



**EASTERN SAN JOAQUIN  
GROUNDWATER AUTHORITY**

**GWA Board Meeting  
June 13, 2018**

# Agenda



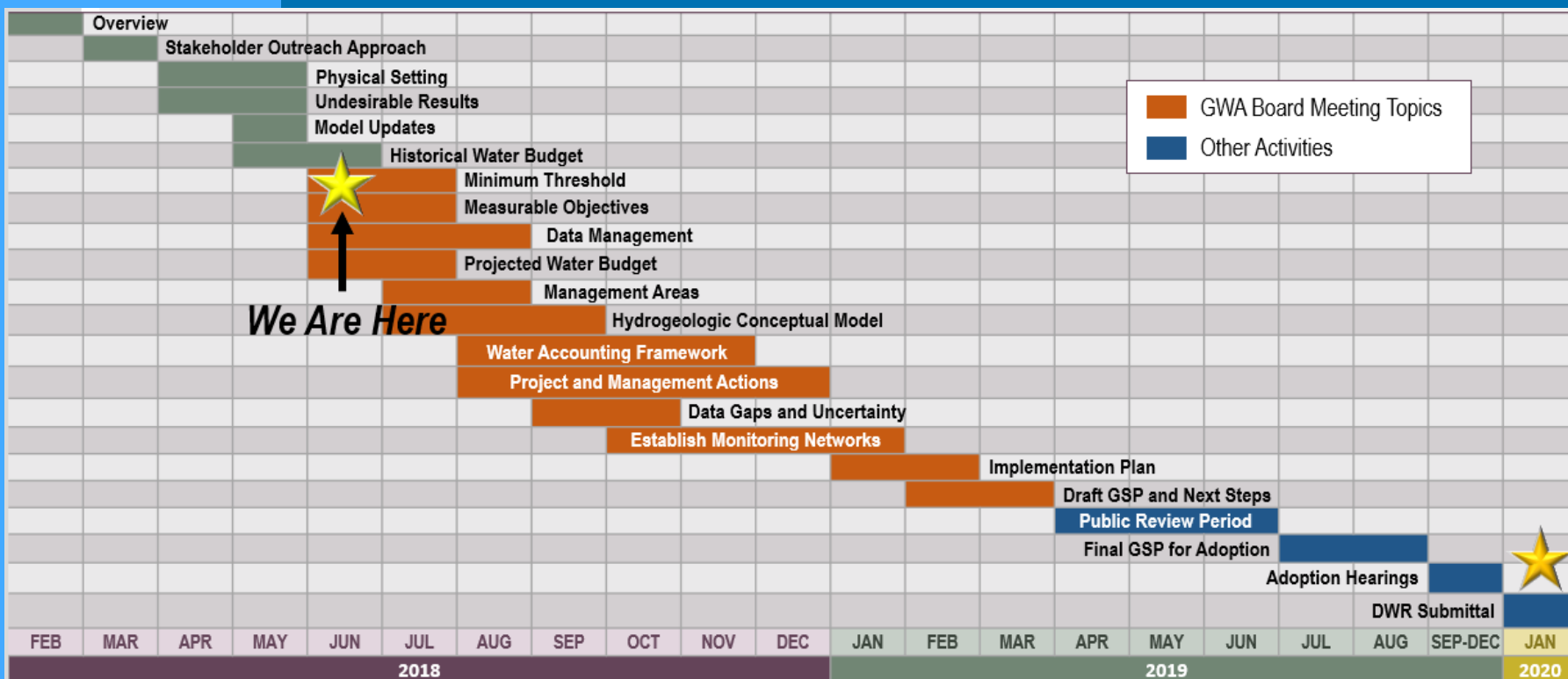
- Presentation by RD38 Staten Island
- Roadmap Update and Project Schedule
- Outreach & Stakeholder Committee Update
- GSP Update
- Budget for Next Year
- Data Management System (DMS)
- DWR Update
- July Agenda Items

# Presentation by RD38 Staten Island



EASTERN SAN JOAQUIN  
GROUNDWATER AUTHORITY

# GSP Topics & Project Schedule



# Review: Information Flow



Various groups provide input to GWA on GSP elements

**Stakeholder Committee:** will include interested and potentially affected user groups and will provide process feedback. Meeting times TBD.

**Advisory Committee:** includes representatives from the GSAs. Makes formal recommendations to the GWA Board on technical and policy items.





# Outreach & Stakeholder Committee Update



# Ways to Get Involved



Attend  
Stakeholder  
Committee  
meeting as  
an observer

Attend GWA  
Board  
meetings  
(monthly)

Plan to  
participate in  
first Public  
Meeting  
(anticipated  
June/July  
2018)

# Ways to Stay Informed



• Website:  
• Visit [esjgroundwater.org](http://esjgroundwater.org)

• Sign up for electronic updates at [esjgroundwater.org](http://esjgroundwater.org)

• Watch for information from GSA, Advisory Committee and Stakeholder Committee members

Attend open-forum meetings

Request presentation to community group (e.g. Kiwanis)

[esjgroundwater.org](http://esjgroundwater.org)



# Final Stakeholder Committee Applicants



Total number  
of applicants:  
22

- 2Q Farming
- Calaveras County Resource Conservation District
- Catholic Charities of the Diocese of Stockton
- The Hartmann Law Firm/Advisory Water Commission
- San Joaquin Audubon
- Sierra Club
- San Joaquin Farm Bureau Federation
- Trincherro Family Estates and Sutter Home Winery
- South Delta Water Agency
- San Joaquin County Environmental Health Department
- Manufacturers Council of the Central Valley
- The Wine Group
- J.R. Simplot Co.
- Lima Ranch
- University of the Pacific
- Sequoia ForestKeeper
- Ag Business – Farmer
- The Environmental Justice Coalition for Water
- Spring Creek Golf & Country Club
- Machado Family Farms
- California Sportfishing Protection Alliance
- Restore the Delta



**GSP Update**

# Advisory Committee Update



EASTERN SAN JOAQUIN  
GROUNDWATER AUTHORITY

## Projected Water Budget

- Each GSA has been given and asked to comment on projected future water supply and demand data going out to 2040 based on what we found in existing plans. These numbers will go into calculating the Projected Water Budget.

## Undesirable Results & Minimum Thresholds

- The Advisory Committee is formulating a recommendation on definitions for Undesirable Results and Minimum Thresholds for each Sustainability Indicator

## Historical Water Budget Model - Finalized

# Historical Model Recap



- Since last meeting (May 9, 2018), outreach to CSJWCD, Lathrop, Lodi, SEWD, Stockton, and SSJID
- Based on outreach, refinements to surface water diversions and aquifer parameters
- The model is near final calibration



**Budget for Next Year**



# **Proposed Budget for Fiscal Year 2018-2019**

**June 13, 2018**

**Eastern San Joaquin  
Groundwater  
Authority**

## Revenues to Date – June 2018

GSA/Item Description	Amount Received 2017-2018	Future Budgeted Contributions*
Cal Water	\$ 5,000	\$ 11,664
Eastside GSA	\$ 5,000	\$ 39,789
CDWA	\$ 5,000	\$ 11,664
CSJWCD	\$ 5,000	\$ 11,664
City of Lathrop	\$ 5,000	\$ 11,664
City of Lodi	\$ 5,000	\$ 11,664
City of Manteca	\$ 5,000	\$ 11,664
City of Stockton	\$ 5,000	\$ 11,664
Linden	\$ 5,000	\$ 11,664
Lockeford	\$ 5,000	\$ 11,664
OID	\$ 5,000	\$ 11,664
SDWA	\$ 5,000	\$ 11,664
SSJ GSA	\$ 5,000	\$ 11,664
WID	\$ 5,000	\$ 11,664
NSJWCD	\$ 5,000	\$ 11,664
SEWD	\$ 5,000	\$ 11,664
SJC	\$ 5,000	\$ 11,664
Zone #2/GSP	\$ 450,000	\$ -
Zone #2/Operating Expenses	\$ 35,000	\$ -
<b>Total</b>	<b>\$ 570,000</b>	<b>\$ 226,413</b>

\* Payable in two installments (July 1, 2018 and July 1, 2019)

## Expenditures To Date

Item Description	Amount Paid
Neumiller & Beardslee #286371 (Jun.), #287142 (Jul.), and #287824 (Aug.)	\$ 20,014.09
Room Rental-GWA (Aug.)	\$ 178.00
GEI Grant Application #3025273 (Aug.) #3023377 (Sept.)	\$ 28,936.25
Room Rental-GWA (Sept.)	\$ 138.00
Postage Expense (Oct.)	\$ 191.65
GEI Grant Application (Oct.)	\$ 6,046.50
Room Rental-GWA (Oct.) (Nov.)	\$ 356.00
Neumiller & Beardslee #289515 (Nov.)	\$ 1,425.00
Postage Expense (Nov.)	\$ 143.98
Neumiller & Beardslee #288810 (Nov.)	\$ 1,291.50
Postage Expense (Dec)	\$ 167.20
Neumiller & Beardslee #290198 (Dec.)	\$ 525.00
Office Depot-Meeting Supplies (Jan.)	\$ 10.79
Postage Expense (Jan.)	\$ 101.23
Room Rental-GWA (Feb.)	\$ 182.00
Neumiller & Beardslee #291284 (Feb.)	\$ 550.00

Item Description	Amount Paid
Neumiller & Beardslee #291284 (Feb.)	\$ 550.00
Postage Expense (Feb.) (Mar.)	\$ 177.80
Neumiller & Beardslee #291974 (Mar.)	\$ 2,350.00
Woodard & Curran #150604 (Mar.)	\$ 56,504.57
Room Rental-GWA (Mar)	\$ 182.00
Postage Expense (Apr.)	\$ 144.55
Office Depot-Meeting Supplies (Apr)	\$ 32.53
Postage Expense (May)	\$ 126.92
<b>Sub-total Total</b>	<b>\$ 119,775.56</b>

Estimated Expenses through June	
Room Rental Expense (May-Jun.)	\$ 374.00
Woodard & Curran (Apr.-Jun.)	\$ 250,000.00
Postage Expense (Jun.)	\$ 250.00
Neumiller & Beardslee (Apr.-Jun.)	\$ 5,000.00
<b>Sub-total Total</b>	<b>\$ 255,624.00</b>

<b>Grand Total Estimated Year-end Expenses 2017-18</b>	<b>\$ 375,399.56</b>
--	----------------------



# Proposed Budget

Eastern San Joaquin Groundwater Authority 2018-19 Proposed Budget			
Revenue and Expenditure Detail	2017-2018 APPROVED BUDGET	2017-2018 REVENUE & EXPENDITURES ESTIMATED ACTUALS	2018-2019 PROPOSED BUDGET
<b>FUND BALANCE - JULY 1</b>	\$ -	\$ -	<b>\$ 195,313</b>
GSP Grant (DWR)	\$ 1,500,000	\$ -	\$ 1,500,000
Member GSP Contributions	\$ 226,420	\$ -	\$ 226,413
Zone No. 2 GSP Contribution	\$ 450,000	\$ 450,000	\$ -
Initial Member Dues	\$ 85,000	\$ 85,000	\$ -
Zone No. 2 Contribution to Authority Expenses	\$ 35,000	\$ 35,000	\$ -
Interest	\$ -	\$ 713	\$ -
<b>TOTAL REVENUE</b>	<b>\$ 2,296,420</b>	<b>\$ 570,713</b>	<b>\$ 1,921,726</b>
Special Office Expenses	\$ 800	\$ 43	\$ 2,500
Office Expense - Postage	\$ 1,800	\$ 1,303	\$ 3,000
Auditor's Payroll & A/P Charges	\$ 600	\$ -	\$ 600
Special Studies and Reports - GSP Application	\$ 85,000	\$ 34,983	\$ -
Authority Counsel	\$ 30,000	\$ 31,156	\$ 32,000
Professional Services - GSP Grant	\$ 2,176,420	\$ 306,505	\$ 1,869,915
Rents-Structures & Grounds	\$ 1,800	\$ 1,410	\$ 4,000
<b>TOTAL EXPENDITURES</b>	<b>\$ 2,296,420</b>	<b>\$ 375,400</b>	<b>\$ 1,912,015</b>
<b>FUND BALANCE - JUNE 30</b>	\$ -	<b>\$ 195,313</b>	<b>\$ 9,711</b>

DRAFT - 6/08/2018

\* County staff costs to support the ESJGWA are paid for by Zone No. 2 and accounted for separately from this Budget.



# Data Management System (DMS)

# DMS Success Criteria Beyond Requirements



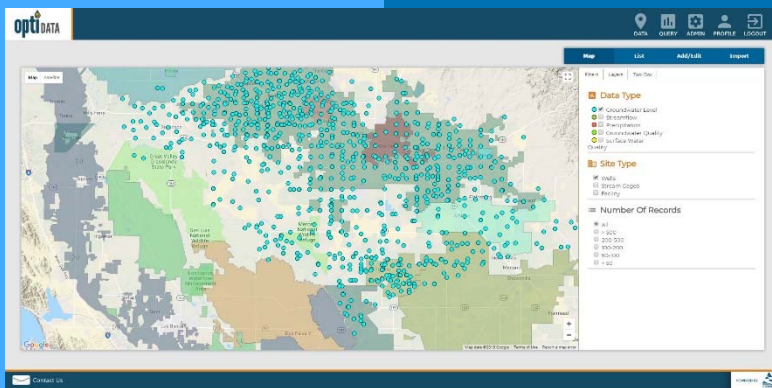
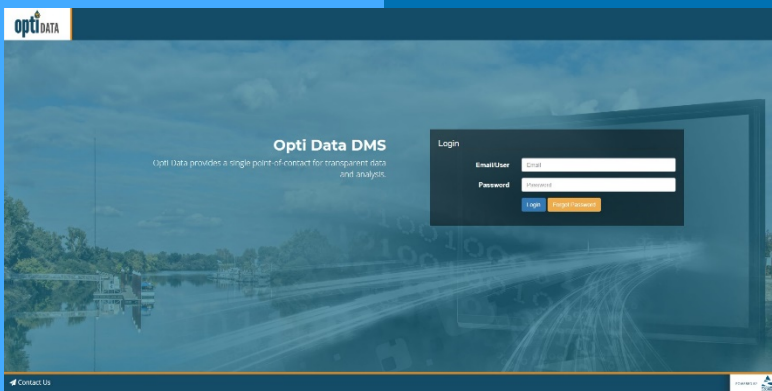
## Now

- Flexible and open one-stop-shop
- Transparent and efficient data entry and visualization
- Coordination and sharing
- Automated reporting

## Future

- Sustainable groundwater management monitoring
- Ability to track undesirable results

# Opti is a Ready-to-Use Proven Tool

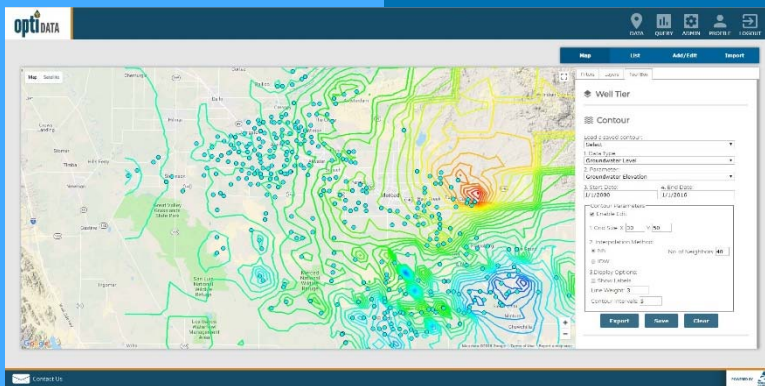


- 10 IRWM groups have used Opti, 3+ GSAs are implementing Opti
- Off-the-Shelf customized DMS to meet the specific needs of the Eastern San Joaquin Basin
- Meets all current phase Success Criteria
- Open platform enables future enhancements

# Opti Features



The screenshot shows the 'Data Entry' section of the Opti web application. It includes a 'Select Site' step with a search bar and a 'Site Name' field. Below this is a table for adding data for the 'San Joaquin River at Fremont Ford Bridge' site. The table has columns for Data Type, Parameter, Date, Measurement, Unit, Quality Flag, and Data Collector. A 'Save' button is located at the bottom of the form.



- Web-based, GIS-enabled
- Easy-to-Use
- Flexible Data Structure to Store and Manage Different Datasets
- User and Agency Security/Permissions
- Data Entry and Validation
- Visualization and Analysis
- Query and Reporting
- Framework to Link to other Data Management Systems and Modeling Results

# How Opti Will be Used



opti DATA

Query Tool

Select saved query: [dropdown]

Or, query data by:

Field	Operator	Value
Groundwater Level	>	Groundwater Elevation

Select date range:

Start date: [input] End date: [input]

RUN SAVE CLEAR

opti DATA

User Profile

Select Entity: [dropdown]

Data Access:

Groundwater Level: [dropdown]

Streamflow: [dropdown]

Precipitation: [dropdown]

Name	Email	Action
John Doe	john.doe@optidata.com	[edit] [delete]
Jane Smith	jane.smith@optidata.com	[edit] [delete]
Johny Pungwa	johny.pungwa@optidata.com	[edit] [delete]

Add New User

SAVE

- Centralized integrated repository for multiple data sources managed by stakeholders
- Data sharing portal to enable utilization of the same data and tools for visualization and analysis
- Interface with model results to support groundwater modeling and analysis
- Generate reports for management and other agencies (DWR, etc.)
- Track sustainability criteria and management objectives

# How Opti Will Evolve



- Collect and input additional data – member agency and other stakeholder data sets, GIS, etc.
- Onboard stakeholders for local control and efficient data management
- Integrate model viewing capabilities and model results to support water budget development
- Implement reporting capabilities compatible with DWR SGMA portals



# DWR Update



# Technical Support Services Funding Update



- Application process is underway
- General application has been submitted and we are moving to the monitoring well application

# Other DWR Updates



- Paul Wells: Update on development of the grant agreement

# July Board Topics



- Minimum Thresholds
- Hydrogeologic Conceptual Model (HCM)



# Appendix Slides

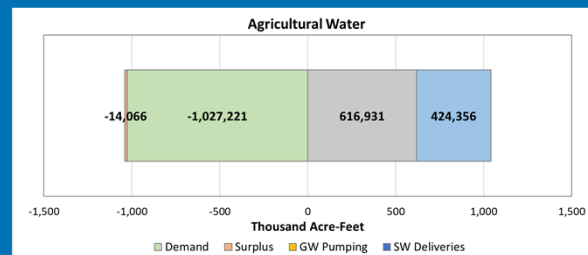
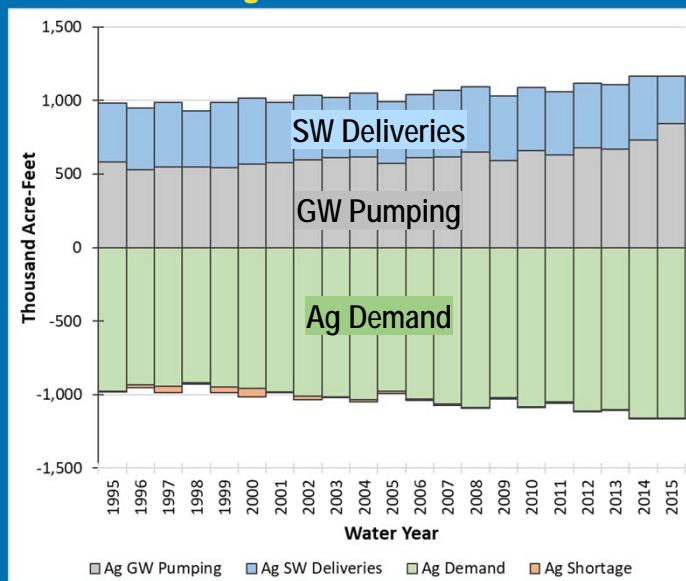


# Historical Water Budget

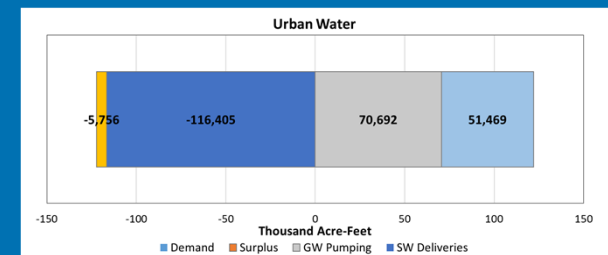
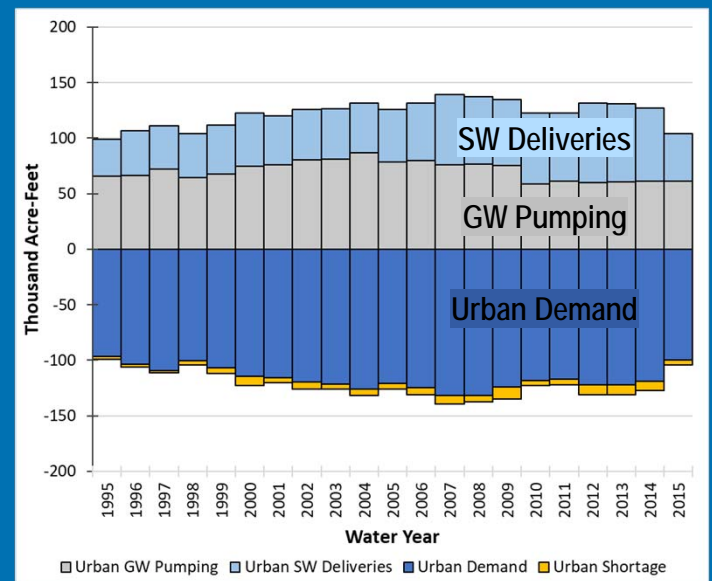
# Historical Model L&WU



### Agricultural Water Use

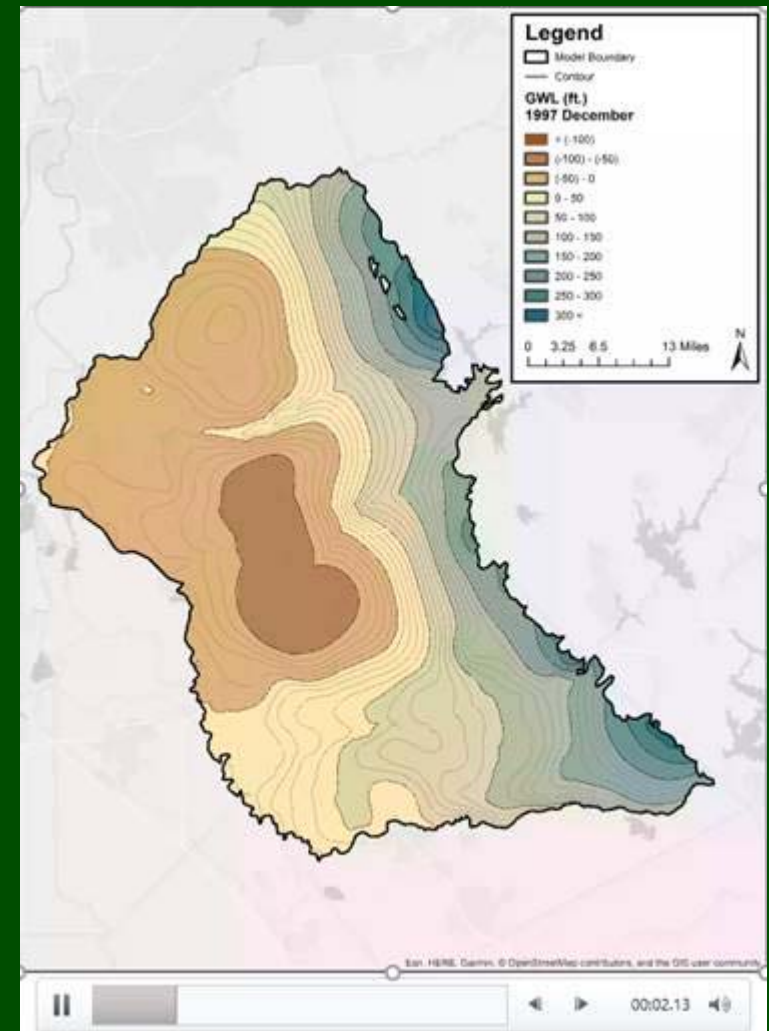


### Urban Water Use



# Historical GW Levels

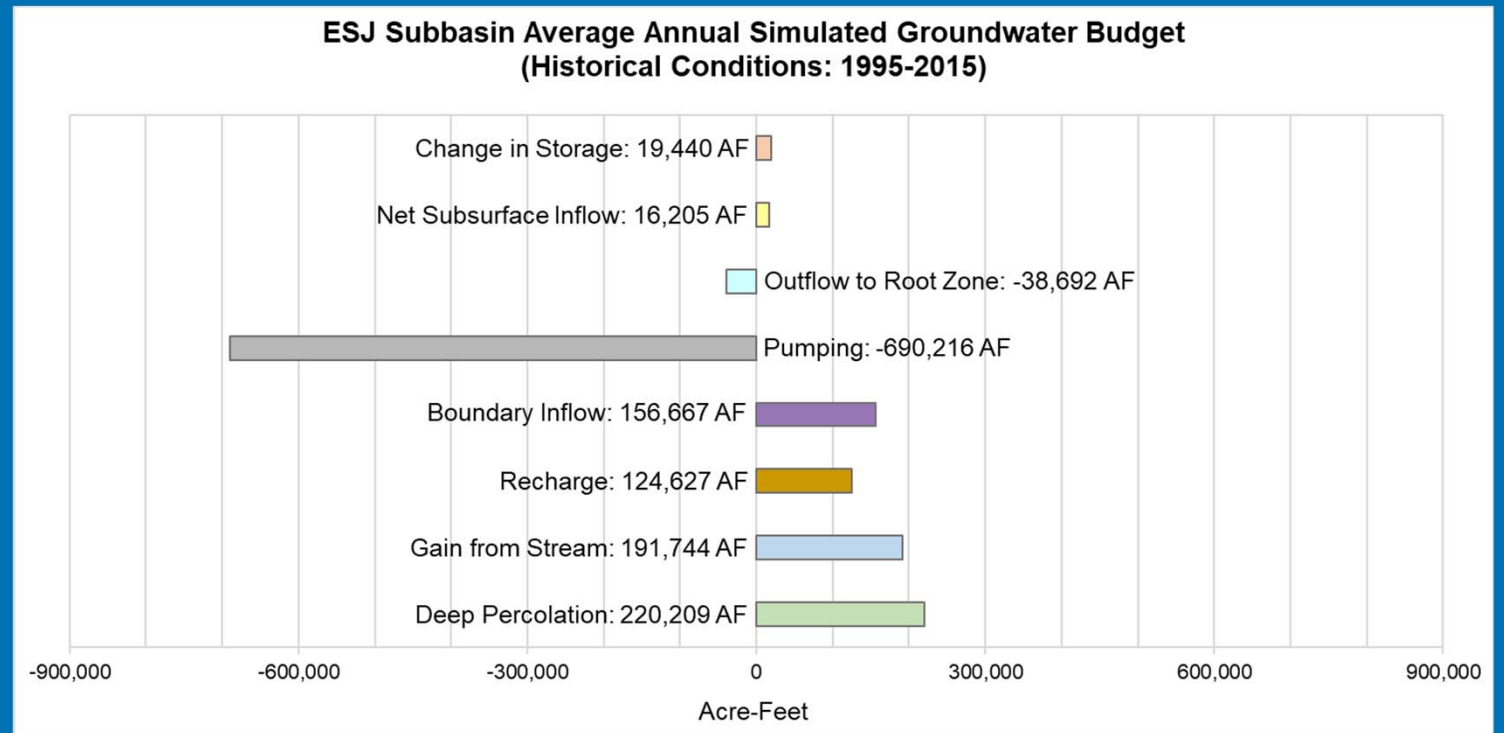
GW level  
changes over  
time for period:  
WY 1995 to  
2015



# Historical Model GW Budget



Average Annual GW Budget for period: WY 1995 to 2015

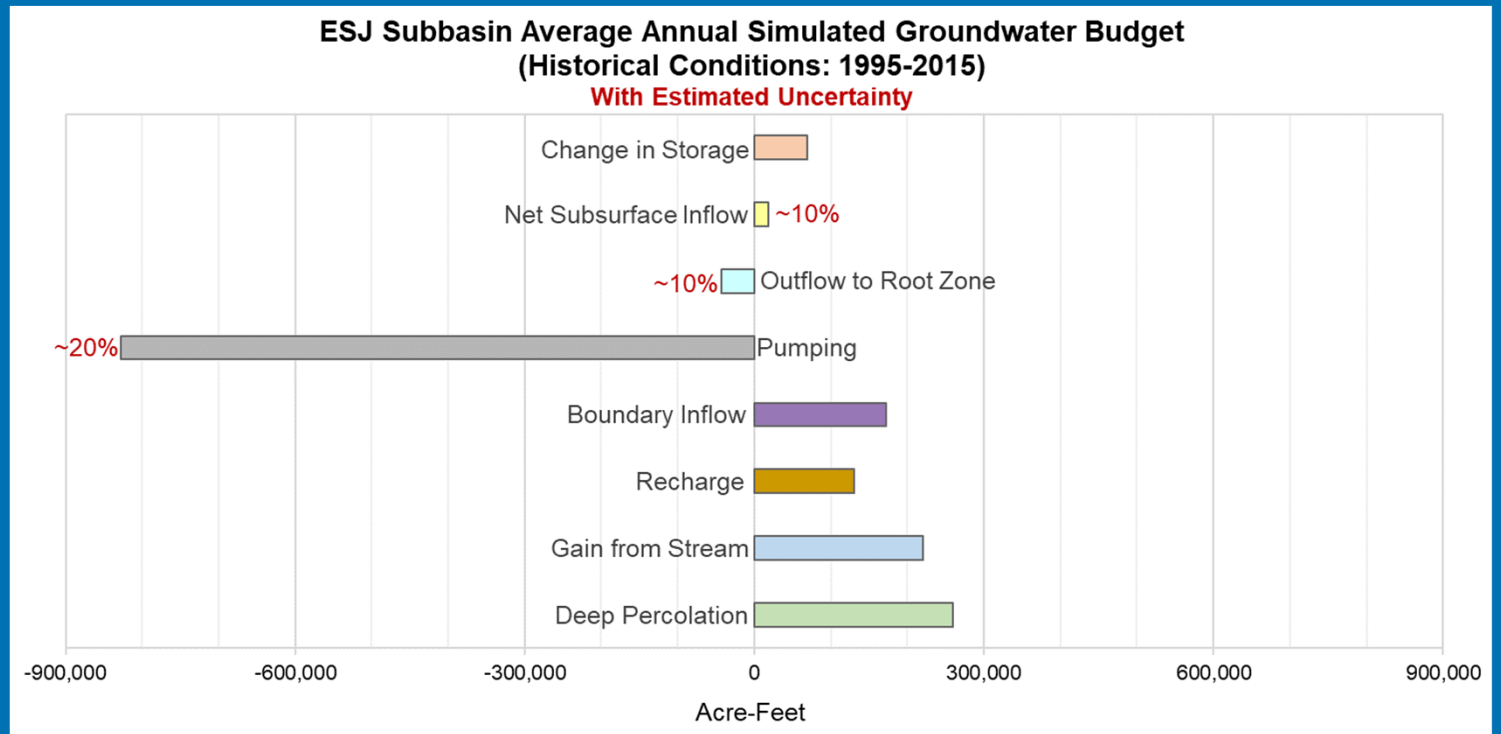




# Historical Model GW Budget



Average Annual GW Budget for period: WY 1995 to 2015



# Historical Model GW



Average Annual GW Budget trends for period: WY 1995 to 2015

