

Today's Action

Consider receiving a report on the activities of the Salinas Valley Basin Groundwater Sustainability Agency's Seawater Intrusion Group (SWIG) and the County of Monterey CAO's Deep Aquifers Wells Working Group (DAWWG)



SWIG

- Formation of a seawater intrusion group was identified in the SVBGSA's 180/400 Foot Subbasin Groundwater Sustainability Plan in section 9.3.7
 - Priority Management Action 6: Seawater
 Intrusion working Group

"SVBGSA will develop and coordinate a working group to address the issues associated with seawater intrusion."



- The preliminary goal will be to develop consensus on the science of seawater intrusion in the Salinas Valley Groundwater Basin.
- <u>The ultimate goal</u> will be to develop a comprehensive set of projects and management actions that control seawater intrusion while providing cost effective water supplies for the region.



- Who is the SWIG...
 - Agencies with Decision Making Power
 - Castroville CSD
 - Monterey One Water
 - City of Salinas
 - City of Marina
 - County of Monterey Environmental Health Bureau
 - Monterey County Water Resources Agency
 - Marina Coast Water District
 - SVBGSA
 - Stakeholders



- July 27th Meeting:
 - Agreed on fourth Monday of the month for SWIG Meetings
 - Agreed SWIG would work with GSA Staff to identify South County representative to the group
 - Agreed to possibly open SWIG meetings for public observation and participation.



- For Next SWIG Meeting (August 24th):
 - Form Technical Advisory Committee
 - Each agency or organization can propose representative
 - Must be qualified (hydrologist or other science background)
 - Funded by the agency or organization
 - TAC will develop Scope of Work for Deep Aquifer RFP
 - Funding for Deep Aquifer Study
 - Grants
 - Regulatory Fees
 - Permit Fees



Questions on SWIG



DAWWG

 After the Agency's presentations to the BOD and BOS in May of the report

Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin: 2020 Update

...on May 19th, the Monterey County Board of Supervisors directed the County CAO to form a working group...



Formed to...

- Make advisory recommendations to the CAO regarding the placement of new wells in the 180/400 subbasin
- With consensus as the desired outcome
- Meeting as necessary to reach agreement
 - First meeting was held on June 11th
- With all information developed by the working group to be presented in public forums to interested parties to gain further input.



- Who is on the DAWWG...
 - CAO
 - County Counsel
 - MCWRA
 - Environmental Health Bureau
 - SVBGSA
 - Farm Bureau
 - Grower's Shippers



- Process
 - Review and evaluate through deliberations
 MCWRA recommendations (ongoing...)
 - Then present to the Public results of deliberations for further input and deliberation
 - Schedule two public forums
 - Utilize websites for announcing meetings and sharing presentations
 - Provide opportunity for written input



- Reconvene DAWWG after public forums
 - Discuss information from public forums
 - Develop CAO Recommendations Report
- Present CAO Recommendations Report to BOS
- Develop ordinance for BOS from CAO recommendations and BOS Direction



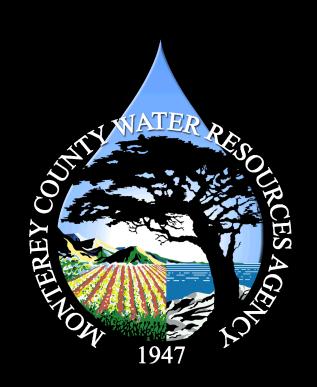
Questions on DAWWG

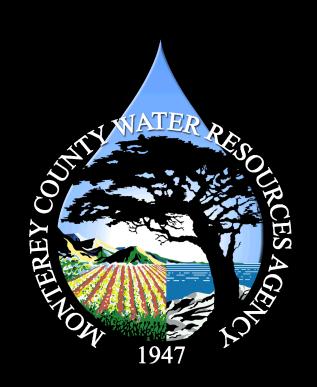


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Group







TODAY'S ACTION

Consider receiving a report on the Agency's well permit application review and reporting procedures



Financial Impact

There is no financial impact in receiving this report.



Prior Committee/BOD Action

- In January 2020 a revised Well Permit Application Update was presented to BMAC and the BOD; both approved of the proposed revisions.
 - -BMAC on January 7, 2020
 - -BOD on January 21, 2020



Discussion

 Committee member discussion at July BMAC meeting indicated that more detailed information about the format and content of the Well Permit Application Update could be useful.



Discussion (cont.)

- This presentation will cover:
 - Agency role in reviewing well permit applications
 - Criteria that determine scope of review
 - Background and evolution of Well Permit
 Application Activities Update

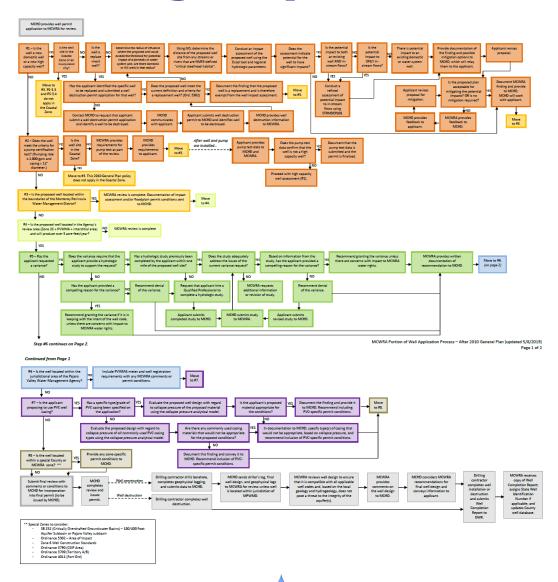


Agency Role

- Well permits are issued by Monterey County Health Department, Environmental Health Bureau (EHB)
- The Agency acts as a technical advisor to EHB.
 - Well construction, repair, and destruction
 - Level of involvement varies by permit type and location
- Agency staff effort is covered by a portion of the well permit fee.



Agency Role



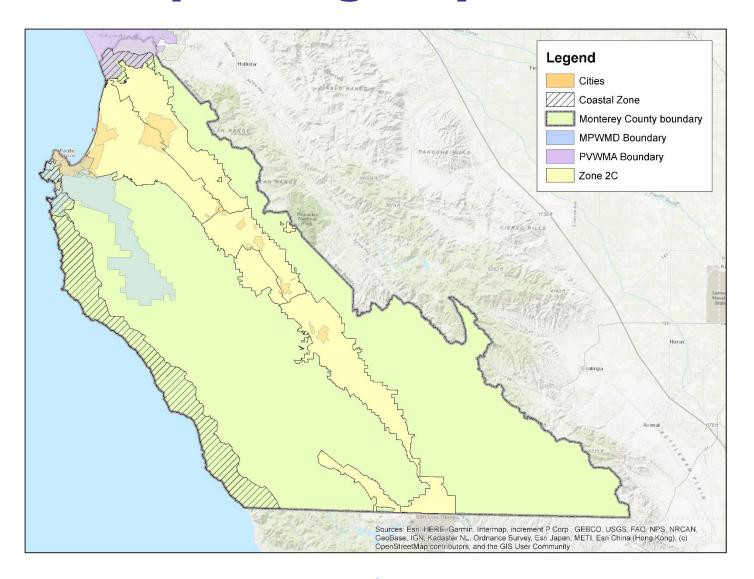


- Determining factors:
 - Well permit type
 - Construction, repair, destruction
 - Well permit geographic location
 - Applicability of ordinances or other policies
 - Proposed well use
 - · Domestic, agricultural, stock, monitoring
 - Proposed pumping rate
 - High capacity wells (>1,000 gpm)



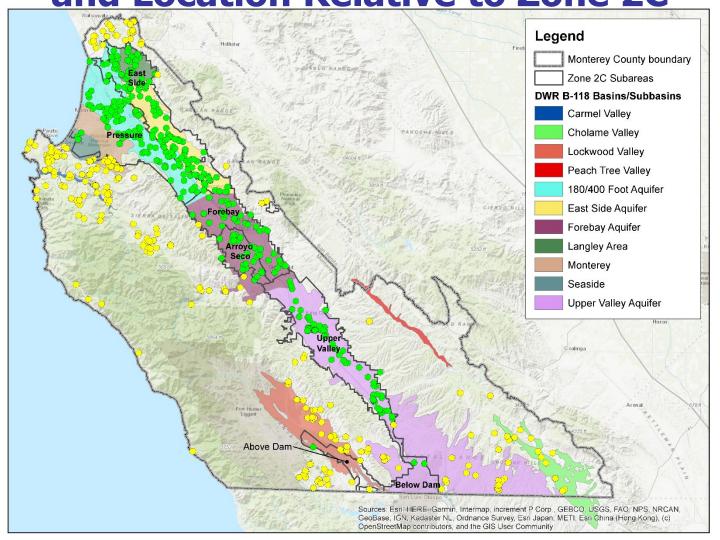
- The Agency performs some level of review for well permits throughout the County
 - **Permit conditions** for well construction, repair, and destruction within Zone 2C and PVWMA jurisdiction
 - Perform well impact assessments related to the 2010 General Plan for inland (non-Coastal) unincorporated County
 - Applies to new domestic and new high capacity wells
 - Maintain well records throughout County







Well Construction Permits Reviewed Since 2009 and Location Relative to Zone 2C





Well Construction Permits Reviewed Since 2009 and Location Relative to Zone 2C

Well Use	Within Zone 2C	Outside Zone 2C
Ag. irrigation	290	59
Cathodic protection	1	0
Domestic	67	182
Domestic/irrigation	2	6
Injection	3	0
Industrial	4	2
Monitoring	5	1
Municipal	2	0
Residential irrigation	0	12
Stock	2	5
Test boring	1	0
TOTAL, all uses	377 (59%)	267 (41%)



WELL CONSTRUCTION

Annual Extraction	Location		Expected pumping rate	Use	Permit Conditions	Well Log Database	General Plan Assessment
			Over 1,000 gpm	Any	✓	✓	✓
		Zone 2C and PVWMA jurisdiction	1 000 gpm or loss	Domestic	✓	✓	✓
	Outside Coastal		1,000 gpm or less	Other	✓	✓	×
	Zone		Over 1,000 gpm	Any	×	✓	✓
Over 5 acre-feet		Elsewhere in Monterey County	1,000 gpm or less	Domestic	×	✓	✓
per year				Other	×	✓	×
	Within Coastal	Zone 2C and PVWMA jurisdiction	Any pumping rate	Any well type	✓	✓	*
	Zone	Elsewhere in Monterey County	Any pumping rate	Any well type	×	✓	*
Lacathan E assa	Outside Coastal	Outside Coastal Zone 2C and PVWMA jurisdiction	1,000 gpm or less	Domestic	×	✓	✓
Less than 5 acre- feet per year	Zone			Other	×	✓	×
reet per year	Within Coastal Zone	Elsewhere in Monterey County	1,000 gpm or less	Any well type	×	✓	*
Monitoring	Any area		n/a	Monitoring	×	×	*

WELL REPAIR

Location	llise		Well Log Database
Zone 2C and PVWMA jurisdiction	Any	✓	×
Elsewhere in Monterey County	Any	*	*

WELL DESTRUCTION

Location	llise	Permit Conditions	Well Log Database
Zone 2C and PVWMA jurisdiction	Any	✓	✓
Elsewhere in Monterey County	Any	*	✓



- 2010 Monterey County General Plan
 - Policies PS-3.3 and PS-3.4 call on MCWRA to evaluate the potential impact of proposed new domestic or high capacity wells on existing domestic wells, water system wells, or in-stream flows.
 - Applies County-wide except for in the Coastal Zone or within City limits.
 - The Agency began performing this assessment in November 2011.



- Update was first provided to the Agency BOD in December 2013.
 - Provided monthly to BOD and BMAC.
- Update was in response to questions and comments about the well impact assessments required by implementation of the 2010 General Plan policies.
- Intended to show outcomes of the well impact assessments and geographic distribution of affected wells.



Summary of Well Impact Evaluations
Conducted per 2010 Monterey County General Plan

DOMESTIC WELLS									
Evaluation Outcome	luation Outcome Pressure East Side Forebay Upper Valley Outside Zone 2C					TOTAL			
No potential impact.	0	3	1	1	55	60			
Replacement (exempt).	0	2	0	0	2	4			
Potential impact - no									
mitigation yet proposed.	0	0	0	0	1	1			
Potential impact - acceptable									
mitigation proposed.	0	0	0	0	0	0			
TOTAL	0	5	1	1	58	65			
Subarea Total as Percentage	0%	8%	2%	2%	89%				

HIGH CAPACITY WELLS									
Evaluation Outcome	Pressure East Side Forebay Upper Valley Outside Zone 2C				TOTAL				
No potential impact.	3	8	1	5	5	22			
Replacement (exempt).	6	0	0	4	0	10			
Potential impact - acceptable									
mitigation proposed.	1	1	0	5	0	7			
Potential impact - no									
mitigation yet proposed.	0	1	0	3	2	6			
TOTAL	10	10	1	17	7	45			
Subarea Total as Percentage	22%	22%	2%	38%	16%				

Total Assessments Conducted to Date: 110

Totals as of: 10-Dec-13 Initiated November 2011



 Impact assessment is fully integrated into the well permit review process.

- In January 2020, staff recommended a revised report that captures all well permit review activities.
 - Added information about Deep Aquifers wells.

 BMAC and BOD approved revised report that is now in use.



Agency management area and aquifer

Table 1. W | Permit Applications Received by Category - June, 2020

Subbasin/ Aquifer	Construction	Destruction	Repair	Other	Total	FY (19/20) Total
Pressure 180-Ft Aquifer						4
Pressure 400-Ft Aquifer			1		1	16
Pressure Deep Aquifers	3				3	10
East Side	2	1			3	17
Forebay						8
Upper Valley	2	1			3	9
Outside Zone 2C, Undefined GW Basin	3				3	57
Total	10	2	1		13	121



Well permit type

Table 1. Well Permit Applications Received by Category - June, 2020

Subbasin/ Aquifer	Construction	Destruction	Repair	Other	Total	FY (19/20) Total
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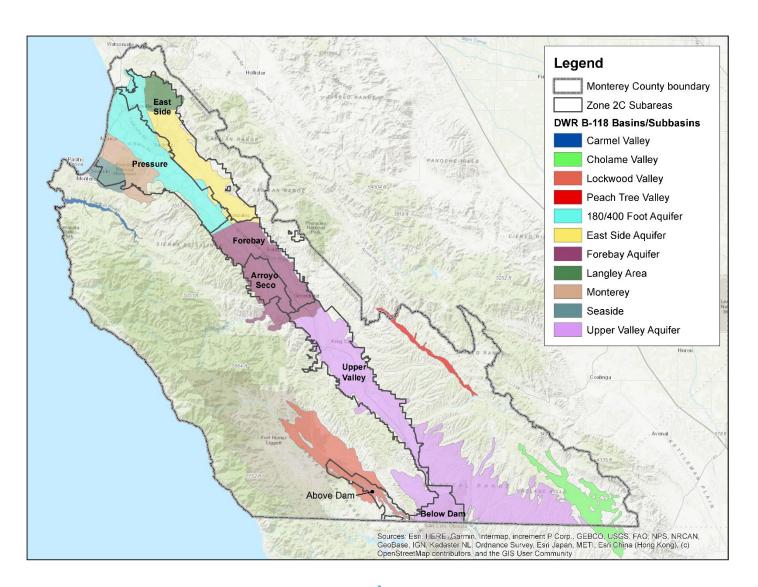
Well Permit Application Activities Update

Monthly and Fiscal Year-To-Date Totals

Table 1. Well Permit Applications Received by Category - June, 2020

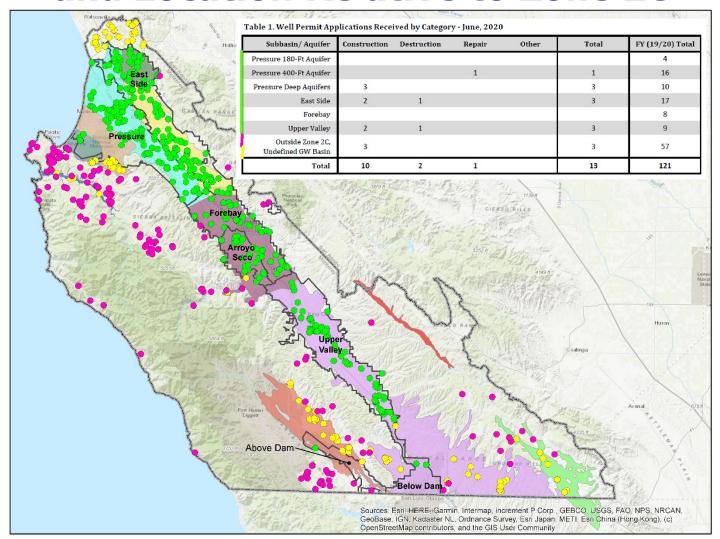
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Zone 2C Subareas vs B-118 Subbasins





Well Construction Permits Reviewed Since 2009 and Location Relative to Zone 2C





Well Permit Application Activities Update

Original Version (2013-2019)	Revised Version (2020)
County-wide data	County-wide data
 Data limited to well permits requiring an impact assessment per General Plan. 	 Includes data for all well permits reviewed.
 Showed impact assessment outcomes by Zone 2C subarea. 	 Well permit counts by Zone 2C subarea and aquifer zone.
	 Eliminated data on outcome of well impact assessment.



TODAY'S ACTION

Receive a report on the Agency's well permit application review and reporting procedures







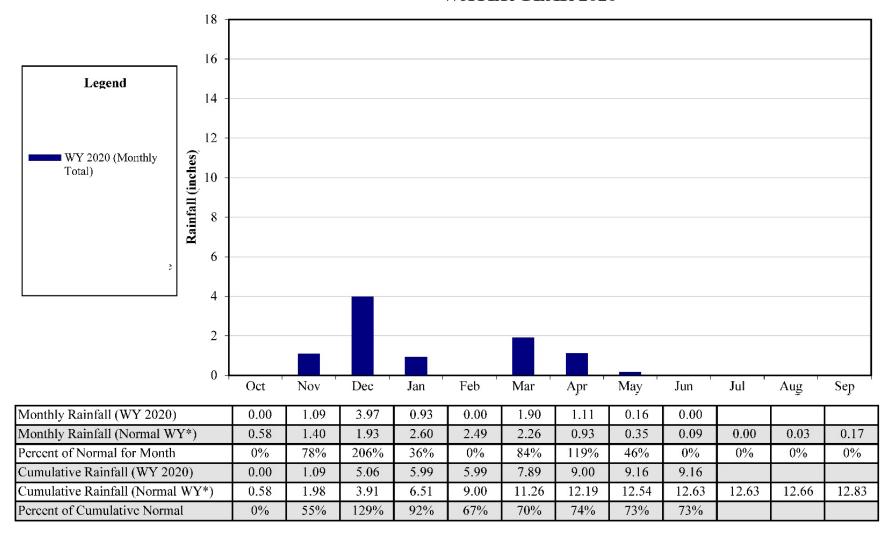
Receive Report on Salinas Valley Water Conditions Third Quarter of Water Year 2019-2020



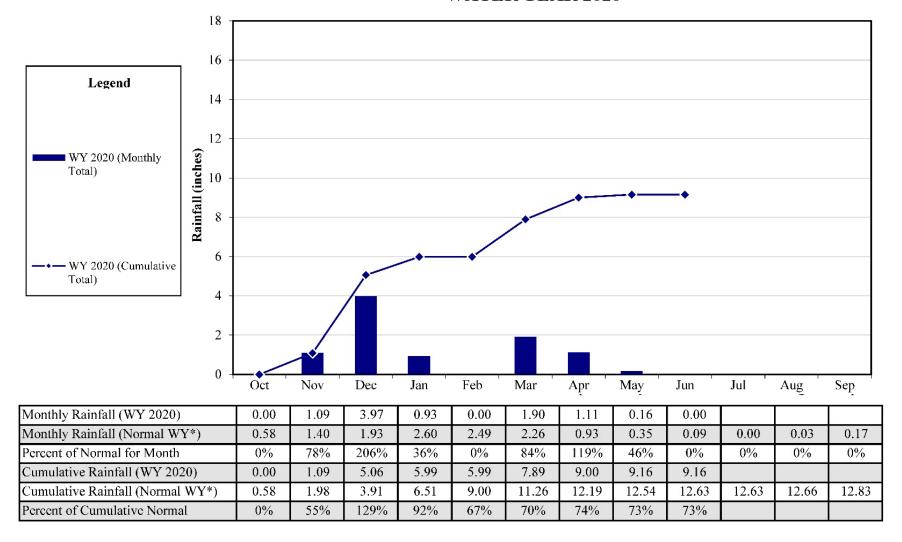
Quarterly Water Conditions Report

- 3rd Quarter (April- June)
- Summary of water conditions
 - Rainfall, Reservoirs, Groundwater Levels

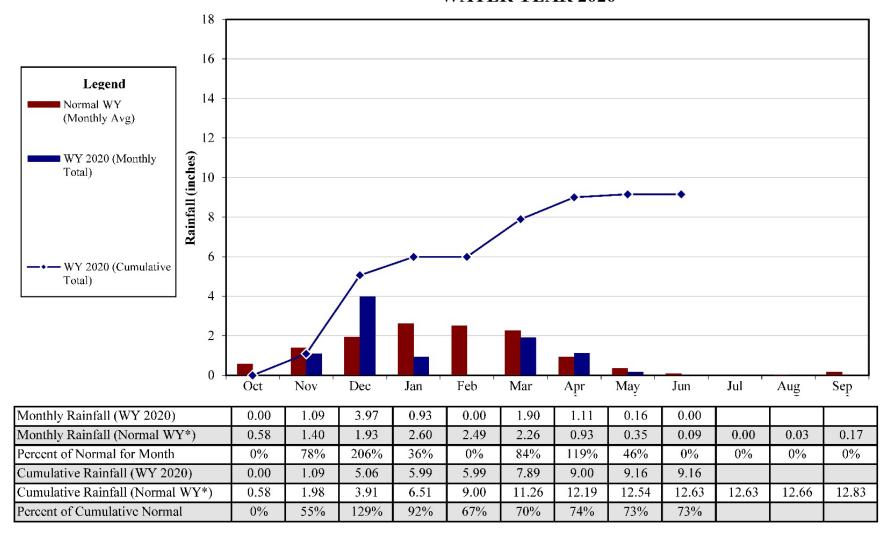




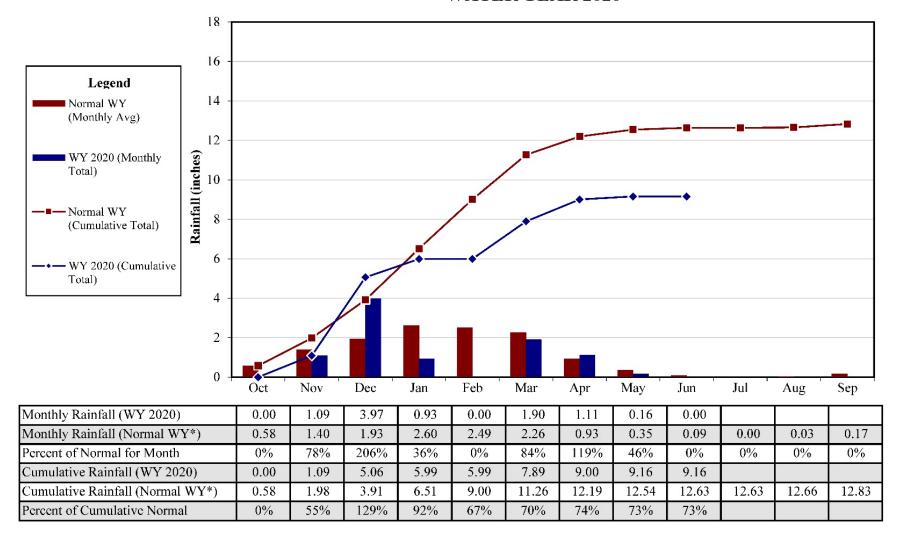




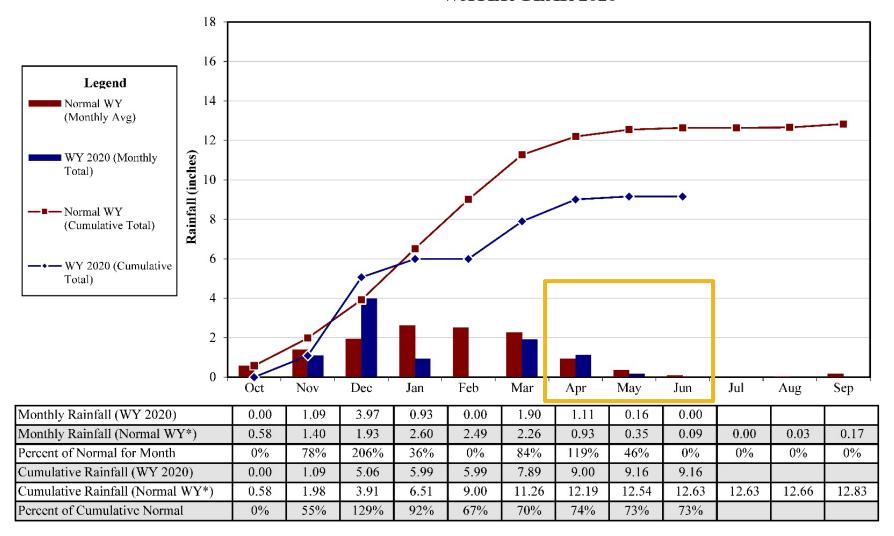




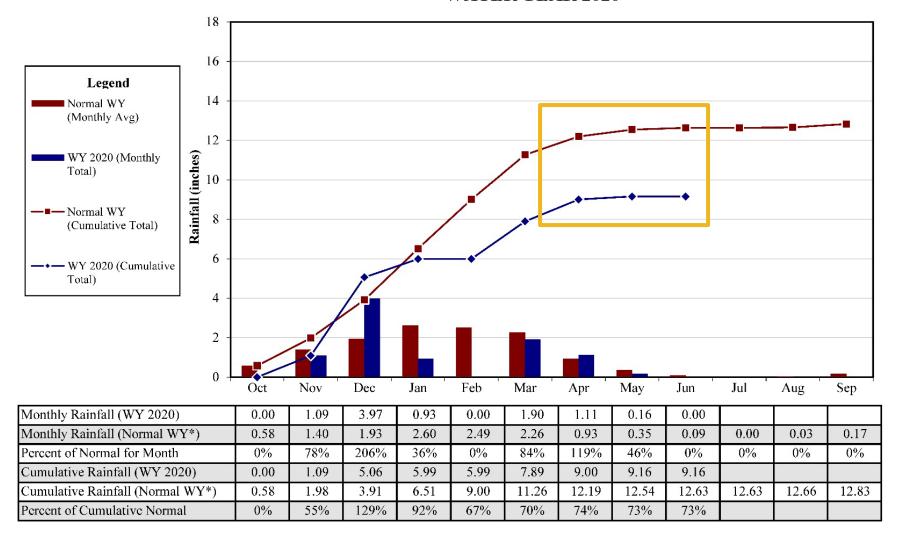






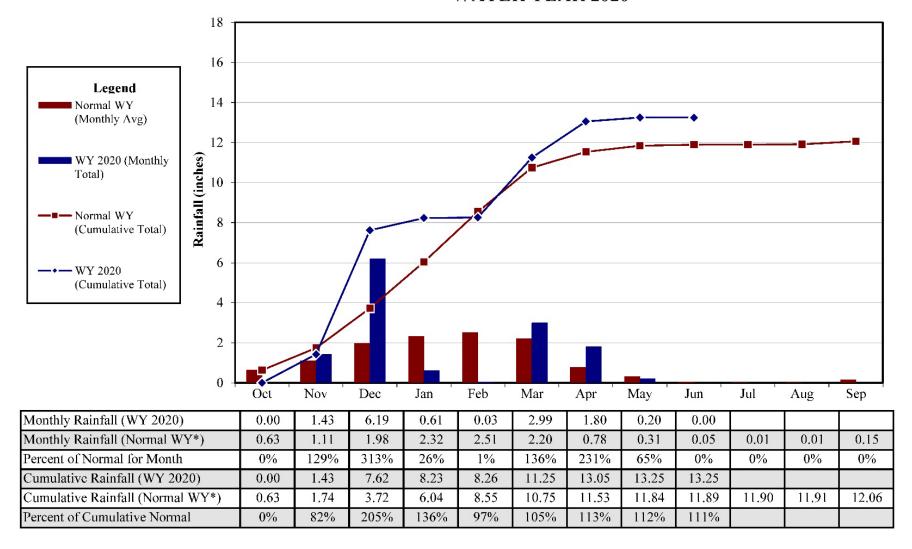






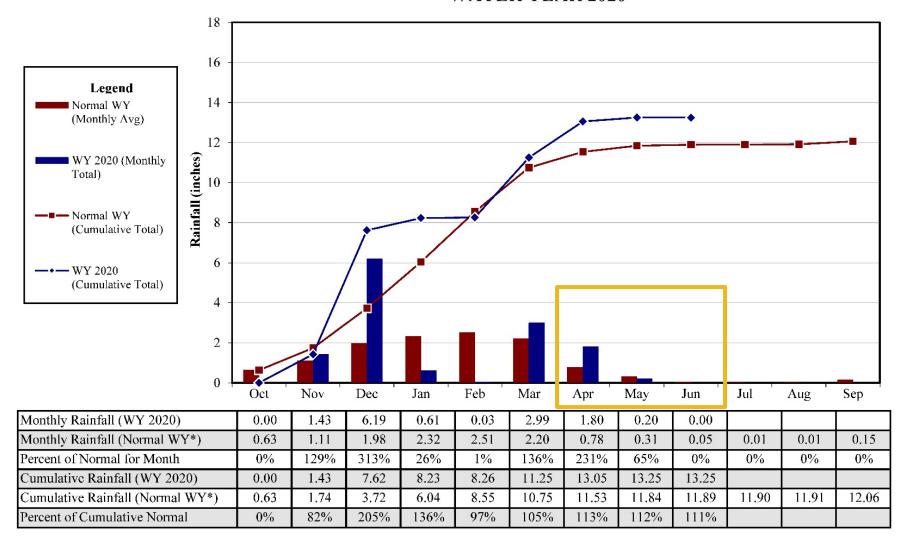


KING CITY RAINFALL WATER YEAR 2020



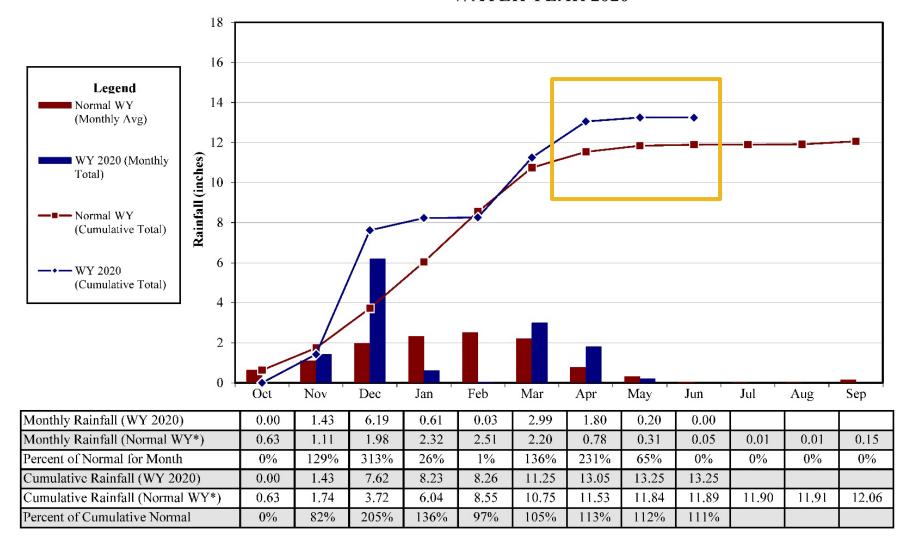


KING CITY RAINFALL WATER YEAR 2020



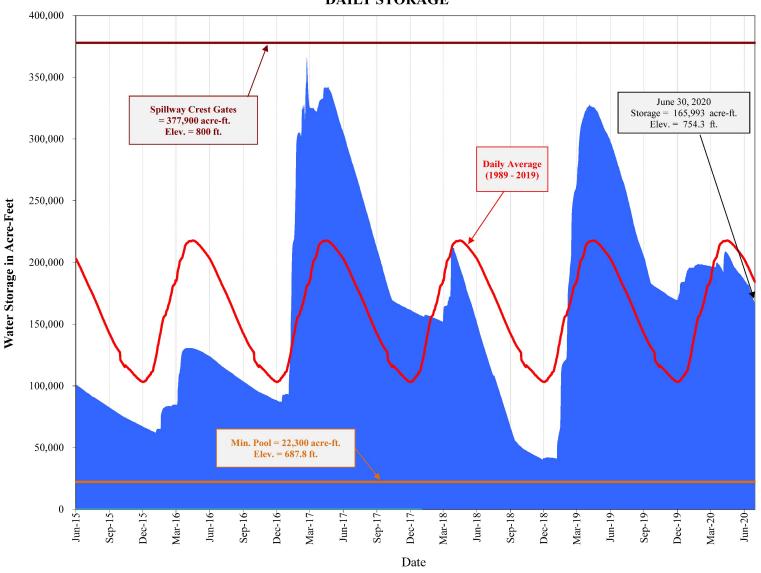


KING CITY RAINFALL WATER YEAR 2020



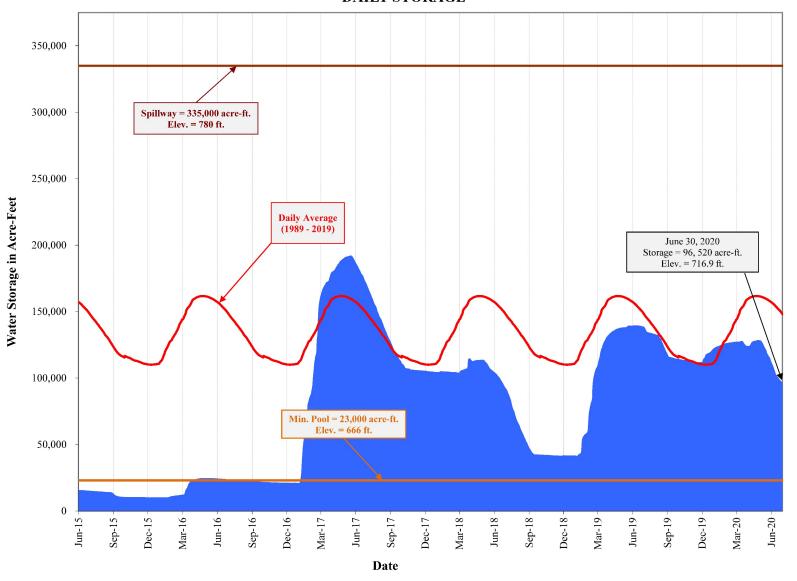


NACIMIENTO RESERVOIR DAILY STORAGE

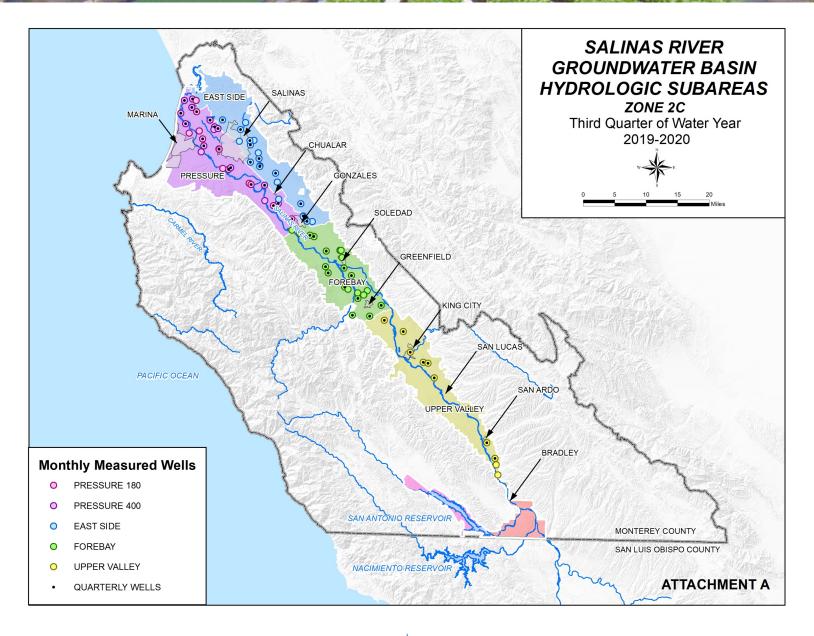




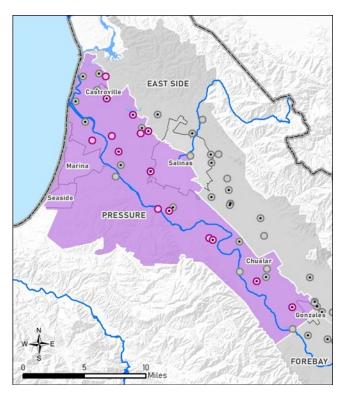
SAN ANTONIO RESERVOIR DAILY STORAGE



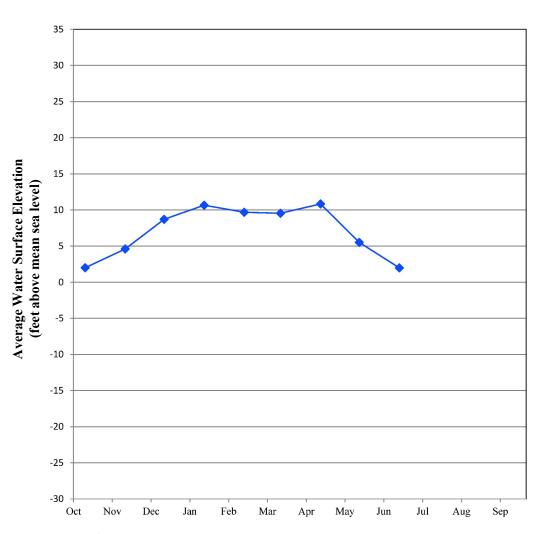




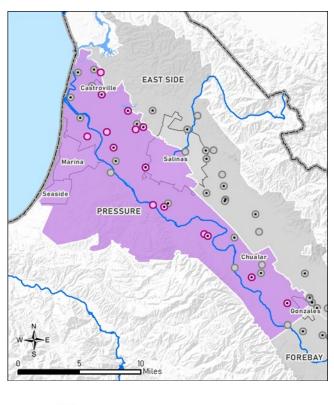


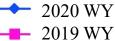


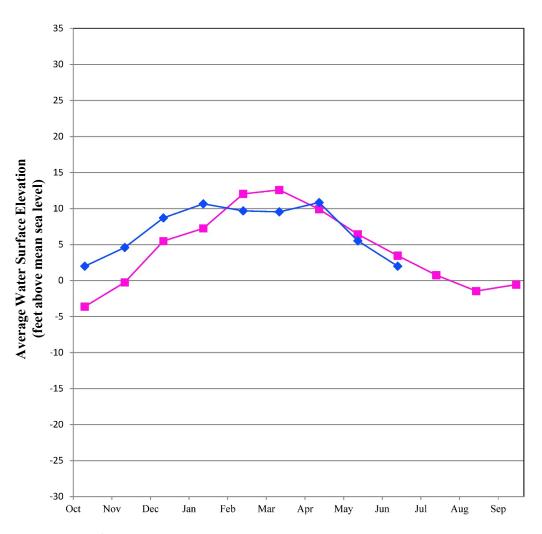




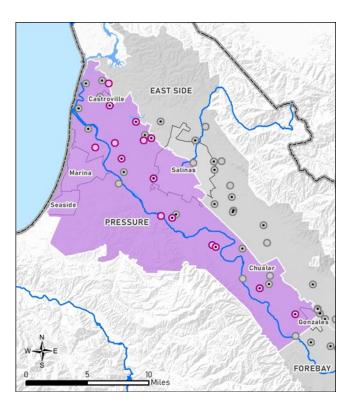








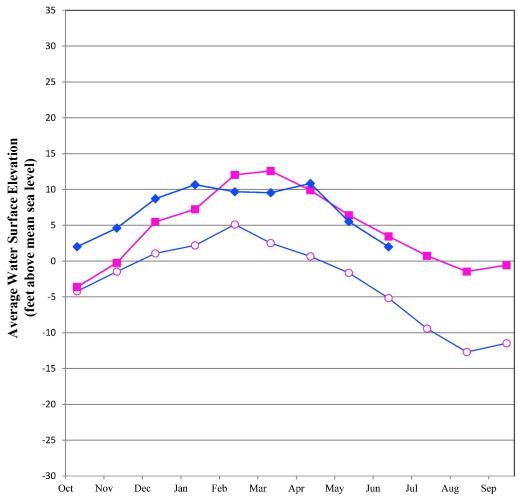




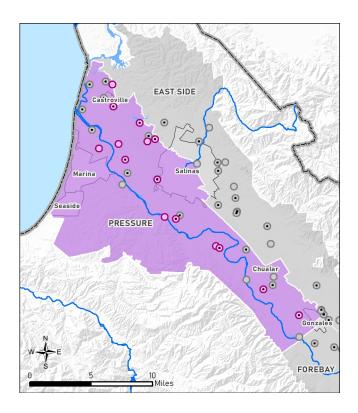
→ 2020 WY

─ 2019 WY

-0-: 2015 WY (Dry)



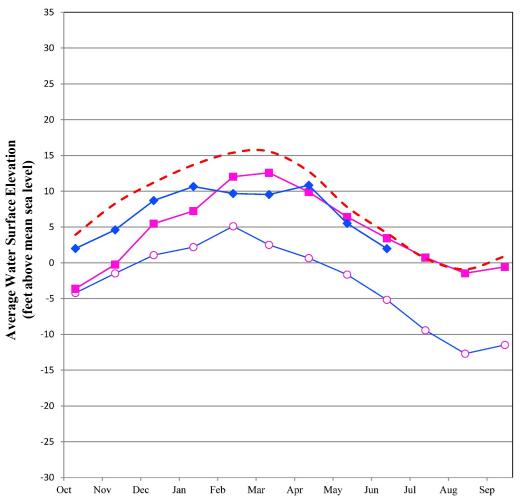




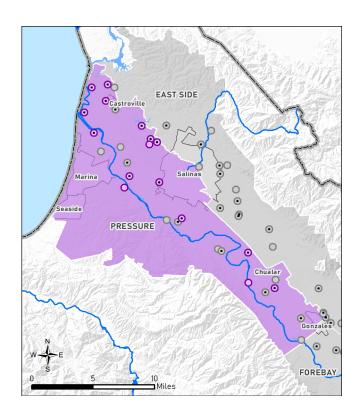
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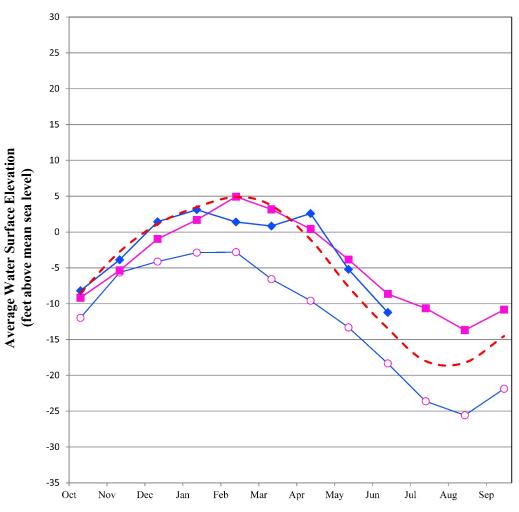




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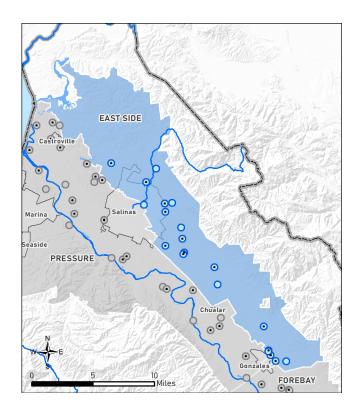
2019 WY

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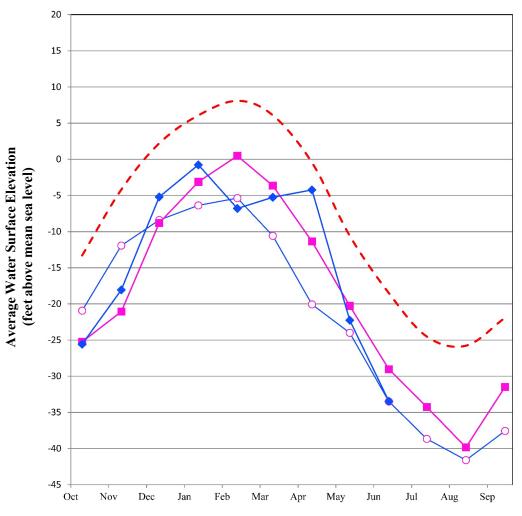
Groundwater Trends East Side Subarea 12 Wells





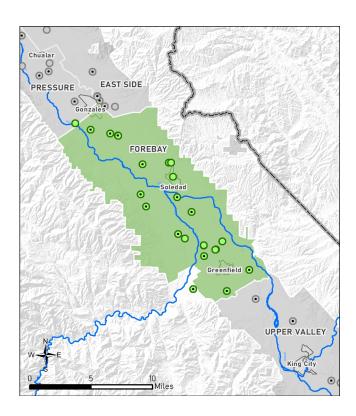
2019 WY

-○-: 2015 WY (Dry)





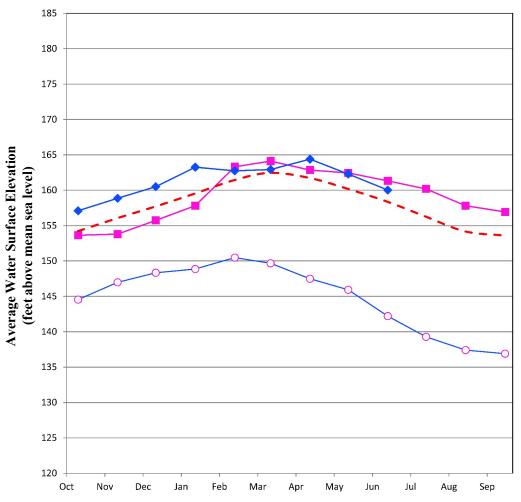
Groundwater Trends Forebay Subarea 13 Wells





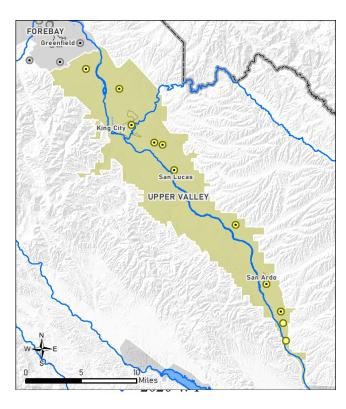
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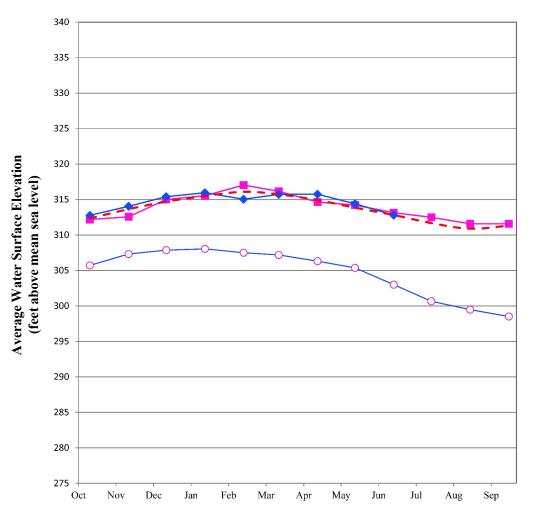
Groundwater Trends Upper Valley Subarea 10 Wells



→ 2020 WY

2019 WY

-0-: 2015 WY (Dry)





Groundwater Trends Summary June 2020

Area	June 2020 Groundwater Elevation (ft msl)	Change over Third Quarter	1 Year Change	Difference from 30 year Average Elevation
Pressure 180-Foot Aquifer	2 '	Down 8 '	Down 2 '	Down 2'
Pressure 400-Foot Aquifer	-11 '	Down 12 '	Down 3'	Up 2 '
East Side Subarea	-34 '	Down 28 '	Down 4'	Down 15'
Forebay Subarea	160 '	Down 3'	Down 1 '	Up 2 '
Upper Valley Subarea	313 '	Down 3 '	Down < 1'	No Change



