



Irrigated Lands Regulatory Program Overview and History

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Program Manager



Outline

- Program overview
- Surface water monitoring
- Monitoring & Reporting Program



State Water Board

Provides oversight of
9 semi-autonomous
regional water boards

- Reviews petitions
filed against regional
water boards
- Sets statewide
policies



Central Valley Water Board

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

- Region 5 - largest of 9
- ~ 40% of State's area
- ~2/3 of State's drinking water

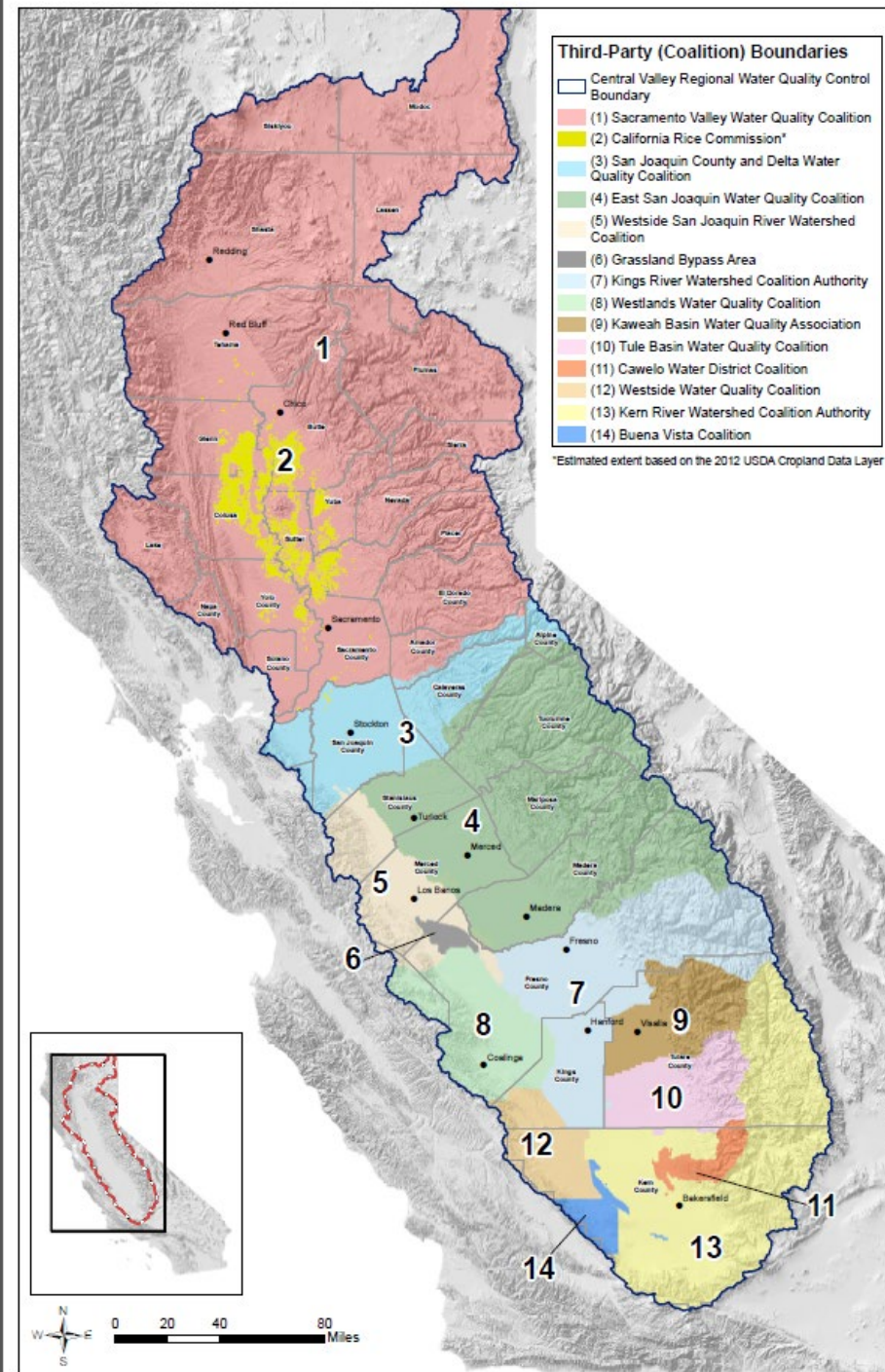
Basin Plans: Standards for water quality protection



Irrigated Lands Regulatory Program

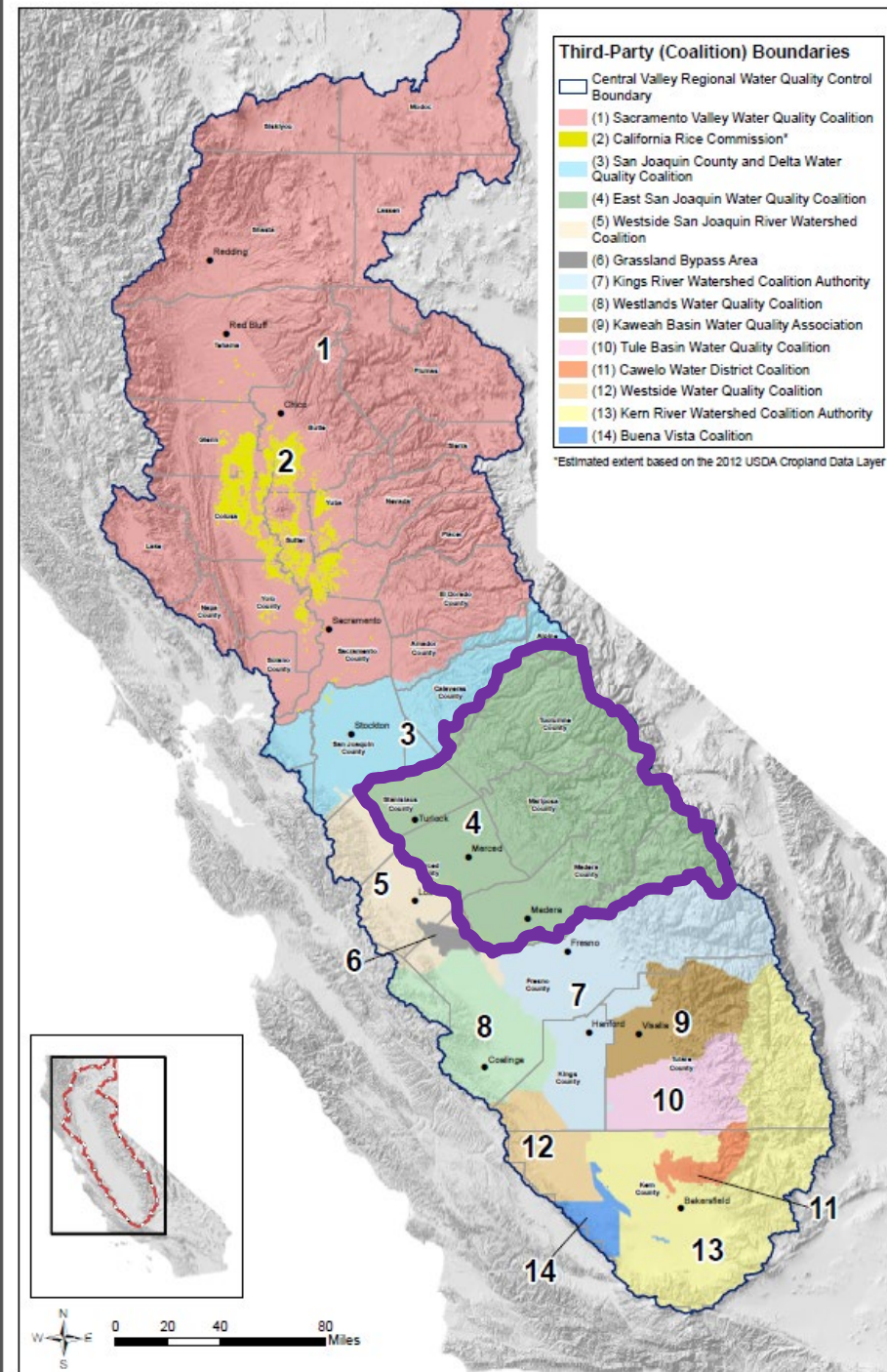
Goal: Ensure irrigated lands discharges don't impact beneficial uses

- ~75% CA irrigated ag
- > 6 million acres
- 9 General Orders
- 14 Coalitions



East San Joaquin Coalition

- ~ 700,000 acres
- ~ 3,200 members
- First General Order
- State Water Board – review of surface water monitoring framework



Growers Responsible for Compliance

- Obtain coverage
- Implement management practices
- Prepare plans and reports on practices



Coalition Responsibilities



- Assists members with compliance
- Intermediary for growers and Water Board
- Regional requirements
 - Water quality monitoring
 - Management Plans

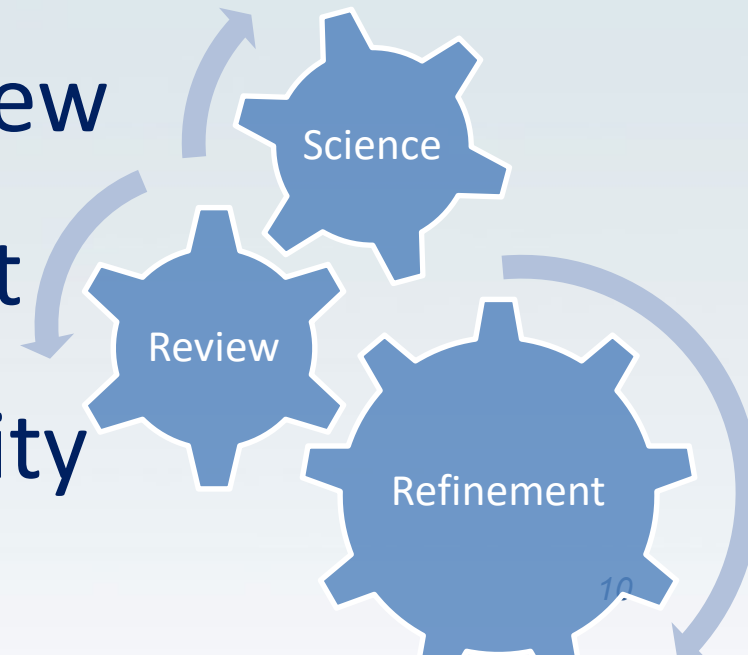
Irrigated Lands Discharges

- Nonpoint Source
- Many diffuse sources
- Challenging to define



Monitoring & Reporting Programs

- MRPs 2003, 2005, 2008, 2012
- Technical Issues Committee
- Science-based refinement
- 3rd Party Technical Review
- Public stakeholder effort
- Adaptability and flexibility



MRP Objectives

- Assess impacts from discharges
- Identify implemented practices
- Determine effectiveness of practices
- Evaluate compliance



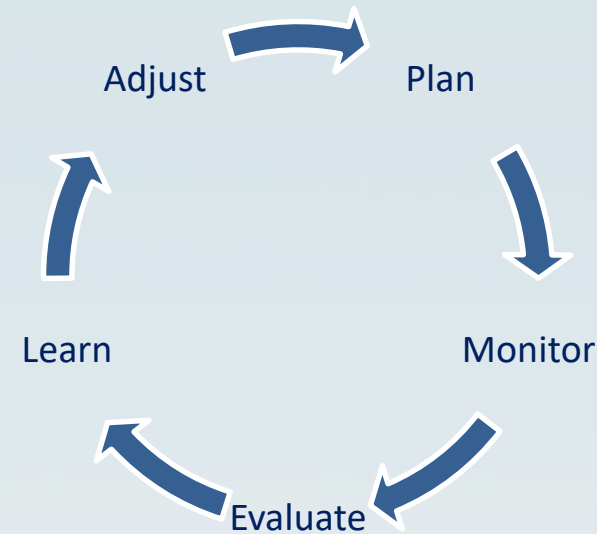
MRP Essential Requirements

- Annual monitoring plan
- Pesticides, toxicity, nutrients, metals, bacteria
- Exceedance reporting
- Annual reporting
- Management practices data



MRP Adaptive Modifications

- Remove phased monitoring
- Add exceedance reports
- Mgt Plan requirements
- Representative Framework
- Pesticide Evaluation Protocol
- Mgt Practices Implementation Report



MRP Adaptive Modification

- From 2008 to 2017
 - Static set of 27 registered pesticides
- Starting in 2018
 - Pesticide Evaluation Protocol



Pesticide Evaluation Protocol

- Pesticide Use Records
- Potential Water Quality Threat
 - Pounds of active ingredient applied
 - Aquatic toxicity
 - Human health benchmarks
 - Chemical characteristics
 - Previous monitoring data

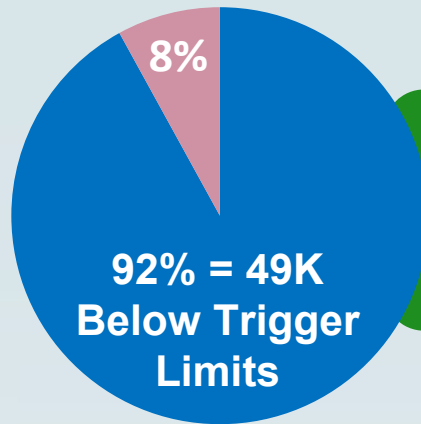


Assessment and Response

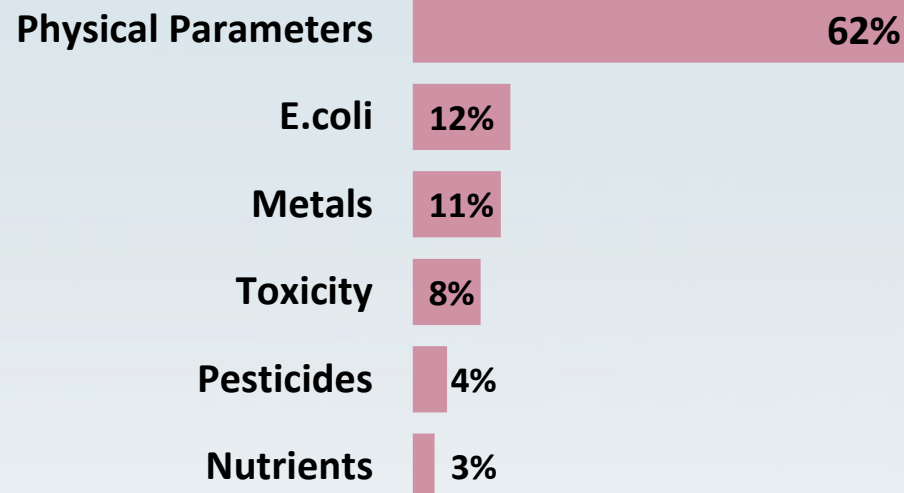
- Trigger Limits
- Management Plans
- Management Practices



Surface Water Quality Monitoring Data



2004-2018, >53,000 analytical results
Pie: 8% of tests exceed trigger Limits
Bar: % of exceedance for each category



Management Plans

- Strategies for addressing exceedances
- Developed by agricultural coalition
- Implemented by coalition and members
- Include measureable performance goals, milestones, and time-lines
- Follow-up monitoring



Management Plan Completion

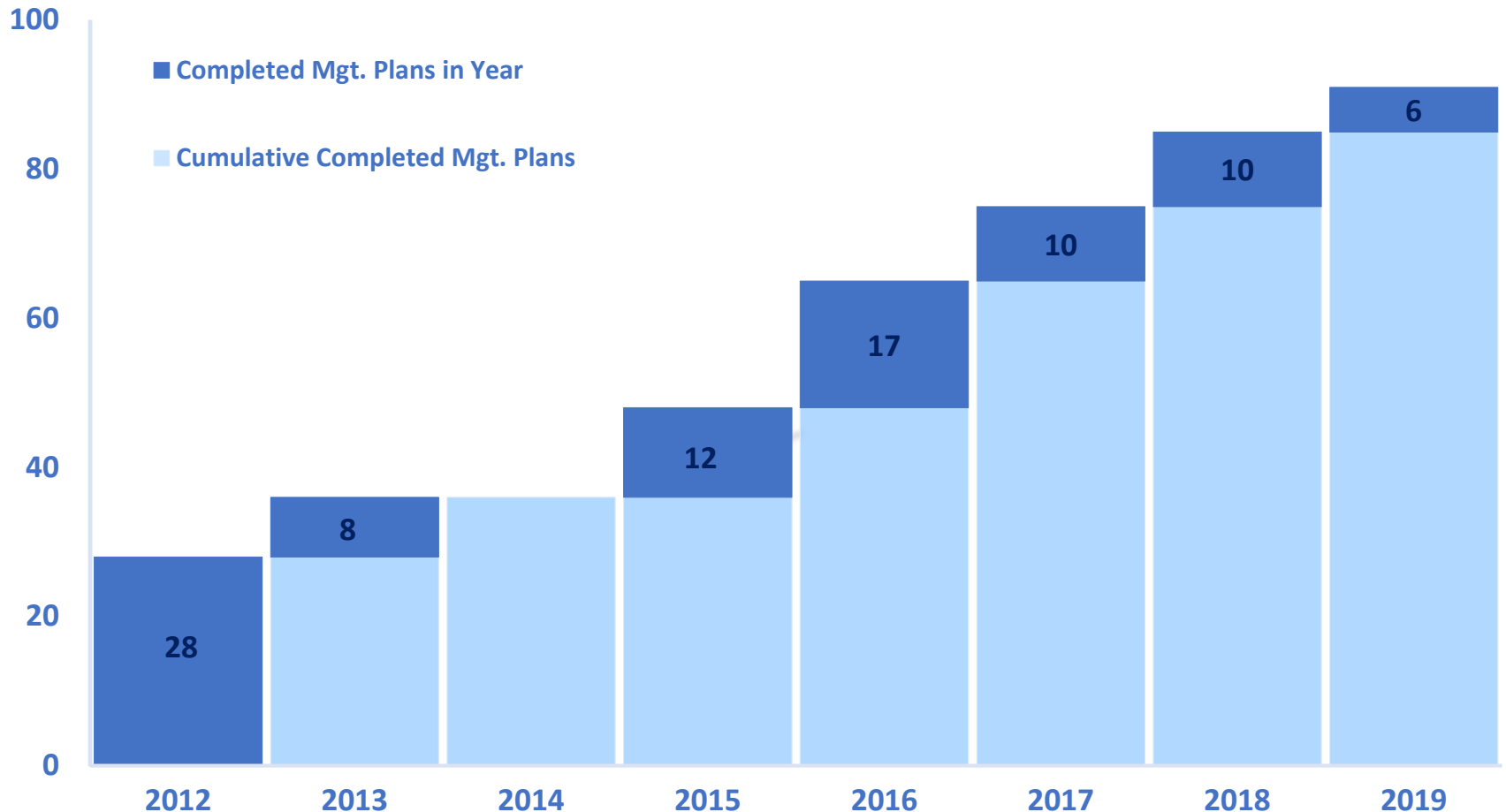
- Meet trigger(s) for 3 years
- Outreach to applicable members
- Implement practices shown to be effective

or

- Show ag does not cause or contribute



91 of 234 Management Plans Completed



Program Successes

- Management plan completions
- Improved water quality
 - Delisting of impaired waterbodies
- Recognized alternative to TMDLs



Summary

- Complex NPS program
- Significant stakeholder/technical input
- Adaptive modifications/refinements
- Program successes





Questions?

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