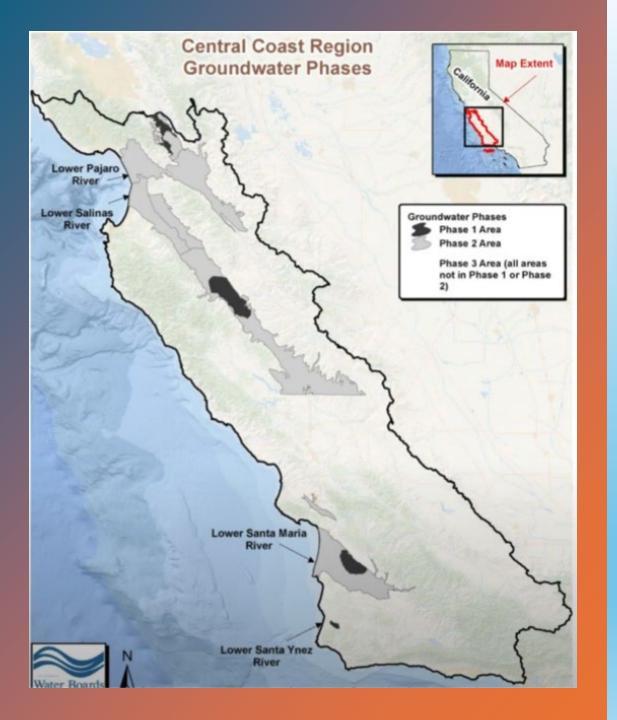


Overview

- Introduction and background
- "Phase 1" reporting areas
- N Discharge Targets (Applied Removed)
- 2023 INMP results Nursery ranch summary
- Aperspective of future INMP reporting—Phase 2 and beyond
- Questions







Groundwater Phase 1 Areas

Phase 1 areas exhibit high recharge rates based on the occurrence of vulnerable soils and contain young groundwater of less than 20 yrs. (Also have close proximity to major recharge sources, which influences age.)

Phase 1 = Portions of Central Coast GW Basins:

- Llagas subbasin Gilroy-Hollister Valley Basin
- Forebay and Upper Valley Basin SV Basin
- Santa Maria River Valley Subbasin
- Santa Ynez River Valley Basin

Phase-In of Other GW Basins/Areas:

- Phase 2 Areas Report INMP beginning 2025
- Phase 3 Areas Report INMP beginning 2027



INMP Reporting for Preservation, Inc. Members

- More than 95% of Central Coast growers are Preservation, Inc. members
 - The other ~5% are <u>not</u> actively complying as individuals
- Phone, Zoom, and in-person support sessions to complete your report
- Fall workshops in Salinas and Santa Maria
 - Updates and tutorials on TNA and INMP reporting
 - Updates on surface water and well sampling programs
- January/February workshops held jointly with Water Board staff
- Web-based "EZForms" for both TNA and INMP
 - For ranches with only one or a few crops
- Excel-based form can interface with your database, and allows cut-andpaste of data for large numbers of crops and ranches on a single report
 - For next year's report, just open up last year's spreadsheet and update what has changed

Targets – Total Nitrogen Applied



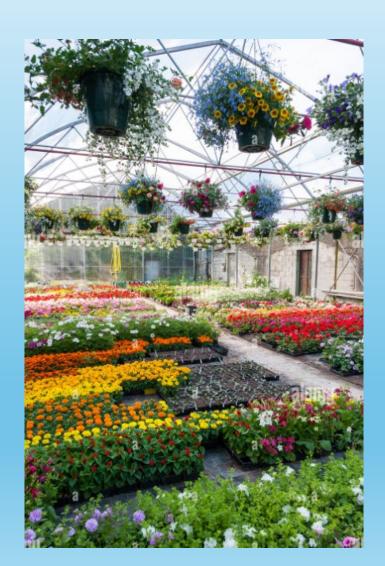


Table C.2-1. Compliance Dates for Fertilizer Nitrogen Application Targets (Alternative Compliance Pathway)

Crop	90th Percentile	Compliance	85th Percentile	Compliance
Crop	Afer =	Date	AFER =	Date
Broccoli	295		280	
Cauliflower	310		285	
Celery	360		330	
Lettuce	275	12/31/2024	255	12/31/2026
Spinach	245		230	
Strawberry	320		295	
All Other Crops	500		480	

- State Water Board "Remand" of Ag Order 4.0 removes "Limits" (i.e. maximally enforceable numbers) until an Expert Panel can be convened, but "Targets" remain of-interest for education and management.
- <u>All Central Coast ranches</u> are now reporting at least TNA (and some INMP)

Targets for INMP Reports ("A-R")





Table C.2-2. Compliance Dates for Nitrogen Discharge Targets (Alternative Compliance Pathway)

	Target	Compliance Date
Compliance Pathway 1	500	12/31/2024
A_{FER} + (C x A_{COMP}) + (O x A_{ORG}) + A_{IRR} - R =	400	12/31/2026
	300	12/31/2028

Afer = Pounds of N applied in synthetic fertilizers

Airr = Pounds of N applied in irrigation water

C x Acomp = Adjusted (reduced) pounds of N applied in composts

O x Aorg = Adjusted (reduced) pounds of N applied in organic fertilizers

R = Pounds of N removed via all pathways (mainly at harvest/sale)

- State Water Board "Remand" of Ag Order 4.0 removes "Limits" (i.e. maximally enforceable numbers) until an Expert Panel can be convened, but "Targets" remain of-interest for education and management.
- Preservation, Inc. contacts all growers with reports over 400 and 500, and will begin reaching out to growers with reports over 300.

Multiple "Compliance Pathways" in Ag Order 4.0



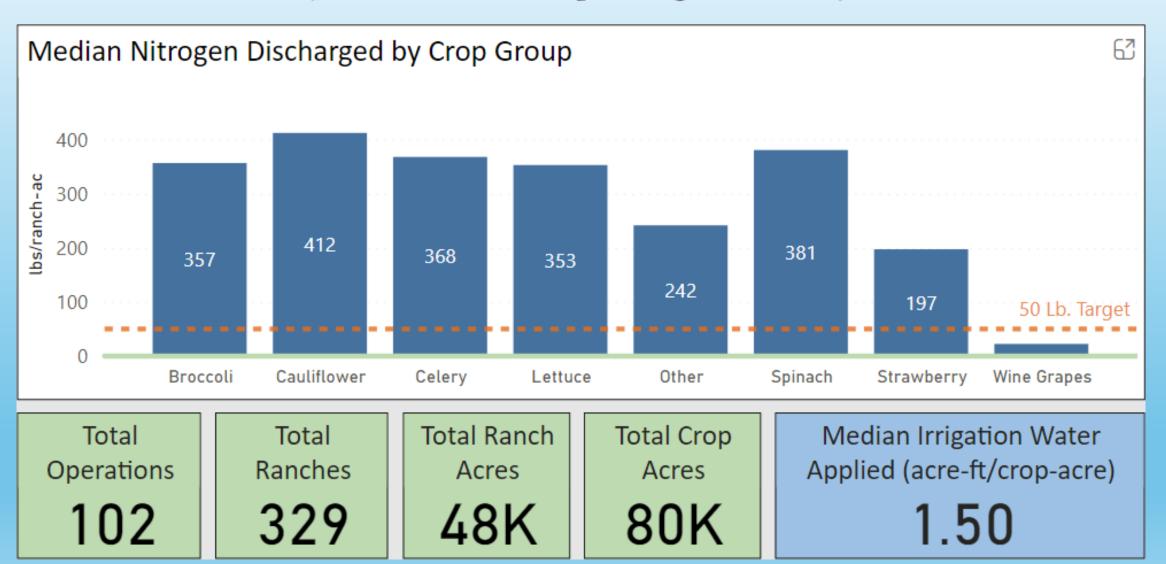


3P-ACP: 2024 Targets	Compliance Pathway	Individual: 2023 Targets
	A-R=N Discharge	
500	(A includes A _{IRR})	500
	A = R	
A=R	(A does not include A _{IRR})	A=R
	A-R=N Discharge	
300	(A does not include A _{IRR})	300

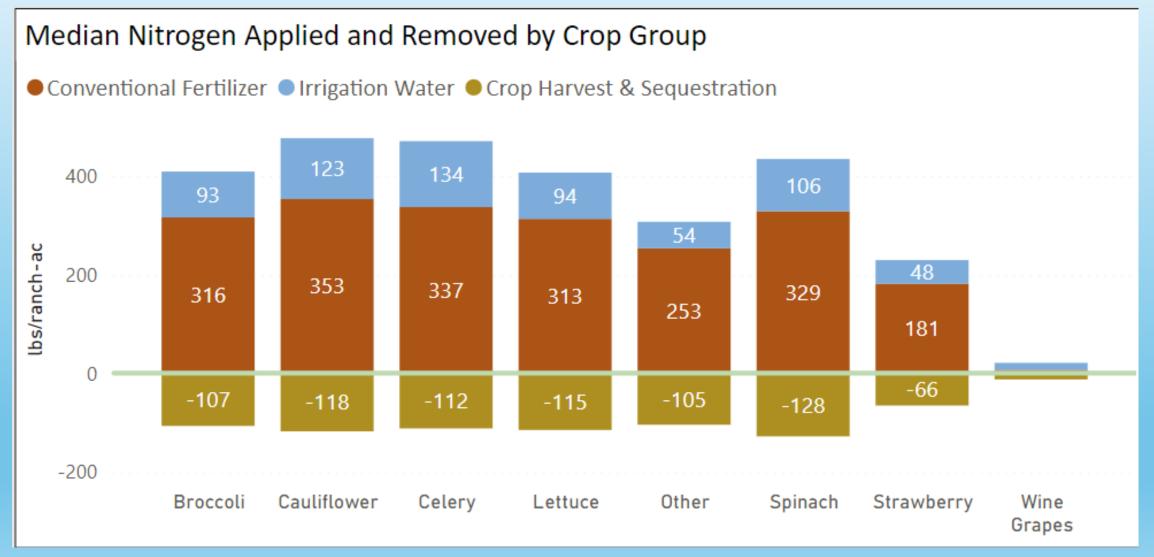
• State Water Board "Remand" of Ag Order 4.0 removes 2nd and 3rd pathways until an Expert Panel can be convened, but alternatives remain of-interest for management and discussion.

2023 INMP SUMMARY FOR ALL CROPS

(Phase 1 Area Reporting Ranches)



2023 INMP SUMMARY FOR ALL CROPS (Phase 1 Area Reporting Ranches)

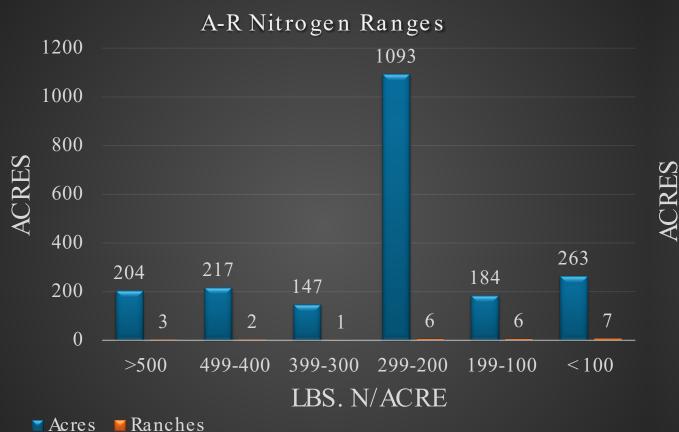


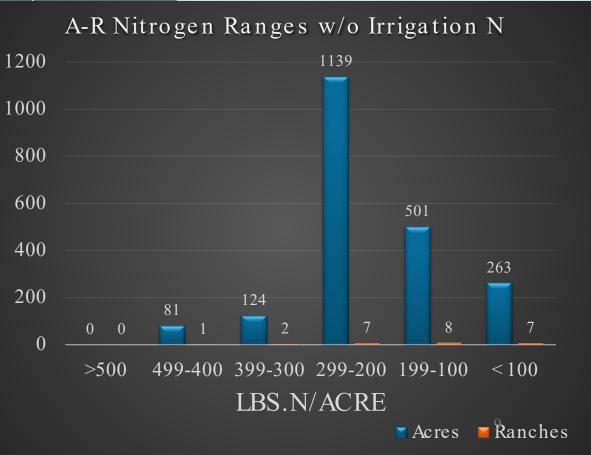
2023 INMP SUMMARY FOR NURSERY-CROP RANCHES

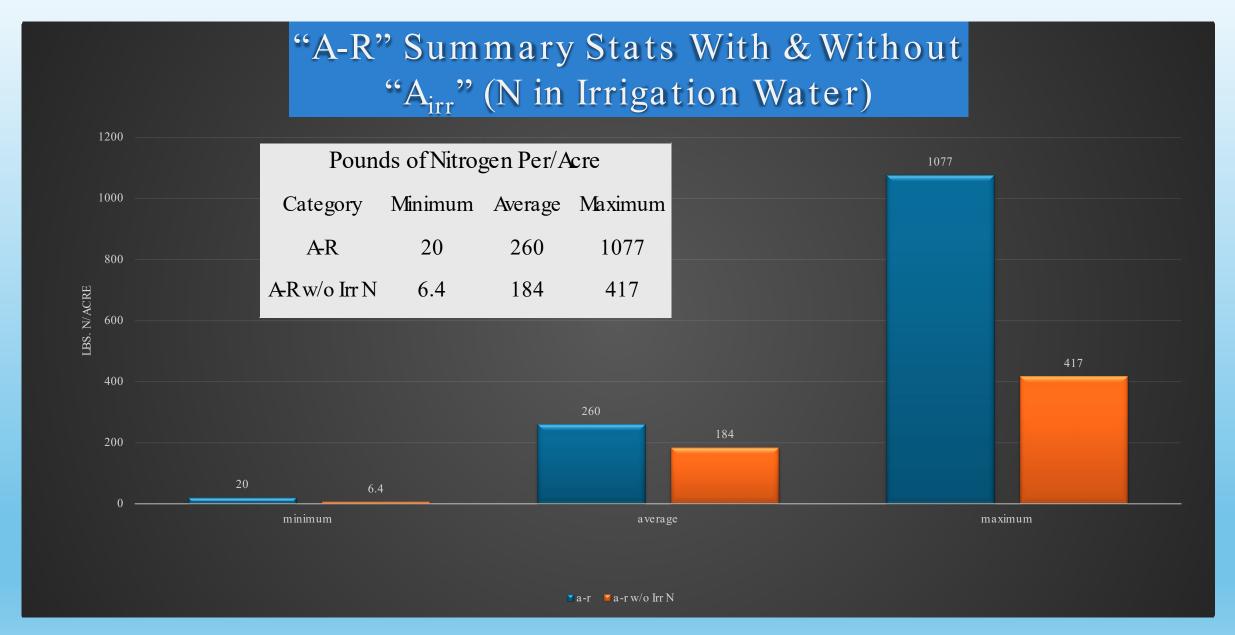
A-R Nitrogen Ranges				
Lbs. N/Acre	Lbs. N/Acre Acres Ranche			
>500 204 3				
499-400	217	2		
399-300	147	1		
299-200	1093	6		
199-100	184	6		
< 100	263	7		
2108 25				

A-R Nitrogen Ranges w/o Irrigation N				
Lbs. N/Acre	Acres	Ranches		
>500	0	0		
499-400	81	1		
399-300	124	2		
299-200	1139	7		
199-100	501	8		
< 100	263	7		
	2108	25		

Difference w/o Irrigation N				
Acres	Ranches			
-204	-3			
-136	-1			
-23	1			
46	1			
317	2			
0	0			
	Acres -204 -136 -23 46			







A-R = Afer + Acomp_adj + Aorg_adj + Airr - Rharv - Rseq - Rtreat - Rother (Rscavenge not currently calculated)

Perspectives on Future INMP Reporting

- CCWQP continues to engage, educate and provide tools and workshops for our membership to improve INMP reporting.
- CCWQP routinely interacts with the RWQCB to share knowledge, learnings and ideas to improve the content and instructions for the INMP process and forms.



2023 INMP		
Phase 1		
#Ranches Crop Acres		
25	4054	

Future INMP			
Phase 2 &3			
#Ranches	Crop Acres		
239	30322		

Future % Increase		
#Ranches	Crop Acres	
89.5%	86.6%	

Overall 2023 INMP reporting accuracy has room for improvement

Nitrogen Discharge to Groundwater Targets				
Compliance Pathway	3P-ACP; 2026 Targets	3P-ACP; 2028 Targets	3P-ACP; 2051 Targets	
A-R = N Discharge (A includes A _{irr})	400	300	Groundwater	
A = R (A does not include A _{irr})	A = R	A = R	Protection Area Targets (To be developed by	
A-R = N Discharge (A does not include A _{irr})	300	200	3P-ACP, approved by RWQCB EO)	





We look forward to hearing from you support@ccwqp.org
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Ryann DiBasilio, Sarah Lopez and Dennis Lebow



Groundwater Phase Areas

- Phase 1 Areas
 - Portions of:
 - Llagas Subbasin of Gilroy-Hollister Valley Basin
 - Forebay and Upper Valley Subbasin
 - Santa Maria River Valley Subbasin
 - Santa Ynez River Valley Basin
- Phase 2 Areas
 - Basins/Subbasins in Phase 1 Areas (different portions)
 - Corralitos Pajaro Valley Subbasin
 - Salinas Valley 180/400 Foot Aquifer Subbasin
 - Salinas Valley East Side Aquifer Subbasin
 - San Luis Obispo Valley Basin
- Phase 3 Areas
 - Remaining non-shaded areas