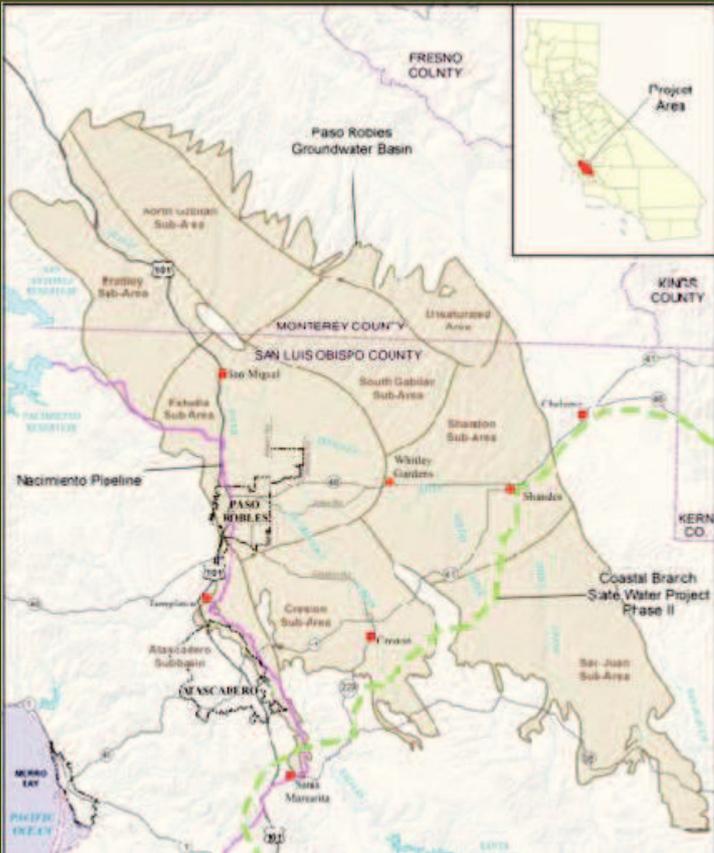


Long Term Management Efforts

Paso Robles Groundwater Basin



Mission Statement: Public Works will be a valued community partner enhancing quality of life for our fellow county residents



Presentation Overview

- Groundwater Management Setting
- Current Collaborative Management Efforts
- Integration with the Sustainable Groundwater Management Act

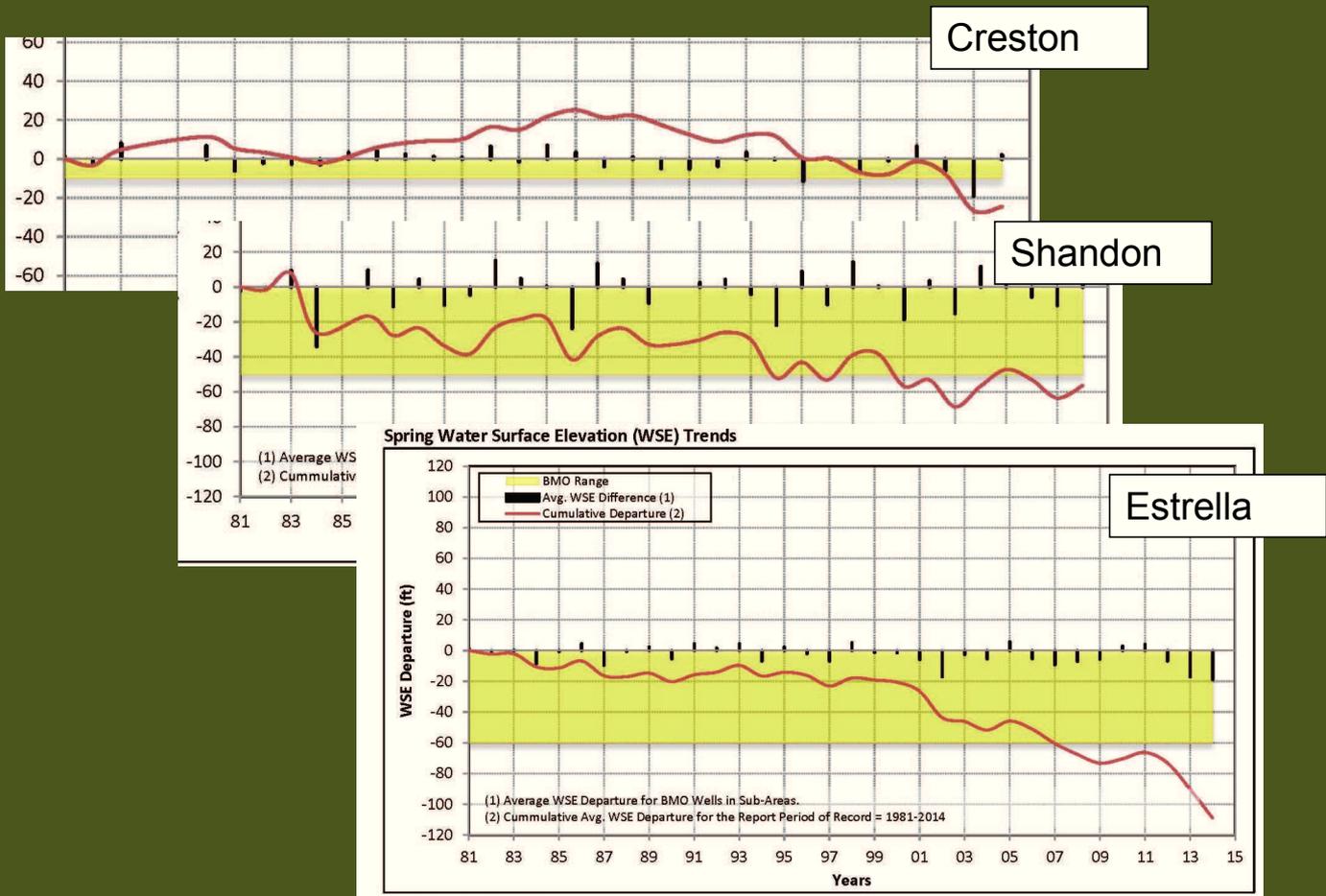
Previous Management Setting



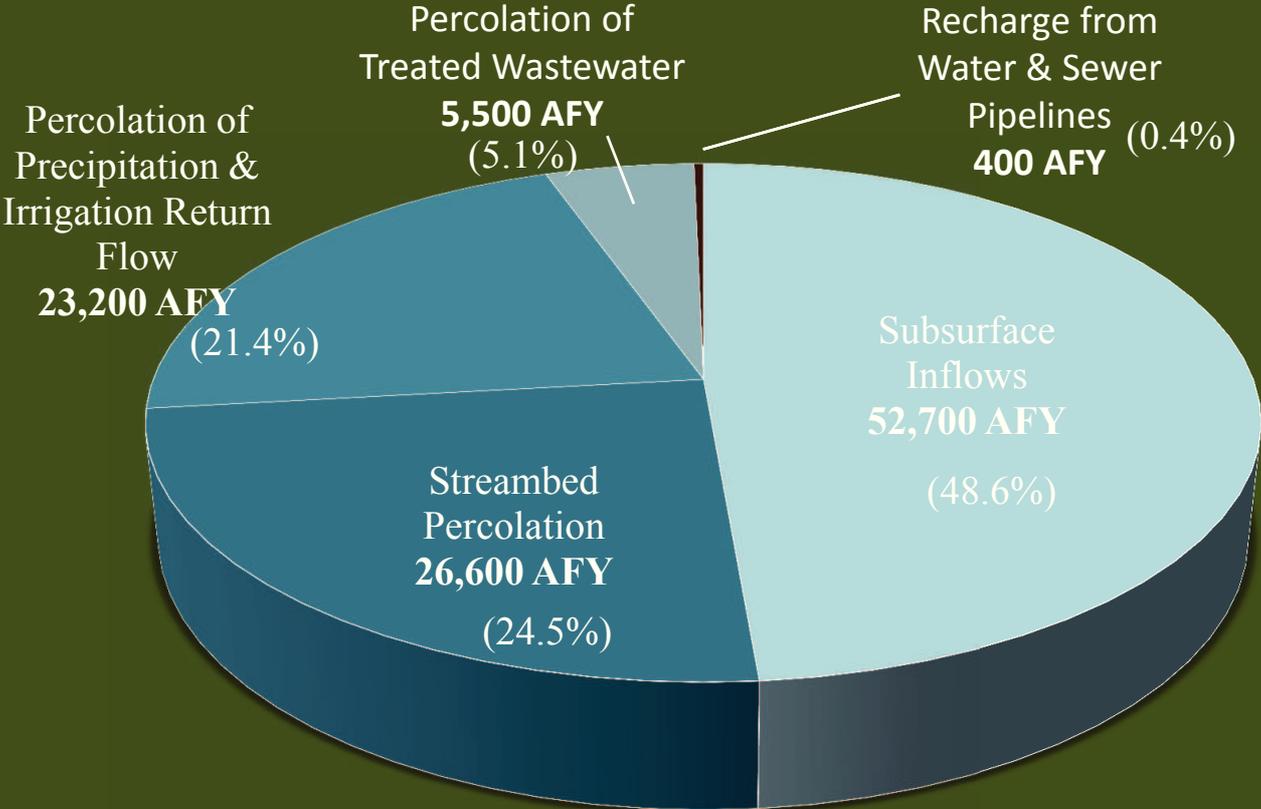
County Efforts

Public Works Department	Planning Department
2002 Basin Study	Resource Capacity Study
2005 Basin Model	LOS III
Basin Agreement – Technical Consultant	Urgency Ordinance
Banking Study	Water Conservation Programs
Water Balance/Pumping Updates	
Voluntary Groundwater Management Plan	
Supply Options Study	
Model Update	

Basin Management Objectives

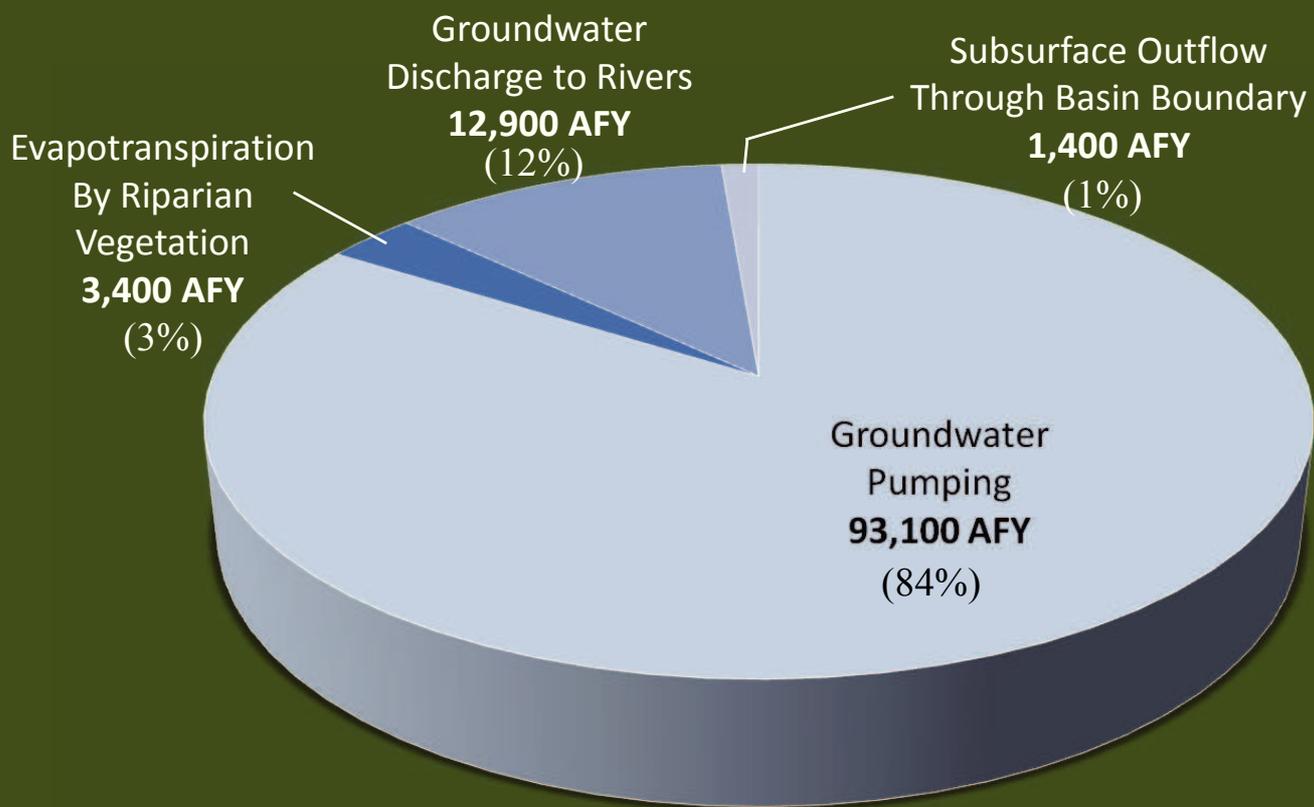


Average Annual Inflows (1981-2011)



TOTAL AVERAGE ANNUAL INFLOW = 108,400 AFY

Average Annual Outflows (1981-2011)



TOTAL AVERAGE ANNUAL OUTFLOW = 110,800 AFY

Water Balance for Recalibrated Basin Model

Total Inflow – Total Outflow = Change in Groundwater Storage

Water Balance of Paso Robles Groundwater Basin Average of 1981 – 2011 [AFY]

Total Inflow	Total Outflow	Change in Storage
108,400	110,800	-2,400

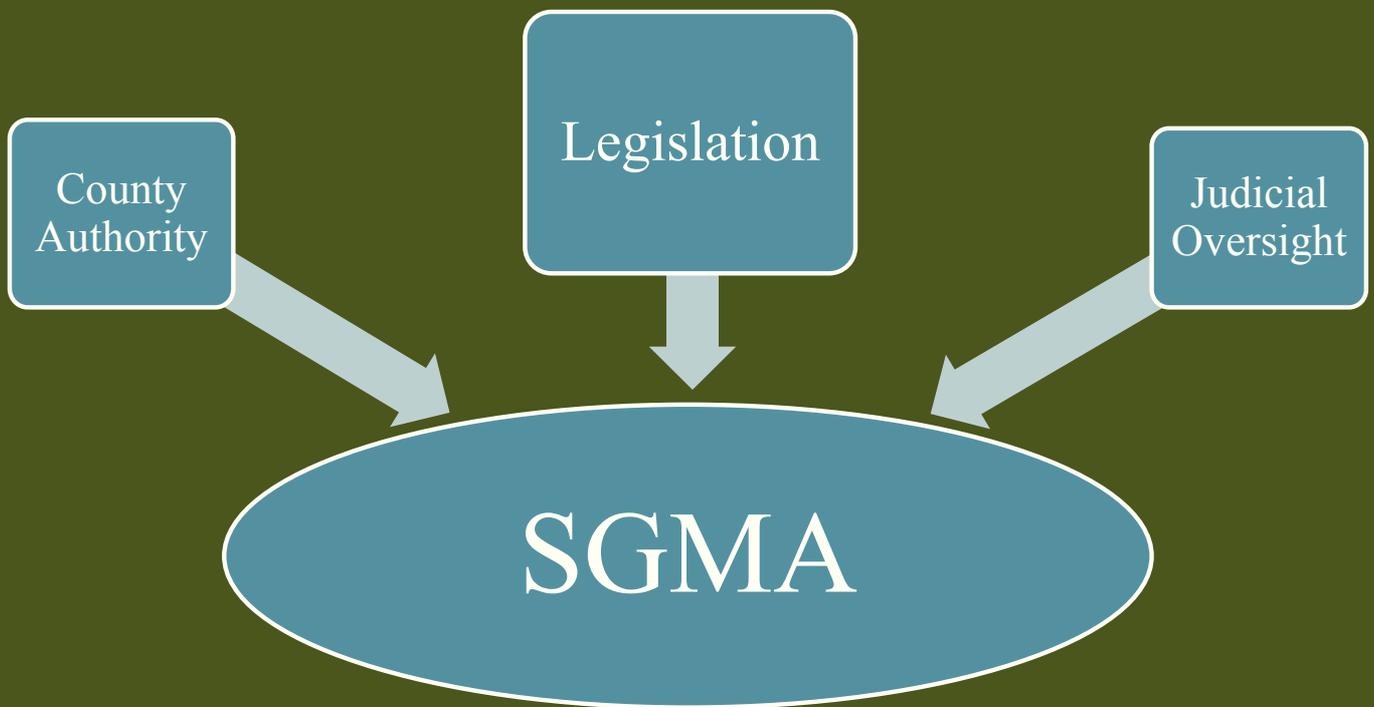
Perennial Yield Estimate

Hydrologic Base Period = Covers Wet, Dry and Average Hydrologic Cycles

Average of Base Period 1982 – 2010 [AFY]

Total Pumping	Change in Storage	Perennial Yield
92,600	-2,900	89,600

Current Management Setting



Legislation

- Transitioning to a new governance structure
- Transitioning from an AB 3030 Groundwater Management Plan to a Groundwater Sustainability Plan

Water, water everywhere . . .

- Conservation Programs
- Optimize Nacimiento Water Project
- Land Use Management
- Recycled Water
- Optimize State Water Project
- Groundwater Banking/Recharge
- Groundwater Supply
- Salinas Reservoir Expansion/Exchange
- Desalination
- Lopez Lake Expansion/Exchange
- Precipitation Enhancement
- New Off/On-Stream Storage/Recharge

... water is for fighting(?)



- Diversity
 - Cost
 - Fairness
-
- Understanding and accepting how our demands and climate change affect water resources and management efforts

Who decides how sustainability will be achieved given limited resources and diverse economic circumstances?

AB2453

Paso Robles Basin Water District

- Provides for the formation of a new water district
- 9 member board
- Authorizes the district to develop, adopt, and implement a groundwater management plan
 - Collect data
 - Require conservation
 - Impose extraction charges
 - Establish extraction allocations
 - Implement SGMA



Paso Robles Basin Water District

9 Member Board of Directors Election Process

BOARD OF DIRECTORS SEATS

ELIGIBLE POOL OF BOARD OF DIRECTORS CANDIDATES

WHO CAN VOTE?

HOW MANY VOTES?

Registered Voters Seats



3

Registered Voters within the Water District boundary

Registered Voters within Water District Boundary

1

Per Registered Voter within the Water District boundary

Landowner Seats



6

Any Landowner (resides within two miles of the Water District boundary, or within the boundaries of various surrounding agencies) can run for any land-size category

SMALL LANDOWNERS

Owning less than 40 acres

MEDIUM LANDOWNERS

Owning 40 acres or more but less than 400 acres

LARGE LANDOWNERS

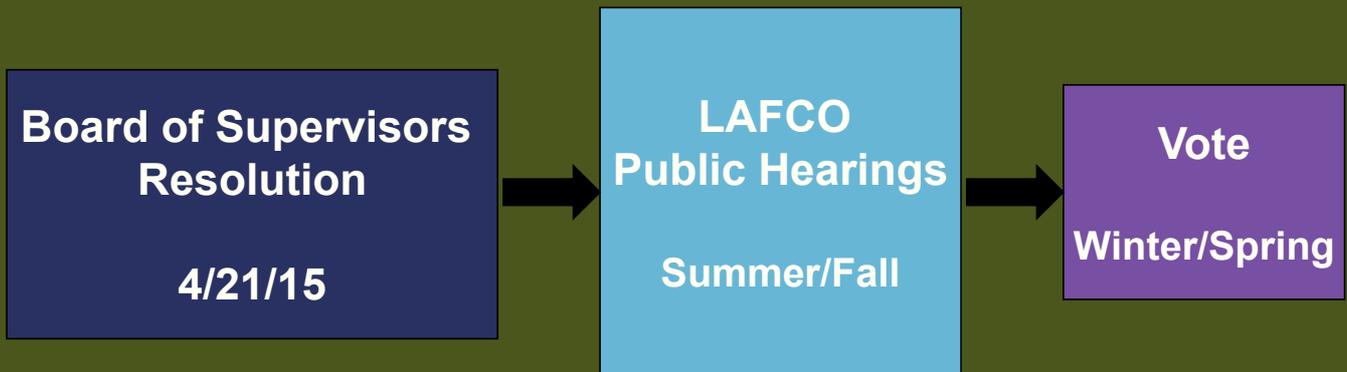
Owning 400 acres or more

Acreage Owned

Landowners can only vote within their ownership category, and weighted by acreage owned.

AB2453

Formation Process



AB2453

The Decisions

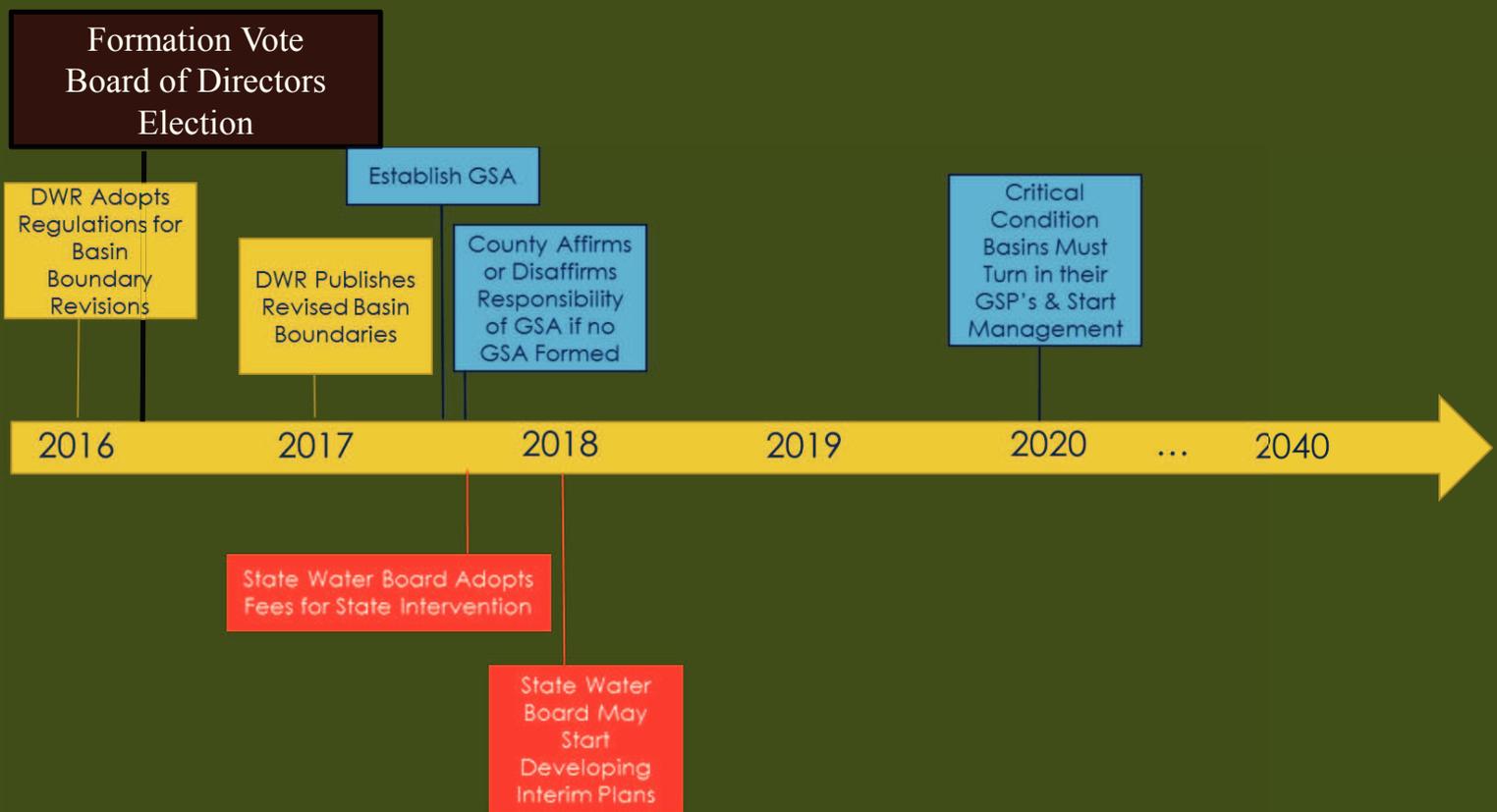
- Form the District?
 - One landowner, one vote
- Elect Nine Board Members
- Fund the District?

AB2453

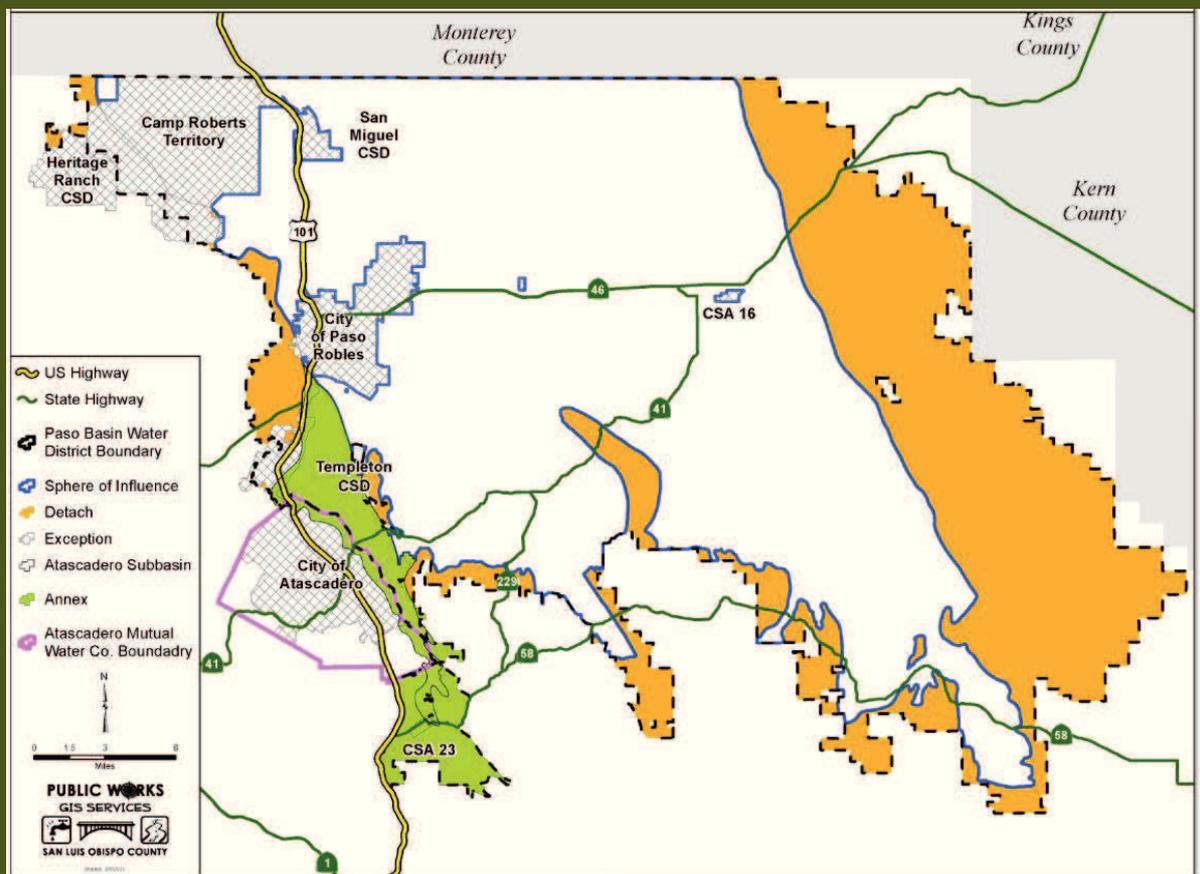
Funding the District

- Subject to prop 218 public decision process
- Board of Supervisors directs type of process
- Summer/Fall - Board deliberations

Timing Considerations



Groundwater Sustainability Agency(ies?)

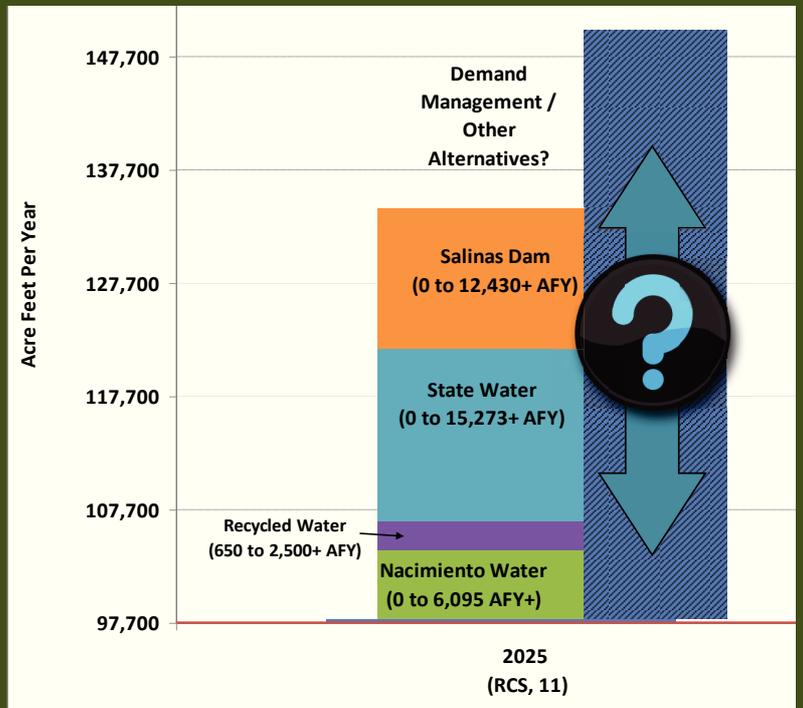
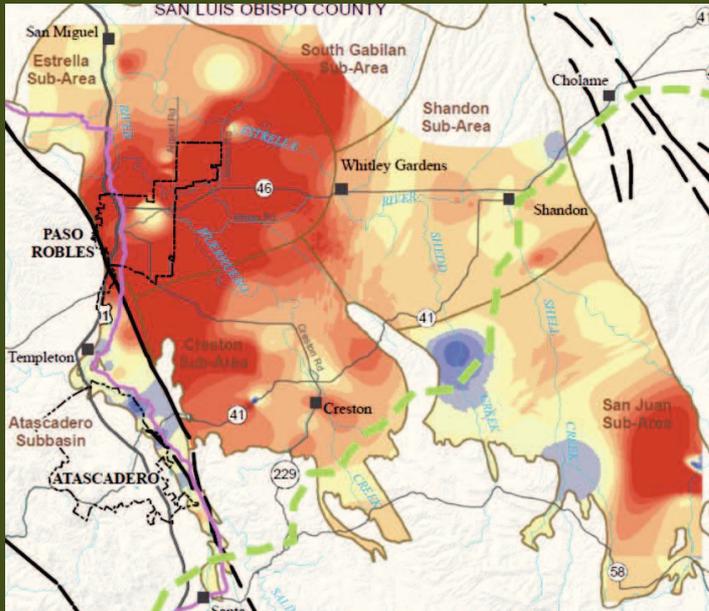


Groundwater Sustainability Plan(s?)

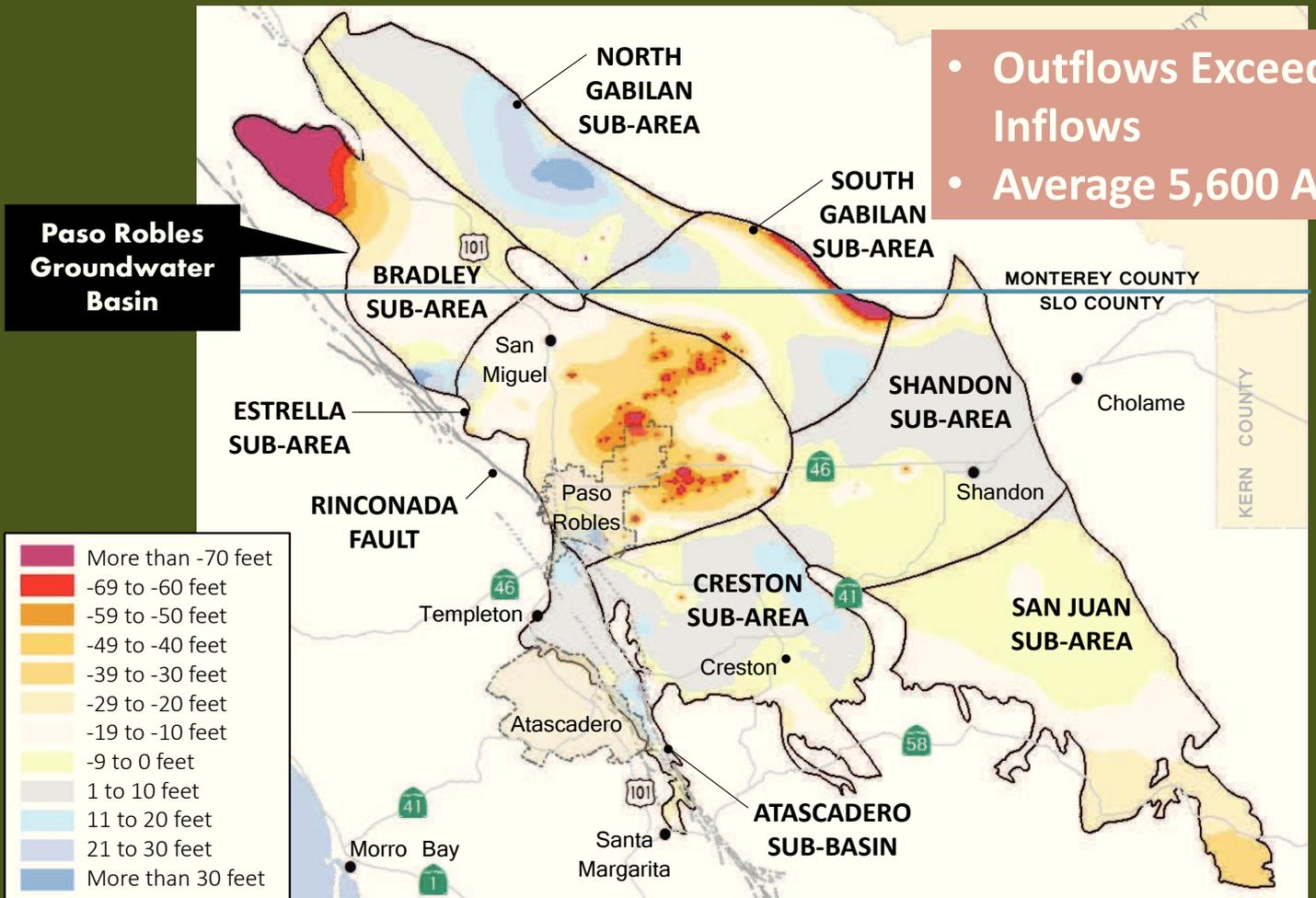
- AB 3030 Groundwater Management Plan
 - Monitoring Improvements
 - Computer Modeling
 - Supplemental Water Supply Options Study
 - Conservation Programs
 - Active Advisory Committee
- Integrated Regional Water Management Program
 - Salt and Nutrient Management Plan
 - Percolation Areas Study
 - Funding Opportunities
- US Bureau of Reclamation Basin Study Program
 - Salinas River Basin Study (potential)



Supplemental Supply Options

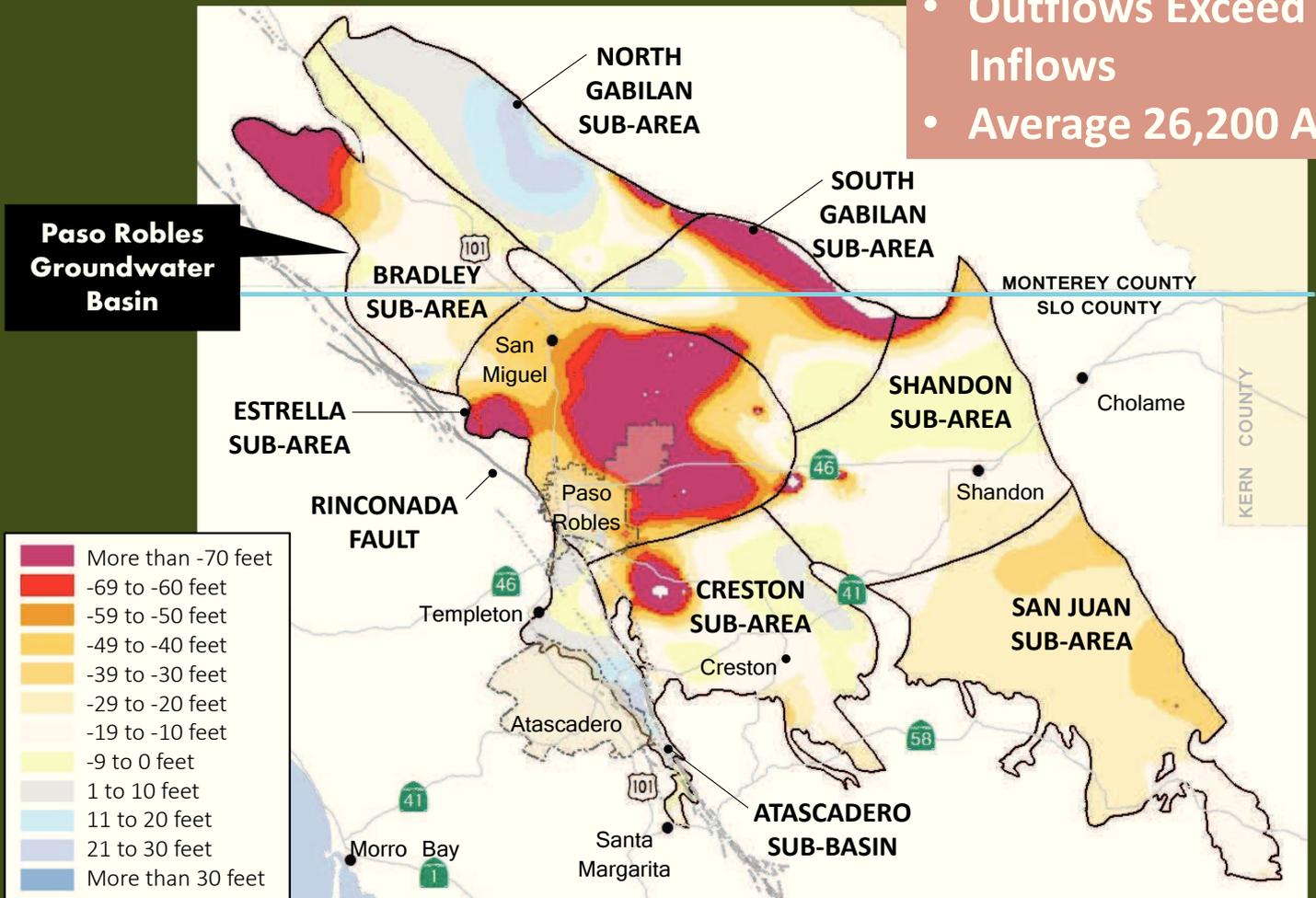


Change in Layer 4 Groundwater Elevations (2012-2040) Model Run 1 – Baseline with No Growth



Change in Layer 4 Groundwater Elevations (2012-2040) Model Run 2 – Baseline with Growth

- Outflows Exceed Inflows
- Average 26,200 AFY



Additional Model Runs

- **Analysis 1 – Demand Reduction Scenario**
- **Analysis 2 – Salinas River Recharge**
- **Analysis 3 – Offset Basin Pumping with Recycled Water**
- **Analysis 4 – Offset Water Demand in Estrella Sub-Area**
- **Analysis 5 – Additional Releases to Huer Huero Creek**
- **Analysis 6 – Additional Releases to Estrella River**
- **Analysis 7 – Offset Pumping in Creston Sub-Area**
- **Analysis 8 – Offset Pumping in Shandon Sub-Area**



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