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PUBLIC WORKS

San Joaquin County

Working for YOU

San Joaquin County
Advisory Water Commission
October 15, 2025

Spring 2025 Semiannual
Groundwater Monitoring Report

Spring 2025 Groundwater Report Presentation Outline

- **Program overview**
- **October 2025 data integrity verification**
  - Comparison to October 2024 groundwater level measurements
- **Spring 2025 groundwater level measurements**
  - Comparison to Spring 2024 measurements

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Groundwater Monitoring Program Overview

- **San Joaquin County has measured groundwater levels semiannually since 1971**
  - Data stored in Water Resources Division databases
- **Measurements taken at over 200 monitoring wells and production wells each Spring and Fall**
  - Attempt to capture annual high groundwater levels in the Spring and annual low groundwater levels in the Fall

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Groundwater Monitoring Program Overview

- **2014 California Sustainable Groundwater Management Act (SGMA)**
  - High-priority, critically overdrafted subbasins such as the Eastern San Joaquin Subbasin must achieve sustainable yield by 2040
  - Medium-priority, moderately overdrafted subbasins such as the Tracy Subbasin must achieve sustainable yield by 2042

Groundwater Monitoring Program Overview

- **2014 California Sustainable Groundwater Management Act (SGMA)**
  - SGMA requires semiannual measurements for certain wells specified in Groundwater Sustainability Plans (GSPs) for the Eastern San Joaquin Subbasin and Tracy Subbasin
  - Used (among other factors) to evaluate regulatory compliance

October 2025 Data Integrity Verification Exercise

(Comparison to Fall 2024 Groundwater Level Measurements)

- **Water Resources Division staff periodically analyze whether groundwater level measurements are accurate/valid**
- **Staff and our consultant measured groundwater levels at 5 production wells, each paired with a nearby monitoring well, last week**

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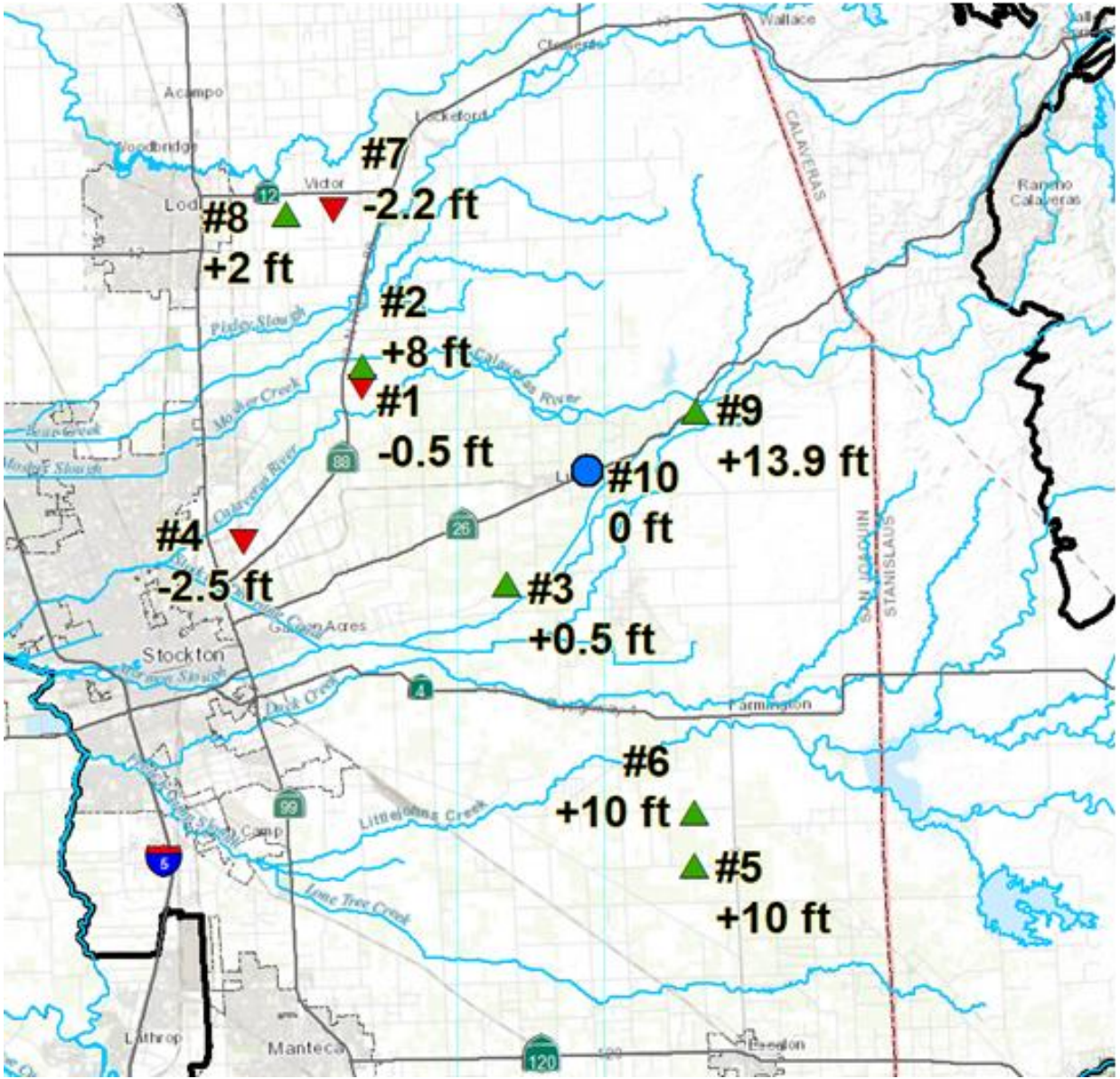
October 2025 Data Integrity Verification Exercise

(Comparison to Fall 2024 Groundwater Level Measurements)



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October 2025 Data Integrity Verification Exercise

(Comparison to Fall 2024 Groundwater Level Measurements)

Conclusion:

These values fall within the natural expected range of variability; therefore, we have no reason to question the accuracy/validity of the data

Well #	WSE Fall 2024 (feet)	WSE Fall 2025 (feet)	Change 24-25 (feet)
1	-116.0	-116.5	-0.5
2	-75.0	-66.7	+8.3
3	-103.0	-102.5	+0.5
4	-33.5	-36.0	-2.5
5	-31.7	-21.7	+10.0
6	-48.0	-38.0	+10.0
7	-42.0	-44.2	-2.2
8	-37.0	-35.4	+1.6
9	-42.0	-28.1	+13.9
10	-86.0	-86.0	0.0
Average			+6.7

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Spring 2025 Groundwater Level Measurements

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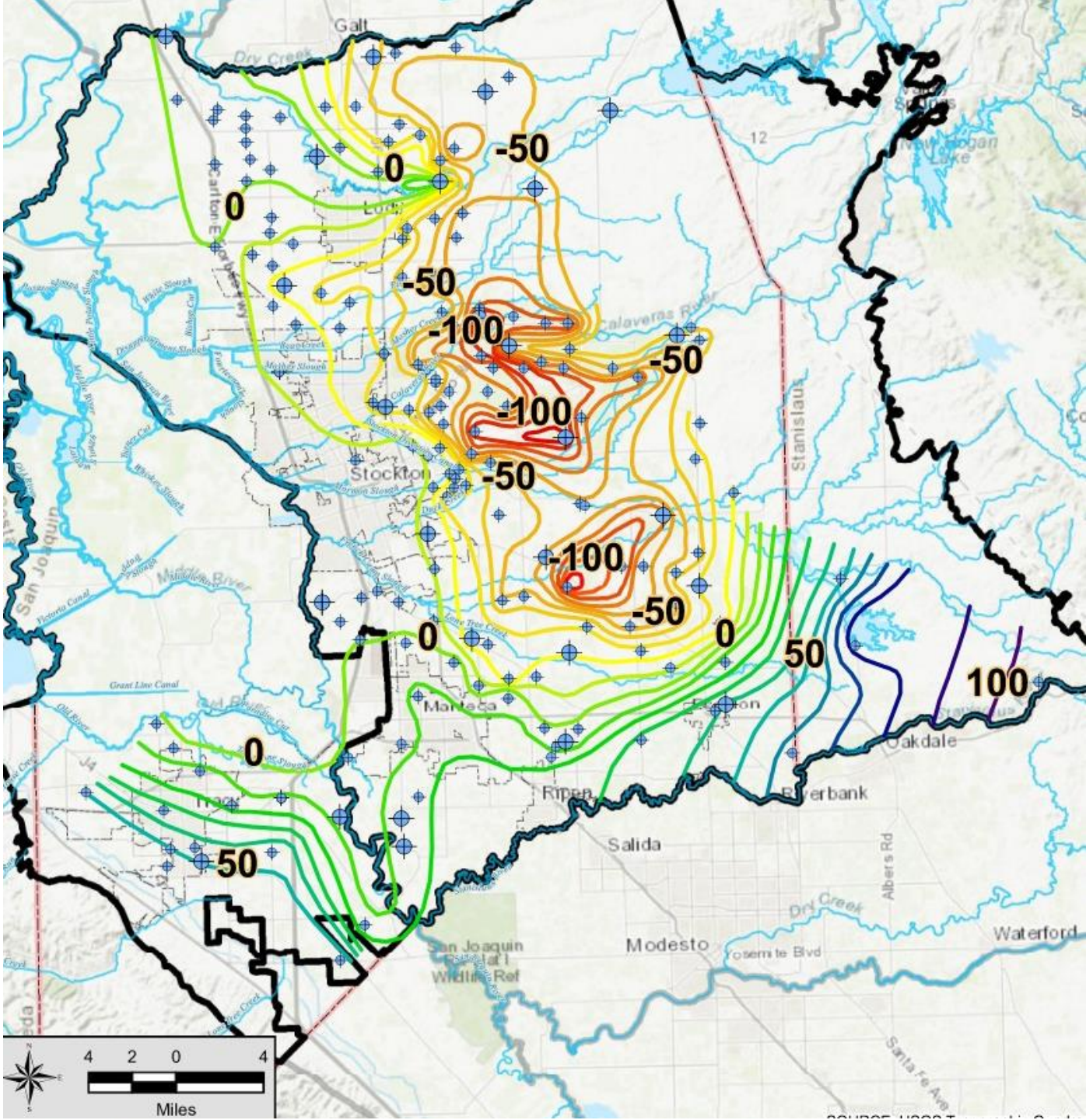
Hydrologic Setting
(Spring 2024 – Spring 2025)

- Precipitation within the county was 50-75% of average between Spring 2024 and Spring 2025
- Reservoir releases/river flows varied, but trended toward normal

Spring 2025 Groundwater Elevations

(feet, MSL)



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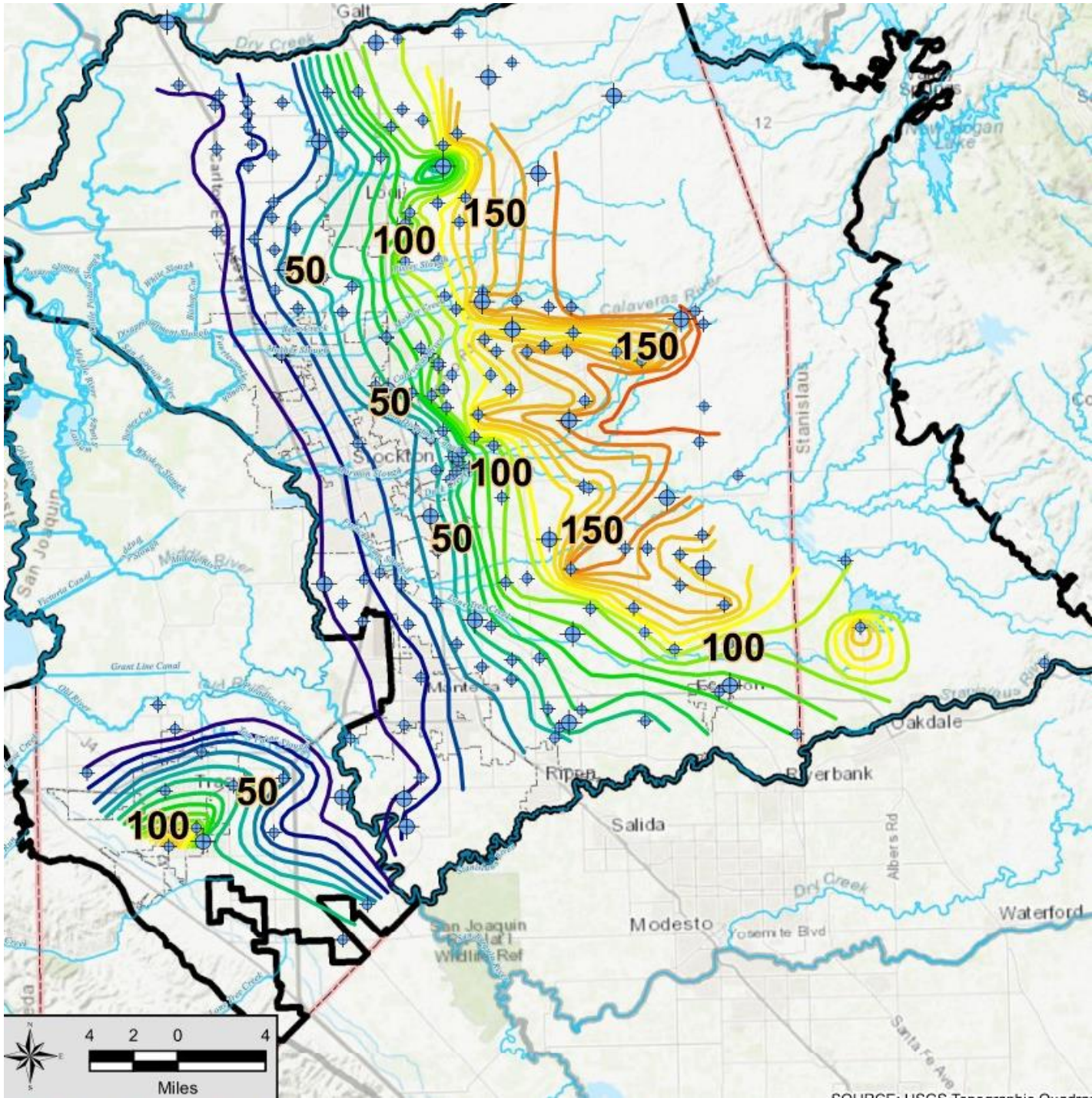
Spring 2025 Depth to Groundwater (feet, bgs)



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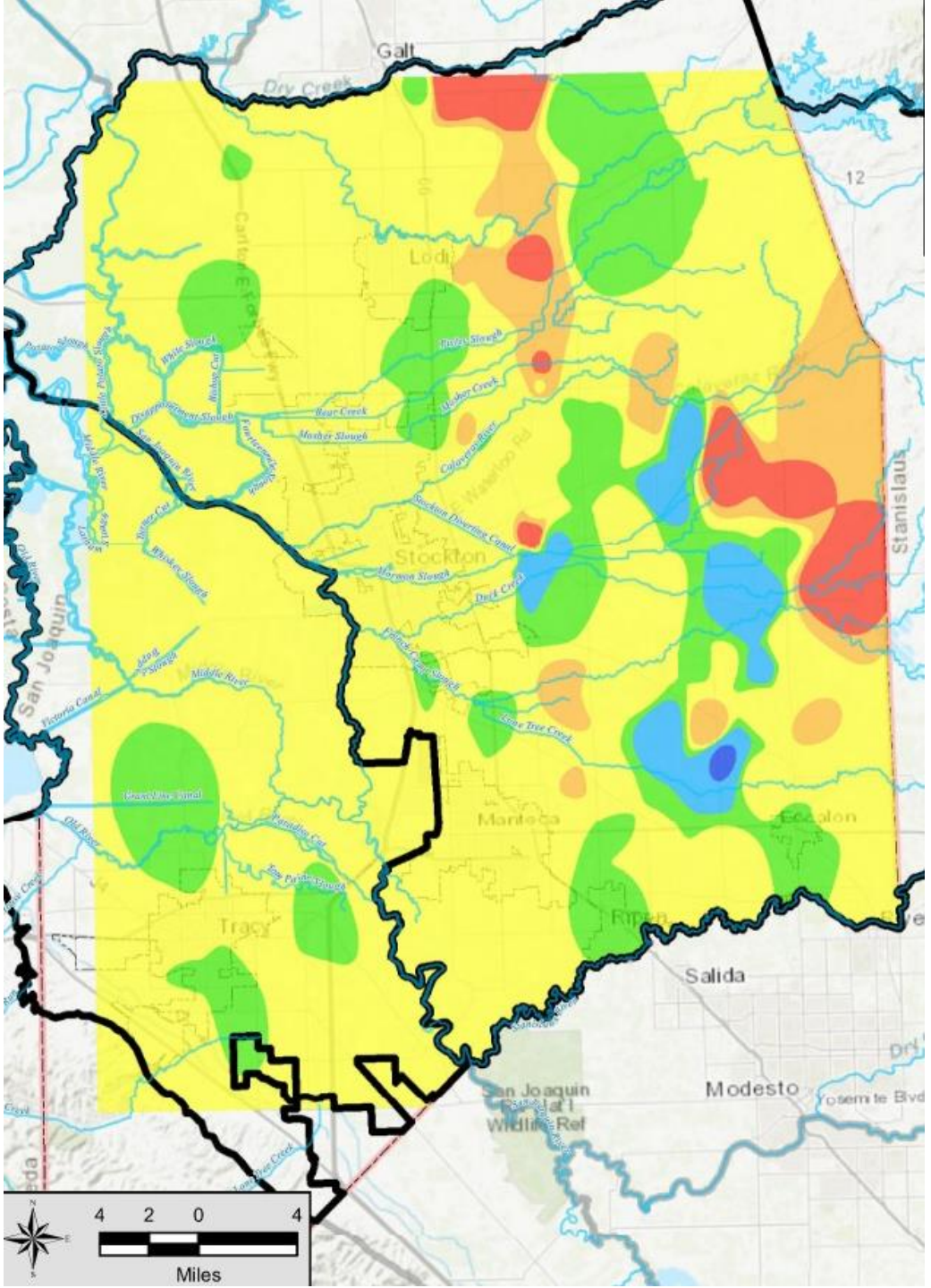
Groundwater Level Change (feet)

Spring 2024 to Spring 2025

- < -25
- -25 to -12.5
- -12.5 to 0
- 0 to 12.5
- 12.5 to 60
- > 60



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Groundwater Level Comparison
Spring 2024 to Spring 2025

Number of Wells Spring 2024 - 2025			Change in Elevation (feet)	
GSA	**WSE Decrease**	**WSE Increase**	**Range**	**Average**
CSJWCD	11	4	-13.8 to 21.0	-2.6
NSJWCD	9	3	-14.5 to 8.5	-3.2
OID	1	0	--	-6.0
SEWD	29	12	-19.0 to 23.5	-2.5
SSJID	14	3	-6.0 to 6.0	-1.4
Tracy	9	15	-7.5 to 3.8	0.3
WID	15	1	-6.0 to 1.5	-2.1
Stanislaus	1	2	-8.8 to 3.4	-1.1
Total	**89**	**40**	**Average change (ft)**	**-1.8**

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Link to Groundwater Reports

Groundwater Reports

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