

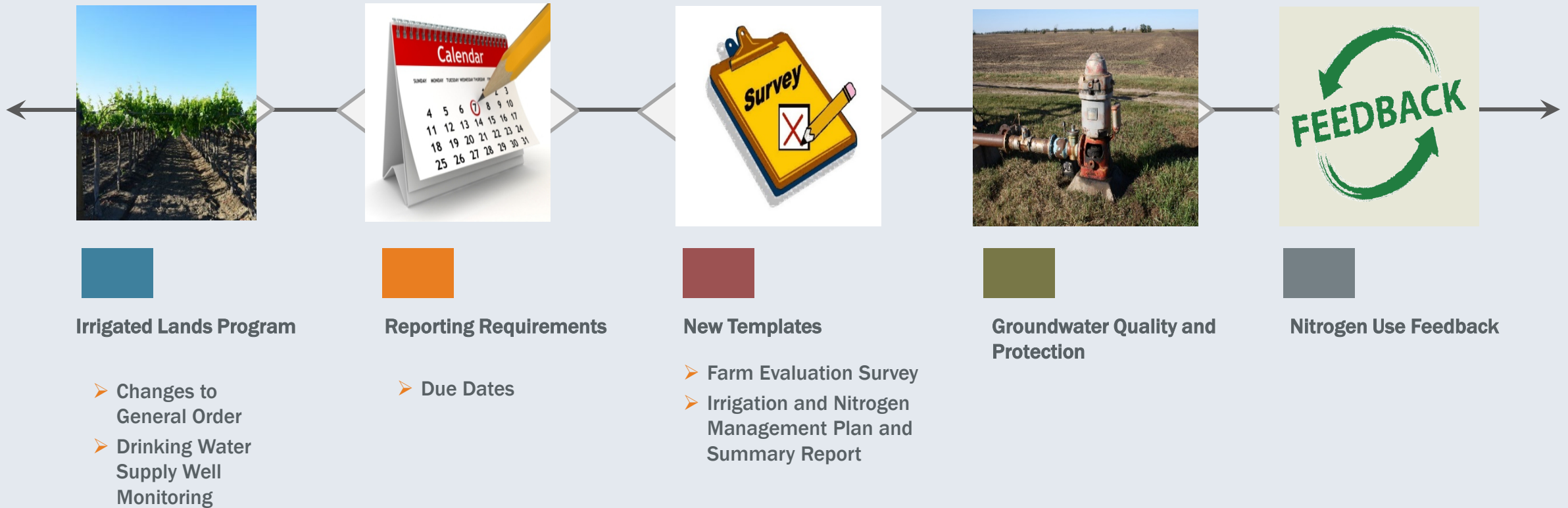


KINGS RIVER
WATER QUALITY COALITION

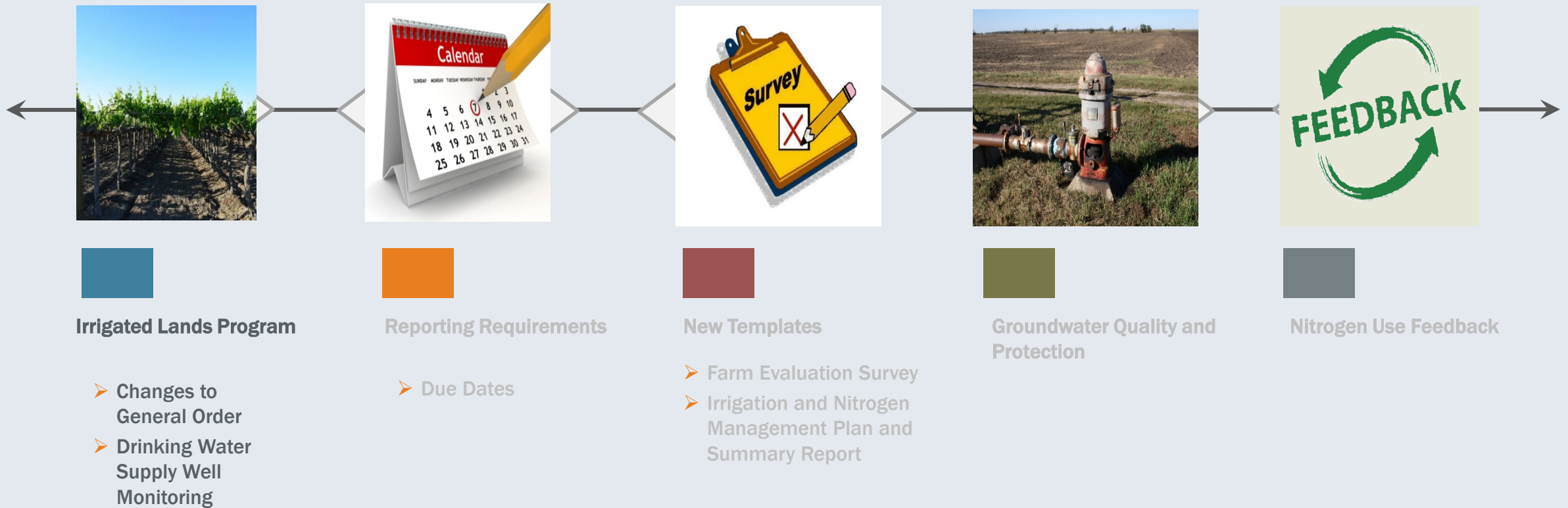
MEMBER COMPLIANCE ASSISTANCE WORKSHOP

Kings River Water Quality Coalition
Hanford
December 3, 2019

TODAY'S AGENDA



TODAY'S AGENDA



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 may be required to have INMPs certified
- Farm Evaluation requirement reduced to every Five years

DRINKING WATER SUPPLY WELL MONITORING



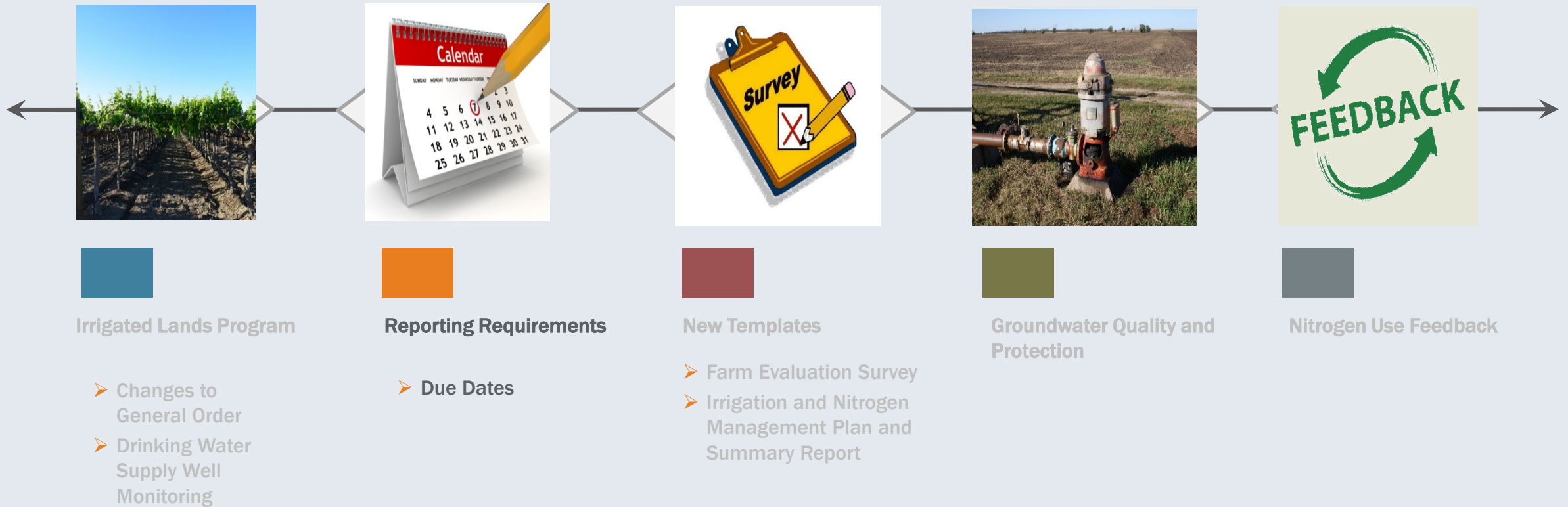
- Any Well used for **Human Consumption** is subject to this requirement
- Testing for Nitrate + Nitrite-N levels only
- Must be Analyzed by Certified Laboratory
 - List of local labs mailed to all members
- Results reported by lab to State Water Resources Control Board's GeoTracker database
 - Reporting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

TODAY'S AGENDA



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

COMMON REPORTING ISSUES



- Nitrogen Summary Reports
 - Missing Crops, Crop Year, APNs, Member ID, Production Units
 - 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)

COMMON REPORTING ISSUES



- **Farm Evaluation Surveys**
 - Not Listing Member ID or Name on Pages
 - Not Listing Current Crops/APNs on Part C (check against Invoice)
 - Please Double-check CCA/Third party Submission Information

COMMON REPORTING ISSUES



■ Part B: Wells

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

COMMON REPORTING ISSUES



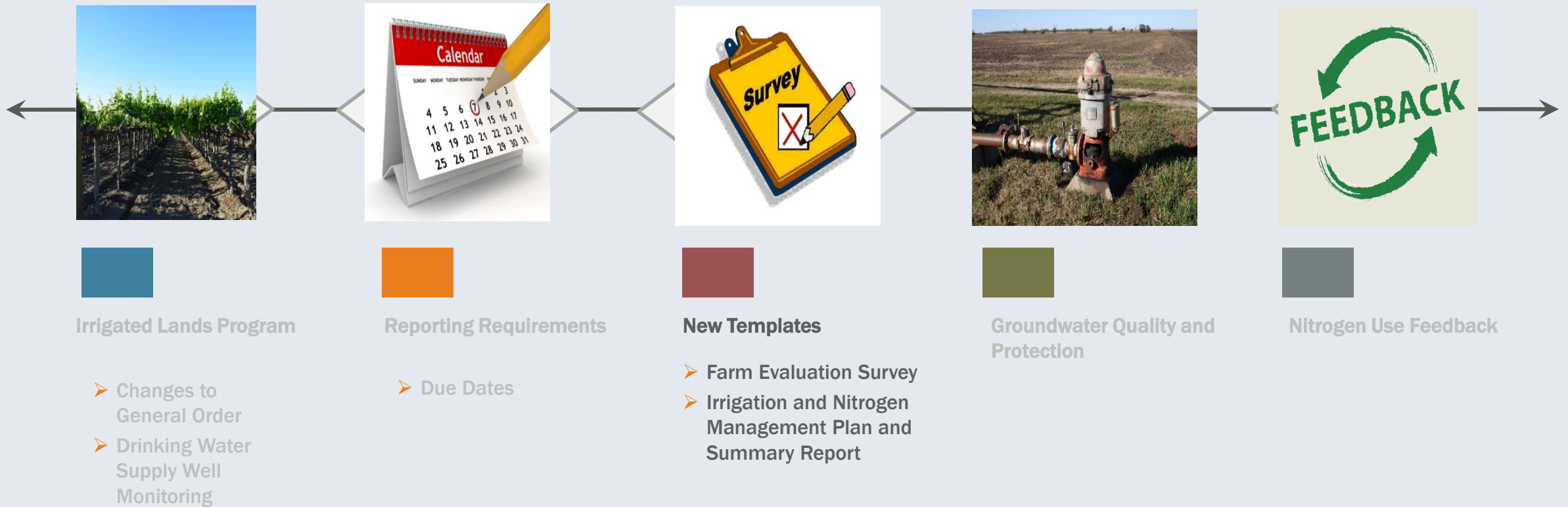
■ Payments

- 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

NITROGEN MANAGEMENT PLAN WORKSHEET				
1. Crop Year, (Harvested)	2018	4. APN(s):	5. Field(s) ID:	
2. Member ID#	9405	012-013-024, 012-013-025	North Block, South Block	
3. Name:	John Smith			
CROP NITROGEN MANAGEMENT PLANNING		N APPLICATIONS/CREDITS	26. Recommended/Planned N	27. Actual N
6. Crop:	Grapes	15. Nitrogen Fertilizers		
7. Production Unit:	Tons	16. Dry & Liquid N (lbs/ac)	15	15
8. Projected Yield (Units/Acre):	2.00	17. Foliar N fertilizers (lbs/ac)		
9. N Recommended (lbs/ac):	20	18. Organic Material N		
10. Acres:	60	19. Available N in Manure/Compost (lbs/ac estimate)		
Post Production Actuals		20. Total Available N Applied (lbs per acre)	15	15
11. Actual Yield (Units/Acre):	2.50	21. Nitrogen Credits (est)		
12. Total N Applied (lbs/ac):	20	22. Available N carryover in soil (annualized, lbs/ac)		
13. ** N Removed (lbs N/ac):		23. N in Irrigation water (annualized, lbs/ac)	5	5
A/Y Ratio (lbs N/unit/ac):	8.00	24. Total N Credits (lbs per acre)	5	5
14. Notes:	25. Total N Applied & Available		20	20
PLAN CERTIFICATION				
28. CERTIFIED BY:		29. CERTIFICATION METHOD		X
John Smih		30. Low Vulnerability Area, No Certification Needed		
DATE:		31. Self-Certified, approved training program attended		X
11/7/2017		32. Self-Certified, UC or NRCS site recommendation		
		33. Nitrogen Management Plan Specialist		

** Your Coalition will provide the method to be used to estimate N Removed.
Provided by the Central Valley Water Board 23 December 2014

Nitrogen Management Plan Summary Report							
Crop Harvested Year (1):		2018		Submittal Date:		03/01/18	
Member ID (2):		9405		Member Name (3):		John Smith	
	Site Location Information ¹	Crop (6)	Total Acres (10)	Total Available N Applied (20+23)	A/Y Total Available N (20+23)/Actual Yield (11) ²	Production Unit (7)	
APN (4): Field ID (5)							
1	012-013-024, 012-013-025	North Block, South Block	Grapes	60	20.00	8.00	Tons
2	0	0	0	0	0.00	#DIV/0!	0
3	0	0	0	0	0.00	#DIV/0!	0
4	0	0	0	0	0.00	#DIV/0!	0
5	0	0	0	0	0.00	#DIV/0!	0
6	0	0	0	0	0.00	#DIV/0!	0
7	0	0	0	0	0	#DIV/0!	0
8	0	0	0	0	0	#DIV/0!	0
9	0	0	0	0	0	#DIV/0!	0

CURRENT TEMPLATES

NEW FORMS – FARM EVALUATION

Section 1 – Whole Farm Evaluation

Member Name: _____ Coalition Member ID#: _____

1. Pesticide Application Practices: (Check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> County Permit Followed | <input type="checkbox"/> Monitor Wind Conditions |
| <input type="checkbox"/> Follow Label Restrictions | <input type="checkbox"/> Use Appropriate Buffer Zones |
| <input type="checkbox"/> Sensitive Areas Mapped | <input type="checkbox"/> Use Vegetated Drain Ditches |
| <input type="checkbox"/> Attend Trainings | <input type="checkbox"/> Monitor Rain Forecasts |
| <input type="checkbox"/> End of Row Shutoff When Spraying | <input type="checkbox"/> Use PCA Recommendations |
| <input type="checkbox"/> Avoid Surface Water When Spraying | <input type="checkbox"/> Chemigation |
| <input type="checkbox"/> Reapply Rinsate to Treated Field | <input type="checkbox"/> No Pesticides Applied |
| <input type="checkbox"/> Target Sensing Sprayer used | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Use Drift Control Agents | <input type="checkbox"/> Other _____ |

2. Who assists with the development of your irrigation and crop fertility plan? (Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Certified Crop Adviser (CCA) | <input type="checkbox"/> Certified Professional Agronomist (CPAg) |
| <input type="checkbox"/> Pest Control Adviser (PCA) | <input type="checkbox"/> Independently Prepared by Member |
| <input type="checkbox"/> NRCS Technical Service Provider (TSP) | <input type="checkbox"/> UCCE Farm Advisor |
| <input type="checkbox"/> Certified Professional Soil Scientist (CPSS) | <input type="checkbox"/> Certified Agricultural Irrigation Specialist |
| | <input type="checkbox"/> Other _____ |

3. Does your farm have the potential to discharge sediment to off-farm surface waters?

Circle One: Yes No

Note: Answering "yes" above will trigger the requirement of a Sediment and Erosion Control Plan for your membership. If Best Management Practices or control measures prevent sediment discharge, you should contact your Coalition to determine if you need a Sediment and Erosion Control Plan.

4. Information on your on-farm drinking water supply wells located on enrolled parcels

Indicate the number of active drinking water supply wells on each of your enrolled parcels.

NOTE: This section is for active drinking water wells only. If you have any abandoned or irrigation wells, you will need to complete Section 2.

☐ Check this box if you have no active drinking water wells on your property.

Enrolled Parcel (APN)	# of Drinking Water Wells

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel or represented Members properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment for violations.

Printed Name

Date

Signature

Section 2 – Irrigation Well and Abandoned Well Information

Member Name: _____ Coalition Member ID#: _____

1. **Irrigation Wells:** Create a unique Well ID for each irrigation well. For each well, fill in the table below with the Well ID and mark an "X" under the practices that apply to the individual well. Mark the location of your wells on the provided Farm Map(s) or your own farm map using the unique Well ID.

<input type="checkbox"/> Check this box if you have no irrigation wells on your parcel(s).						
Well ID (A unique name of your choice)	Wellhead Protection Practices					
	Ground Sloped Away from Wellhead	Standing water avoided around wellhead	Good Housekeeping Practices*	Air Gap (for non-pressurized systems)	Backflow Preventive / Check Valve	Cement Pad

*Good housekeeping practices include keeping the area surrounding the wellhead clean of trash, debris and any empty containers.

Comments: _____

2. **Abandoned Wells:** Create a unique Well ID for each abandoned well. Mark the location of your wells on the provided Farm Map(s) or your own farm map using the unique Well ID. Indicate the year the well was abandoned (write "UNK" if the year is unknown; approximation is okay) and mark how the well was destroyed with an "X" under the appropriate practice.

<input type="checkbox"/> Check this box if you have no abandoned wells on your parcel(s).				
Well ID (A unique name of your choice)	Abandoned Well Practices			
	If abandoned, year abandoned	Destroyed – certified by county	Destroyed by licensed professional	Destroyed - Unknown method

Comments: _____

NEW FORMS – FARM EVALUATION

Section 1 – Whole Farm Evaluation

Member Name: _____ Coalition Member ID#: _____

1. Pesticide Application Practices: (Check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> County Permit Followed | <input type="checkbox"/> Monitor Wind Conditions |
| <input type="checkbox"/> Follow Label Restrictions | <input type="checkbox"/> Use Appropriate Buffer Zones |
| <input type="checkbox"/> Sensitive Areas Mapped | <input type="checkbox"/> Use Vegetated Drain Ditches |
| <input type="checkbox"/> Attend Trainings | <input type="checkbox"/> Monitor Rain Forecasts |
| <input type="checkbox"/> End of Row Shutoff When Spraying | <input type="checkbox"/> Use PCA Recommendations |
| <input type="checkbox"/> Avoid Surface Water When Spraying | <input type="checkbox"/> Chemigation |
| <input type="checkbox"/> Reapply Rinsate to Treated Field | <input type="checkbox"/> No Pesticides Applied |
| <input type="checkbox"/> Target Sensing Sprayer used | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Use Drift Control Agents | <input type="checkbox"/> Other _____ |

2. Who assists with the development of your irrigation and crop fertility plan? (Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Certified Crop Adviser (CCA) | <input type="checkbox"/> Certified Professional Agronomist (CPAg) |
| <input type="checkbox"/> Pest Control Adviser (PCA) | <input type="checkbox"/> Independently Prepared by Member |
| <input type="checkbox"/> NRCS Technical Service Provider (TSP) | <input type="checkbox"/> UCCE Farm Advisor |
| <input type="checkbox"/> Certified Professional Soil Scientist (CPSS) | <input type="checkbox"/> Certified Agricultural Irrigation Specialist |
| | <input type="checkbox"/> Other _____ |

3. Does your farm have the potential to discharge sediment to off-farm surface waters?

Circle One: Yes No

Note: Answering "yes" above will trigger the requirement of a Sediment and Erosion Control Plan for your membership. If Best Management Practices or control measures prevent sediment discharge, you should contact your Coalition to determine if you need a Sediment and Erosion Control Plan.

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Indicate the number of active drinking water supply wells on each of your enrolled parcels.

NOTE: This section is for active drinking water wells only. If you have any abandoned or irrigation wells, you will need to complete Section 2.

☐ Check this box if you have no active drinking water wells on your property.

Enrolled Parcel (APN)	# of Drinking Water Wells

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel or represented Members properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment for violations.

Printed Name

Date

Signature

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Member Name: _____ Coalition Member ID#: _____

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<input type="checkbox"/> Check this box if you have no irrigation wells on your parcel(s).						
Well ID (A unique name of your choice)	Wellhead Protection Practices					
	Ground Sloped Away from Wellhead	Standing water avoided around wellhead	Good Housekeeping Practices*	Air Gap (for non-pressurized systems)	Backflow Preventive / Check Valve	Cement Pad

*Good housekeeping practices include keeping the area surrounding the wellhead clean of trash, debris and any empty containers.

Comments: _____

2. **Abandoned Wells:** Create a unique Well ID for each abandoned well. Mark the location of your wells on the provided Farm Map(s) or your own farm map using the unique Well ID. Indicate the year the well was abandoned (write "UNK" if the year is unknown; approximation is okay) and mark how the well was destroyed with an "X" under the appropriate practice.

<input type="checkbox"/> Check this box if you have no abandoned wells on your parcel(s).				
Well ID (A unique name of your choice)	Abandoned Well Practices			
	If abandoned, year abandoned	Destroyed – certified by county	Destroyed by licensed professional	Destroyed - Unknown method

Comments: _____

NEW FORMS – FARM EVALUATION



- 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 NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

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	2. Crop Evapotranspiration (ET, inches)	
<input type="checkbox"/>	<input type="checkbox"/>	3. Anticipated Crop Irrigation (inches)	
<input type="checkbox"/>	<input type="checkbox"/>	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)	
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>		
5. Irrigation Efficiency Practices* (Check all that apply)			
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe	
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb	
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____	
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<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)		Recommended/Planned N (A)	Actual N (B)
9. Soil – Available N in Root Zone (Annualized, lbs/ac)			
10. N in Irrigation Water* (Annualized, lbs/ac)			
11. Organic Amendments* (Manure/Compost/Other, lbs/ac estimate)			
12. Dry/Liquid Fertilizer N* (lbs/ac)			
13. Foliar Fertilizer N* (lbs/ac)			
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.

Plan Certifier Initials

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: _____ Forms Completed By: _____ Crop Year (Harvested): _____ Submittal Date: _____	On (Date) _____ the Coalition provided information about this membership's nitrogen efficiency for the previous crop year and identified management units that were considered outliers compared to other Coalition members growing the same crop. Please check the box below if you were identified as an outlier by the Coalition. <input type="checkbox"/>	<input type="checkbox"/> Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA training program) <input type="checkbox"/> Self-Certified (CDFA training program) <input type="checkbox"/> Self-Certified (follows NRCS or UC Cooperative Extension site-specific recommendations) <input type="checkbox"/> 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	Crop	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)	

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

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).

Field or MU	Primary Irrigation Method (Select one)						Secondary Irrigation Method (Select one)					
	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood	Drip	Micro Sprinkler	Furrow	Sprinkler	Border Strip	Flood
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Field or MU	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
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Field or MU	Nitrogen Efficiency Practices (Check all that 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
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

- 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: _____ INMP Field or MU: _____ Crop: _____ Total Acres: _____

IRRIGATION MANAGEMENT				
1. Irrigation Method*		Pre-Season Planning		
(check one for Primary; if applicable, check one for Secondary)		2. Crop Evapotranspiration (ET, inches)		
Primary	Secondary ¹	3. Anticipated Crop Irrigation (inches)		
<input type="checkbox"/>	<input type="checkbox"/>	Drip		
<input type="checkbox"/>	<input type="checkbox"/>	Micro Sprinkler		
<input type="checkbox"/>	<input type="checkbox"/>	Furrow		
<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler		
<input type="checkbox"/>	<input type="checkbox"/>	Border Strip		
<input type="checkbox"/>	<input type="checkbox"/>	Flood		
4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)				
5. Irrigation Efficiency Practices* (Check all that apply)				
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe		
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb		
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____		
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<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)	Actual N (B)
<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 (lbs/ac)		
<input type="checkbox"/> Cover Crops				
<input type="checkbox"/> Variable Rate Applications using GPS				
<input type="checkbox"/> Other: _____				
<input type="checkbox"/> Other: _____				

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.

Plan Certifier Initials

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

- 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: _____ INMP Field or MU: _____ Crop: _____ Total Acres: _____

IRRIGATION MANAGEMENT				
1. Irrigation Method*		Pre-Season Planning		
(check one for Primary; if applicable, check one for Secondary)		2. Crop Evapotranspiration (ET, inches)		
Primary	Secondary ¹	3. Anticipated Crop Irrigation (inches)		
<input type="checkbox"/>	<input type="checkbox"/>	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)		
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
5. Irrigation Efficiency Practices* (Check all that apply)				
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe		
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb		
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____		
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<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)
				Actual N (B)
<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 (lbs/ac)		
<input type="checkbox"/> Cover Crops				
<input type="checkbox"/> Variable Rate Applications using GPS				
<input type="checkbox"/> Other: _____				
<input type="checkbox"/> Other: _____				

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.

Plan Certifier Initials

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

- 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: _____ 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"/>	Drip		
<input type="checkbox"/>	<input type="checkbox"/>	Micro Sprinkler		
<input type="checkbox"/>	<input type="checkbox"/>	Furrow		
<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler		
<input type="checkbox"/>	<input type="checkbox"/>	Border Strip		
<input type="checkbox"/>	<input type="checkbox"/>	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)				
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe		
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb		
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____		
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<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)	Actual N (B)
<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 (lbs/ac)		
<input type="checkbox"/> Cover Crops				
<input type="checkbox"/> Variable Rate Applications using GPS				
<input type="checkbox"/> Other: _____				
<input type="checkbox"/> Other: _____				

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.


Plan Certifier Initials

AgLine – Kings River Conservation District - Google Chrome

← → ↻ ⓘ Not secure | krcd.org/agline/

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⋮



www.krcd.org/agline

Our Work

Our People

Our Stories

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AgLine

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AgLine Crop Water Use

The AgLine information system provides crop water use information for the Kings River service area. Information provided for each crop includes:

- Crop water use for the past 7 days
- Predicted water use for the next 7 days
- Total crop water use season to date

These numbers, updated weekly, can be used to assist growers in irrigation management decisions. AgLine includes crop water use data for 31 cropping cases.

Click the tabs below to view specific crop water use information.

Field and Row Crops Water Use

⊕ Alfalfa
⊕ April Beans
⊕ May Beans
⊕ June Beans
⊕ Corn
⊕ Early April Cotton
⊕ Mid April Cotton
⊕ Early May Cotton

Tree and Vine Water Use

⊕ Early Almonds
⊕ Late Almonds
⊕ Citrus
⊕ Olives
⊕ Grapes, Single Wire
⊕ Grapes, 4 ft Crossarm
⊕ Kiwis
⊕ Pistachios

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

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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. 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"/>	Drip			
<input type="checkbox"/>	<input type="checkbox"/>	Micro Sprinkler			
<input type="checkbox"/>	<input type="checkbox"/>	Furrow			
<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler			
<input type="checkbox"/>	<input type="checkbox"/>	Border Strip			
<input type="checkbox"/>	<input type="checkbox"/>	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)					
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe			
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb			
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____			
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<input type="checkbox"/> Other _____			
Harvest / Yield Information				Expected (A)	Actual (B)
6. Production Unit (lbs, tons, etc.)		7. Harvested Yield*			
NITROGEN MANAGEMENT				Recommended/Planned N (A)	Actual N (B)
8. Nitrogen Efficiency Practices* (Check all that apply)		Nitrogen Sources			
<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 (lbs/ac)			
<input type="checkbox"/> Cover Crops					
<input type="checkbox"/> Variable Rate Applications using GPS					
<input type="checkbox"/> Other: _____					
<input type="checkbox"/> Other: _____					

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.

Plan Certifier Initials


NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

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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)		
Primary	Secondary	
<input type="checkbox"/>	<input type="checkbox"/>	Drip
<input type="checkbox"/>	<input type="checkbox"/>	Micro Sprinkler
<input type="checkbox"/>	<input type="checkbox"/>	Furrow
<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler
<input type="checkbox"/>	<input type="checkbox"/>	Border Strip
<input type="checkbox"/>	<input type="checkbox"/>	Flood
<input type="checkbox"/> Laser Leveling <input type="checkbox"/> Use of ET in scheduling irrigation <input type="checkbox"/> Water application schedule <input type="checkbox"/> Use of moisture probe (electronic)		
6. Production Unit (lbs, tons, etc.)		
8. Nitrogen Efficiency (Check all that apply)		
<input type="checkbox"/> Split Fertilizer Application <input type="checkbox"/> Irrigation Water N Testing <input type="checkbox"/> Soil Testing <input type="checkbox"/> Tissue/Petiole Testing <input type="checkbox"/> Fertigation <input type="checkbox"/> Foliar N Application <input type="checkbox"/> Cover Crops <input type="checkbox"/> Variable Rate Application <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____		



The image shows a First Alert Drinking Water Test Kit box positioned over a kitchen sink. The box features a blue background with a red top band. It displays an illustration of water flowing from a chrome faucet into a clear glass. On the right side of the box, under the heading "Tests To EPA Standards," there is a checklist of items tested: Bacteria, Lead, Pesticides, Nitrate/Nitrite, Chlorine, Hardness, and pH. A prominent red arrow points directly at this list.

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.

Plan Certifier Initials

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

- Grouped by Field or Management Unit
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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. Irrigation Method*		Pre-Season Planning		
(check one for Primary; if applicable, check one for Secondary)		2. Crop Evapotranspiration (ET, inches)		
Primary	Secondary	3. Anticipated Crop Irrigation (inches)		
<input type="checkbox"/>	<input type="checkbox"/>	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)		
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
5. Irrigation Efficiency Practices* (Check all that apply)				
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe		
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb		
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____		
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<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)	Actual N (B)
<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 (lbs/ac)		
<input type="checkbox"/> Cover Crops				
<input type="checkbox"/> Variable Rate Applications using GPS				
<input type="checkbox"/> Other: _____				
<input type="checkbox"/> Other: _____				

* 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

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

- Grouped by Field or Management Unit
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 - 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

The screenshot shows the homepage of the agmpep.com website. The navigation bar at the top includes links for Urgent Practices, NMP, Events, Resources (highlighted with a red circle), Projects, and About. The main content area features a welcome message and a list of coalitions. Below this is a calendar of events for the week of September 16, 2019.

Events for week of September 16, 2019

Mon 16th	Tue 17th	Wed 18th	Thu 19th	Fri 20th	Sat 21st	Sun 22nd
No Events Today	Small Farms Groundwater Management Workshop September 17 @ 10:00 am - 4:00 pm Kern County Farm UG Watered Blog	Fertilizer Type, Use, and Methods of Monitoring Fertilizer Status in a Nursery Operation September 18 @ 8:00 am - 5:00 pm Target Specialty Products	Annual Alfalfa and Forage Field Day September 19 @ 8:00 am - 1:00 pm Kern County Farm UG Watered Blog	No Events Today	No Events Today	No Events Today
		Agronomy Online Courses September 18 @ 8:00 am				
		Fertilizers: Types, Use, and Methods of Monitoring Fertilizer Status in a Nursery Operation September 18 @ 8:00 am - 5:00 pm Target Specialty Products				



1 > Specify Single or Multiple Water Source:

- ☒ Single (Irrigation)
- ☐ Multiple (e.g., Surface Water and Groundwater)

[Start Over](#)

2 > Enter Irrigation Water Nitrogen Concentration (mg/L, same as ppm): ⓘ

Water Source 1 (e.g., Surface Water)

Nitrate:

☒ (NO₃)-N ☐ (NO₃)☐ Other N in Water ⓘ

Mineral N in Water (mg/L):

3 > Calculate Applied Water: ⓘ

Water Source 1

A > Specify your delivery information: ⓘ

☒ Volume

B > Enter Inputs (disabled inputs are auto-calculated):

Volume (acre-feet)

Area Irrigated (acres):

Applied Water (depth, inches)

4 > Enter Estimated Irrigation % Efficiency: ⓘ

Water Source 1

% of Applied Water:

🔧 Calculation Result:

N (pounds of N per acre) in Applied Water (as input in Step 3):

NEW FORMS – IRRIGATION AND NITROGEN MANAGEMENT PLAN

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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. Irrigation Method*		Pre-Season Planning		
(check one for Primary; if applicable, check one for Secondary)		2. Crop Evapotranspiration (ET, inches)		
Primary	Secondary ¹	3. Anticipated Crop Irrigation (inches)		
<input type="checkbox"/>	<input type="checkbox"/>	Drip		
<input type="checkbox"/>	<input type="checkbox"/>	Micro Sprinkler		
<input type="checkbox"/>	<input type="checkbox"/>	Furrow		
<input type="checkbox"/>	<input type="checkbox"/>	Sprinkler		
<input type="checkbox"/>	<input type="checkbox"/>	Border Strip		
<input type="checkbox"/>	<input type="checkbox"/>	Flood		
4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)				
5. Irrigation Efficiency Practices* (Check all that apply)				
<input type="checkbox"/> Laser Leveling		<input type="checkbox"/> Soil Moisture Neutron Probe		
<input type="checkbox"/> Use of ET in scheduling irrigations		<input type="checkbox"/> Pressure Bomb		
<input type="checkbox"/> Water application schedule to need		<input type="checkbox"/> Other _____		
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer)		<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)	Actual N (B)
<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 (lbs/ac)		
<input type="checkbox"/> Cover Crops				
<input type="checkbox"/> Variable Rate Applications using GPS				
<input type="checkbox"/> Other: _____				
<input type="checkbox"/> Other: _____				

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.

Plan Certifier Initials

NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

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 and identified management units that were considered outliers compared to other Coalition members growing the same crop.	<input type="checkbox"/> Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA training program)
Forms Completed By: _____		<input type="checkbox"/> Self-Certified (CDFA training program)
Crop Year (Harvested): _____	Please check the box below if you were identified as an outlier by the Coalition.	<input type="checkbox"/> Self-Certified (follows NRCS or UC Cooperative Extension site-specific recommendations)
Submittal Date: _____	<input type="checkbox"/>	<input type="checkbox"/> 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.*

[illegible]

*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 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).

[illegible][illegible][illegible]

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 Changes 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: _____ Forms Completed By: _____ Crop Year (Harvested): _____ Submittal Date: _____	On (Date) _____, the Coalition provided information about this membership's nitrogen efficiency for the previous crop year and identified management units that were considered outliers compared to other Coalition members growing the same crop. Please check the box below if you were identified as an outlier by the Coalition. <input type="checkbox"/>	<input type="checkbox"/> Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA training program) <input type="checkbox"/> Self-Certified (CDFA training program) <input type="checkbox"/> Self-Certified (follows NRCS or UC Cooperative Extension site-specific recommendations) <input type="checkbox"/> 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	Crop	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)	

*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 Changes 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

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
<p>Member ID: _____</p> <p>Forms Completed By: _____</p> <p>Crop Year (Harvested): _____</p> <p>Submittal Date: _____</p>	<p>On (Date) _____, the Coalition provided information about this membership's nitrogen efficiency for the previous crop year and identified management units that were considered outliers compared to other Coalition members growing the same crop.</p> <p>Please check the box below if you were identified as an outlier by the Coalition.</p> <p style="text-align: center;"><input type="checkbox"/></p>	<p><input type="checkbox"/> Certified INMP Specialist (e.g. certified crop adviser who has completed the CDFA training program)</p> <p><input type="checkbox"/> Self-Certified (CDFA training program)</p> <p><input type="checkbox"/> Self-Certified (follows NRCS or UC Cooperative Extension site-specific recommendations)</p> <p><input type="checkbox"/> Self-Certified (No fertilizers applied)</p>

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.*

[illegible]

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NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

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 - 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.

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Refer to Parcel Inventory		Perennial only (years)	(acres)					Harvested Yield (lbs/acre or tons/acre)	(lbs or tons)	

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NEW FORMS – IRRIGATION AND NITROGEN SUMMARY REPORT

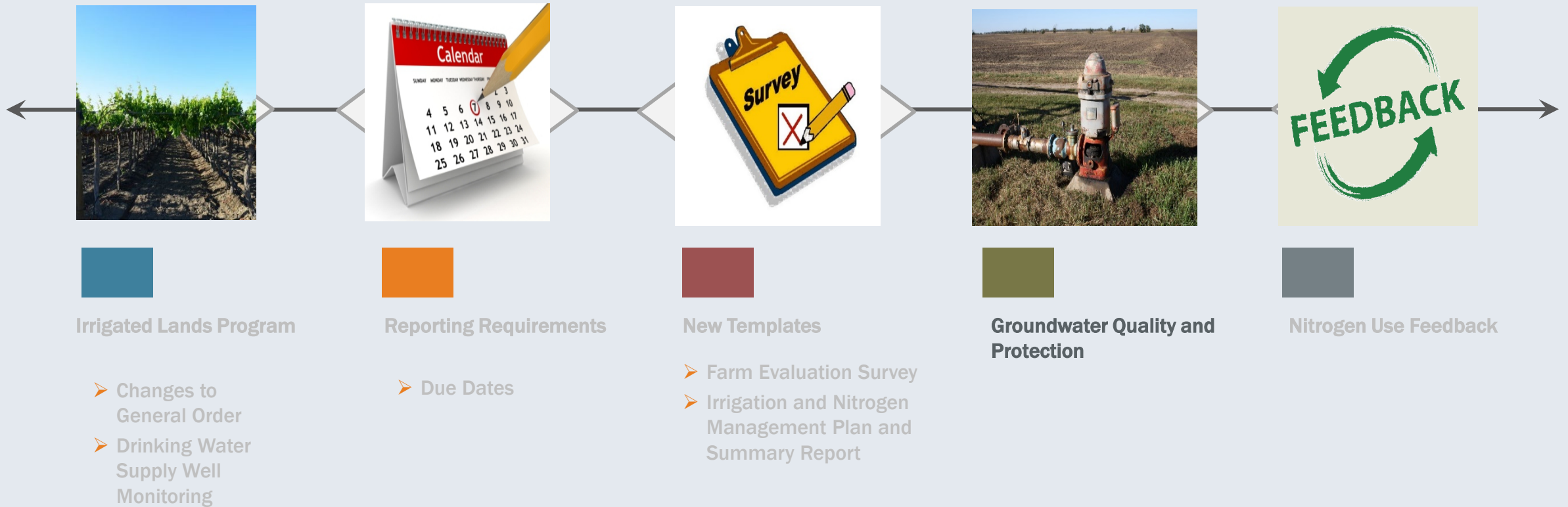
- Practices Used in each Field or Management Unit
- Information requested:
 - Irrigation Method
 - Irrigation Efficiency
 - Nitrogen Efficiency
- Updated and Reported Yearly

IRRIGATION & NITROGEN MANAGEMENT PRACTICES

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

[illegible][illegible][illegible]

TODAY'S AGENDA



GROUNDWATER QUALITY MONITORING



A9F0093

Groundwater Program 2018 - 2019

Groundwater Program 2018 - 2019

Certificate of Analysis

Sample ID: A9F0093-23

Sampled By: Eric Athorp

Sample Description: TM14S22E02 // KRWQC00023

Sample Date - Time: 06/27/19 - 10:05

Matrix: Ground Water

Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Bicarbonate as CaCO ₃	SM 2320 B	70		3.0	mg/L	1	A909153	06/28/19	06/28/19	
Carbonate as CaCO ₃	SM 2320 B	ND		3.0	mg/L	1	A909153	06/28/19	06/28/19	
Nitrate as N	EPA 300.0	2.2	0.099	0.23	mg/L	1	A909190	06/28/19 20:06	06/28/19	
Total Dissolved Solids	SM 2540C	150		5.0	mg/L	1	A909371	07/03/19	07/09/19	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Boron	EPA 200.7	ND	0.046	0.10	mg/L	1	A909289	07/02/19	07/03/19	
Calcium	EPA 200.7	14	0.046	0.10	mg/L	1	A909289	07/02/19	07/03/19	
Magnesium	EPA 200.7	10	0.046	0.10	mg/L	1	A909289	07/02/19	07/03/19	
Potassium	EPA 200.7	1.7	0.91	2.0	mg/L	1	A909289	07/02/19	07/03/19	
Sodium	EPA 200.7	13	0.45	1.0	mg/L	1	A909289	07/02/19	07/03/19	

GROUNDWATER QUALITY MONITORING

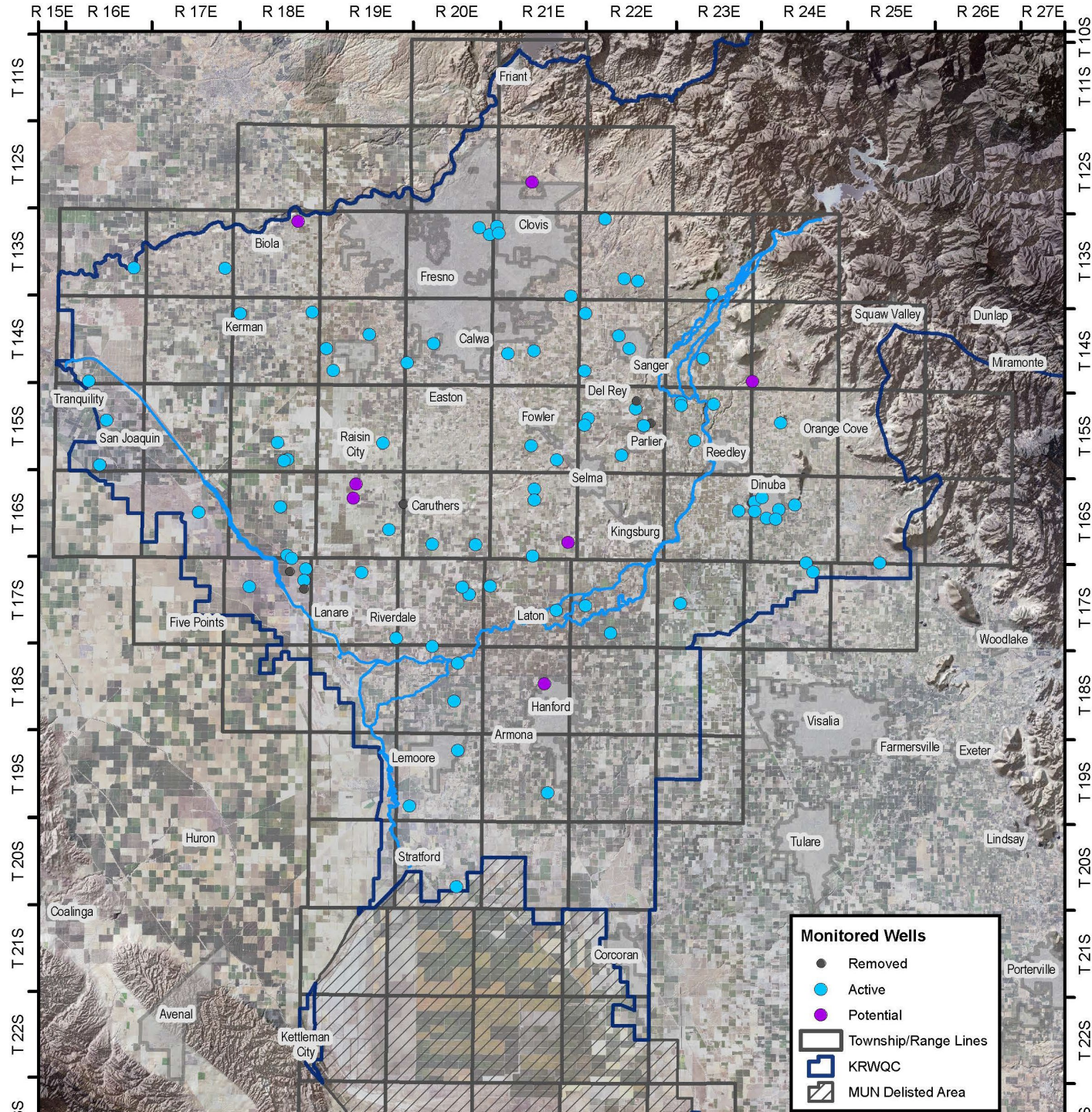


- Two Separate Groundwater Monitoring Requirements now in effect
 - 1: Domestic Drinking Water Well Testing
 - 2: Groundwater Trend Monitoring Plan
- Testing of Irrigation Wells within the High Vulnerability Area is recommended

GROUNDWATER QUALITY TREND MONITORING



- Annual Survey of Groundwater Quality
 - Mid-Late June Survey Period
- Mix of Shallow 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

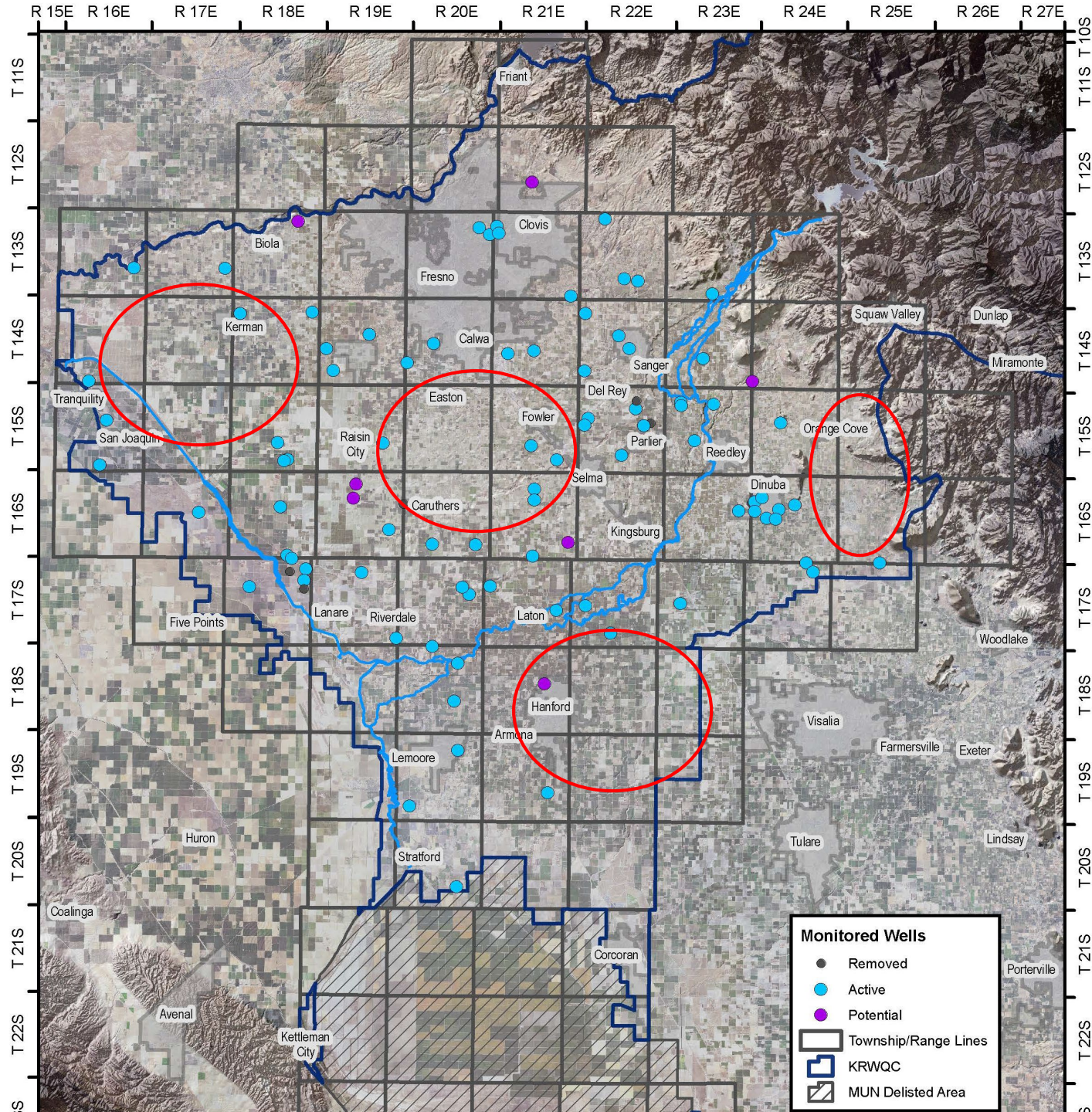


GROUNDWATER TREND MONITORING NETWORK

-Used to develop
water quality
trends over time

-Need to resolve
spatially

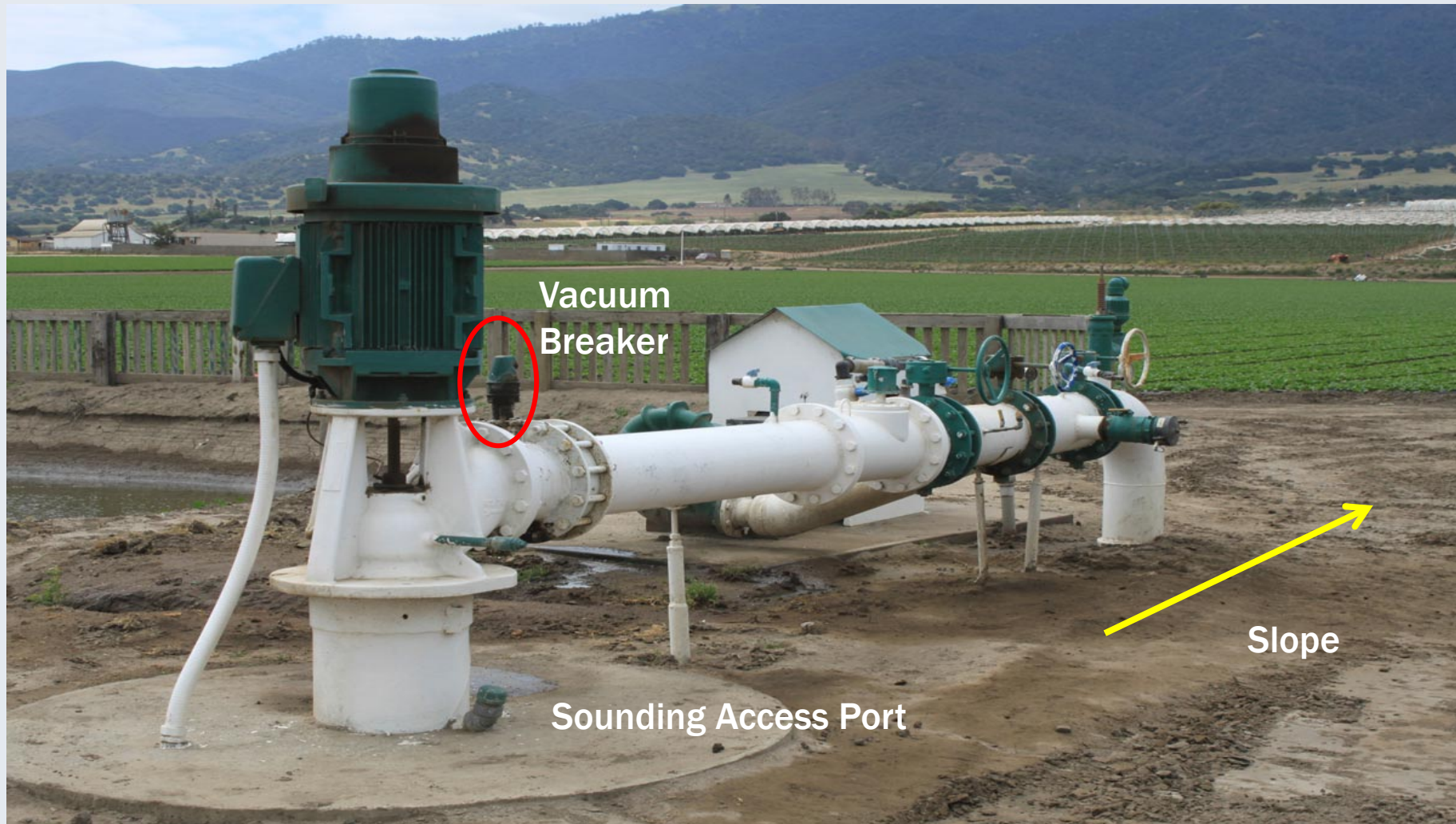
-Sampling will
take place in late
June/early July



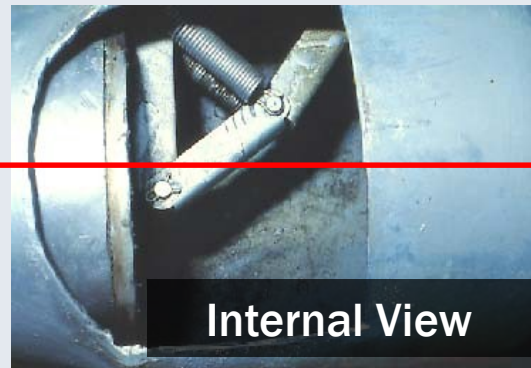
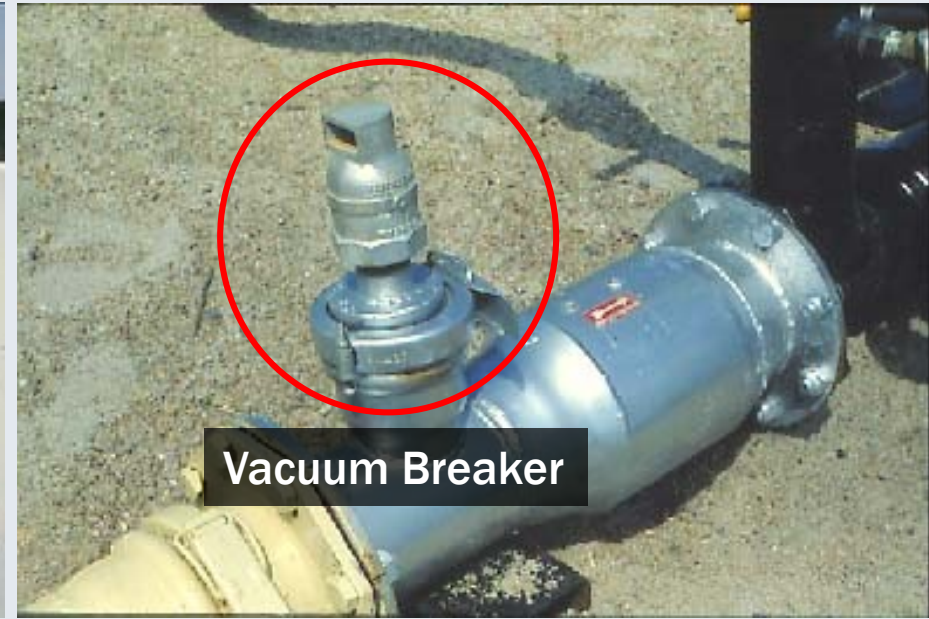
GROUNDWATER TREND MONITORING NETWORK

-Areas of Interest

WELLHEAD PROTECTION



WELLHEAD PROTECTION



Pump on Flow Direction

WELLHEAD PROTECTION

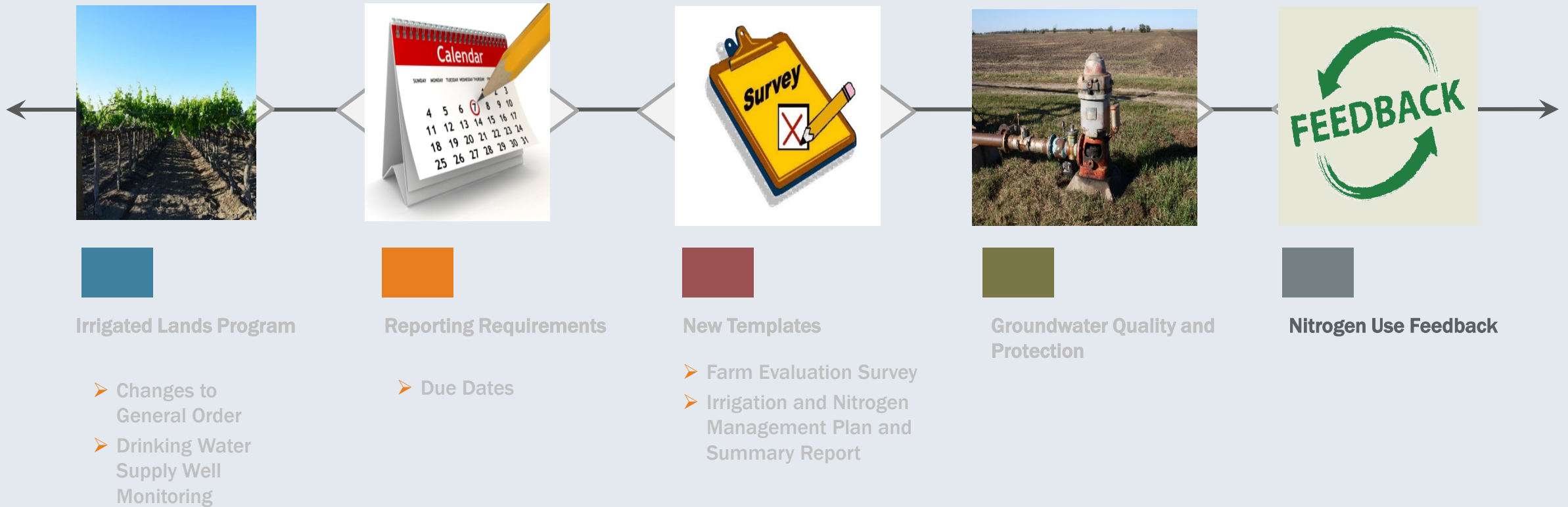


ADDITIONAL RESOURCES



- 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

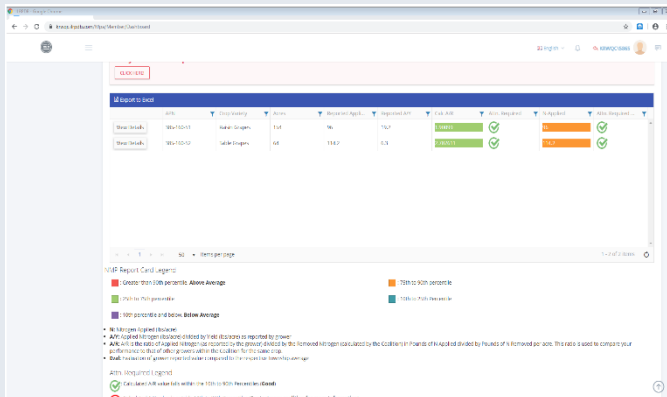
TODAY'S AGENDA



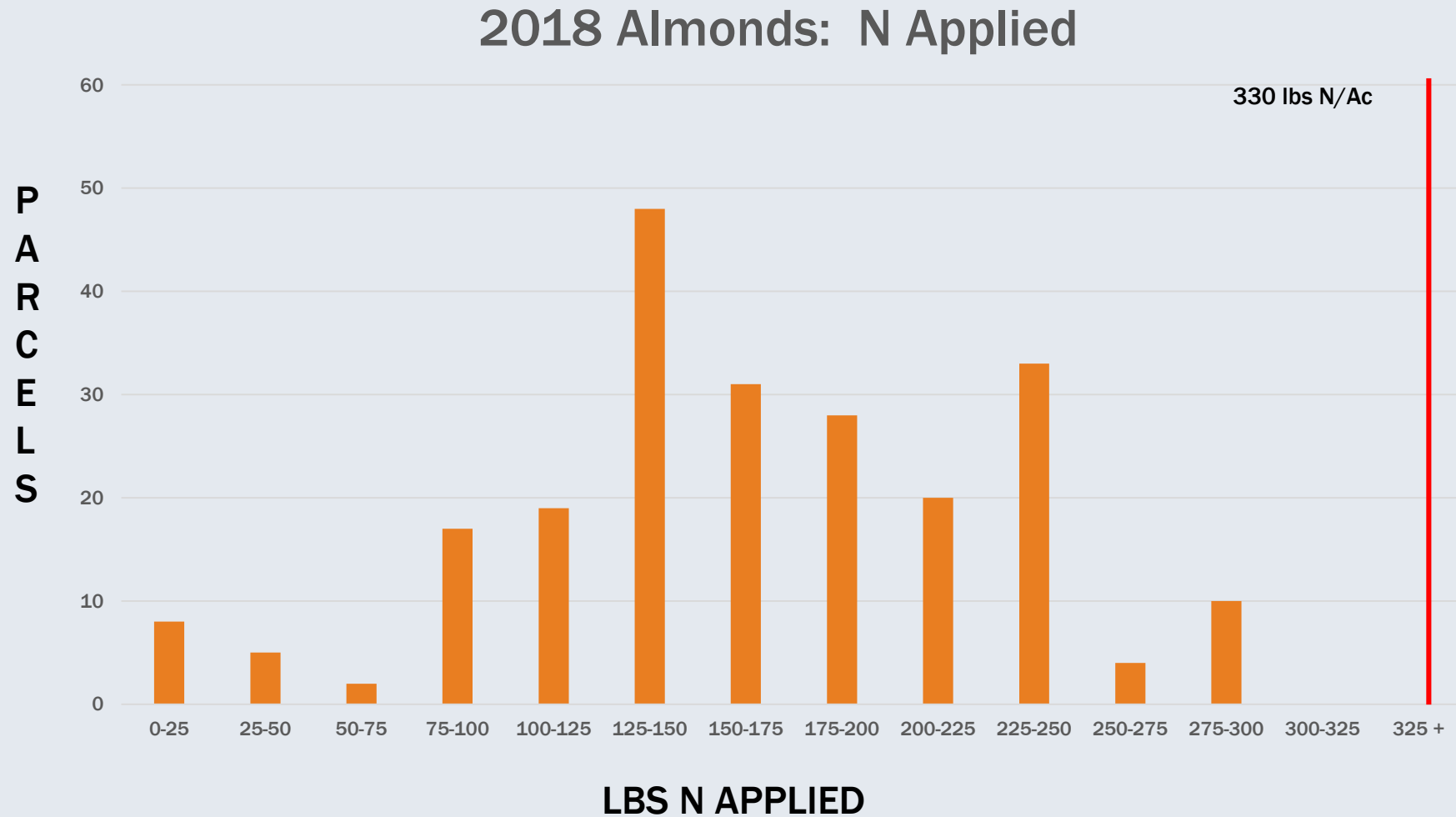
NITROGEN USAGE FEEDBACK



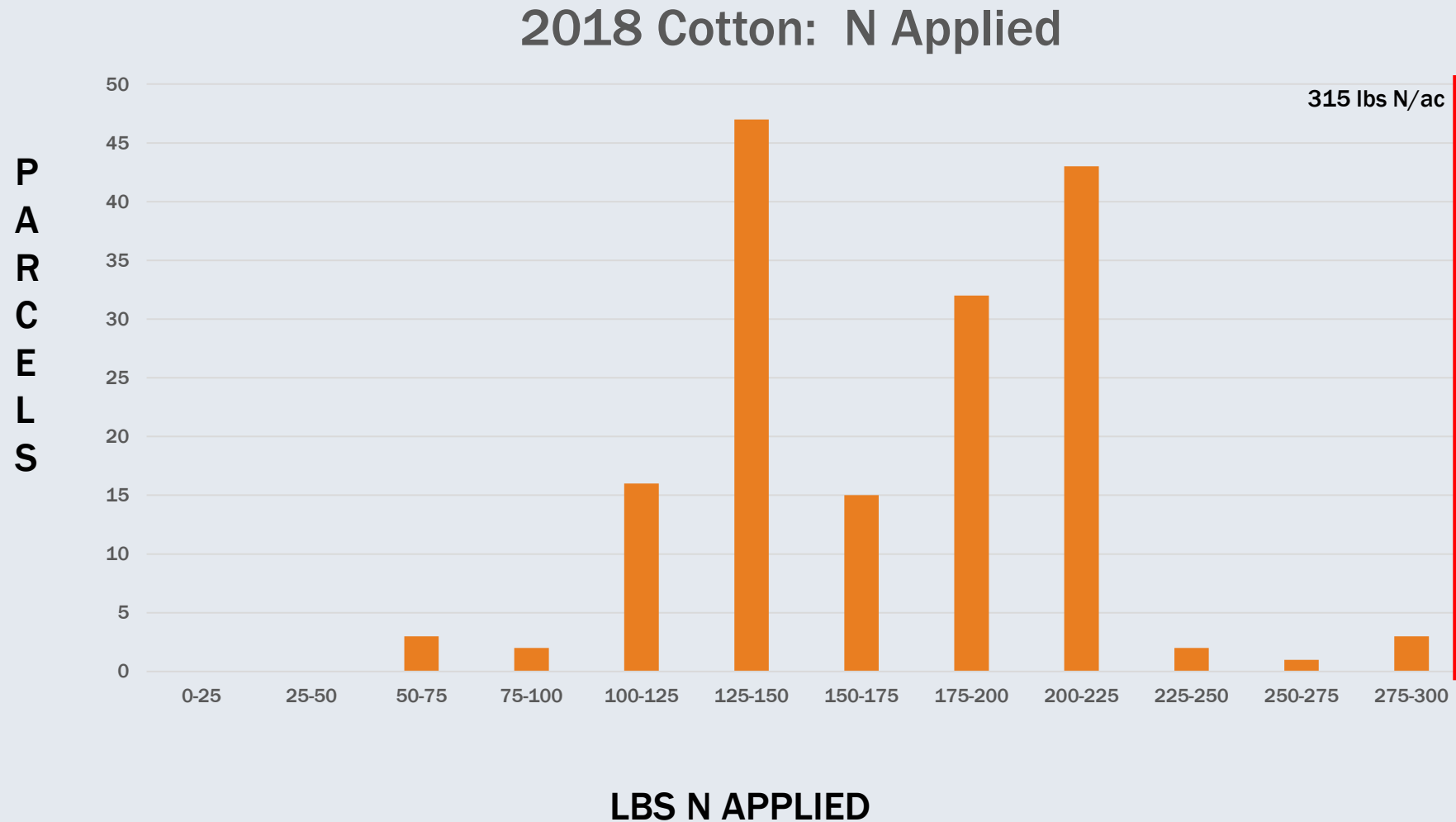
- Coalitions are Required to Analyze and Discuss Nitrogen Application Trends
- How Growers Compare to Others within a Township
 - If Applied/Removed (A/R) is beyond a calculated value (based on data received), parcel would be designated an “outlier”
 - Any metric can be used
 - May or May Not require 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



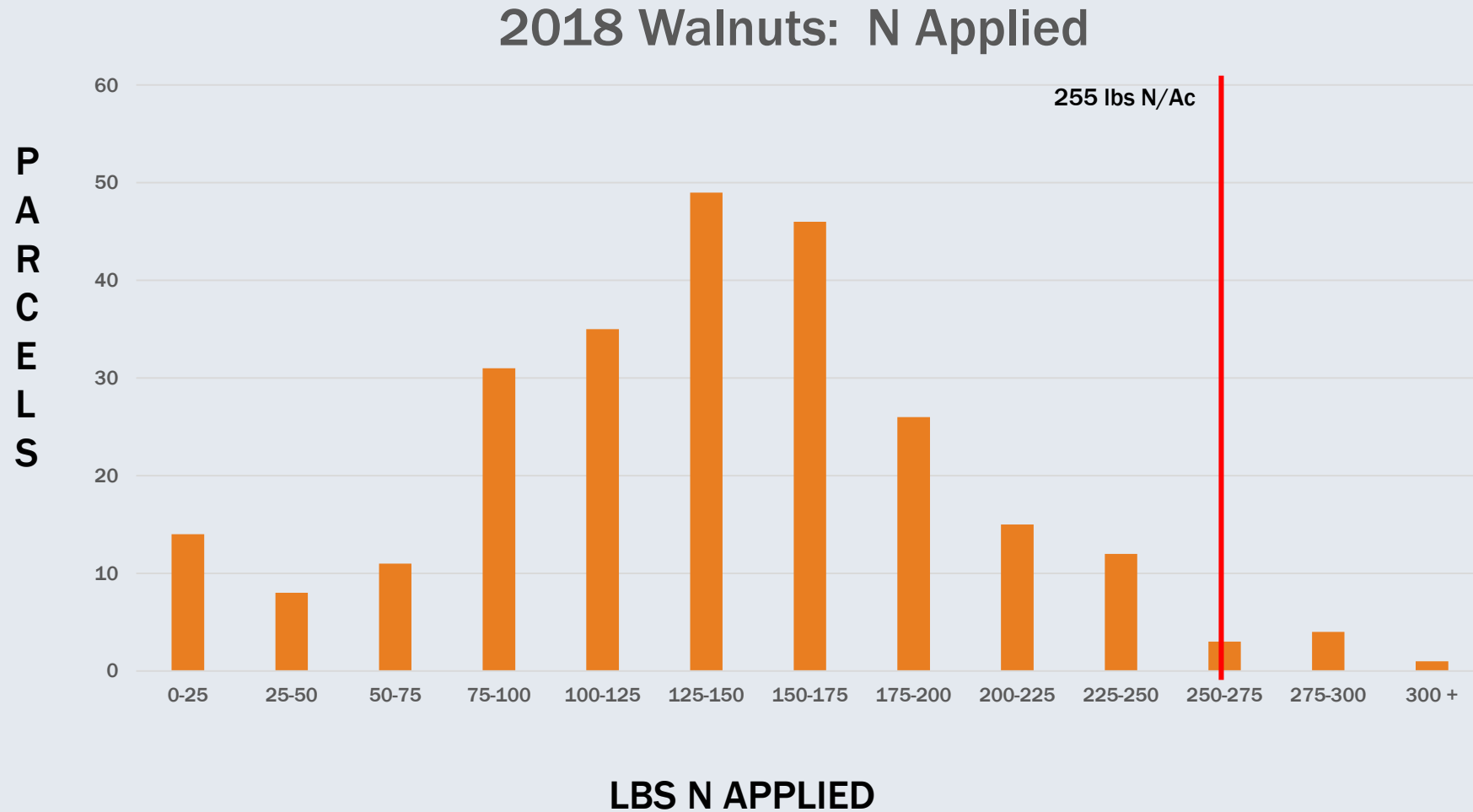
NITROGEN USAGE FEEDBACK



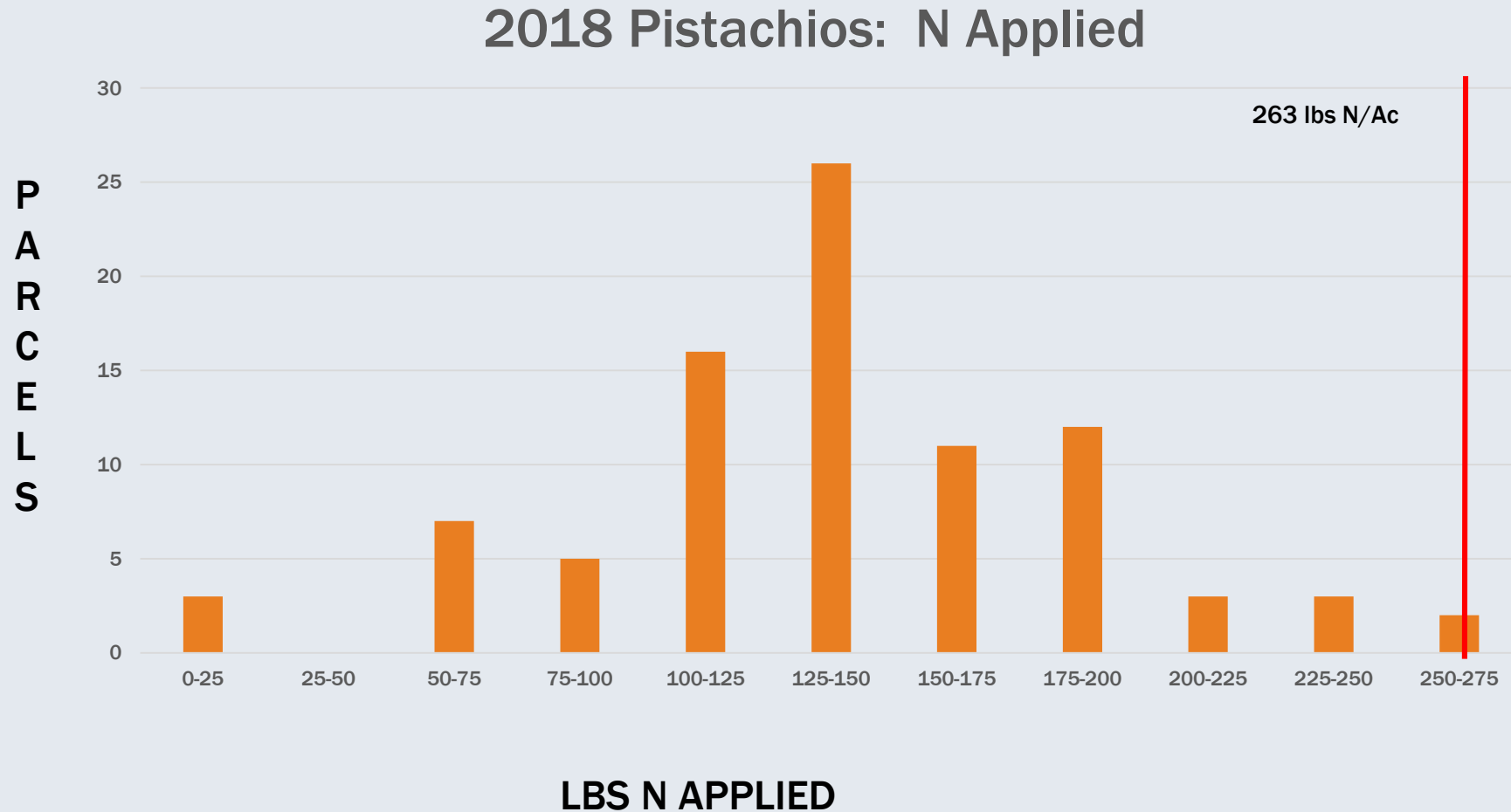
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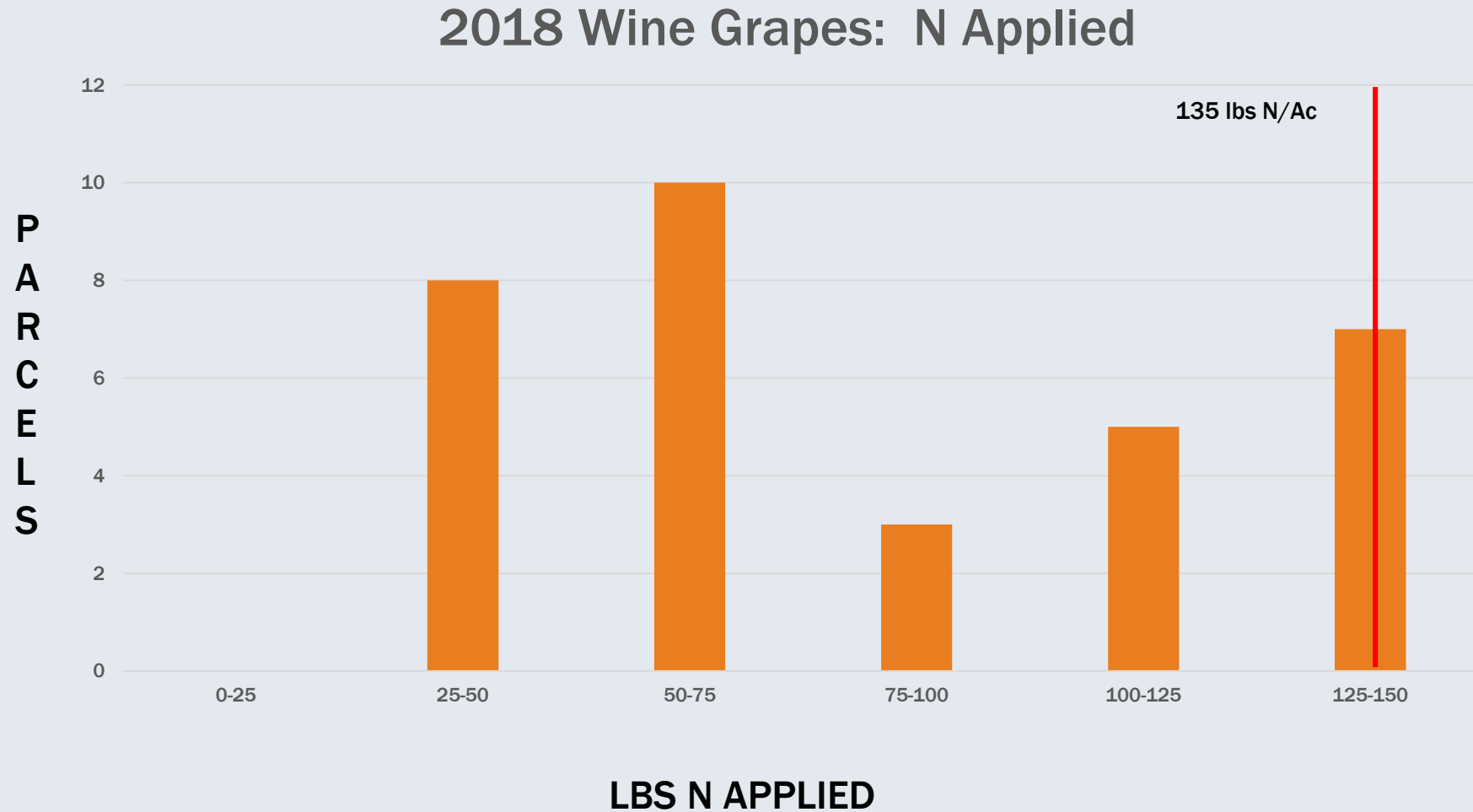
NITROGEN USAGE FEEDBACK



NITROGEN USAGE FEEDBACK



NITROGEN USAGE FEEDBACK



QUESTIONS





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