

MEMBER COMPLIANCE ASSISTANCE WORKSHOP

Kings River Water Quality Coalition Easton January 9, 2020

TODAY'S AGENDA



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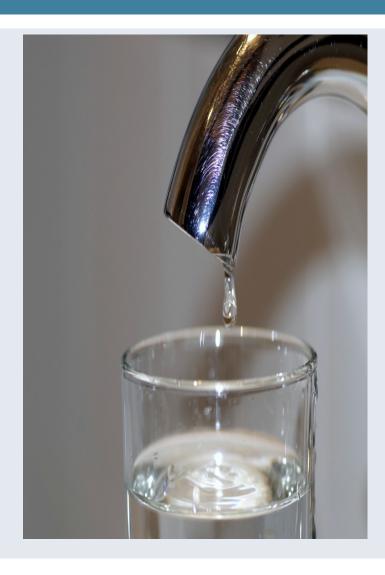


CHANGES TO THE GENERAL ORDER



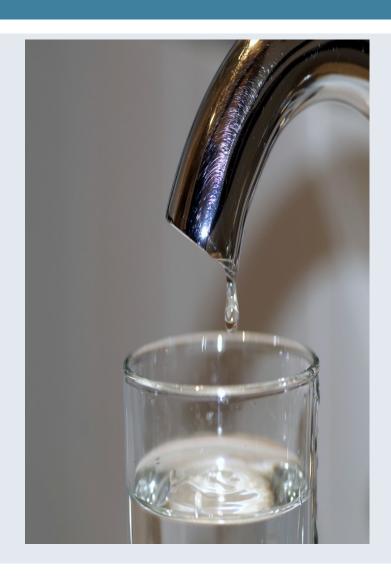
- ALL members must participate in an outreach event annually
- Nitrogen Management Plans and Summary Reports will now include Irrigation and Nitrogen Management Questions (now called the INMP)
 - All Growers Report Irrigation and Nitrogen Summary Data in 2021
 - Growers in low vulnerability areas <u>may</u> be required to have INMPs certified
- Farm Evaluation requirement reduced to every Five years

DRINKING WATER SUPPLY WELL MONITORING



- Any Well used for Human Consumption is subject to this requirement
- Testing for Nitrate + Nitrite-N levels only
- Must be Analyzed by Certified Laboratory
 - List of local labs mailed to all members
- Results reported by lab to State Water Resources Control Board's GeoTracker database
 - Reporting costs part of Lab Fee

DRINKING WATER SUPPLY WELL MONITORING



- Frequency of Testing
 - 0-8 ppm: Test every year for 3 years, then once every 5
 - 8-10 ppm: Test every year
 - > 10 ppm: No further testing, well cannot be used for Human Consumption
 - Users must be notified
 - Replacement Water may be necessary
- Supply wells must be sampled by end of 2020
- Data upload is slow process
- We Recommend early testing
- Not a Coalition Program

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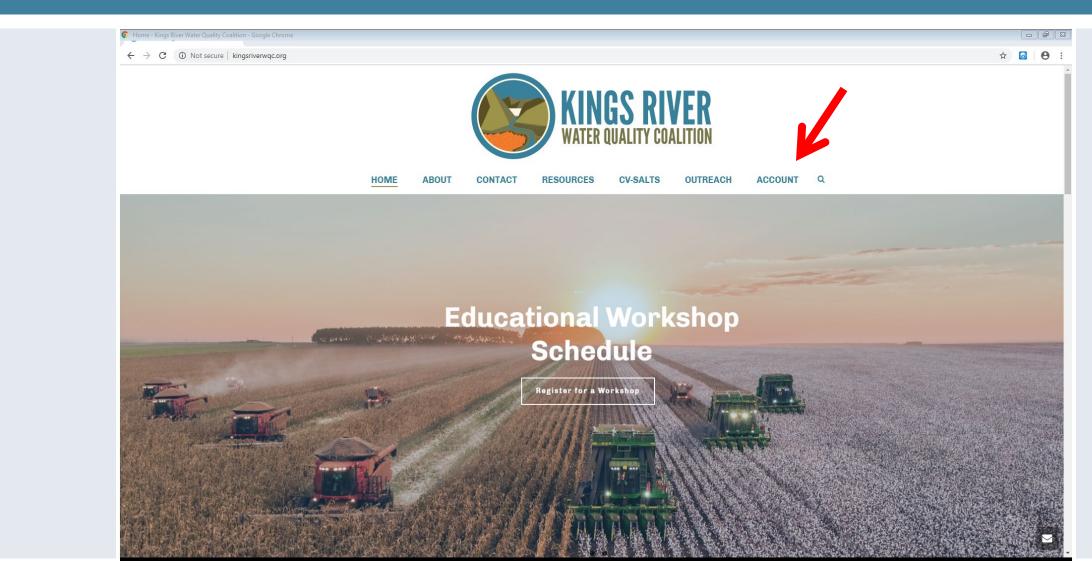
DUE DATES



■ Due to Coalition by March 1, 2020

- Nitrogen Summary Reports (old template)
 - For Harvests Completed in 2019
- Farm Evaluation Surveys (HV Parcels)
- Online Reporting is Preferred
 - Paper copies accepted
- Grower by March 1, 2020
 - Completion of Irrigation and Nitrogen Management Plans (new template)
 - High Vulnerability Parcels require Certification
 - Current Self-Certifications Valid

REPORTING ONLINE kingsriverwqc.org



ONLINE REPORTING



Click on Account to Login

- Select Report to Complete
 - Input Data and Save
- Need Help or New Password?
 - Contact Us at (559) 365-7958
 - We can walk you through process
 - Office Visits Are Available
 - Please Schedule in Advance

Current Account Status Available

- Contact Info
- Parcels/Acreage Enrolled
- Payment Status



- Nitrogen Summary Reports
 - Missing Crops, Crop Year,APNs, Member ID, ProductionUnits
 - Reporting Gross Yield rather than Yield/Acre
 - Reporting Gross N Applied rather than N/ac
 - Incorrect Calculation of A/Y (Applied N/ac divided by Yield/ac)



- Farm Evaluation Surveys
 - Not Listing Member ID or Name on Pages
 - Not Listing CurrentCrops/APNs on Part C (check against Invoice)
 - Please Double-checkCCA/Third party SubmissionInformation



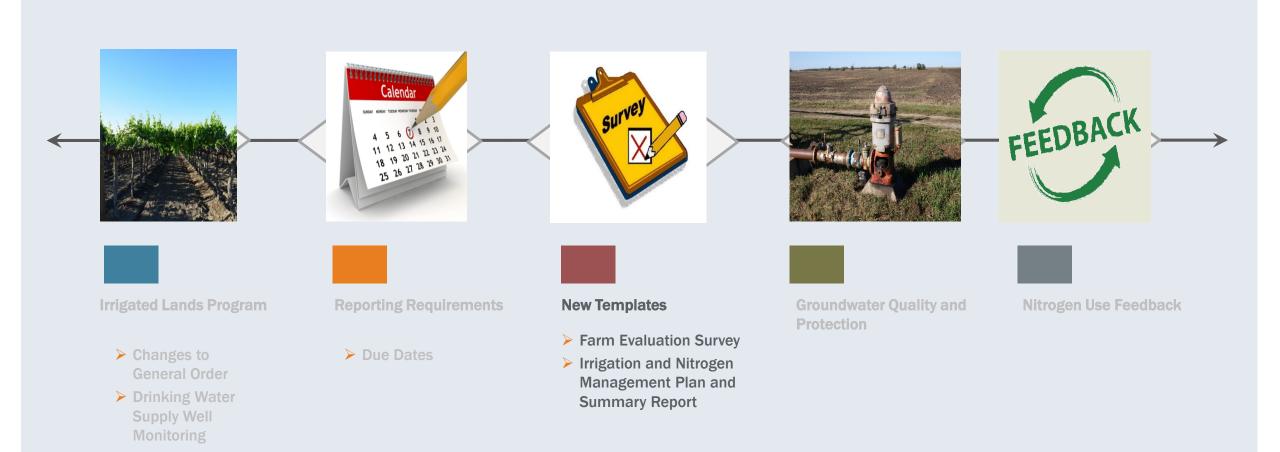
- ■Part B: Wells
 - Confusion over Active,Inactive, and Destroyed
 - Active: Well In Use
 - Inactive: Well not used, but could be
 - Abandoned/Destroyed: Well cannot be used
 - Need to Hire Professional to Properly Destroy Well



Payments

- Multiple Payments on Same Account
- Unsigned Checks
- Incomplete Checks
- Incorrect Amounts
- If in doubt, Please Call
- Overpayments to be processed after March 1, 2020
 - Duplicate Credit Card payments will be processed immediately

TODAY'S AGENDA



TEMPLATE CHANGES

NITRO	GEN MAN	AGEMENT PLAN WO	RKSHEET			Vitrogen	Manager	nent Plan	Summary Re	eport	
THI I CO	OLIV IIIAW	AOLIIIZINI I ZAN IVO	TOTAL T		Crop Harvested Year (1)		2018		Submittal Date	:	03/01/18
Crop Year, (Harvested)	2018	4. APN(s):	5. Field	* / *	Member ID (2):	1	9405		Member Name	(3):	John Smith
	20.22	012-013-024, 012-013-025	North Block,	South Block							
2. Member ID# 3. Name:	9405				Site Location Informa	tion ¹	Crop (6)	Total Acres (10)	Total Available N Applied (20+23)	A/Y Total Available N (20+23)/Actu al Yield (11) ²	Production Un (7)
John Smit			26. Recommended/	27. Actual	APN (4);	Field ID					
CROP NITROGEN MANAGEN	MENT PLANNING	N APPLICATIONS/CREDITS	Planned N	N N		(5) North		0 1			ř
6. Crop:	Grapes	15. Nitrogen Fertilizers			012-013-024, 012-013-	237000000	C		20.00	0.00	-
7. Production Unit:	Tons	16. Dry & Liquid N (lbs/ac)	15	15	025	South	Grapes	60	20.00	8.00	Tons
8. Projected Yield (Units/Acre):	2.00	17. Foliar N fertilizers (lbs/ac)				Block					
9. N Recommended (lbs/ac):	20	18. Organic Material N			2 0	0	0	0	0.00	#DIV/0!	0
10. Acres:	60	19. Available N in Manure/Compost								in in	
Post Production A	Actuals	(lbs/ac estimate)				138	200	32	0.000000		22
11. Actual Yield (Units/Acre):	2.50	20. Total Available N Applied (lbs per acre)	15	15	3 0	0	0	0	0.00	#DIV/0!	0
12. Total N Applied (lbs/ac):	20	21. Nitrogen Credits (est)									
13. ** N Removed (lbs N/ac):		22. Available N carryover in soil			4 0	0	0	0	0.00	#DIV/0!	0
A/Y Ratio (lbs N/unit/ac): 14. Notes:	8.00	(annualized, lbs/ac) 23. N in Irrigation water (annualized, lbs/ac)	5	5	5 0	0	0	0	0.00	#DIV/0!	0
		24. Total N Credits (lbs per acre)	5	5	3 0	U		·	0.00	#DIV/O:	
		25. Total N Applied & Available	20	20	6 0	0	0	0	0.00	#DIV/0!	0
	F	PLAN CERTIFICATION									
28. CERTIFIED	BY:	29. CERTIFICATION	METHOD	Х	7 0	0	0	0	0	#DIV/0!	0
		30. Low Vulnerability Area, No Certifi	ication Needed		- 10	Tin .		1.171	1711	2000 89.5	- 31
John Smih		31. Self-Certified, approved training	5,000,00	Х		10				WD 11 (0)	
DATE:		32. Self-Certified, UC or NRCS site r			8 0	0	0	0	0	#DIV/0!	0
11/7/2017		33. Nitrogen Management Plan Spe	cialist								_

Section 1 – Whole	Farm Evaluation	Section	2 - Irr	igatio	n Well and	d Abando	ned \	Well
Member Name: Coalition Me	mber ID#:			ln	formation			
 Pesticide Application Practices: (Check all that 	t apply)							
□ County Permit Followed		Member Name:				n Member ID#:		
□ Follow Label Restrictions	☐ Use Appropriate Buffer Zones				for each irrigation well s that apply to the inc			
 Sensitive Areas Mapped 	☐ Use Vegetated Drain Ditches				n map using the uniqu		ne location (oi your wells
☐ Attend Trainings	Monitor Rain Forecasts				ı have no irrigati		r parcelle	-1
 End of Row Shutoff When Spraying 	Use PCA Recommendations	Ц	CHECK UIIS	The state of the s			i parceits	7.
 Avoid Surface Water When Spraying 	L Chemigation	2000000000			Wellhead Protec	tion Practices		
 Reapply Rinsate to Treated Field 	L No Pesticides Applied	Well ID	Ground	Standing		Air Gap	Backflow	
 Target Sensing Sprayer used 		(A unique name	Sloped Away	water avoided	Good Housekeeping	(for non-	Preventive	Cement
L Use Drift Control Agents	☐ Other	of your choice)	from	around	Practices*	pressurized systems)	/ Check Valve	Pad
2. Who assists with the development of your irr	igation and crop fertility plan? (Check all that apply)		Wellhead	wellhead				
Certified Crop Adviser (CCA)	☐ Certified Professional Agronomist (CPAg)							
Pest Control Adviser (PCA)	Lindependently Prepared by Member Lindependently Prepared by Member					8		
 □ NRCS Technical Service Provider (TSP) □ Certified Professional Soil Scientist (CPSS) 	Certified Agricultural Irrigation Specialist							
Certified Professional Soil Scientist (CPSS)	Other							
3. Does your farm have the potential to discharg				-				
Circle One: Yes No	ge sediment to on-rarm surface waters?							
	rement of a Sediment and Erosion Control Plan for your	8				, ,		
	trol measures prevent sediment discharge, you should			 				
contact your Coalition to determine if you need a S	ediment and Erosion Control Plan.							
		*Good housekeeping practices in	nclude keeping the a	area surrounding t	he wellhead clean of trash, de	bris and any empty contain	ers.	
4. Information on your on-farm drinking water su		Consider to the						
Indicate the number of active drinking water suppl		Comments:						
will need to complete Section 2.	s only. If you have any abandoned or irrigation wells, you							
Check this box if you have no active drinking to	water wells on your property.	2 Abandonad M	Jelle: Create a	unique Well I	D for each abandoned	Lwall Mark the loca	tion of you	r walls on the
Enrolled Parcel (APN)	# of Drinking Water Wells				ap using the unique W			
		•			iown; approximation i		•	
		with an "X" und						
			□ Chec	k this box	if you have no ab	andoned wells	on vour	parcel(s)
		Well ID			•	Well Practices	· , · ,	
		(A unique name	of If abou	ndoned, year	Destroyed -	Destroyed by	Dos	stroyed -
I certify under penalty of law that this document and all attachments were pr		your choice)		andoned	certified by county	licensed professional		wn method
designed to assure that qualified personnel or represented Members properly of the person or persons who manage the system, or those persons directly re						protessional		
to the best of my knowledge and belief, true, accurate, and complete. I am a						i i		
information, including the possibility of fine and imprisonment for violations.								
Printed Name Date	Signature	Comments:	8/3/2		7/2	2.5		
Farm Evaluation Template – Section 1	Page 3	Farm Evaluation Templ	late – Section 2	2			Page 4	1

Section 1 – Whole	Farm Evaluation	Section	2 - Irr	igatio	n Well and	d Aband	oned \	Nell
	mber ID#:			_	formation			
 Pesticide Application Practices: (Check all that 	t apply)	Manufacture Name of				E		
□ County Permit Followed	☐ Monitor Wind Conditions	Member Name:			or each irrigation we	on Member ID#:		
□ Follow Label Restrictions	☐ Use Appropriate Buffer Zones				s that apply to the inc			
☐ Sensitive Areas Mapped	☐ Use Vegetated Drain Ditches				n map using the uniqu		t die locadon t	n your wen
□ Attend Trainings	☐ Monitor Rain Forecasts			_	have no irrigati		ur parcells	1
 End of Row Shutoff When Spraying 	Use PCA Recommendations		Circuit till.	The state of the s		Commission of the Commission o	The same of the sa	<i>r</i> •
 Avoid Surface Water When Spraying 	L Chemigation	1200000000			Wellhead Protec	tion Practices		
 Reapply Rinsate to Treated Field 	L No Pesticides Applied	Well ID	Ground	Standing		Air Gap	Backflow	
□ Target Sensing Sprayer used		(A unique name	Sloped Away	water avoided	Good Housekeeping	(for non-	Preventive	Cement
L Use Drift Control Agents	C Other	of your choice)	from	around wellhead	Practices*	pressurized systems)	/ Check Valve	Pad
2. Who assists with the development of your irr	igation and crop fertility plan? (Check all that apply)		Wellhead	Wellhead		40000000		
☐ Certified Crop Adviser (CCA)	☐ Certified Professional Agronomist (CPAg)							
Pest Control Adviser (PCA)	L Independently Prepared by Member			-	-			
☐ NRCS Technical Service Provider (TSP)	L UCCE Farm Advisor	100						
☐ Certified Professional Soil Scientist (CPSS)	☐ Certified Agricultural Irrigation Specialist	0.000						
	□ Other							
4. Information on your on-farm drinking water su Indicate the number of active drinking water supply of the This section is for active drinking water well will need to complete Section 2. Check this box if you have no active drinking the Enrolled Parcel (APN)	apply wells located on enrolled parcels by wells on each of your enrolled parcels. Is only. If you have any abandoned or irrigation wells, you	provided Farm	/ells: Create a Map(s) or you	unique Well I rown farm ma		d well. Mark the lo Vell ID. Indicate th	ocation of your ne year the we	ll was
		with an "X" und	ler the approp	riate practice.	8			
			☐ Chec	k this box i	f you have no al	andoned wel	ls on your p	arcel(s)
		Well ID			Abandoned	Well Practices	3	
I certify under penalty of limithat this document and all attachments were pudesigned to assure that qualified personnel or represented Members properly		(A unique name your choice)	II aba	ndoned, year pandoned	Destroyed – certified by county	Destroyed by licensed professional	Unknow	troyed - wn method
of the person or persons who manage the system, a those persons directly n to the best of my knowledge and belief, true, accurate, and complete. I am a information, including the possibility of fine and imprisonment for violations.								
Printed Name Date	Signature	Comments:						
Farm Evaluation Template – Section 1	Page 3	Farm Evaluation Templ	ate – Section 2	2			Page 4	į.

	Section 1 – Whole	Farm Evaluation		Section	2 – Irr	igatio	n Well and	Aband	oned \	Vell
Member Name: _	Coalition Mer de Application Practices: (Check all that	mber ID#:				ln:	formation			
		☐ Monitor Wind Conditions	Men	nber Name:				Member ID#:	<u> </u>	
	County Permit Followed Follow Label Restrictions	Use Appropriate Buffer Zones	1	. Irrigation Well	s: Create a un	ique Well ID fo	or each irrigation well.	For each well, fill	in the table b	elow with the
	Sensitive Areas Mapped	Use Vegetated Drain Ditches		Well ID and mar	k an "X" unde	r the practices	that apply to the indi	vidual well. Mark	the location of	of your wells or
	Attend Trainings	Monitor Rain Forecasts	_	the provided Far	rm Map(s) or y	our own farm	map using the uniqu	e Well ID.		
	End of Row Shutoff When Spraying	Use PCA Recommendations			Check this	box if you	have no irrigation	n wells on yo	ur parcel(s).
	Avoid Surface Water When Spraying	L Chemigation				1	Wellhead Protect	ion Practices		
	Reapply Rinsate to Treated Field	L No Pesticides Applied		Well ID			I			
	Target Sensing Sprayer used	L Other			Ground Sloped	Standing water	Good	Air Gap	Backflow	
	Use Drift Control Agents	C Other		(A unique name of your choice)	Away	avoided	Housekeeping	(for non- pressurized	Preventive / Check	Cement Pad
_	ose Diff Collifor Agents	L odici		. ,	from Wellhead	around wellhead	Practices*	systems)	Valve	100.000.700
2. Who as	ssists with the development of your irri	gation and crop fertility plan? (Check	I that apply)							
П	Certified Crop Adviser (CCA)	☐ Certified Professional Agronomist (PAg)							
П	Pest Control Adviser (PCA)	L Independently Prepared by Member	T .					7		
	NRCS Technical Service Provider (TSP)	L UCCE Farm Advisor						i i		
	Certified Professional Soil Scientist (CPSS)	 Certified Agricultural Irrigation Spe 	alist		8					
		☐ Other								
Note: Ai member	One: Yes No nswering "yes" above will trigger the requin rship. If Best Management Practices or cont your Coalition to determine If you need a Se	rol measures prevent sediment discharge,								
4 Informa	ation on your on-farm drinking water su	nnly wells located on enrolled parcels	*Good	housekeeping practices in	iclude keeping the a	rea surrounding th	e wellhead clean of trash, deb	ris and any empty conta	iners.	
	the number of active drinking water supply	1.7	Com	ments:						
	This section is for active drinking water wells		on wells, you							
will nee	d to complete Section 2.									
☐ Che	ck this box if you have no active drinking w		2	. Abandoned W	ells: Create a	unique Well II) for each abandoned	well. Mark the lo	ation of your	wells on the
	Enrolled Parcel (APN)	# of Drinking Water Wells		provided Farm N	Map(s) or your	own farm ma	p using the unique W	ell ID. Indicate the	e year the we	ll was
							own; approximation is	okay) and mark h	ow the well v	vas destroyed
-			Г	with an "X" unde		_				
ŀ					☐ Chec	k this box i	f you have no ab	andoned well	s on your p	arcel(s)
				Well ID			Abandoned \	Well Practices		
	flaw that this document and all attachments were pro qualified personnel or represented Members properly			(A unique name your choice)	II abai	ndoned, year andoned	Destroyed – certified by county	Destroyed by licensed professional		troyed - wn method
	quannea personner or representea members properly who manage the system, or thase persons directly re									
	edge and belief, true, accurate, and complete. I am aw	vare that there are significant penalties for knowing	submitting false							
injormation, including In	be possibility of fine and imprisonment for violations.							S		
								70.		
Printed Nan	ne Date	Signature	Com	ments:						

Page 4



- Irrigation and Nitrogen
 Management questions moved to
 Irrigation and Nitrogen
 Management Plan
 - This data now reported yearly
- Reporting Reduced to Every 5 years for all Members
- New Report Due in 2021 for 2020 Crop Year (all growers)

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) AND SUMMARY REPORT

	IRRIGATION AND NI	FROGEN MANAGEMENT PLAN (INMI	P) WORKSHEET			
IRRIG#	ATION AND NITROG	EN MANAGEMENT PLAN (II	NMP) WORKS	HEET		
ember ID:	INMP Field or MU:	Crop:	Total	Total Acres:		
		IRRIGATION MANAGEMENT				
1. li	rigation Method*	Pre-Seasor	n Planning			
	rimary; if applicable, check for Secondary)	2. Crop Evapotranspiration				
Primary Seco		(ET, inches)				
	Drip					
	Micro Sprinkler	Anticipated Crop Irrigation (inches)				
	Furrow	(inches)				
	Sprinkler					
	Border Strip	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)				
	Flood	(ppinor ng/L, as rec ₃ -re)				
	5. Irrigation	Efficiency Practices* (Check all that	apply)			
☐ Water applica	scheduling irrigations tion schedule to need re probe (e.g. tensiometer	☐ Pressure Bomb ☐ Other) ☐ Other		3		
	H	ARVEST / YIELD INFORMATION				
	Harvest / Yield	Information	Expected (A)	Actual (B)		
6. Production U		7. Harvested Yield*				
	tc.)					
		NITROGEN MANAGEMENT				
8. Nitrogen (Che	Efficiency Practices* ck all that apply)	NITROGEN MANAGEMENT Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)		
8. Nitrogen (Che	Efficiency Practices* ck all that apply)	839))				
(Che	Efficiency Practices* ck all that apply) r Applications	Nitrogen Sources 9. Soil – Available N in Root Zone				
(Che ☐ Split Fertilize	Efficiency Practices* ck all that apply) r Applications	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac)				
(Ĉhe ☐ Split Fertilize ☐ Irrigation Wa	Efficiency Practices* ck all that apply) r Applications ter N Testing	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac) 10. N in Irrigation Water*				
Che Split Fertilize Irrigation Wat Soil Testing Tissue/Petiol	Efficiency Practices* ck all that apply) r Applications ter N Testing	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac)				
Split Fertilize Irrigation Wa' Soil Testing Tissue/Petiol	Efficiency Practices* ck all that apply) r Applications ter N Testing e Testing	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac) 11. Organic Amendments* (Manure/Compost/Other, Ibs/ac estimate)				
Split Fertilize Irrigation Wa' Soil Testing Tissue/Petiol Fertigation Foliar N Appl	Efficiency Practices* ck all that apply) r Applications ter N Testing e Testing	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac) 11. Organic Amendments*				
Split Fertilize Irrigation Wat Soil Testing Tissue/Petiol Fertigation Foliar N Appl Cover Crops	Efficiency Practices* ck all that apply) r Applications ter N Testing e Testing	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac) 11. Organic Amendments* (Manure/Compost/Other, Ibs/ac estimate)				
Split Fertilize Irrigation Wat Soil Testing Tissue/Petiol Fertigation Foliar N Appl Cover Crops	Efficiency Practices* ck all that apply) r Applications ter N Testing e Testing ication Applications using GPS	Nitrogen Sources 9. Soil – Available N in Root Zone (Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac) 11. Organic Amendments* (Manure/Compost/Other, Ibs/ac estimate) 12. Dry/Liquid Fertilizer N* (Ibs/ac)				

A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.	
*(Bold Text) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.	

Plan Certifier Initials

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPOR

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

Refer to your Irrigation and Nitrogen Management Plan (INMP) Worksheet and Parcel Inventory for information to complete an INMP Summary.

Report for each field or Management Unit.

STEP 1: GENERAL INFORMATION	STEP 2: OUTLIER NOTIFICATION RECEIPT	STEP 3: INMP CERTIFICATION METHOD
Member ID:	On (Date), the Coalition provided information about this membership's	Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA
Forms	nitrogen efficiency for the previous crop year and identified management units that were	training program)
Completed By:	considered outliers compared to other Coalition members growing the same crop.	Self-Certified (CDFA training program)
Crop Year		Self-Certified (follows NRCS or UC
(Harvested): Submittal Date:	Please check the box below if you were identified as an outlier by the Coalition.	Cooperative Extension site-specific recommendations)
Submittal Date:		Self-Certified (No fertilizers applied)

STEP 4: INMP SUMMARY REPORT

Complete the table below for each field or management unit for this membership. All values should be on a per acre basis.

Сгор	Crop Age	Total Irrigated Acres					Yield	Prod. Unit	Yield Info*
Perennial only (years)	(acres)	N in Irrigation Water (lbs/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Harvested Yield (lbs/acre or tons/acre)	(lbs or tons)		
	Crop	Perennial only	Crop Grop Irrigated Acres Perennial only (acres)	Crop Grop Age Irrigated Acres Perennial only (acres) Irrigation Water	Crop Age Irrigated Acres N in Irrigation (large) Organic Perennial origing (large) (acres) N in Irrigation (large) Organic Votage (acres) Water (large) Amendments (large)		Crop Age Infigated Total N Applied Lbs/acre	Crop Age Irrigated Acres N in Crganic DryLiquid Foliar Harvested Yield Perennal orly (acres) Water Amendments Fertilizers (Fertilizers (Water (Water Company)) (Acres (Water	Crop Arge Irrigated Acres Cotal N Applied Cotal N Appl

*Use this column to provide information about yield i.e.

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

IRRIGATION & NITROGEN MANAGEMENT PRACTICES

Complete the following tables for each field or Management Unit (refer to ILRP Parcel and Field Inventory Sheet).

		Prima		ation M ct one)	ethod	Secondary Irrigation Method (Select one)						
Field or MU	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood

		Irrigati	on Efficienc	y Practices (Ch	eck all that	apply)	
Field or MU	Laser Leveling	Use of ET in scheduling irrigations	Water application scheduled to need	Use of moisture probe (e.g. tensiometer)	Soil Moisture Neutron Probe	Pressure Bomb	Other
							ľ

		Nitroge	n Effic	iency F	ractices	(Check al	I that a	apply)	
	Split Fertilizer Applications	Irrigation Water N Testing	Soil Testing	Tissue/ Petiole Testing	Fertigation	Foliar N Application	Cover Crops	Variable Rate Applications using GPS	Other
Field or MU							_		
_									

- Grouped by Field or Management Unit
- Max acreage per field = 640 ac
- Integration of Irrigation Practice Questions from Farm Evaluation
- Estimated Irrigation
 Demands
 - Applied Water
 - Crop Usage
- Nitrate-N Levels in Irrigation Water
- Conversion of Nitrate-N
 (ppm) to lbs/ac available
 at agmpep.com
- Planning Portion requires
 Certification in HV areas

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

imber ib ii	NMP Field or MU:	Crop:	lotal	Acres:
		IRRIGATION MANAGEMENT		
1. Irrigat	ion Method*	Pre-Seasor	n Planning	
check one for Primar one for Se Primary Secondary	•	Crop Evapotranspiration (ET, inches)		
	Drip Micro Sprinkler Furrow	Anticipated Crop Irrigation (inches)		
	Sprinkler Border Strip Flood	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)		
	5. Irrigation E	Efficiency Practices* (Check all that	apply)	
Laser Leveling Use of ET in sched Water application s Use of moisture pro		□ Soil Moisture Neutro □ Pressure Bomb □ Other □ Other	on Probe	-
	H	ARVEST / YIELD INFORMATION		
	Harvest / Yield I	nformation	Expected (A)	Actual (E
6. Production Unit (lbs, tons, etc.)		7. Harvested Yield*		
		NITROGEN MANAGEMENT		
	iency Practices* that apply)	Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)
		9. Soil – Available N in Root Zone		
Split Fertilizer App	lications	(Annualized, Ibs/ac)		
☐ Irrigation Water N				
☐ Irrigation Water N☐ Soil Testing☐ Tissue/Petiole Tes	Testing	(Annualized, Ibs/ac) 10. N in Irrigation Water*		
☐ Irrigation Water N☐ Soil Testing☐ Tissue/Petiole Tes☐ Fertigation☐ Foliar N Applicatio	Testing	(Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac) 11. Organic Amendments*		
☐ Split Fertilizer App ☐ Irrigation Water N ☐ Soil Testing ☐ Tissue/Petiole Tes ☐ Fertigation ☐ Foliar N Applicatio ☐ Cover Crops ☐ Variable Rate App ☐ Other:	Testing sting n lications using GPS	(Annualized, Ibs/ac) 10. N in Irrigation Water* (Annualized, Ibs/ac) 11. Organic Amendments* (Manure/Compost/Other, Ibs/ac estimate)		

A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.

*(Bold Text) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.

- Grouped by Field or Management Unit
- Max acreage per field = 640 ac
- Integration of Irrigation Practice Questions from Farm Evaluation
- Estimated Irrigation
 Demands
 - Applied Water
 - Crop Usage
- Nitrate-N Levels in Irrigation Water
- Conversion of Nitrate-N
 (ppm) to lbs/ac available
 at agmpep.com
- Planning Portion requires
 Certification in HV areas

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID: I	NMP Field or MU:	Crop:	Total Acres:				
		IRRIGATION MANAGEMENT					
1. Irriga	tion Method*	Pre-Season Planning					
one for S Primary Secondary	was a second	2. Crop Evapotranspiration (巨, inches)					
	Drip Micro Sprinkler Furrow	Anticipated Crop Irrigation (inches)					
	Sprinkler Border Strip Flood	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)					
	5. Irrigation E	fficiency Practices* (Check all that	apply)				
Laser Leveling Use of ET in sched Water application Use of moisture p	schedule to need robe (e.g. tensiometer)		on Probe				
		RVEST / YIELD INFORMATION					
	Harvest / Yield I	nformation	Expected (A)	Actual (B)			
6. Production Unit (lbs, tons, etc.)		7. Harvested Yield*					
		NITROGEN MANAGEMENT					
	ciency Practices* I that apply)	Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)			
Split Fertilizer App	olications	9. Soil – Available N in Root Zone (Annualized, Ibs/ac)					
☐ Irrigation Water N ☐ Soil Testing	Testing	10. N in Irrigation Water* (Annualized, lbs/ac)					
		1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
☐ Tissue/Petiole Te ☐ Fertigation	sting	11. Organic Amendments* (Manure/Compost/Other, lbs/ac estimate)					
_							
☐ Fertigation ☐ Foliar N Applicatio	on olications using GPS	(Manure/Compost/Other, lbs/ac estimate)					

*(Bold Text) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.

¹ A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.

- Grouped by Field or Management Unit
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 Practice Questions from

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- Estimated Irrigation
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IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID:	_ INMP Field or MU:	Crop:	Total Acres:					
		IRRIGATION MANAGEMENT						
1. Irri	gation Method*	Pre-Season Planning						
	nary; if applicable, check r Secondary)	2. Crop Evapotranspiration						
Primary Second		(ET, inches)						
	Drip)						
	Micro Sprinkler	3. Anticipated Crop Irrigation						
	Furrow	(inches)						
	Sprinkler							
	Border Strip	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)						
	Flood	(ppm or mg/L, as NO3-N)						
	5. Irrigation I	Efficiency Practices* (Check all that a	apply)					
☐ Laser Leveling		☐ Soil Moisture Neutro	on Probe					
☐ Use of ET in sc	heduling irrigations	□ Pressure Bomb						
	on schedule to need	☐ Other						
☐ Use of moisture	probe (e.g. tensiometer)			-				
HARVEST / YIELD INFORMATION								
	Harvest / Yield	Information	Expected (A)	Actual (B)				
6. Production Un (lbs, tons, etc		7. Harvested Yield*						
		NITROGEN MANAGEMENT						
	fficiency Practices* all that apply)	Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)				
Split Fertilizer	Applications	9. Soil – Available N in Root Zone (Annualized, Ibs/ac)						
☐ Irrigation Water	r N Testing	10. N in Irrigation Water*						
☐ Soil Testing		(Annualized, lbs/ac)						
☐ Tissue/Petiole	Testing	11. Organic Amendments*						
☐ Fertigation		(Manure/Compost/Other, lbs/ac estimate)						
☐ Foliar N Applica	ation	12. Dry/Liquid Fertilizer N* (lbs/ac)						
☐ Cover Crops		12. Di y Elquid i eltilizer iv (ibsrac)						
☐ Variable Rate	Applications using GPS	13. Foliar Fertilizer N* (lbs/ac)						
Other:								
Other:		14. TOTAL NITROGEN (lbs/ac)						

¹ A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.
*(Bold Text) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.

- Grouped by Field or Management Unit
- Max acreage per field = 640 ac
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- Estimated Irrigation
 Demands
 - Applied Water
 - Crop Usage
- Nitrate-N Levels in Irrigation Water
- Conversion of Nitrate-N
 (ppm) to lbs/ac available
 at agmpep.com
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IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

ember ID: _		NMP Field or MU:	Crop:	Total Acres:		
			IRRIGATION MANAGEMENT			
	1. Irriga	tion Method*	Pre-Seasor	n Planning		
(check one for Primary; if applicable, check one for Secondary)			2. Crop Evapotranspiration			
	Secondary		(ET, inches)			
		Drip				
		Micro Sprinkler	3. Anticipated Crop Irrigation			
		Furrow	(incres)			
		Sprinkler Border Strip				
		Flood	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)			
		Floou	Triple of the state of the stat			
		5. Irrigation E	Efficiency Practices* (Check all that	apply)		
Laser Le			☐ Soil Moisture Neutre	on Probe		
		duling irrigations	□ Pressure Bomb			
	•	schedule to need obe (e.g. tensiometer)	□ Other □ Other		-	
Use of h	noisture pi	, ,	ARVEST / YIELD INFORMATION		-	
	Expected (A)	Actual (B)				
6. Product	tion Unit ons, etc.)		7. Harvested Yield*			
			NITROGEN MANAGEMENT			
		ciency Practices* I that apply)	Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)	
_ Split Fe	rtilizer Ap _l	olications	Soil – Available N in Root Zone (Annualized, ibs/ac)			
☐ Irrigatio	n Water N	Testing	10. N in Irrigation Water*			
Soil Tes	sting		(Annualized, Ibs/ac)			
☐ Tissue/Petiole Testing			11. Organic Amendments*			
Tissue/	Petiole Te	July				
☐ Tissue/l☐ Fertigat		Stillig	(Manure/Compost/Other, lbs/ac estimate)			
Fertigat			(Manure/Compost/Other, lbs/ac estimate)			
Fertigat	tion I Applicatio		_			
Fertigat Foliar N Cover C	tion I Applicatio Crops	on	(Manure/Compost/Other, lbs/ac estimate) 12. Dry/Liquid Fertilizer N* (lbs/ac)			
☐ Fertigat ☐ Foliar N ☐ Cover 0 ☐ Variable	tion I Applicatio Crops e Rate App		(Manure/Compost/Other, lbs/ac estimate)			

¹ A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.

^{*(}Bold Text) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.

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- Max acreage per field = 640 ac
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 Practice Questions from

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- Estimated Irrigation
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IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID: INMP Field or MU:				Crop:			Total	Acres:
			IDDICATION	ON MANAGEME	NT			
	1 Irria	ation Method*	IIKKIGATI			2501	Planning	
(check one		ary; if applicable, chec			F16-366	asor	Flatiling	
	one for Secondary) Primary Secondary			Evapotranspirati	ion			
Primary	Secondar	Drip						
		Micro Sprinkler	2 0 4: - :-					
		Furrow	(inches	oated Crop Irriga)	ation			
1 -		Sprinkler		v .				
		Border Strip	4 Irrigati	on Water N Cor	centrati	ion		
		Flood	4. In igua	on Water N Cor	ioonii ati			
						nat a	apply)	
☐ Laser Le	_					utro	on Probe	
☐ Use of E		_		A1				
☐ Water ap	•		First	Alert				-
- Ose of M	loisture	orobe (e						_0
			Immediate Results*	G WATER			Expected (A)	Actual (B)
			TEST KIT			_	Expected (A)	Actual (B)
6. Product								
(IDS, IO	ns, etc.)			Protect your family from harmful elements that might be in your drinking water.				
9 Nitra	ogen Eff	ficiency					Recommended/	Actual N
	(Check a			Tests To EPA Standards			Planned N (A)	(B)
	-			Tests for: Bacteria Lead		e		
☐ Split Fer	tilizer Ap	oplicatio	1	Pesticides Nitrates/Nitrites				
☐ Irrigation	n Water	N Testin		Chlorine Hardness pH				
☐ Soil Tes	ting			DIY				
☐ Tissue/F	-	esting		Do-It-Yourself				
 ☐ Fertigati		P. S.	No. TO			∌)		
☐ Foliar N		tion						
☐ Cover C					3	ic)		
	☐ Variable Rate Applicatio							
Other:				The same of the sa				
Other:								
I - Ciliel							1	

¹ A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.

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- Grouped by Field or Management Unit
- Max acreage per field = 640 ac
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 Practice Questions from

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- Estimated Irrigation
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 (ppm) to lbs/ac available
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IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

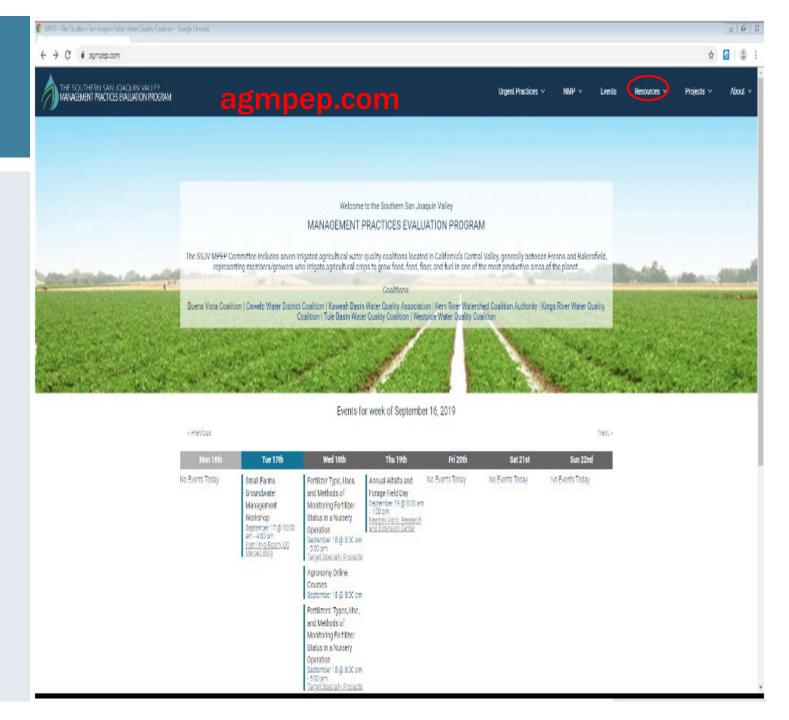
IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

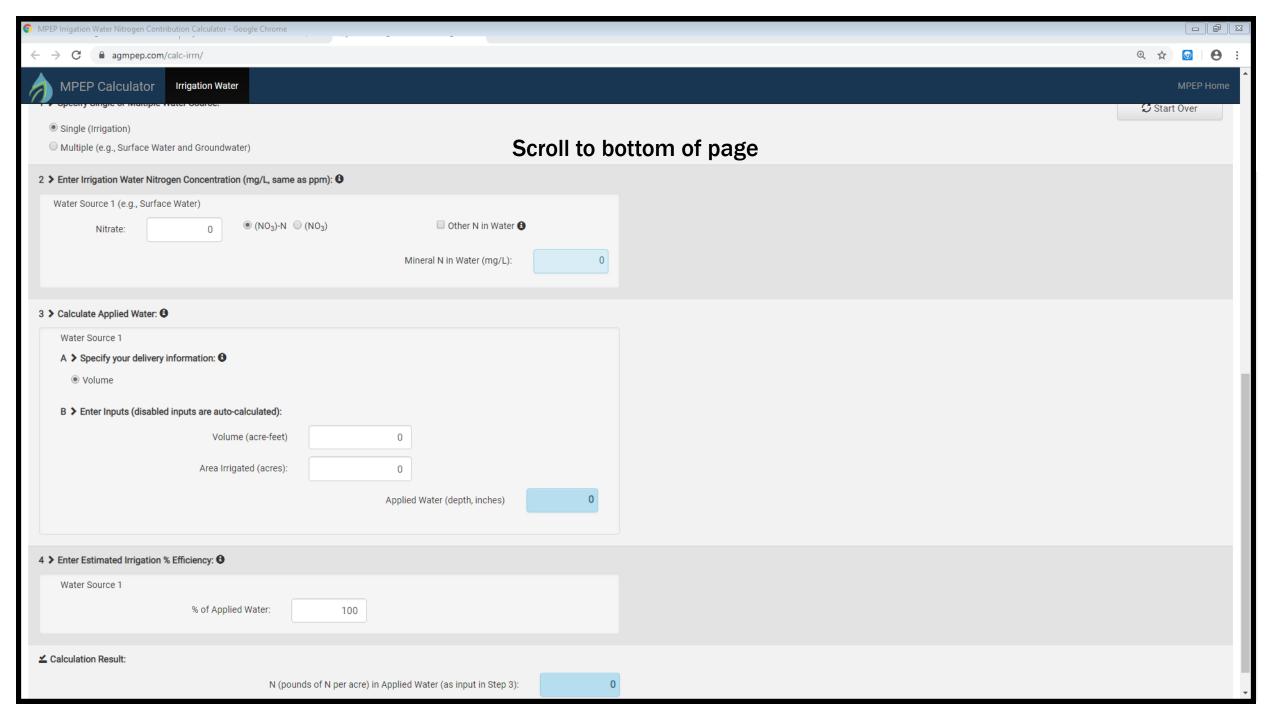
ember ID:	INMP Field or MU:	Crop:	Total Acres:				
		IRRIGATION MANAGEMENT					
1.	. Irrigation Method*	Pre-Season	n Planning				
	r Primary; if applicable, check ne for Secondary)	Crop Evapotranspiration (ET, inches)					
	□ Drip □ Micro Sprinkler □ Furrow □ Sprinkler □ Border Strip □ Flood	3. Anticipated Crop Irrigation (inches) 4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)					
	5. Irrigation	Efficiency Practices* (Check all that	apply)				
Water appli	n scheduling irrigations ication schedule to need sture probe (e.g. tensiometer)			-			
		ARVEST / YIELD INFORMATION					
	Harvest / Yield	Information	Expected (A)	Actual (B)			
6. Production (lbs, tons,		7. Harvested Yield*					
		NITROGEN MANAGEMENT					
	en Efficiency Practices* heck all that apply)	Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)			
_ Split Fertiliz	zer Applications	9. Soil – Available N in Root Zone (Annualized, ibs/ac)					
☐ Irrigation W ☐ Soil Testing	Vater N Testing g	10. N in Irrigation Water* (Angualized, lbs/ac)					
☐ Tissue/Peti ☐ Fertigation		11. Organic Amendments* (Manure/Compost/Other, lbs/ac estimate)					
☐ Foliar N Application ☐ Cover Crops		12. Dry/Liquid Fertilizer N* (lbs/ac)					
□ Verieble Pe				<u> </u>			
	ate Applications using GPS	13. Foliar Fertilizer N* (lbs/ac)					

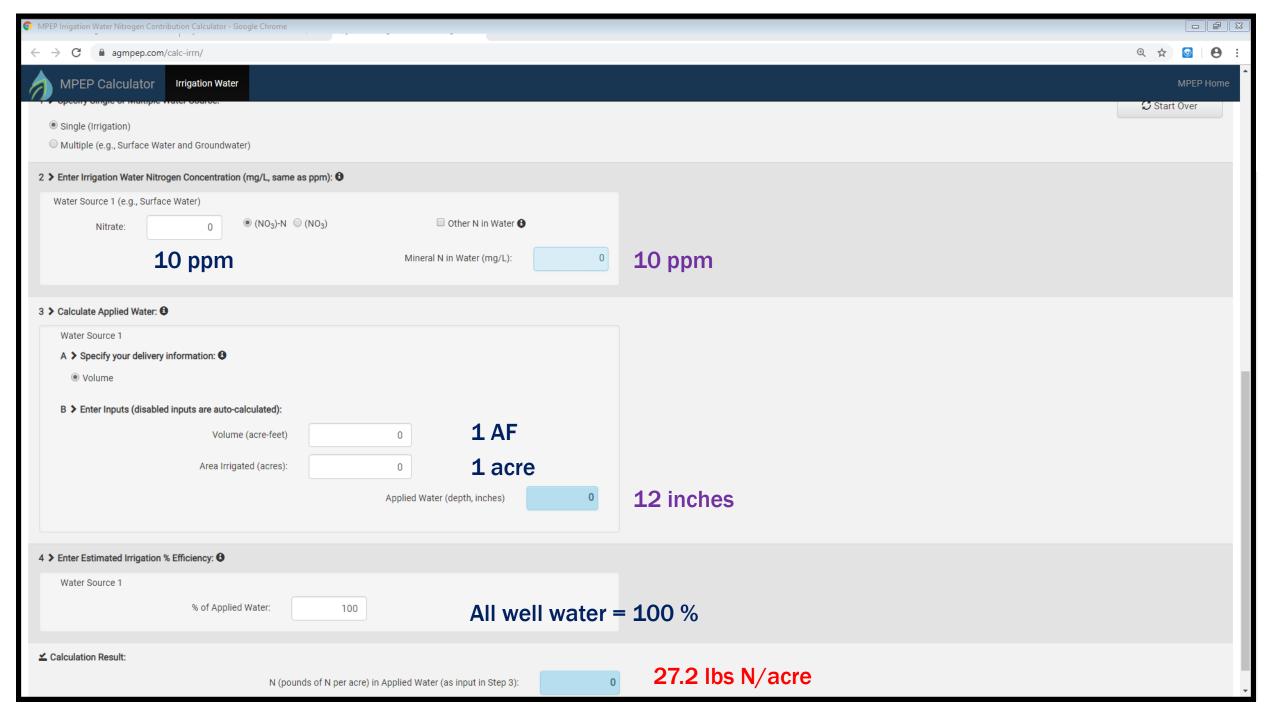
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- Max acreage per field = 640 ac
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 Practice Questions from
 Farm Evaluation
- Estimated Irrigation Demands
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 (ppm) to lbs/ac available
 at agmpep.com
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- Grouped by Field or Management Unit
- Max acreage per field = 640 ac
- Integration of Irrigation
 Practice Questions from

 Farm Evaluation
- Estimated Irrigation
 Demands
 - Applied Water
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- Nitrate-N Levels in Irrigation Water
- Conversion of Nitrate-N
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IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID: INMP I	Field or MU:	Crop:	Total Acres:				
	I	RRIGATION MANAGEMENT					
1. Irrigation M	lethod*	Pre-Season Planning					
(check one for Primary; if a one for Second Primary Secondary		Crop Evapotranspiration (ET, inches)					
□ □ Furro		Anticipated Crop Irrigation (inches)					
□ □ Sprin □ □ Borde □ □ Flood	er Strip	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)					
	5. Irrigation E	fficiency Practices* (Check all that a	apply)				
□ Laser Leveling □ Use of ET in scheduling □ Water application sched □ Use of moisture probe (€	ule to need	□ Soil Moisture Neutron Probe□ Pressure Bomb□ Other□ Other					
	HA	RVEST / YIELD INFORMATION					
	Harvest / Yield Ir	nformation	Expected (A)	Actual (B)			
6. Production Unit (lbs, tons, etc.)		7. Harvested Yield*					
		NITROGEN MANAGEMENT					
8. Nitrogen Efficiency (Check all that a		Nitrogen Sources	Recommended/ Planned N (A)	Actual N (B)			
☐ Split Fertilizer Application	ons	9. Soil – Available N in Root Zone (Annualized, Ibs/ac)					
☐ Irrigation Water N Testin☐ Soil Testing		10. N in Irrigation Water* (Annualized, lbs/ac)					
☐ Tissue/Petiole Testing☐ Fertigation		11. Organic Amendments* (Manure/Compost/Other, lbs/ac estimate)					
☐ Foliar N Application ☐ Cover Crops		12. Dry/Liquid Fertilizer N* (lbs/ac)					
☐ Variable Rate Applicatio	-	13. Foliar Fertilizer N* (lbs/ac)					
Other:		14. TOTAL NITROGEN (lbs/ac)					

¹ A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc. *(Bold Text) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.

NEW FORMS - IRRIGATION AND NITROGEN SUMMARY REPORT

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPOR

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

Refer to your Irrigation and Nitrogen Management Plan (INMP) Worksheet and Parcel Inventory for information to complete an INMP Summary.

Report for each field or Management Unit.

STEP 1: GENERAL INFORMATION	STEP 2: OUTLIER NOTIFICATION RECEIPT	STEP 3: INMP CERTIFICATION METHOD
Member ID:	On (Date), the Coalition provided information about this membership's	Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA
Forms	nitrogen efficiency for the previous crop year and identified management units that were	training program)
Completed By:	considered outliers compared to other Coalition members growing the same crop.	Self-Certified (CDFA training program)
Crop Year		Self-Certified (follows NRCS or UC
(Harvested):	Please check the box below if you were identified as an outlier by the Coalition.	Cooperative Extension site-specific recommendations)
Submittal Date:		Self-Certified (No fertilizers applied)

STEP 4: INMP SUMMARY REPORT

Complete the table below for each field or management unit for this membership. All values should be on a per acre basis.

Field or Management Unit	Сгор	Crop Age	Total Irrigated Acres	Total N Applied Lbs/acre				Yield	Prod. Unit	Yield Info*
Refer to Parcel Inventory		Perennial only (years)	(acres)	N in Irrigation Water (lbs/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Harvested Yield (lbs/acre or tons/acre)	(lbs or tons)	
			9	8						

^{*}Use this column to provide information about yield i.e. nonbearing; crop not harvested; type of harvest (e.g. silage, grain). If you harvest straw, please contact your Coalition.

IRRIGATION & NITROGEN MANAGEMENT PRACTICES

Complete the following tables for each field or Management Unit (refer to ILRP Parcel and Field Inventory Sheet).

	Primary Irrigation Method (Select one)							Secondary Irrigation Method (Select one)				
Field or MU	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood

		Irrigation Efficiency Practices (Check all that apply)								
	Laser Leveling	Use of ET in scheduling irrigations	Water application scheduled to need	Use of moisture probe (e.g. tensiometer)	Soil Moisture Neutron Probe	Pressure Bomb	Other			
Field or MU										
		П	П	П	П	П				

		Nitroge	n Effic	ency F	ractices	(Check al	I that a	apply)	
0.02	Split Fertilizer Applications	Irrigation Water N Testing	Soil Testing	Tissue/ Petiole Testing	Fertigation	Foliar N Application	Cover Crops	Variable Rate Applications using GPS	Other
Field or MU									
	ī	Π	Ī	Ī	Ē	Ī	Ī	ñ	
	T T	П	П	П	П	П	ΙĒ		

NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

- Report by Field (640 ac limit) or Management Unit
- Report Date the Coalition
 Provided Nitrogen
 Efficiency Feedback and if
 Identified as Outlier
- Note <u>Changes</u> in Reported Data
 - N in Irrigation Water
 - Organic Amendments
 - Dry/Liquid Fertilizers
 - Foliar Fertilizers
 - YIELD
- ALL DATA ON PER ACRE BASIS
- N Applied in lbs/ac

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

Refer to your Irrigation and Nitrogen Management Plan (INMP) Worksheet and Parcel Inventory for information to complete an INMP Summary.

Report for each field or Management Unit.

STEP 1: GENERAL INFORMATION	STEP 2: OUTLIER NOTIFICATION RECEIPT	STEP 3: INMP CERTIFICATION METHOD
Member ID:	On (Date), the Coalition provided information about this membership's	Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA
Forms	nitrogen efficiency for the previous crop year and identified management units that were	training program)
Completed By:	considered outliers compared to other Coalition members growing the same crop.	Self-Certified (CDFA training program)
Crop Year		Self-Certified (follows NRCS or UC
(Harvested):	Please check the box below if you were identified as an outlier by the Coalition.	Cooperative Extension site-specific recommendations)
		Self-Certified (No fertilizers applied)

STEP 4: INMP SUMMARY REPORT

Complete the table below for each field or management unit for this membership. All values should be on a per acre basis.

Сгор	Crop Crop	Total Irrigated Acres (acres)	Total N Applied Lbs/acre				Yield	Prod. Unit	Yield Info*
only	Perennial only (years)		N in Irrigation Water (lbs/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Harvested Yield (Ibs/acre or tons/acre)	(lbs or tons)	
		9	7		2				
	Сгор	Age Perennial only	Age Acres Perennial only (acres)	Perennial only (acres) Water	Perennial only (acres) N in Organic Amendments (the/acres)	Perennial only (acres) Water (lbs/acre) Crganic Dry/Liquid Amendments Fertilizers (lbs/acre) (lbs/acre)	Perennial only (acres) N in Organic Dry/Liquid Foliar Amendments Fertilizers Fertilizers (Ibe/acre) (Ibe/acre)	Perennial only (acres) Water (Ibs/acre) Cry/Liquid Foliar Fertilizers Fertilizers Fertilizers (Ibs/acre) (Ibs/acre) (Ibs/acre) (Ibs/acre) (Ibs/acre)	Perennial only (acres) Nan Organic Amendments Fertilizers Fertilizers Fertilizers (Ibs/acre) (Ibs/acre) (Ibs/acre) (Ibs/acre) (Ibs/acre) (Ibs/acre)

^{*}Use this column to provide information about yield i.e. nonbearing; crop not harvested; type of harvest (e.g. silage, grain). If you harvest straw, please contact your Coalition.

NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

- Report by Field (640 ac limit) or Management Unit
- Report Date the Coalition
 Provided Nitrogen
 Efficiency Feedback and if Identified as Outlier
- Note <u>Changes</u> in Reported Data
 - N in Irrigation Water
 - Organic Amendments
 - Dry/Liquid Fertilizers
 - Foliar Fertilizers
 - YIELD
- ALL DATA ON PER ACRE BASIS
- N Applied in lbs/ac

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

Refer to your Irrigation and Nitrogen Management Plan (INMP) Worksheet and Parcel Inventory for information to complete an INMP Summary.

Report for each field or Management Unit.

STEP 1: GENERAL INFORMATION	STEP 2: OUTLIER NOTIFICATION RECEIPT	STEP 3: INMP CERTIFICATION METHOD
Member ID:	on (Date), the Coalition provided information about this membership's nitrogen efficiency for the previous crop year	Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA
Forms	and identified management units that were	training program)
Completed By:	considered outliers compared to other	☐ Self-Certified (CDFA training program)
Crop Year	Coalition members growing the same crop.	Self-Certified (follows NRCS or UC
(Harvested):	Please check the box below if you were	Cooperative Extension site-specific
Submittal Date:	identified as an outlier by the Coalition.	recommendations)
		Self-Certified (No fertilizers applied)

STEP 4: INMP SUMMARY REPORT

Complete the table below for each field or management unit for this membership. All values should be on a per acre basis.

Field or Management Unit	Сгор	rop Crop Age	Total Irrigated Acres (acres)	Total N Applied Lbs/acre				Yield	Prod. Unit	Yield Info*
Refer to Parcel Inventory		Perennial only (years)		N in Irrigation Water (lbs/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Harvested Yield (lbs/acre or tons/acre)	(lbs or tons)	
						,				

^{*}Use this column to provide information about yield i.e. nonbearing; crop not harvested; type of harvest (e.g. silage, grain). If you harvest straw, please contact your Coalition.

NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

- Report by Field (640 ac limit) or Management Unit
- Report Date the Coalition
 Provided Nitrogen
 Efficiency Feedback and if Identified as Outlier
- Note <u>Changes</u> in Reported Data
 - N in Irrigation Water
 - Organic Amendments
 - Dry/Liquid Fertilizers
 - Foliar Fertilizers
 - YIELD
- ALL DATA ON PER ACRE BASIS
- N Applied in lbs/ac

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

Refer to your Irrigation and Nitrogen Management Plan (INMP) Worksheet and Parcel Inventory for information to complete an INMP Summary.

Report for each field or Management Unit.

STEP 1: GENERAL INFORMATION	STEP 2: OUTLIER NOTIFICATION RECEIPT	STEP 3: INMP CERTIFICATION METHOD
Member ID:	On (Date), the Coalition provided information about this membership's	☐ Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA
Forms	nitrogen efficiency for the previous crop year and identified management units that were	training program)
Completed By:	considered outliers compared to other Coalition members growing the same crop.	☐ Self-Certified (CDFA training program)
Crop Year	3	Self-Certified (follows NRCS or UC
(Harvested):	Please check the box below if you were	Cooperative Extension site-specific
Submittal Date:	identified as an outlier by the Coalition.	recommendations)
	Ц	Self-Certified (No fertilizers applied)

STEP 4: INMP SUMMARY REPORT

Complete the table below for each field or management unit for this membership. All values should be on a per acre basis.

Field or Management Unit	Сгор	Crop Age	Total Irrigated Acres	Total N Applied Lbs/acre			Yield	Prod. Unit	Yield Info*	
Refer to Parcel Inventory	Perennial only (years)	(acres)	N in Irrigation Water (Nos/acre)	Organic Amendments (lbs/acre)	Dry/Liquid Fertilizers (lbs/acre)	Foliar Fertilizers (lbs/acre)	Yield Yield (hos/acre or tons/acre)	(lbs or tons)		
			6 2 2							

^{*}Use this column to provide information about yield i.e. nonbearing; crop not harvested; type of harvest (e.g. silage, grain). If you harvest straw, please contact your Coalition.

NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

- Practices Used in each
 Field or Management
 Unit
- Information requested:
 - Irrigation Method
 - Irrigation Efficiency
 - Nitrogen Efficiency
- Updated and Reported Yearly

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) SUMMARY REPORT

IRRIGATION & NITROGEN MANAGEMENT PRACTICES

Complete the following tables for each field or Management Unit (refer to ILRP Parcel and Field Inventory Sheet).

	Primary Irrigation Method (Select one)						Secondary Irrigation Method (Select one)						
Field or MU	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood	

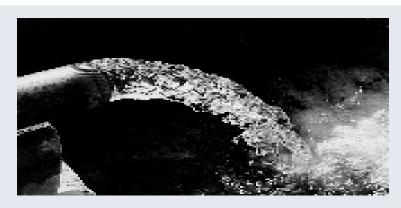
	Irrigation Efficiency Practices (Check all that apply)								
	Laser Leveling	Use of ET in scheduling irrigations	Water application scheduled to need	Use of moisture probe (e.g. tensiometer)	Soil Moisture Neutron Probe	Pressure Bomb	Other		
Field or MU									

	Nitrogen Efficiency Practices (Check all that apply)										
Field or MU	Split Fertilizer Applications	Irrigation Water N Testing	Soil Testing	Tissue/ Petiole Testing	Fertigation	Foliar N Application	Cover Crops	Variable Rate Applications using GPS	Other		
Field of IVIO											
		H	H	H		H	H	H			

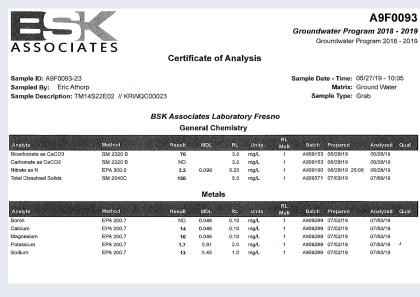
TODAY'S AGENDA



GROUNDWATER QUALITY MONITORING







GROUNDWATER QUALITY MONITORING



- Two Separate Groundwater Monitoring Requirements now in effect
 - 1: Domestic Drinking Water Well Testing
 - 2: Groundwater Trend Monitoring Plan
 - Testing of Irrigation Wells within the High Vulnerability Area is recommended

GROUNDWATER QUALITY TREND MONITORING

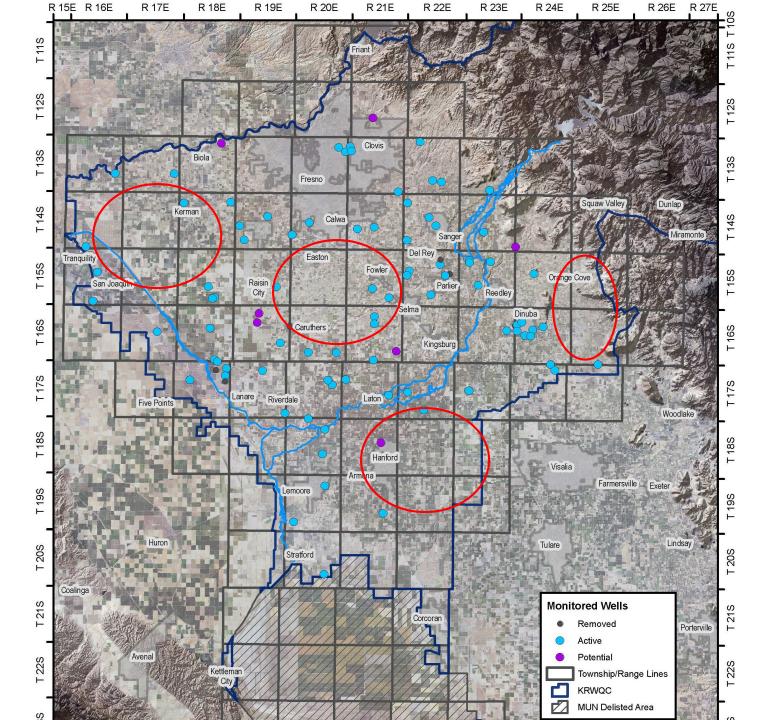


- Annual Survey of Groundwater Quality
 - Mid-Late June Survey Period
- Mix of <u>Shallow</u> Ag, Domestic, and Public Wells
- Test Results are Available to Participating Growers/Agencies
- Must have Well Construction Data
- Long Term Tracking of Water Quality in Uppermost portion of Aquifer
- Still some Gaps in Desired Coverage

R 15E R 16E R 17E R 18E R 19E R 20E R 21E R 22E R 23E R 24E Clovis Fresno 🥌 Easton Fowler Orange C Raisin City Reedley Dinuba Caruthers Kingsburg Laton Farmersville Exeter **Monitored Wells** Corcoran Removed Porterville Potential Township/Range Lines KRWQC MUN Delisted Area

GROUNDWATER TREND MONITORING NETWORK

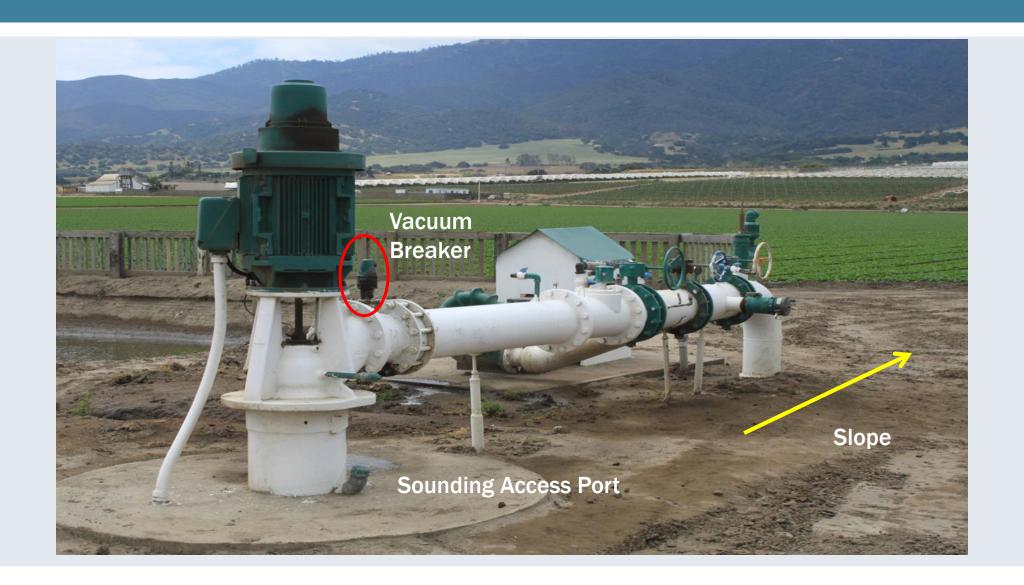
- -Used to develop water quality trends over time
- -Need to resolve spatially
- -Sampling will take place in late June/early July



GROUNDWATER TREND MONITORING NETWORK

-Areas of Interest

WELLHEAD PROTECTION



WELLHEAD PROTECTION







Pump on Flow Direction

WELLHEAD PROTECTION



ADDITIONAL RESOURCES



www.kingsriverwqc.org

- Informational Resources
- Outreach Schedule
- Other Programs related to Water Quality
- Reporting Forms

www.krcd.org/agline

- Uses locally generated reference data and applied crop coefficients to provide
- Last 7 days water use
- Next 7 days predicted water use
- Season to Date

agmpep.com

- Detailed Resources on
 - Nitrogen and Crop Management
 - Useful Calculators
 - Future Events of Interest

Drinking Water Well Testing

https://www.waterboards.ca.gov/centralvalley/ water_issues/irrigated_lands/drinking_water

TODAY'S AGENDA

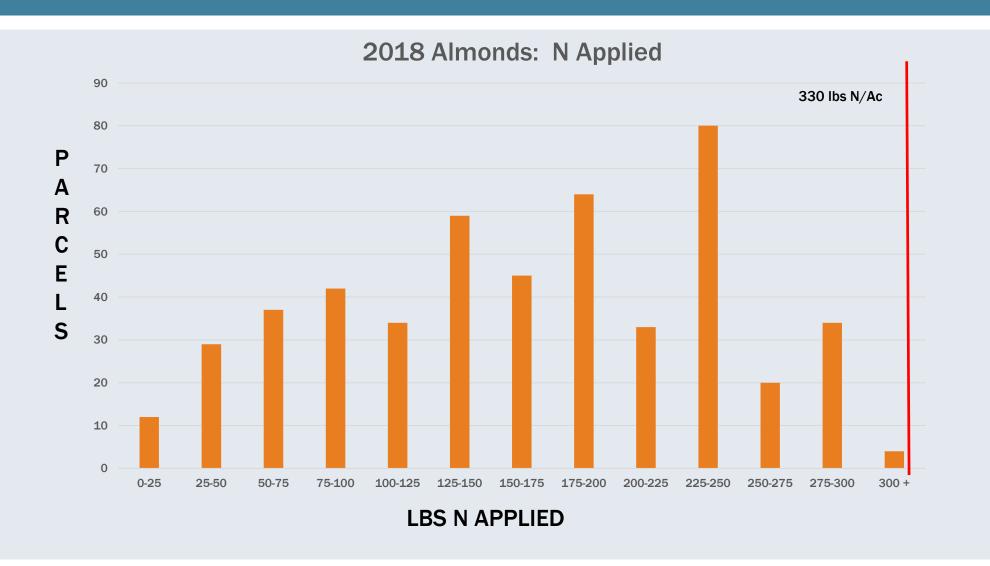


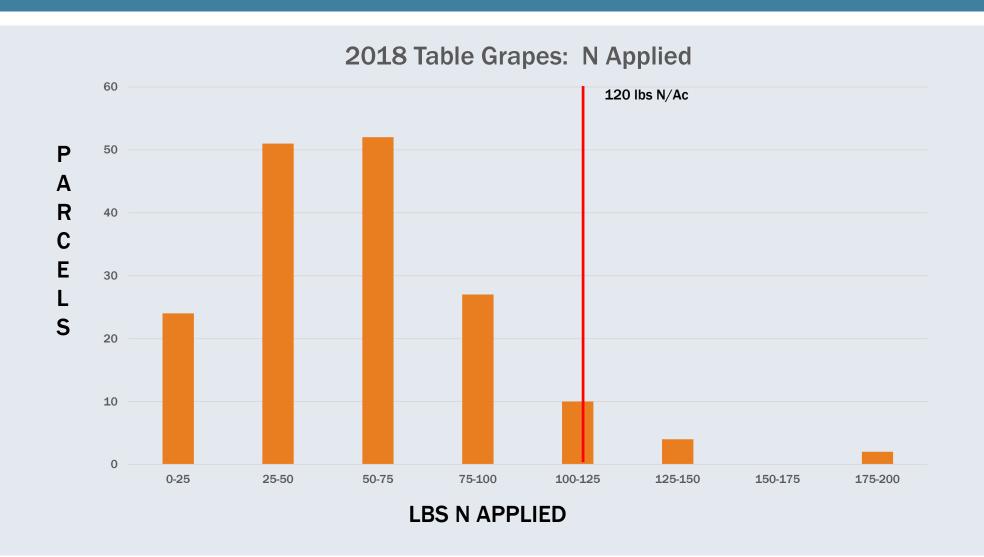


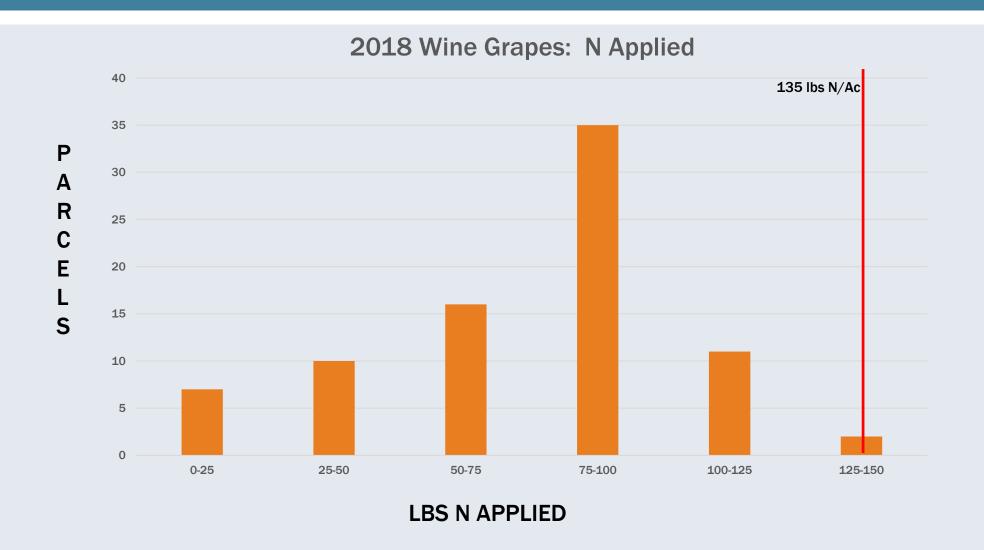
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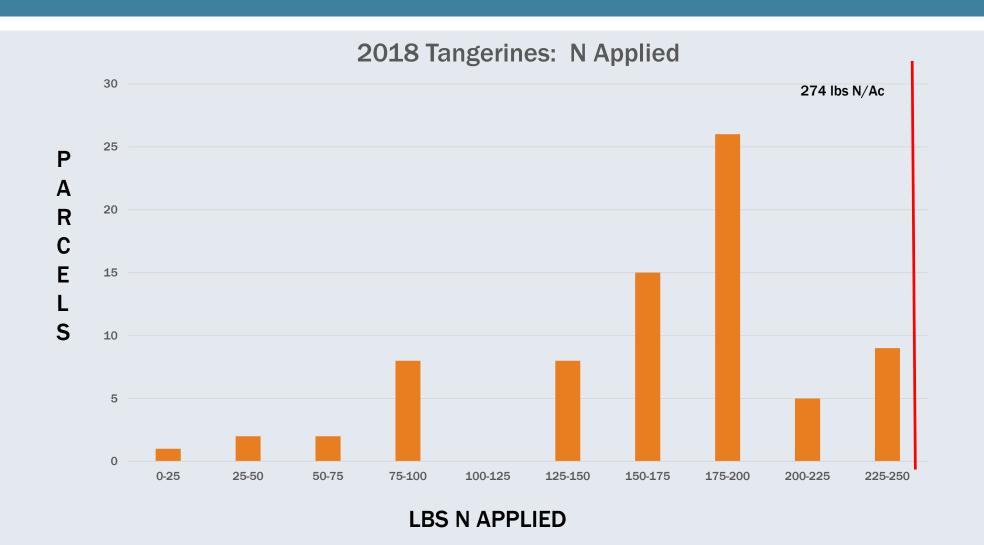
- Coalitions are Required to Analyze and Discuss Nitrogen Application Trends
- How Growers Compare to Others within a Township
 - If Applied/Removed (A/R) is beyond a calculated value (based on data received), parcel would be designated an "outlier"
 - Any metric can be used
 - May or May Not require corrective action on part of grower, depending on conditions
 - Consistently being Identified as an Outlier can trigger increased regulatory inquiry
 - May require Certification of INMP if Outlier in Low Vulnerability Area

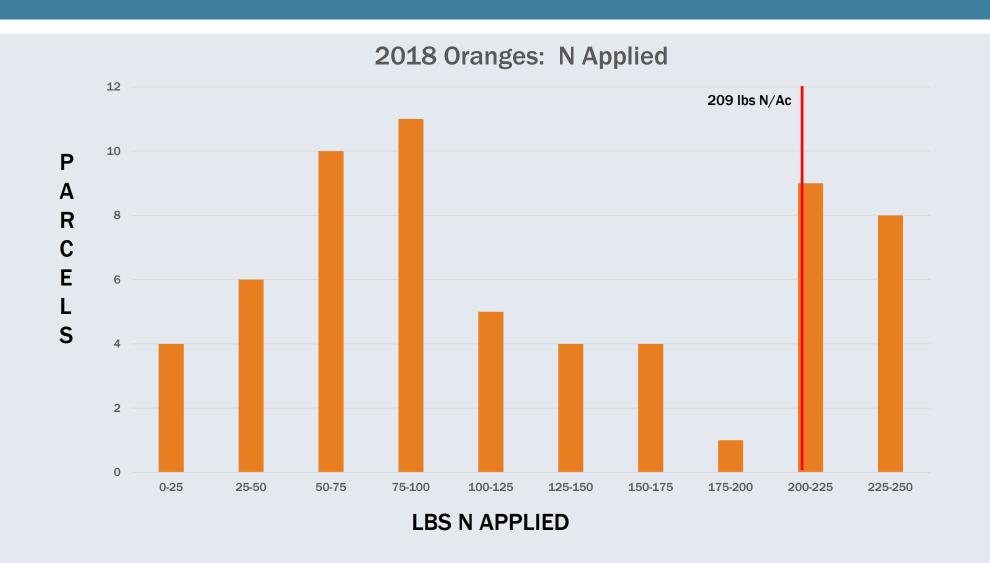












QUESTIONS





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