

Sustainable Groundwater Management Act Update

August 13, 2020



What Do We Have to Do?

- Partner with other GSAs in the basin
- Engage with stakeholders (nasbgroundwater.org)
- Fill data gaps
 - New monitoring wells
 - Collect water quality information
 - Collect surface water data
- Develop tools
 - Regional database system
 - Regional groundwater model
- Prepare a GSP (and then implement it)

NORTH AMERICAN Subbasin

Planning for Continued Sustainable Groundwater

With the passage of the Sustainable Groundwater Management Act (SGMA) in 2014, local agencies in California's groundwater basins are required to develop and implement a Groundwater Sustainability Plan (GSP). One such basin is the North American Subbasin (NASb) in parts of Sutter, Placer, and Sacramento counties. Fortunately, the NASb was subject to progressive groundwater management by several local agencies prior to SGMA passage, so it is well-positioned to comply with the act.

Legend:

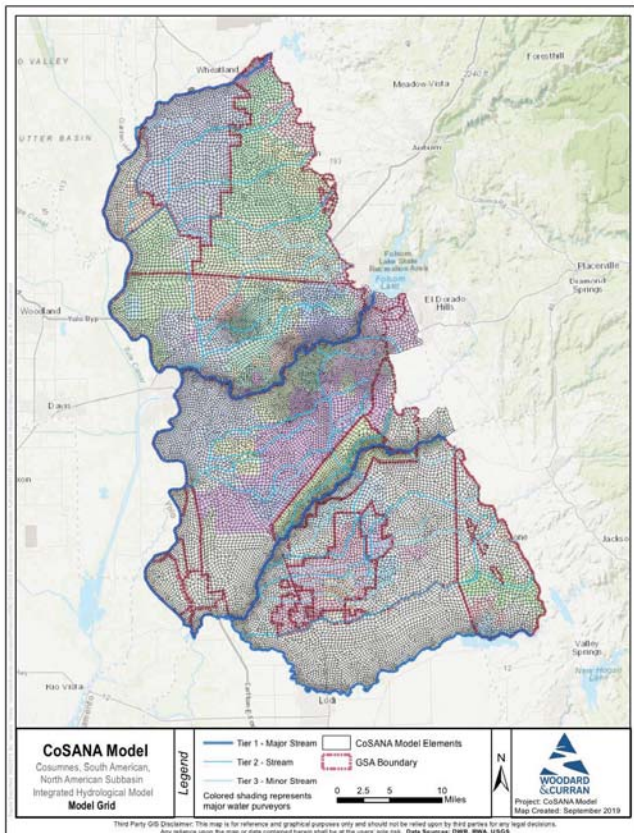
- Sacramento-San Joaquin River Delta Authority (SSJRD) GSA
- West Placer GSA
- South Sutter-Sutter County GSA
- Sutter County GSA

Avoid Six Undesirable Results



Why Model is Essential

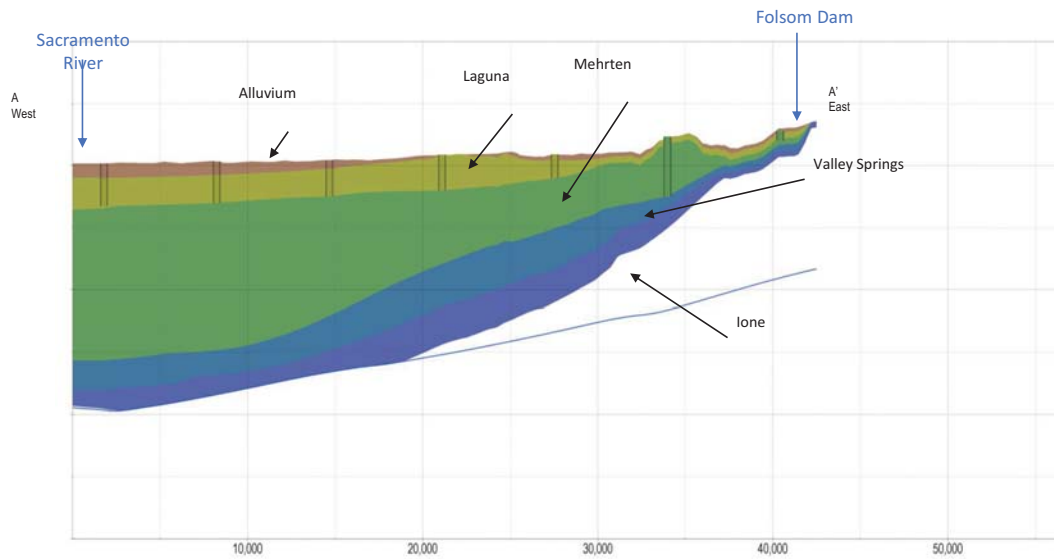
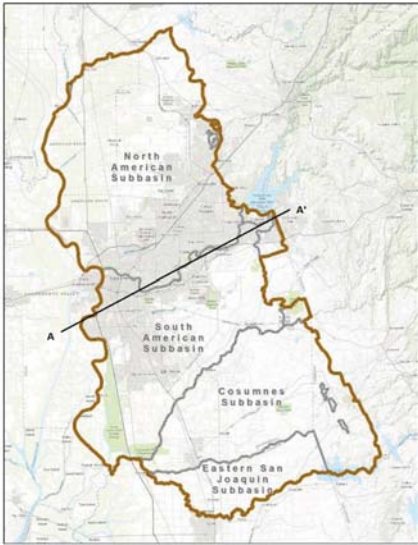
GSP Components	Need for Model
Description of Past and Current Conditions	Used for total water budget and sustainable yield estimates
Projected future (50 years) – Based upon planned development, agricultural projections, and future climate conditions	Used to project if there are water budget deficits in the future
Sustainable Management Criteria (SMC)	Assists developing SMCs for water levels, groundwater in storage, and stream depletion
Description of monitoring network used to evaluate SMC	Can fill in estimates of where data do not exist or identify where future data should be collected
Projects and Management Actions	Evaluate benefits of proposed projects and management actions



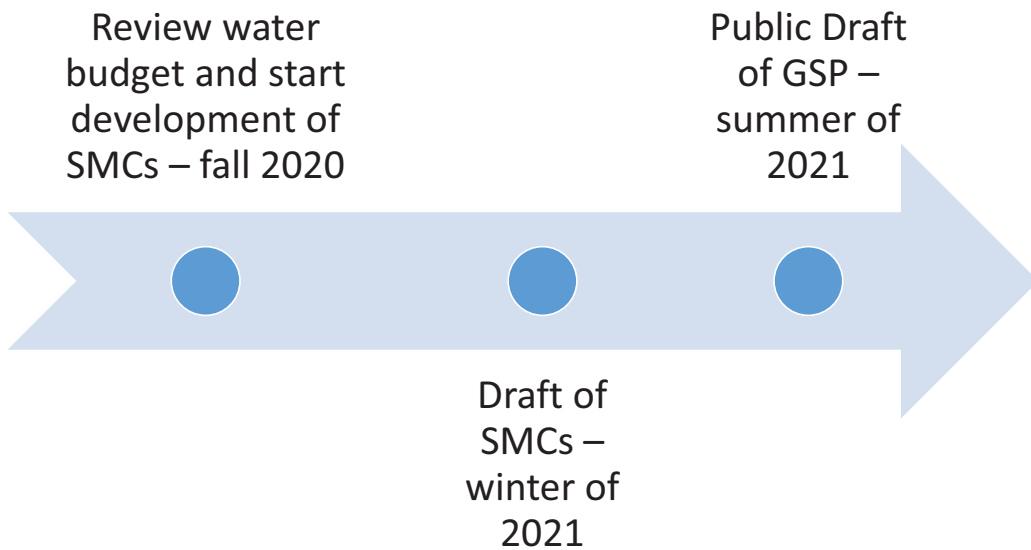
Regional CoSANA Model Update

- 24,171 elements
- Average element size = 37 acres
- 86 subregions
- 5 layers
- Calibration period 1990-2018
- 563 calibration wells

Model Layering



Key Points for Stakeholder Engagement

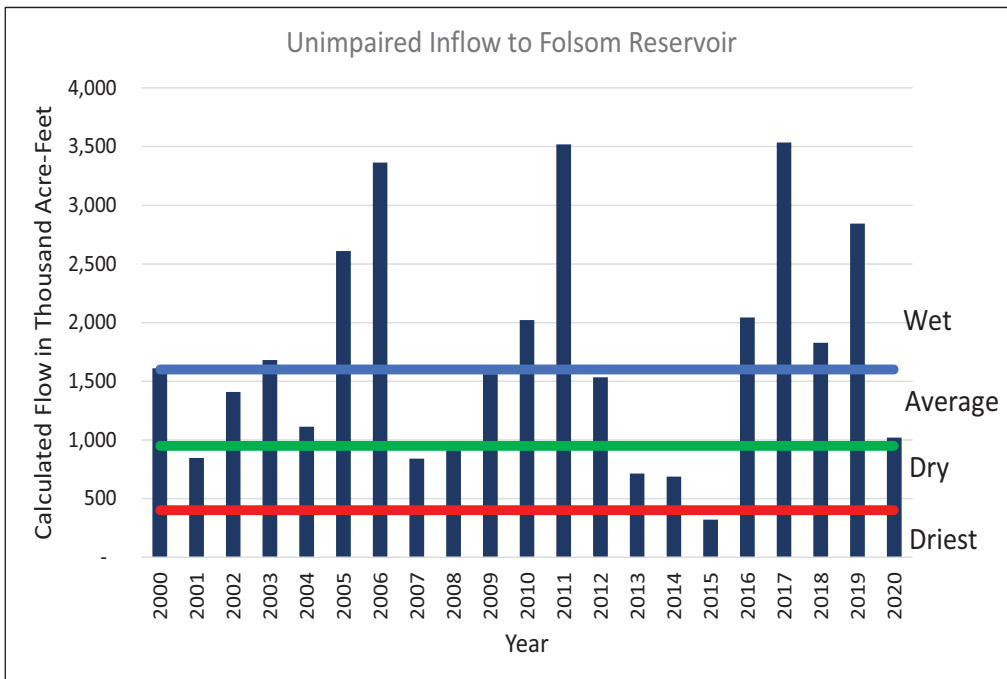


Groundwater Management Program Update

August 13, 2020



Hydrologic Conditions



- Data from Department of Water Resources and Water Forum
- 2000 through 2020 average is 1.7 million acre-feet

