Glenn County Drought Task Force

2023 Spring Groundwater Update

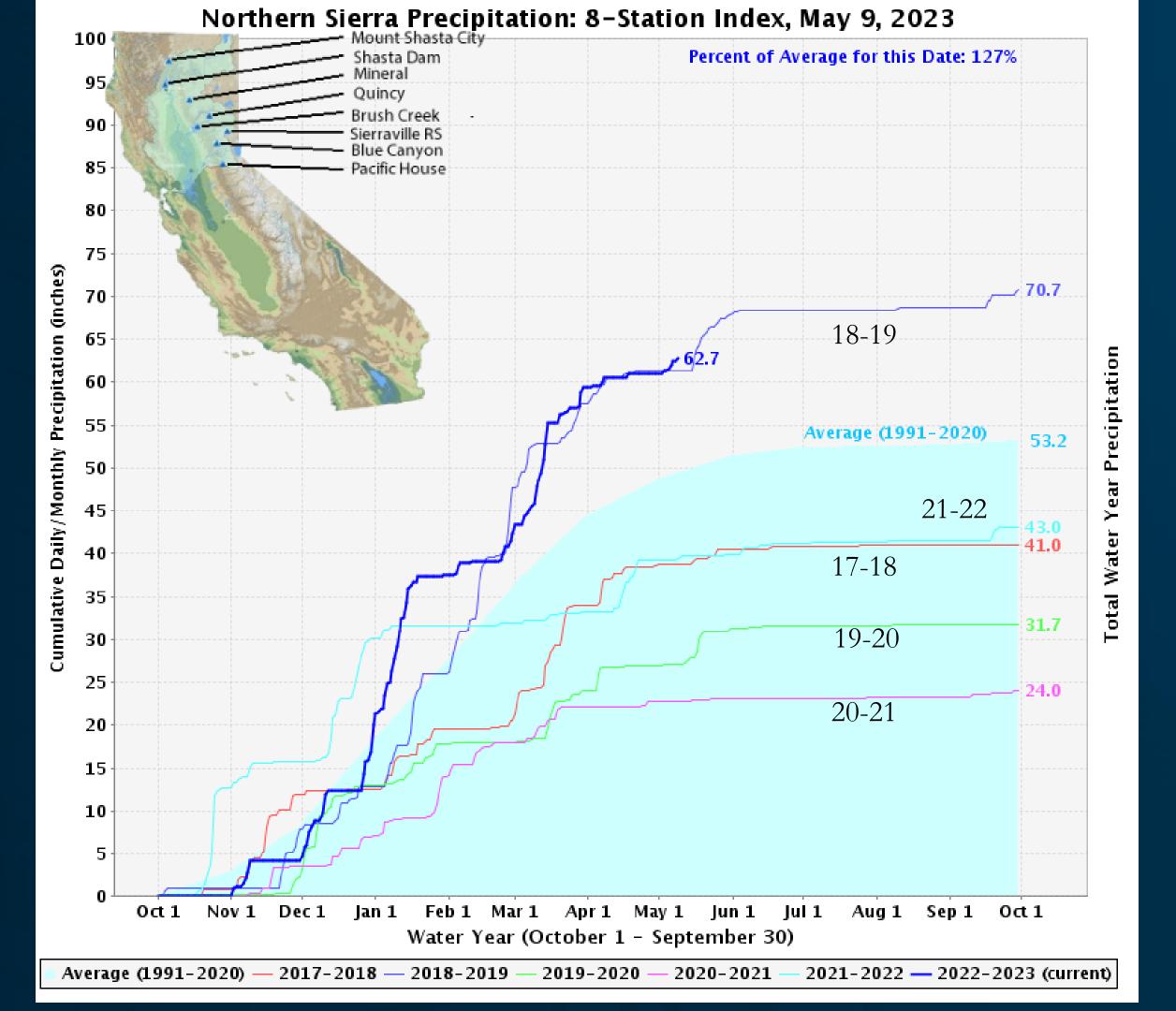
Bill Ehorn

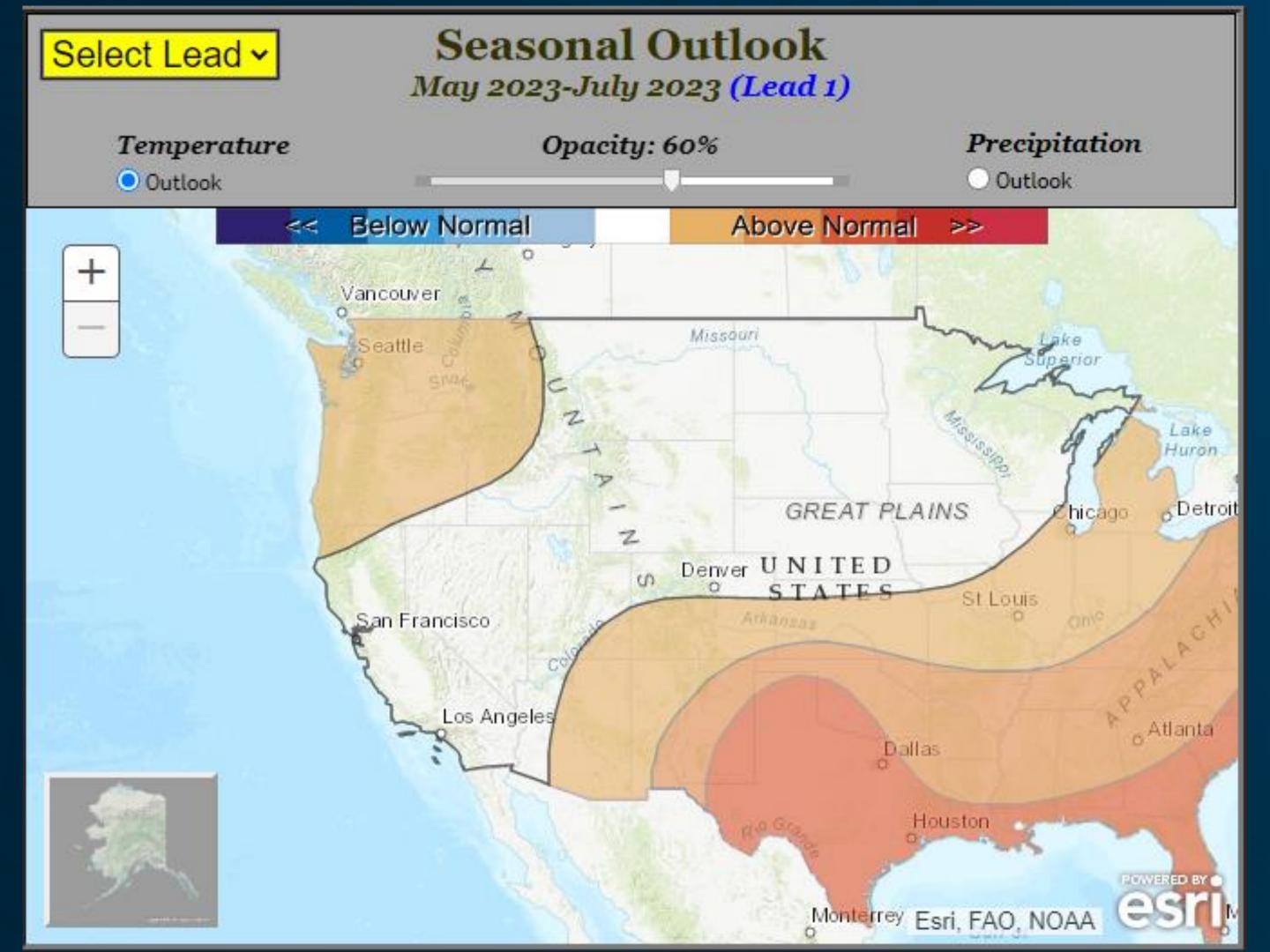
Engineering Geologist

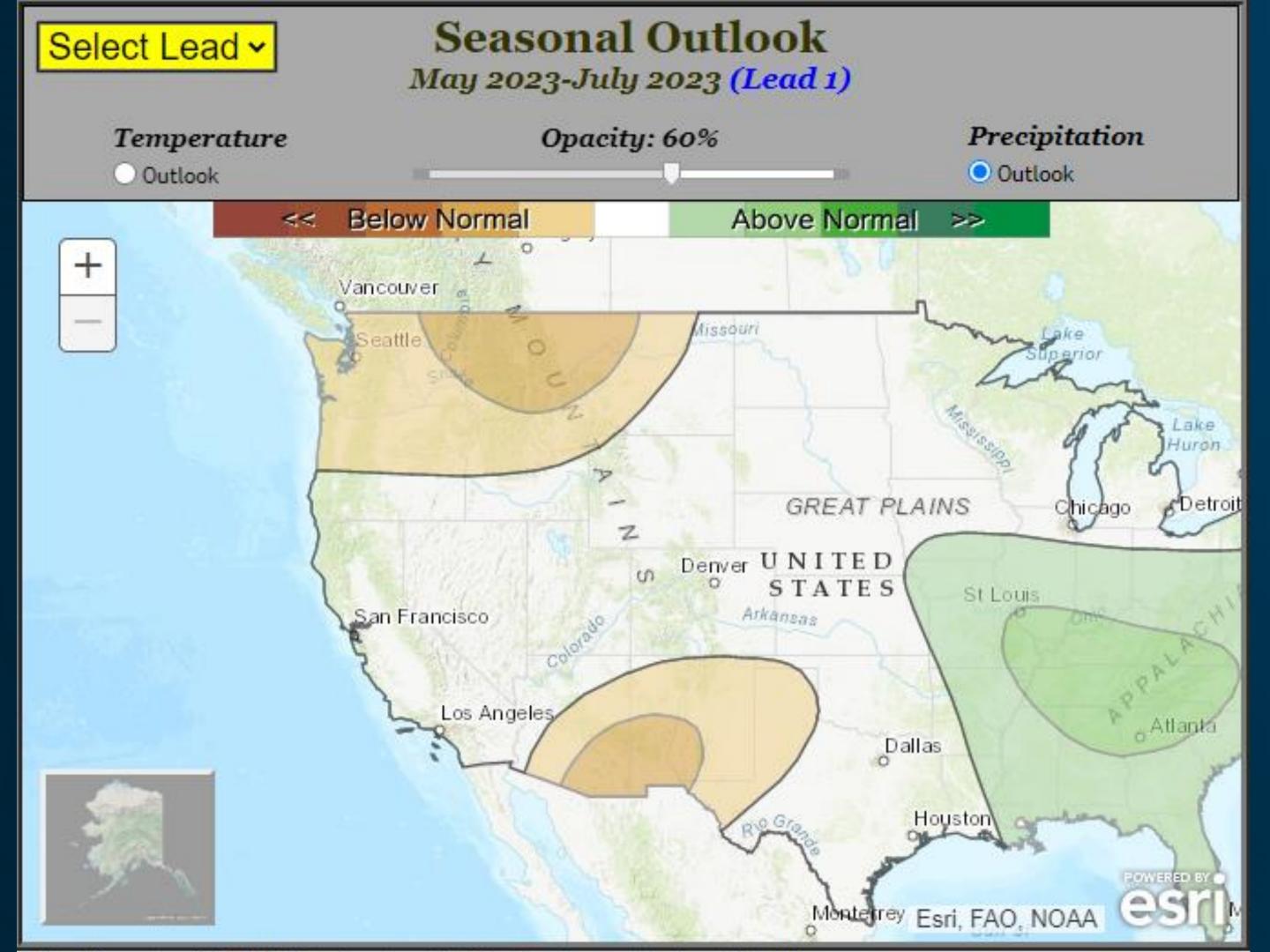
DWR Northern Region

Outline

- Water Year and Precipitation Index
- NOAA Climate Prediction
- Land Use and Water Source Change Maps
- Groundwater Change Maps
- Land Subsidence Change Maps







Change in Land Use – Glenn and Tehama Counties

Glenn County

Croptype	2003 Acres	2020 Acres	Difference	Percent Change
Citrus	5,183	8,660	3,477	67%
Deciduous	53,652	108,257	54,605	102%
Field	30,268	16,217	-14,051	-46%
Grain	21,760	14,137	-7,623	-35%
Idle	8,056	16,564	8,508	106%
Pasture	38,879	21,185	-17,694	-46%
Rice	90,644	77,154	-13,490	-15%
Truck	2,789	2,757	-32	-1%
Vineyard	1,438	3	-1,435	-100%
Totals	252,669	264,934	12,265	

Overall Gain

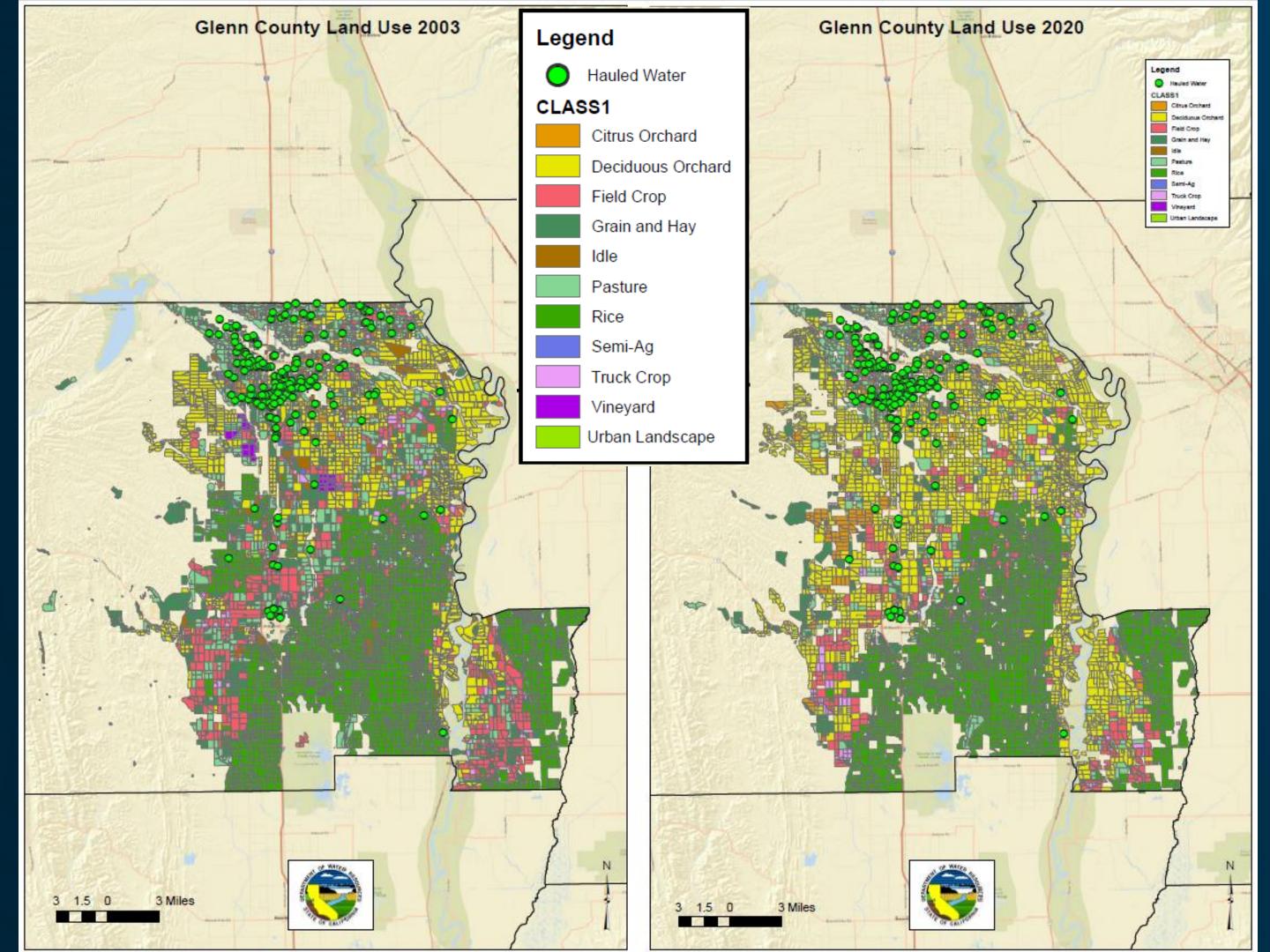
Loss of Rice above is reflected in gain of Idle...

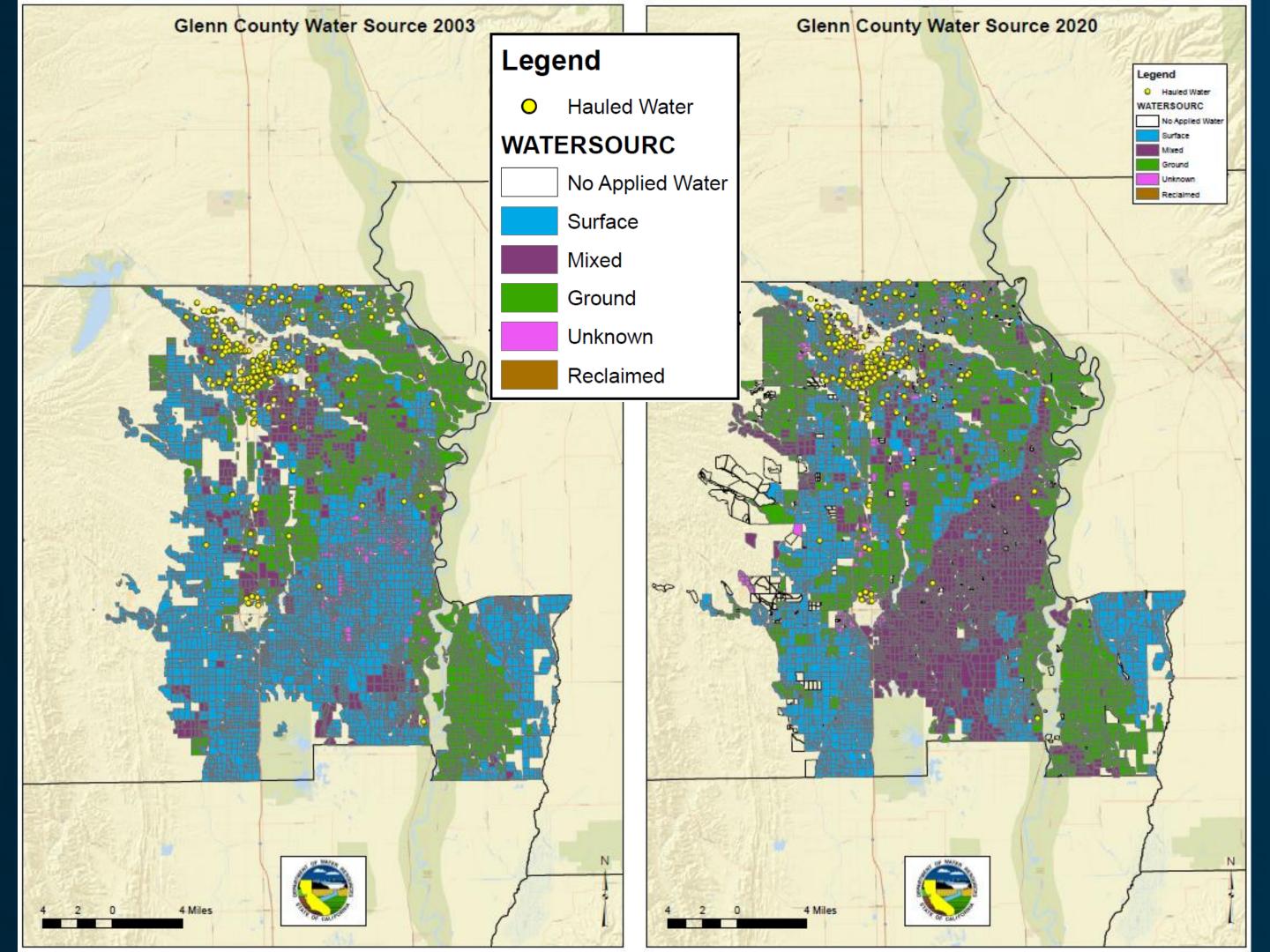
Tehama County

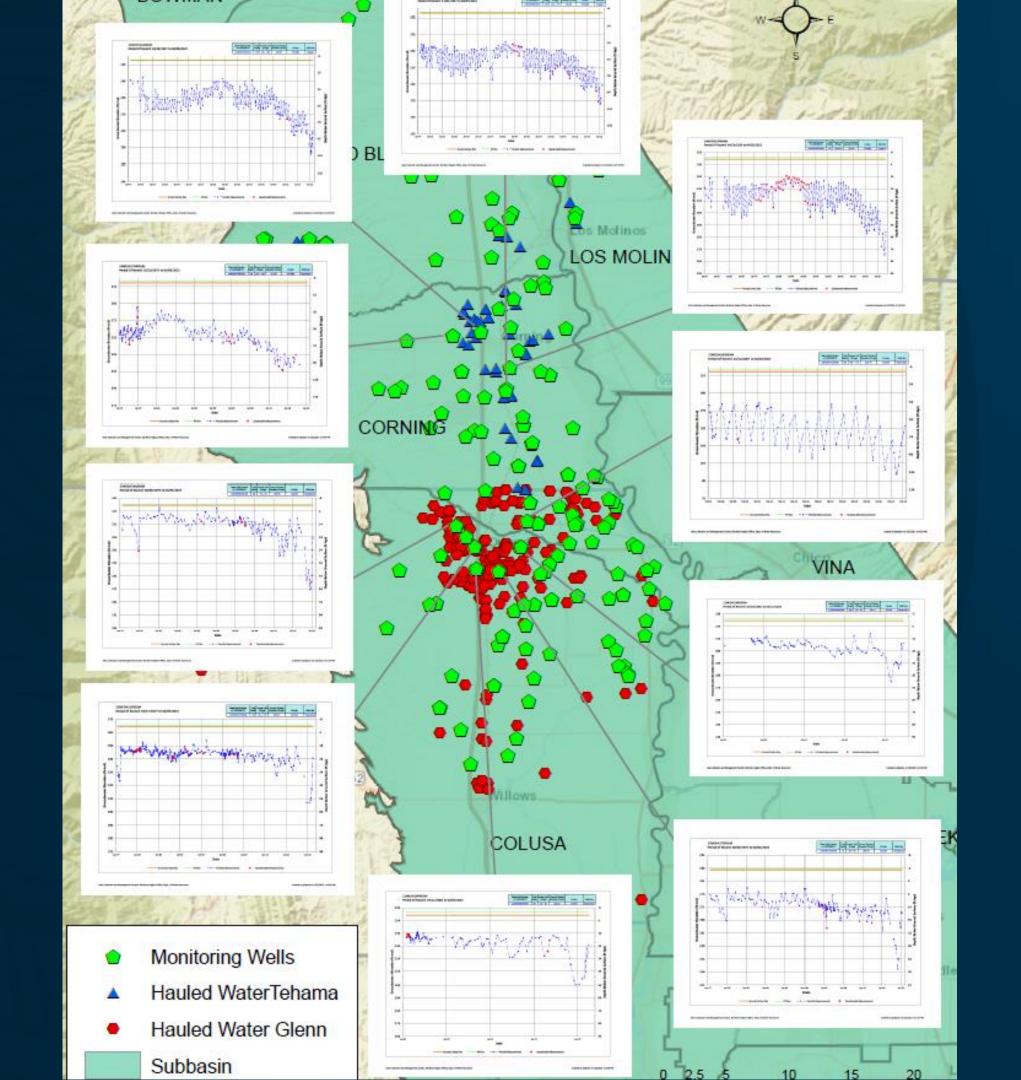
Croptype	2005 Acres	2020 Acres	Difference	Percent Change
Citrus	18,380	18,939	559	3%
Deciduous	36,406	60,840	24,434	67%
Field	1,775	2,459	684	39%
Grain	10,924	8,653	-2,271	-21%
Idle	6,685	11,776	5,091	76%
Pasture	44,679	19,826	-24,853	-56%
Rice	2,438	212	-2,226	-91%
Truck	884	250	-634	-72%
Vineyard	187	253	66	35%
Totals	122,358	123,208	850	

Overall Gain

Loss of Rice above is reflected in gain of Idle...





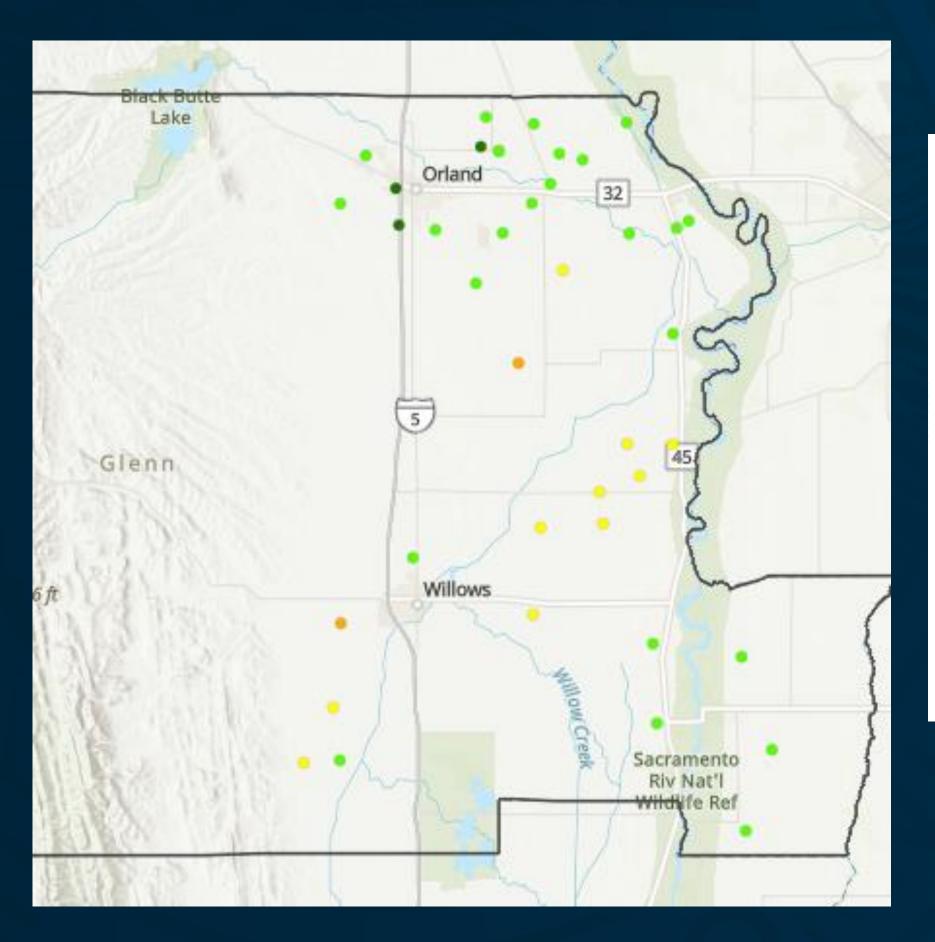


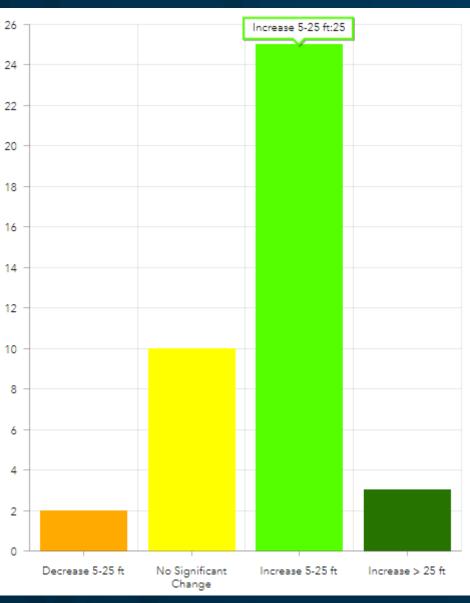
Change Maps of Glenn County using California's Groundwater Live

- Spring-Spring 2022 - 2023

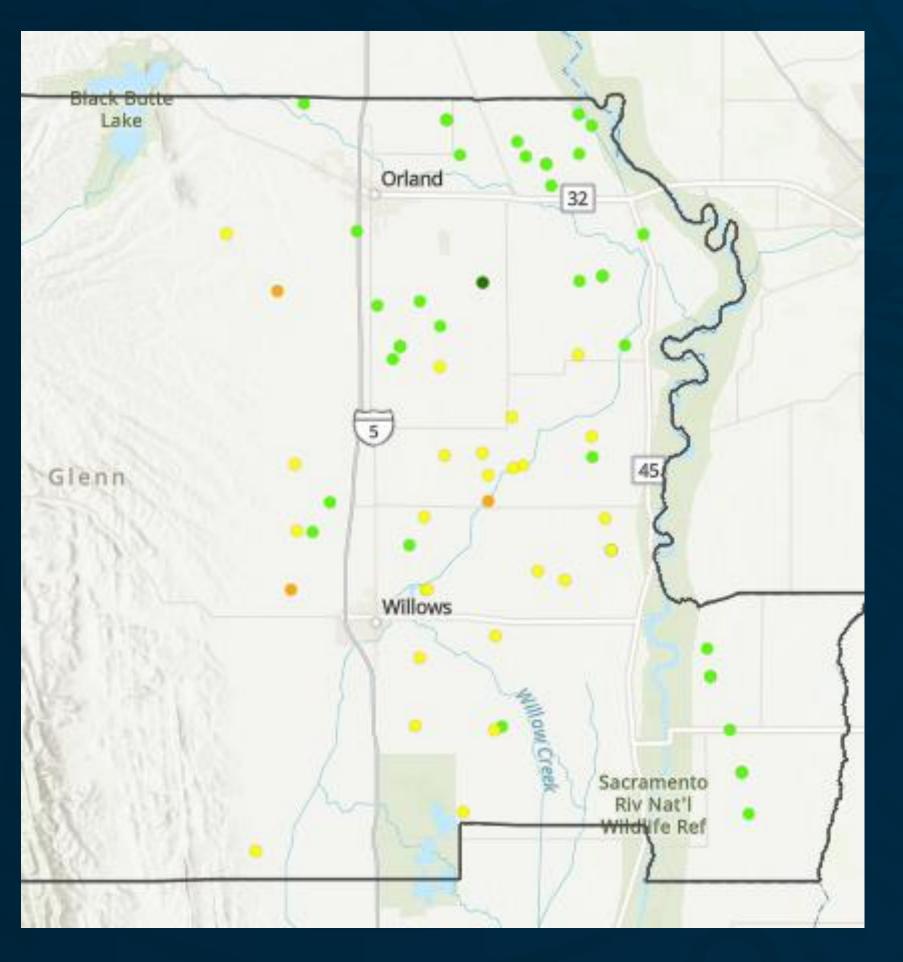
- By well depth:
 - 0-200 ft. deep
 - 200-400 ft. deep
 - > 600 ft. deep

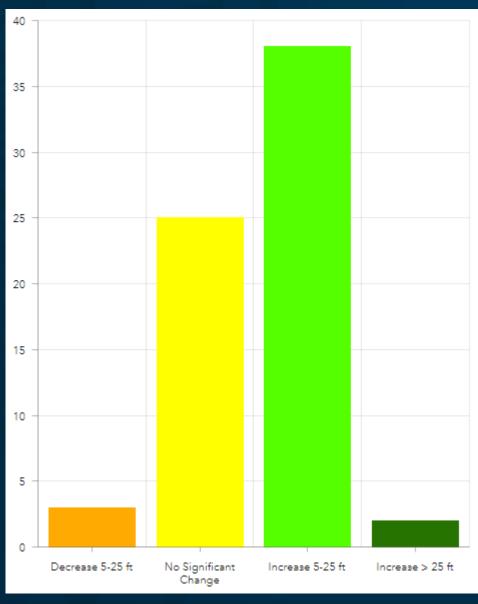
Spring 22-23 — Shallow Wells — 0-200 ft.



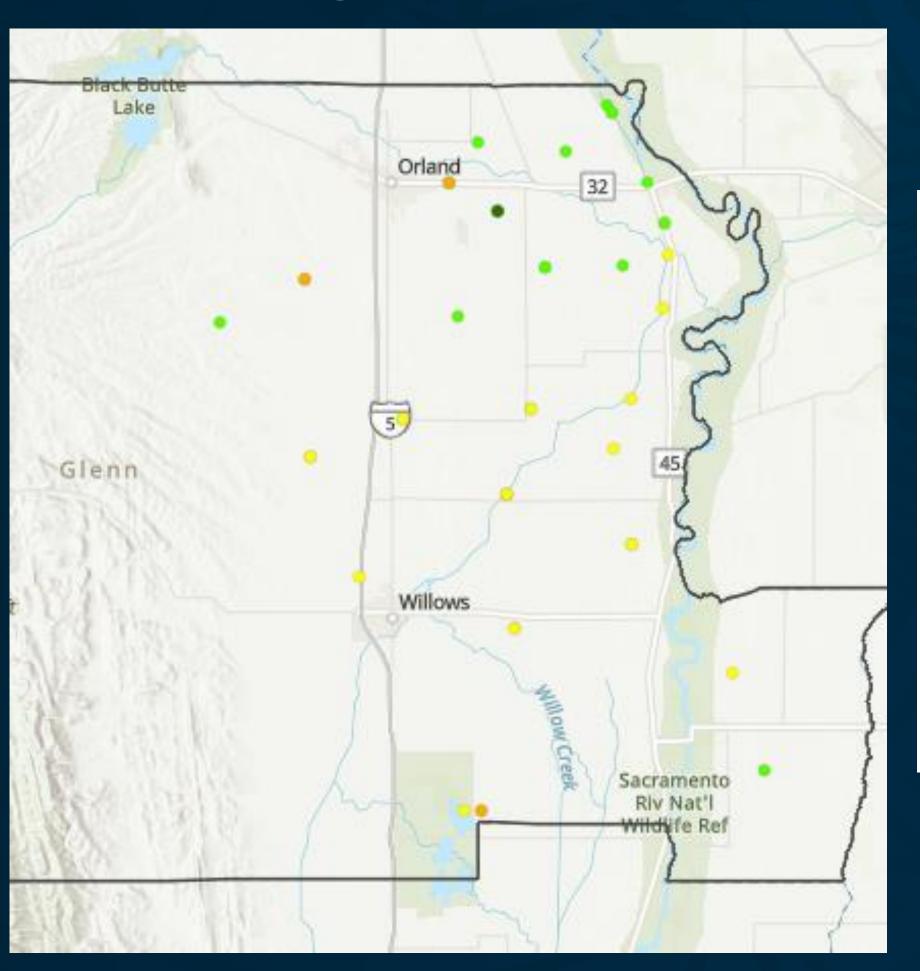


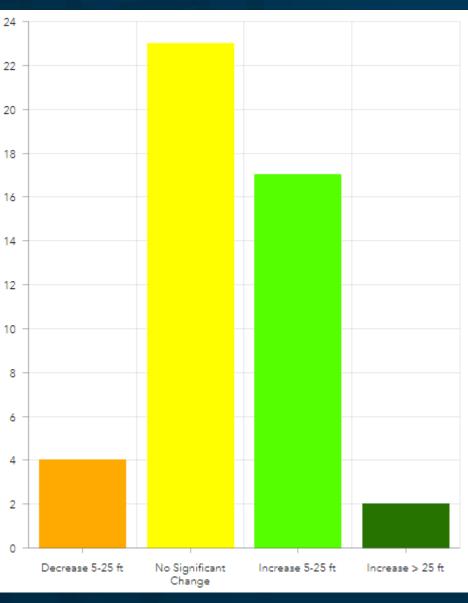
Spring 22-23 – Intermediate Wells –200-600 ft.



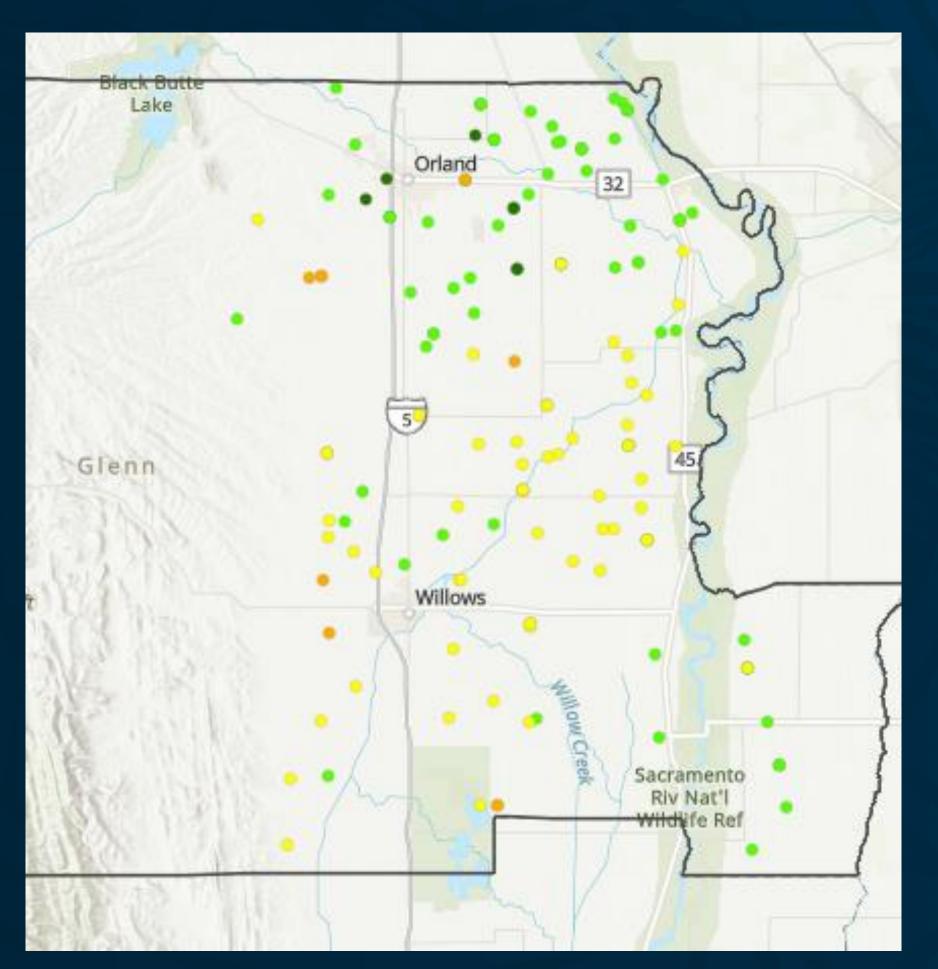


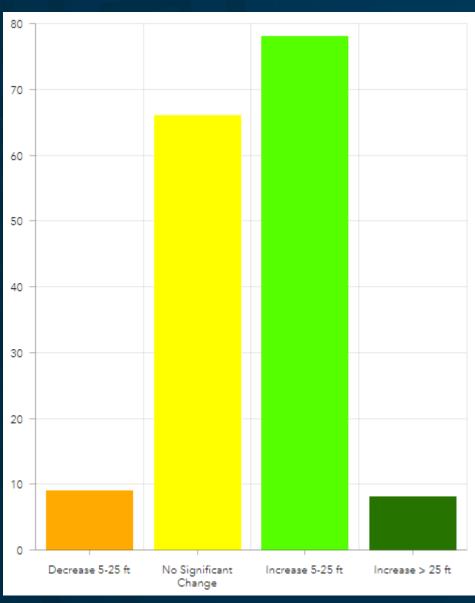
Spring 22-23 — Deep Wells — >600 ft.



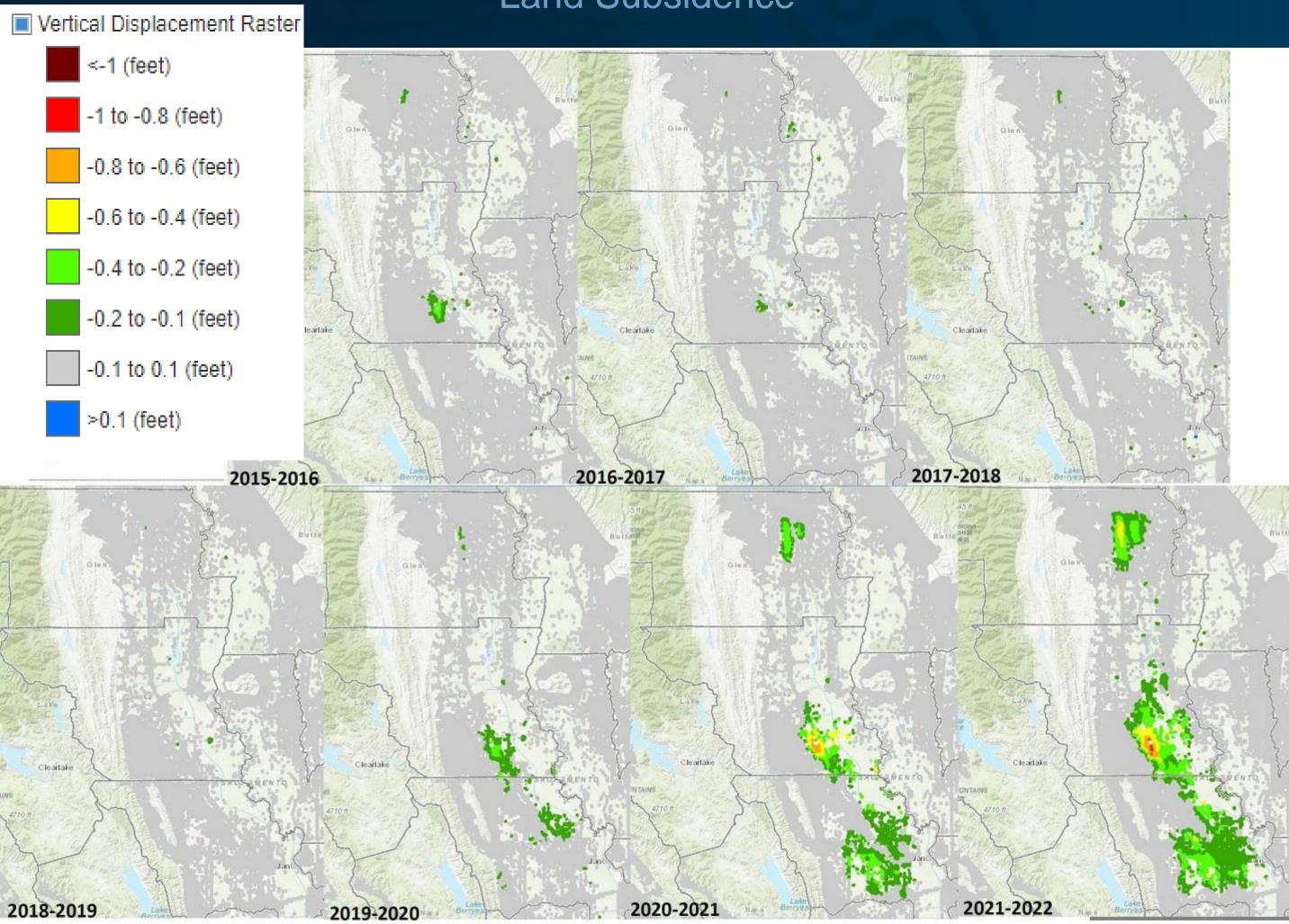


Spring 22-23 — All Well Depths

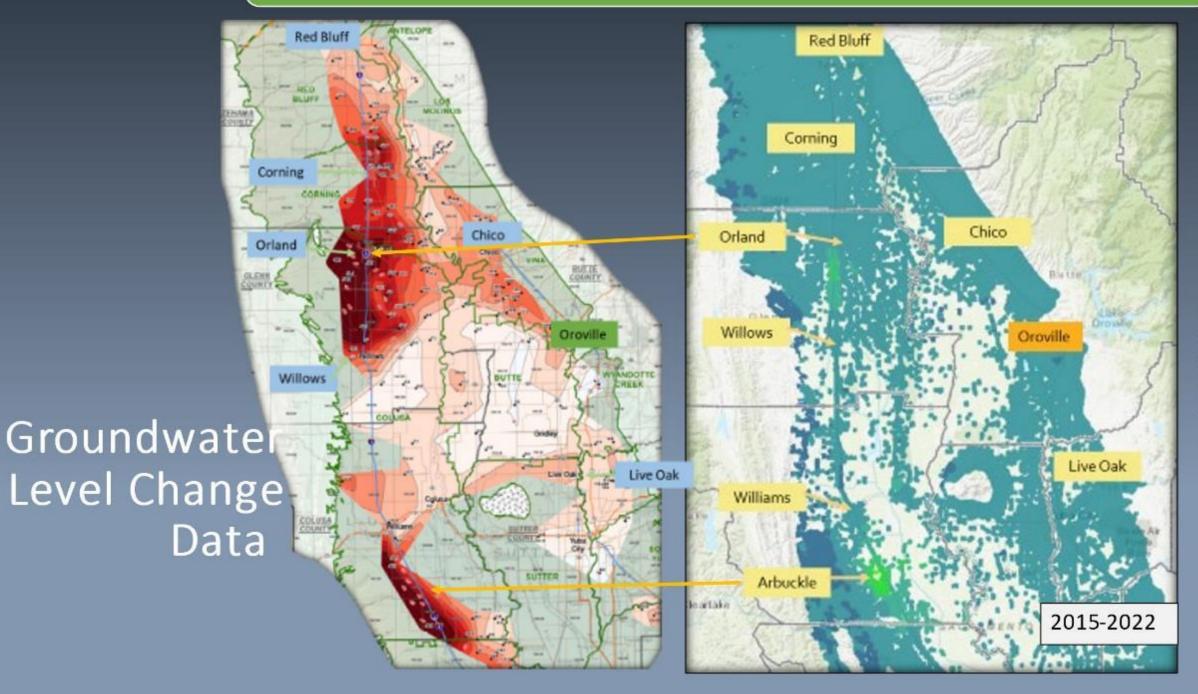




Land Subsidence



Why We Need Enhanced Data Collection



Land Surface Subsidence Data

Groundwater is a Renewable Resource and CAN be Managed Sustainably



Questions? Comments? Thank You

http://water.ca.gov/groundwater/