and 2030
- Currently have coefficients for Sudan Hay and Carrots
- Dr. Montazar received grant to work on additional crops
- Need desert specific coefficients

UPDATES & ADVOCACY EFFORTS

Advocacy Efforts

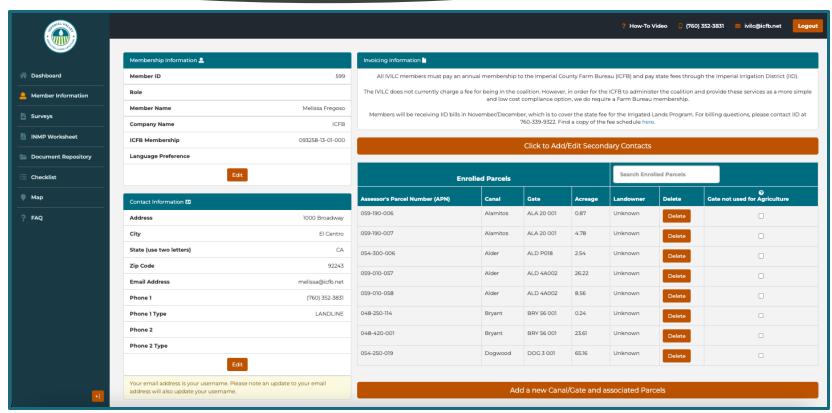
- IVILC committee
- Quarterly meetings with Regional Board
- Invite Regional Board members on ICFB annual ag tour
- Attend Regional Board meetings and tours, provide public comment
- One-on-one meetings with board members
- Submit comments during public comment periods
- Work with California Farm Bureau legal team





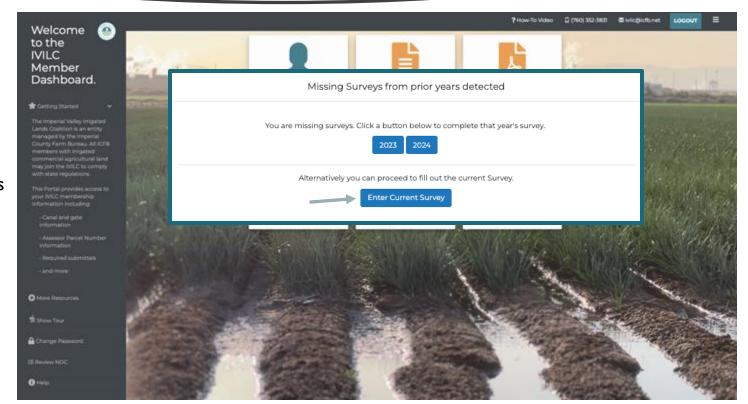
Step #1

- -Review your Member & Parcel info & update all details you need to stay informed on any changes.
- Tip: finalize your enrollment on the Member and Parcel Information page before starting your surveys.

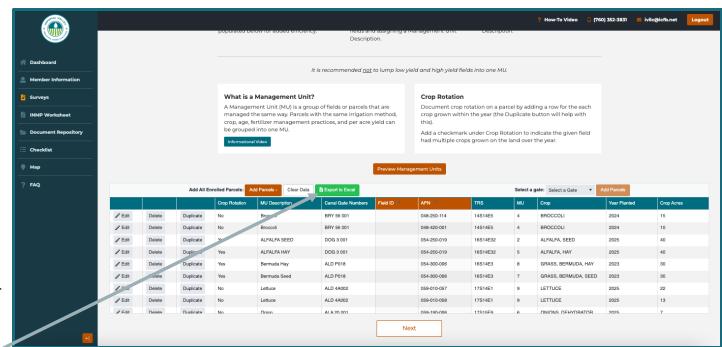


Step #2

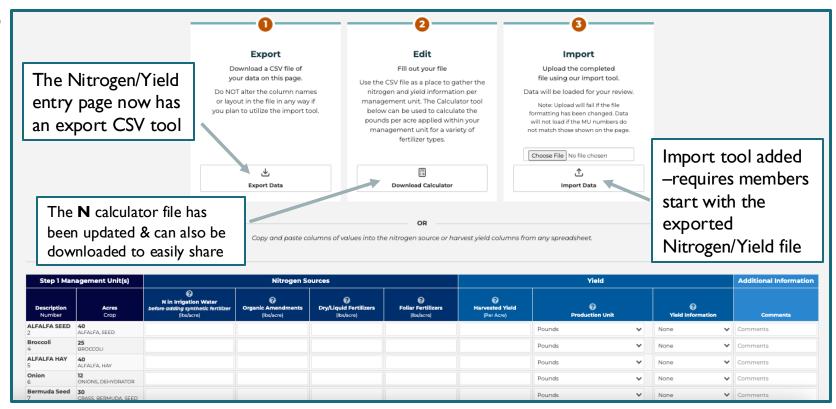
- -Enter Current Survey. A message will remind you if your company hasn't yet turned in the Survey Reports for the past years (2023 & 2024).
- -Create a list of all the items required to complete the reporting for 2025.
- -Begin your survey report (Farm Plan & INMP).
- -Most recent parcel information is available in the map module.
- -Contact the FB office for any technical issues.



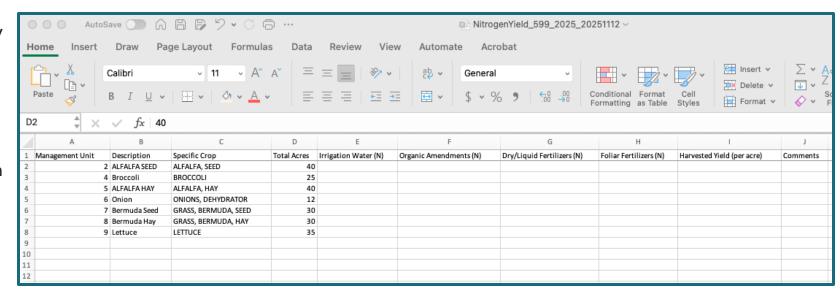
- Click here to add all your enrolled parcels to the parcel table below.
- Tip: finalize your enrollment on the Member and Parcel Information page before starting your surveys.
- After adding your parcels, add a Management Unit Description (MU), Crop, Crop Age, and Acreage information. All parcels with the same management practices can be grouped into one MU.
- Click Edit to enter information for each parcel. Click Update to save your edits.
- Click Duplicate to add another record for a specific parcel. This will add an additional record for one parcel rather than all parcels under a gate.
- This Management Unit Assignment page can now be exported as a CSV of file



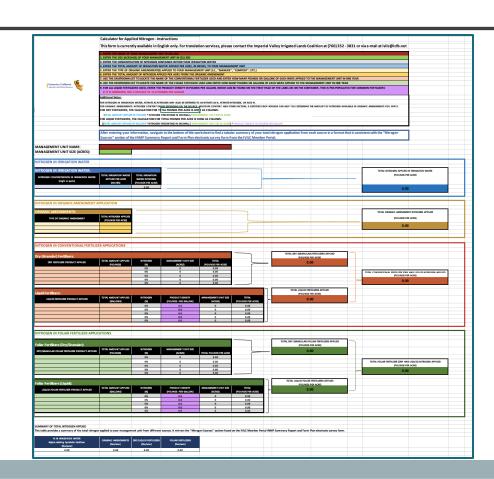
- Management Crop & Acre Details will now be displayed throughout the survey and not hidden.
- Your MUs from the previous page are listed under Step I Management Unit(s). To edit an MU, click the back button.
- Copy/Paste functionality for nitrogen & yield values is now available.



- Nitrogen & Yield information page can now be exported as a CSV file of your data (Example Shown)
- Do NOT alter the column names or layout in the file in any way if you plan to utilize the import tool.
- Enter pounds of Nitrogen applied per acre for each source & crop yield per acre for each of the management units.

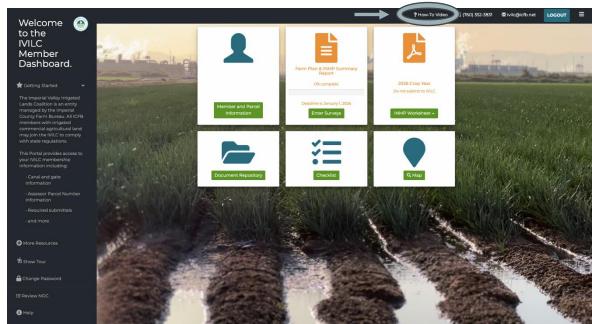


- Nitrogen Calculation Tool has been updated with categories simplified
- Use the CSV file as a place to gather the nitrogen and yield information per management unit. The Calculator tool below can be used to calculate the pounds per acre applied within your management unit for a variety of fertilizer types.





- A new Step-by-step video on how to complete your Farm Plan & INMP Summary Reports will be updated and added to the member portal below for members to review all the new portal updates
- IVILC Coalition Members will get an email when this feature is available to use



HOW TO STAY INFORMED AND INVOLVED

- Subscribe to RWQCB email updates
 https://public.govdelivery.com/accounts/CAWRCB/s
 ubscriber/new?qsp=colorado_river
- Watch RWQCB Meetings
 https://www.waterboards.ca.gov/coloradoriver/boardinfo/agenda/
- Make sure you're subscribed to ICFB's email newsletter
- Participate on ICFB's IVILC Committee
- Apply For a RWQCB Appointment

Irrigated Lands Regulatory Measure

Regulatory Measure =

Applied Nitrogen (A) – Removed Nitrogen (R)



- N from fertilizer
- N from compost
- N from organic amendment/fertilizer
- N from irrigation water

- N removed at harvest
- N removed through sequestration in woody materials
- N removed by cover crops
- N removed through quantifiable treatment method such as biochar

N removed at harvest= Crop yield × Crop coefficient

N-removal crop coefficient values are under development for the desert region.

Commodity	# Fields sampled	mean N- Coeff.	min N- Coeff.	max N- Coeff.	mean % solids	min % solids	max % solids	mean %N	min %N	max %N
Alfalfa hay	12	0.033293	0.01780	0.04520	-	-	-	3.33	1.78	4.52
Bermuda grass hay	5	0.018361	0.01220	0.0240	-	-	-	1.84	1.22	2.40
Bell pepper (Red)	6	0.001919	0.001710	0.002075	8.15	4.91	9.54	2.42	2.03	3.48
Bell pepper (Green)	5	0.002105	0.001982	0.002382	6.77	5.92	7.34	3.13	2.85	3.66
Broccoli	9	0.005405	0.003749	0.007342	10.15	8.96	11.42	5.31	3.72	6.73
Cauliflower	10	0.002180	0.001591	0.002609	6.59	4.99	8.54	3.35	2.44	4.49
Dehydrator onion	5	0.002555	0.002253	0.002884	22.93	20.61	26.21	1.12	0.98	1.29
Klein grass hay	8	0.022197	0.01120	0.03360	-	-	-	2.22	1.12	3.36
Romaine lettuce	19	0.001851	0.001062	0.002774	5.54	3.32	8.48	3.42	2.16	4.02
Head lettuce	20	0.001384	0.001043	0.002093	4.35	2.66	5.63	3.18	2.88	3.71
Green leaf lettuce	11	0.002219	0.001494	0.003382	6.30	4.18	9.11	3.61	2.71	4.18
Wheat - seeds	4	0.029573	0.02740	0.0310	-	-	-	2.95	2.74	3.10
Wheat - straw	4	0.012973	0.00860	0.01780	-	-	-	1.29	0.86	1.78

Lemons, Dates, and Cotton are included.

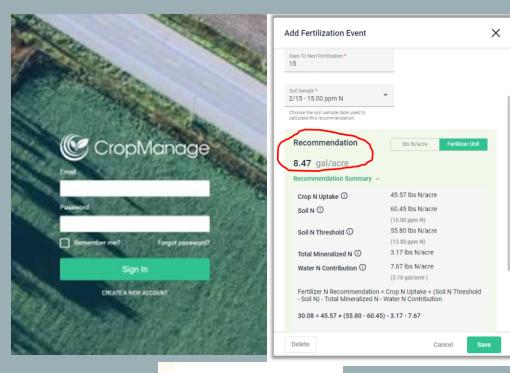
Examples of N removal values for desert crops

R= Crop N-removal coefficient × Yield (lbs/ac)

Crop	N-removal coefficient	Yield (lbs/ac)	R (lbs N/ac)
Alfalfa	0.033293	22,000	731
Kleingrass	0.022197	18,000	400
Bermudagrass	0.018361	17,000	312
Romaine lettuce	0.001851	55,000	102

Additionally, we develop crop coefficient values for P and K.

Site specific recommendations need using other tools:



CropManage Irrigation and Nitrogen Decision Tool

Data inputs of weather, ET, satellite imagery, soil physical and chemical properties, irrigation efficiency to generate accurate and timely irrigation and fertilization recommendations based on <u>crop-specific models</u>.



<u> https://cropmanage.ucanr.edu/</u>

N and Water applications: Grower standard vs. recommended

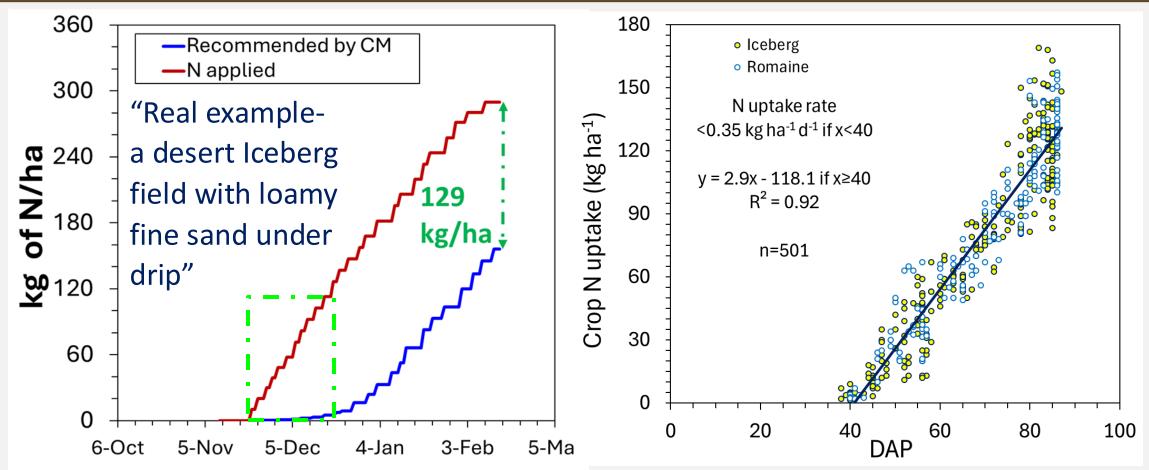
Two lettuce trial fields under drip irrigation in desert

Trial	Grower standard	Applied water or	Applied N or
field	(GS) or CM	recommended (in)	recommended (lbs/ac)
1	GS	21.8	258 Loamy fine
	CM	11.0 Iceberg	143 sand
2	GS	10.4 Iceberg	120
	CM	9.1	107 Silty loam

- In loamy fine sand field: Grower applied 100% more water and 80% more nitrogen than recommended.
- In silty clay loam field: Grower applied 14% more water and 13% more nitrogen than recommended.
 CropManage (CM) decision support tool was used.



Example: Desert Lettuce crop N uptake



35 irrigation events28 N application events

Gradually increases after thinning with an average rate of 2.9 kg ha⁻¹ d⁻¹ (varying from 2.1 to 3.7 kg ha⁻¹ d⁻¹)

State Water Control Board Standard

Nitrogen discharge = A – R = 50 lbs/ac
To protect groundwater quality
(US limit of 10 mg/L nitrate-N in drinking water)

Do we need a limit for A-R? what will be?

The Water Control Board has established an Agricultural Expert Panel to work on the issue and provide recommendations for improving the ILRP.



What to expect on this topic?

Nitrogen discharge = A – R