https://www.sjwater.org/Water-Resources-Management/Groundwater/Groundwater-Reports

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PUBLIC WORKS
San Joaquin County
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Semi-annual Groundwater Monitoring Report

Fall 2024

Published July 2025

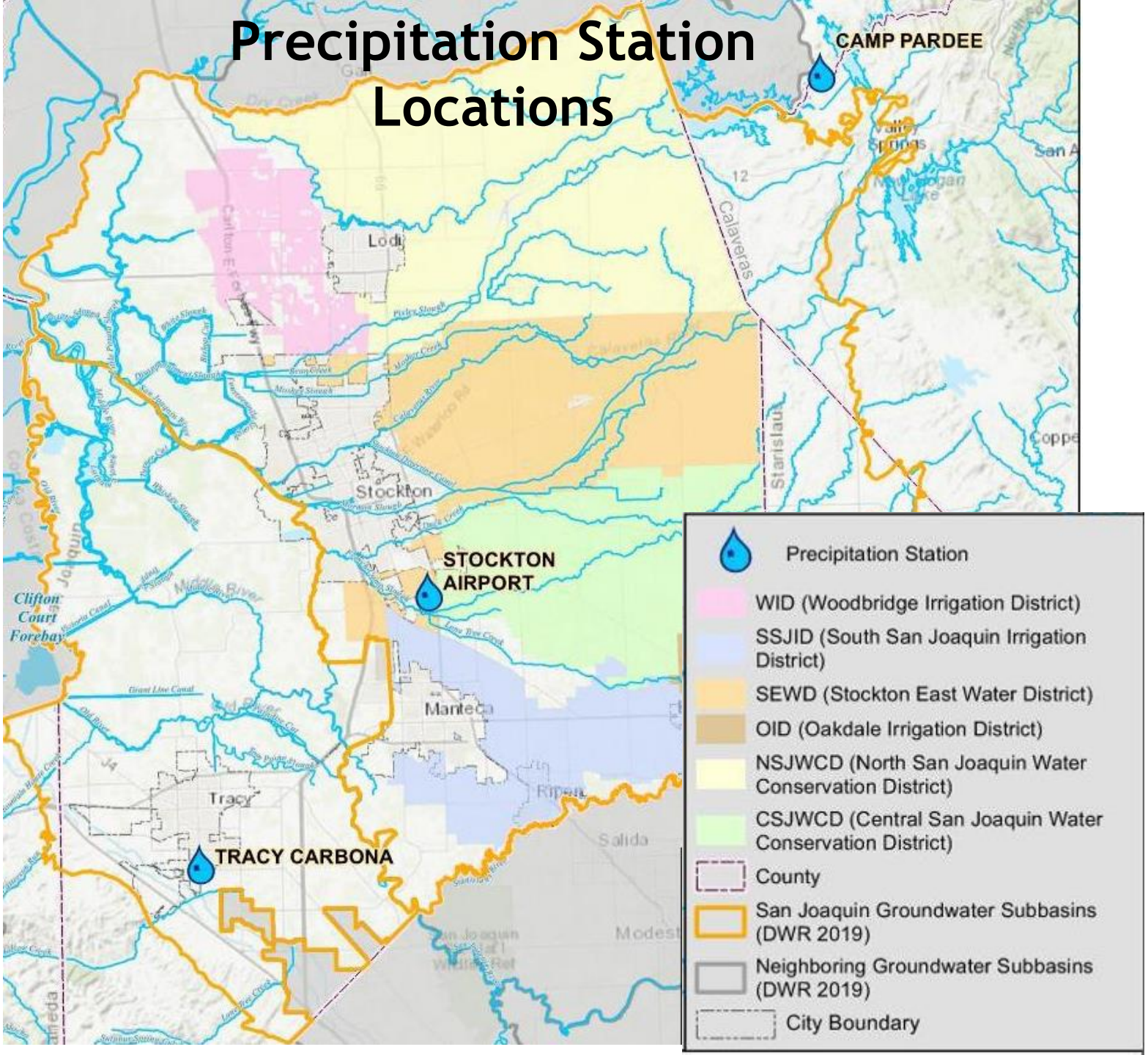
Data from federal , state, local agencies and non-governmental agencies

- **Eastern San Joaquin Groundwater Subbasin(ESJSb)**
  - ❖ **Portions of Calaveras County, Stanislaus and San Joaquin County east of San Joaquin River**
- **Tracy Groundwater Subbasin(TSb)**
  - ❖ **Small portion of Alameda County and San Joaquin County west of San Joaquin River**

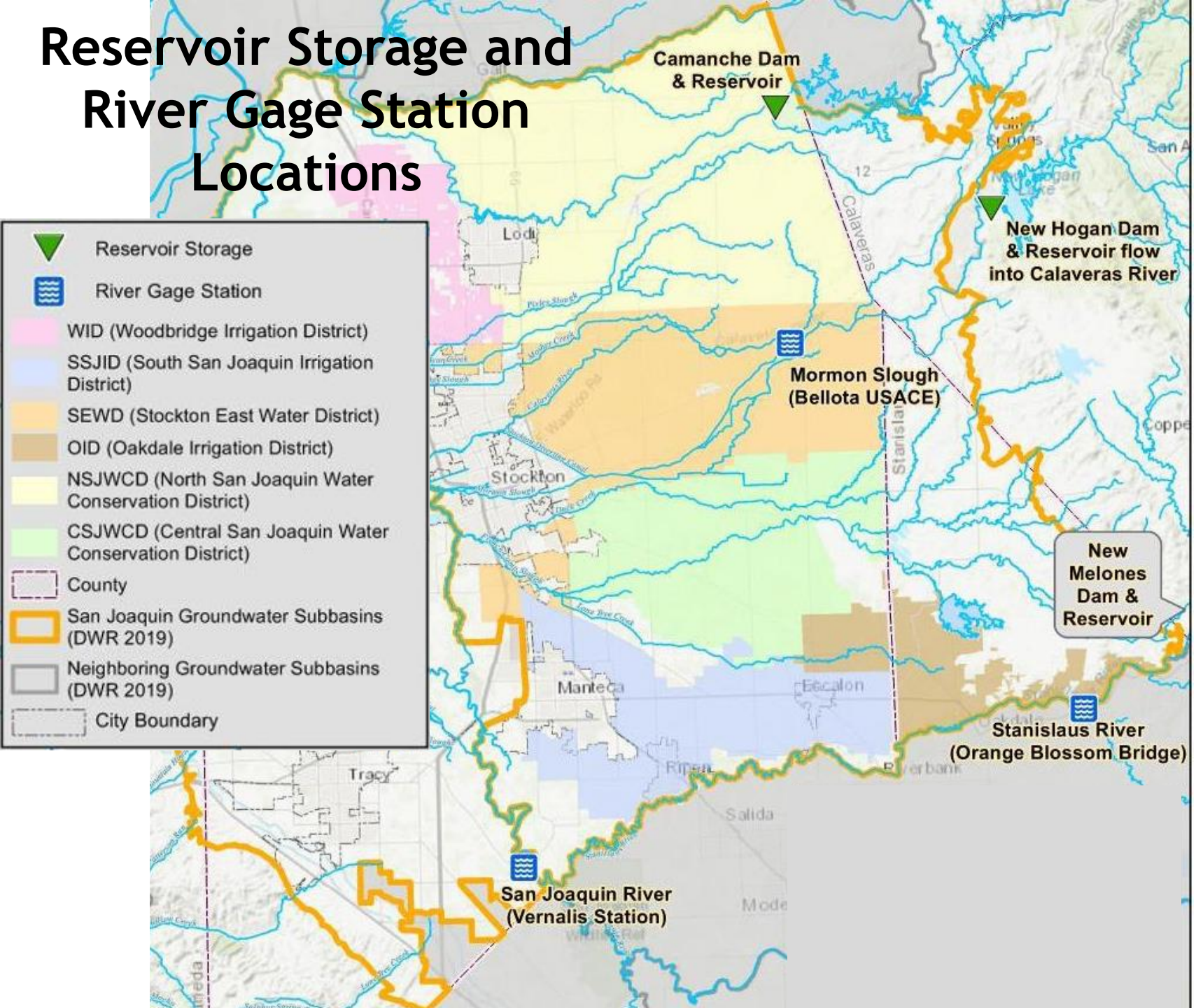
Groundwater Monitoring Program

- **Measured in March and October (WQ only in October)**
- **Groundwater Report published- late spring and summer**

Precipitation Station Locations



Reservoir Storage and River Gage Station Locations



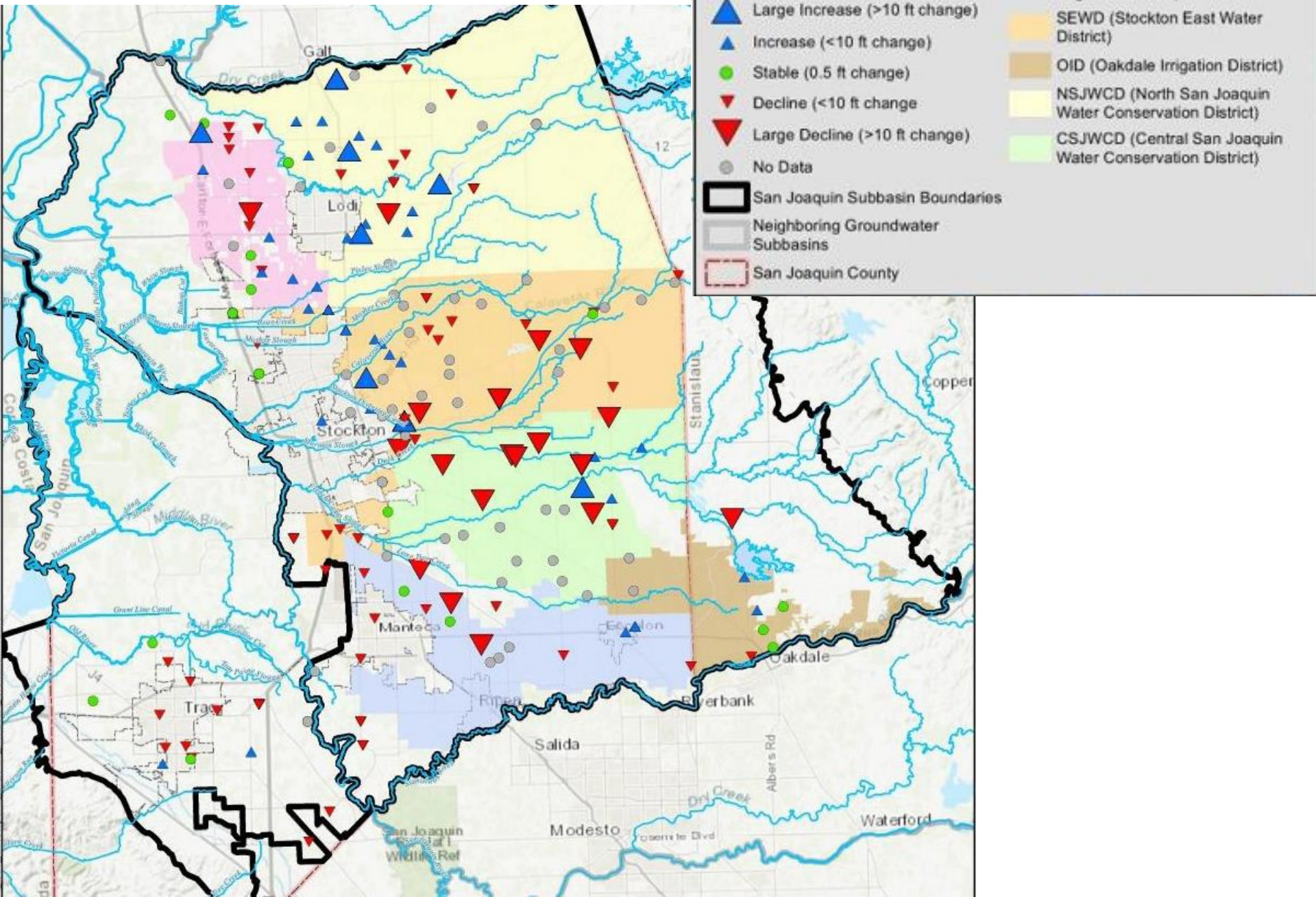
Rainfall Distribution

Precipitation Station	Average (in)	WY 2024 (inches)	Note:
Tracy Carbona	9.91	12.25	Average
Stockton Airport	13.57	14.40	Above Average
Camp Pardee	21.33	19.07	Below Average

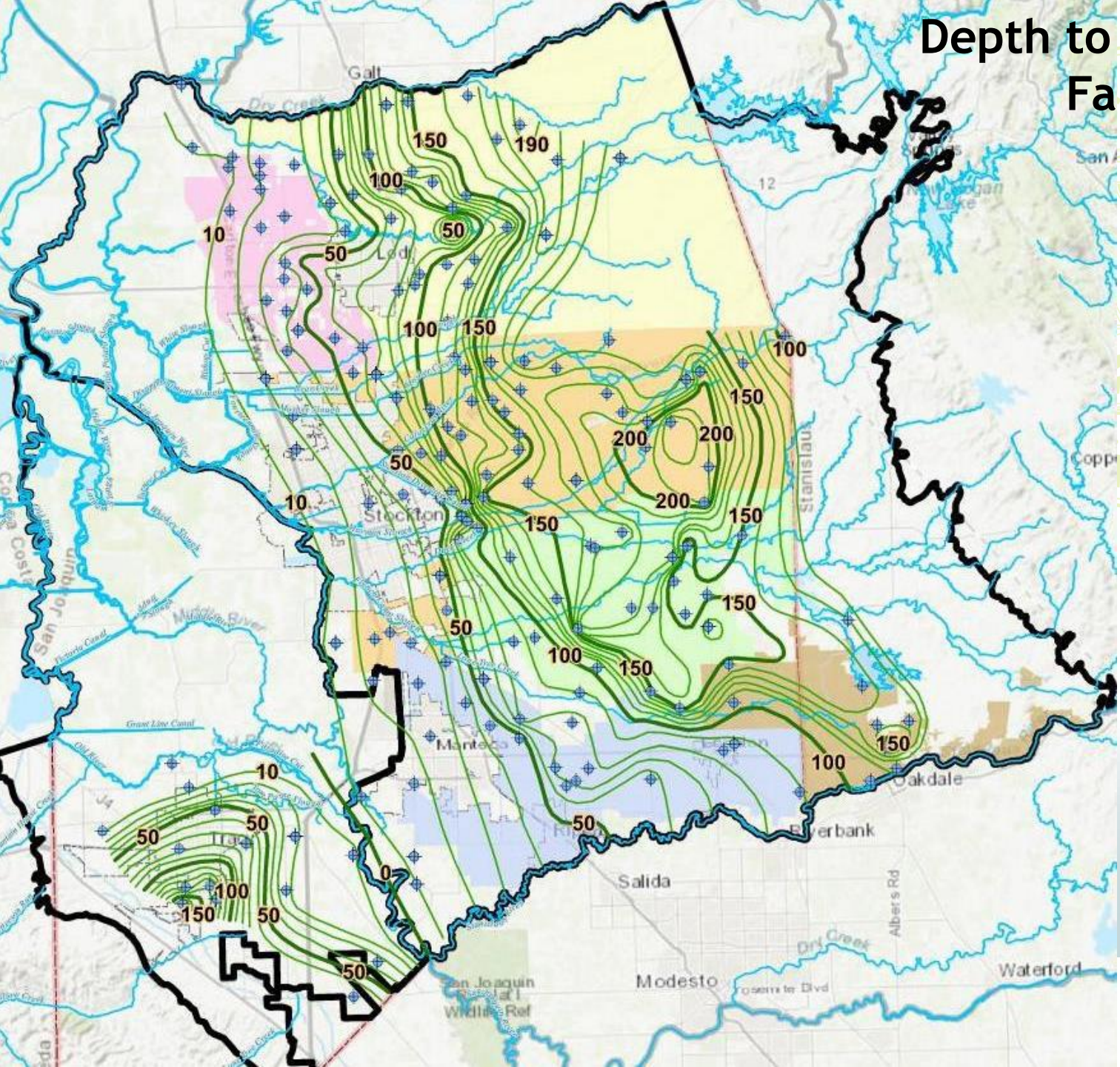
Reservoir Storage

Station Name	River Basin	Station Type	Total Capacity	Total Storage Start of WY 2024	Total Storage End of WY 2024	Peak Storage WY 2024
Camanche Reservoir	Mokelumne River	EBMUD Storage	417 TAF	84% Capacity	87% Capacity	95% Capacity
New Hogan Reservoir	Calaveras River	USACE Storage	317 TAF	60% Capacity	58% Capacity	76% Capacity
New Melones Reservoir	Stanislaus River	USACE Storage	2.5 MAF	78% Capacity	75% Capacity	87% Capacity

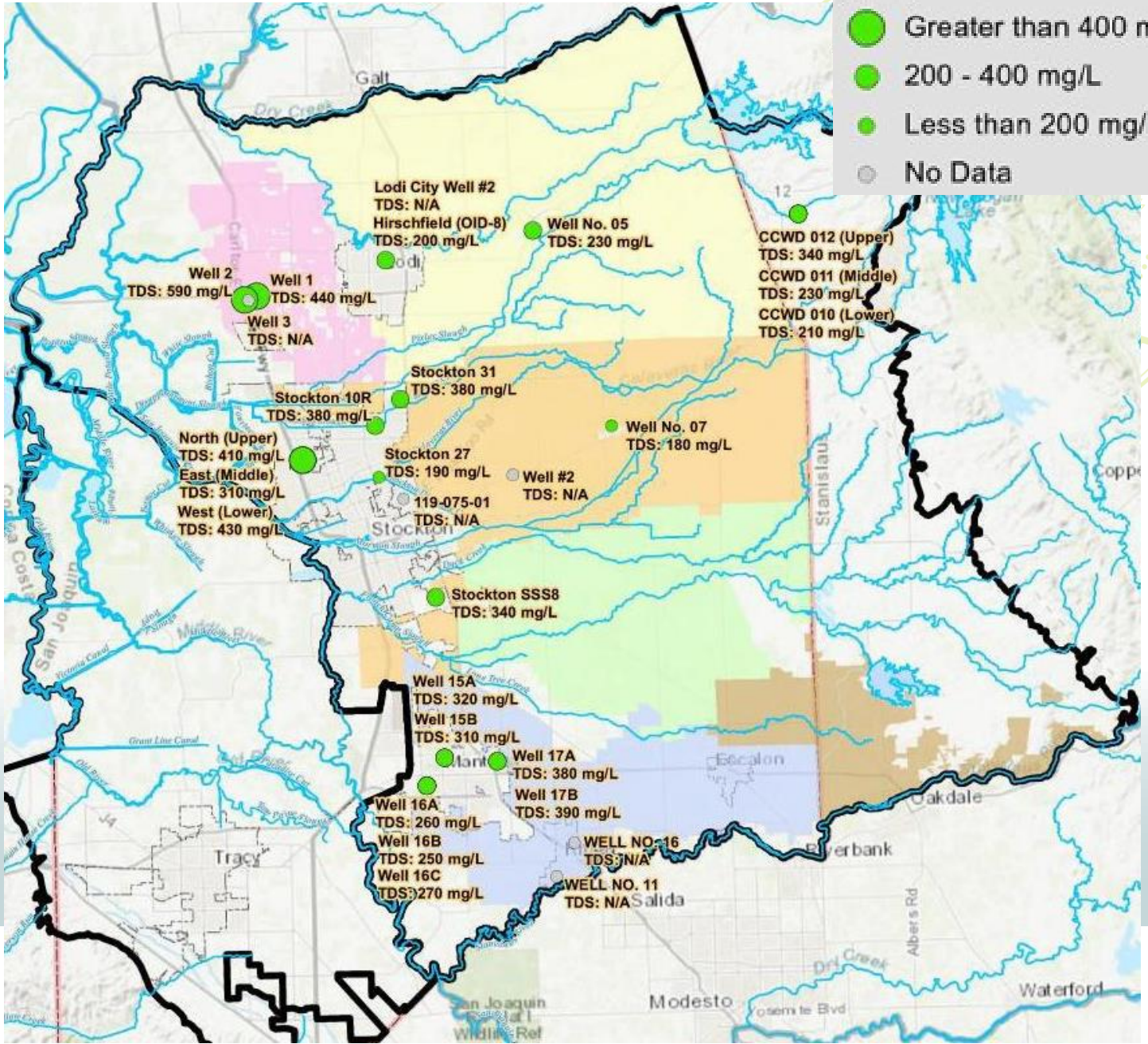
Change in Groundwater Elevation - Fall 2023 to Fall 2024



Depth to Groundwater Fall 2024



Total Dissolved Solids Concentrations



SAN JOAQUIN COUNTY

Groundwater Level Changes - Summary

- Groundwater elevations decrease from east to west towards the middle of the ESJsb with the deepest point reaching 110 feet below MSL.

Groundwater Quality Monitoring- Summary

- Fall 2024 measurements show general increased TDS levels along the western Delta portion of the ESJSb

- Nitrate (0.1 to 8.9 mg/L) across the ESJsb. The highest measurements were recorded in the northwest and southwest corners of the basin

- Chloride (3 to 81 mg/L) across the ESJsb. The highest measurements were recorded in the west

Questions and Answers

Link to the Groundwater Report:

https://www.sjwater.org/Water-Resources-Management/Groundwater/Groundwater-Reports