

Agenda

- Welcome and Introduction (10 min)
- Sustainable Groundwater Management Act Requirements (10 min)
- Questions/Discussion (10 min)
- Current Understanding of Cuyama Basin Conditions (20 min)
- Questions/Discussion (20 min)
- Approach for Better Understanding the Cuyama Basin (15 min)
- Questions/Discussion (20 min)
- Next Steps and Future Workshops (5 min)



Components of a Groundwater Basin

Groundwater aquifers Agricultural and domestic pumping Water U-Recharge Imgate Surface water interaction Dome Supply Well Unconfine Aquitard Agncultural Supply Well Deep Aquifer Monitoring Well Confined Shallow Groundwater Table Aquifer Monitoring Well

Sustainable Groundwater Management Act (SGMA) Requirements

- Basin Setting
- Six Undesirable Results & Sustainability Goals
- Monitoring Network
- Measurable Objectives, Minimum Thresholds, and Interim Milestones
- Identify Projects and Management Actions
- Annual Groundwater Sustainability Plan (GSP) Reporting

SGMA Requirements: Basin Setting

- Hydrologic Conceptual Model (HCM)
 - Defines the physical conditions of the basin and supports the numerical model
 - Numerical model estimates water budgets and supports analysis of GW sustainability options
- The draft HCM is being developed and will be available in a few months

Basin Setting

Groundwater Conditions

SGMA Requirements: Six Undesirable Results Guide Development of Sustainability Goals



SGMA Requirements: Monitoring Network

- Develop/refine monitoring approach
- Identify data gaps and develop a plan to fill them
- Monitor for each undesirable result within each aquifer in basin
- Data management to track monitoring data over time



SGMA Requirements: Measurable Objectives, Minimum Thresholds, and Interim Milestones



SGMA Requirements: Identify Projects & Management Actions

- Identify potential projects and management actions through Stakeholder input
- Evaluate each project/management action
 - Screening
 - Detailed Evaluation
- Develop implementation strategy



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Questions/Discussion

 Questions about the project purpose and the Sustainable Groundwater Management Act

Current Understanding of Cuyama Basin Conditions: Description of the Plan Area

- Watershed and Streams, Basin, and Jurisdictional Boundaries
- Basin Geology and Soils Types
- Existing Monitoring Wells
- Production Wells
- Precipitation and Surface Water Data
- Land Use
- The Description of the Plan Area GSP section is under development and will be available for review in late March/early April



































Questions/Discussion

- What is your understanding of surface water and groundwater conditions in your area?
- What additional information and data do you think are important to understand the Cuyama basin?



Developing a Robust and Defensible Model











Estimating Agricultural Water Demands Using the Metric Process

- Base Data
 - 30 meter grid
 - Available monthly data
- Processed Data
 - Subregional aggregation
 - Used as calibration tool for model demand calculation







Questions/Discussion

How would you define/refine the groundwater problem(s) for the Cuyama Valley?

Next Steps and Future Workshops

- Finalize Data Gathering and Confirmation
 - State and federal data sources
 - Counties, Water District, Community Services District
 - Individuals
- Basin/Plan Area Description
 - Ready for review in late March/early April
- Model Development
 - Refine grid
 - Organize data into input file formats
 - Confirm basin geology and associated input files