

Colusa County Groundwater Commission

DWR Update

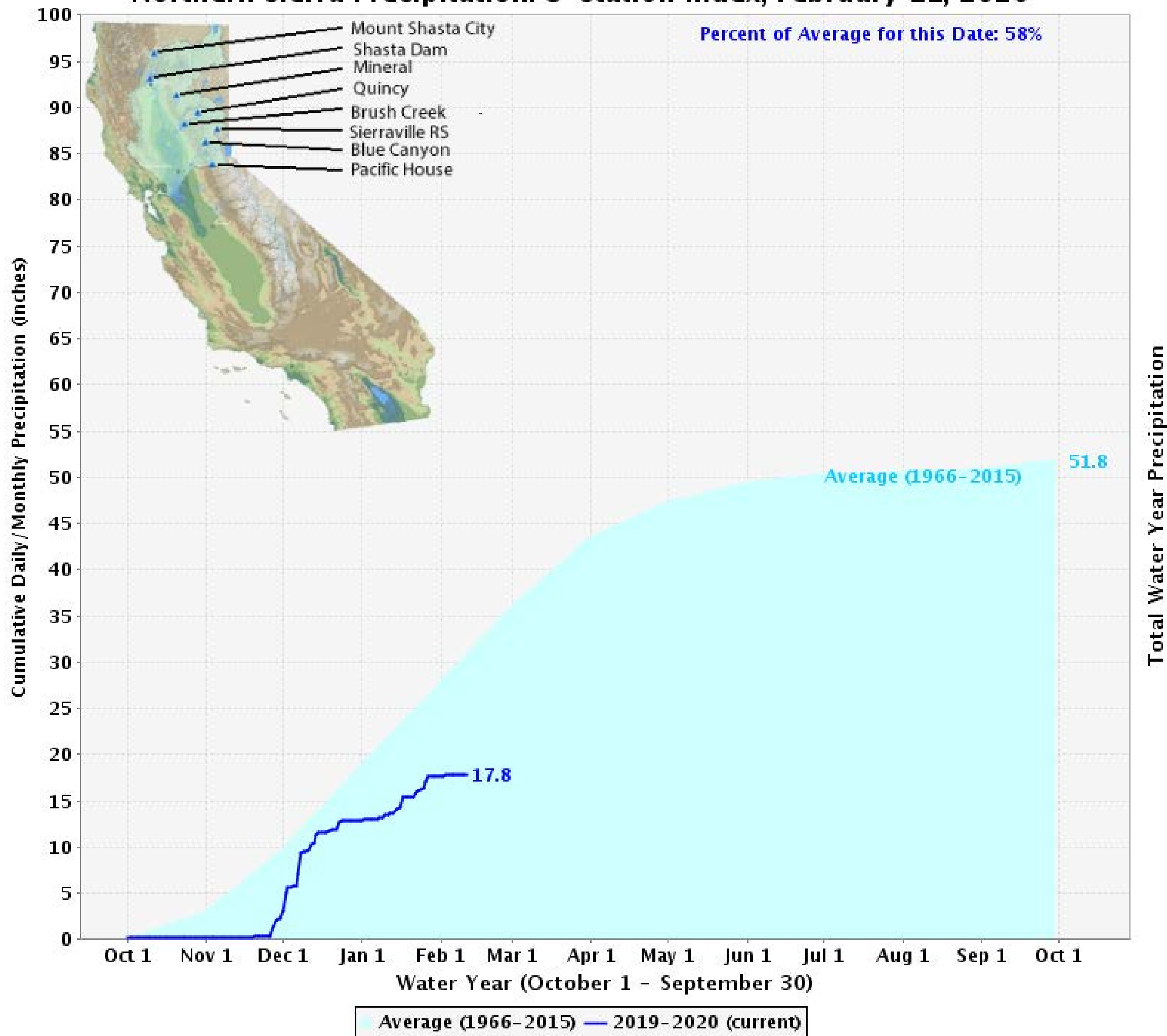
Erin Smith
Engineering Geologist
DWR Northern Region

02/12/2020

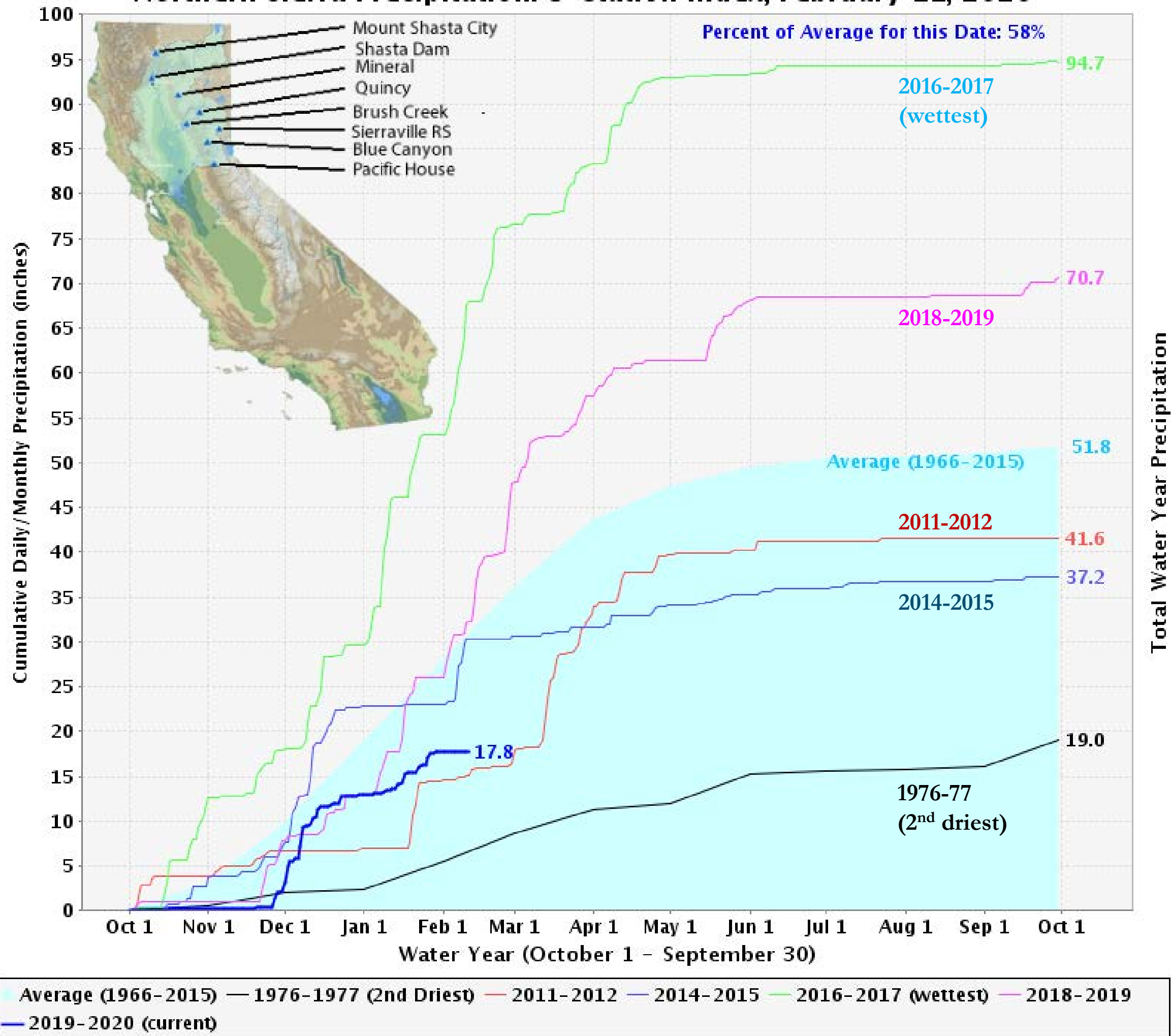
Outline

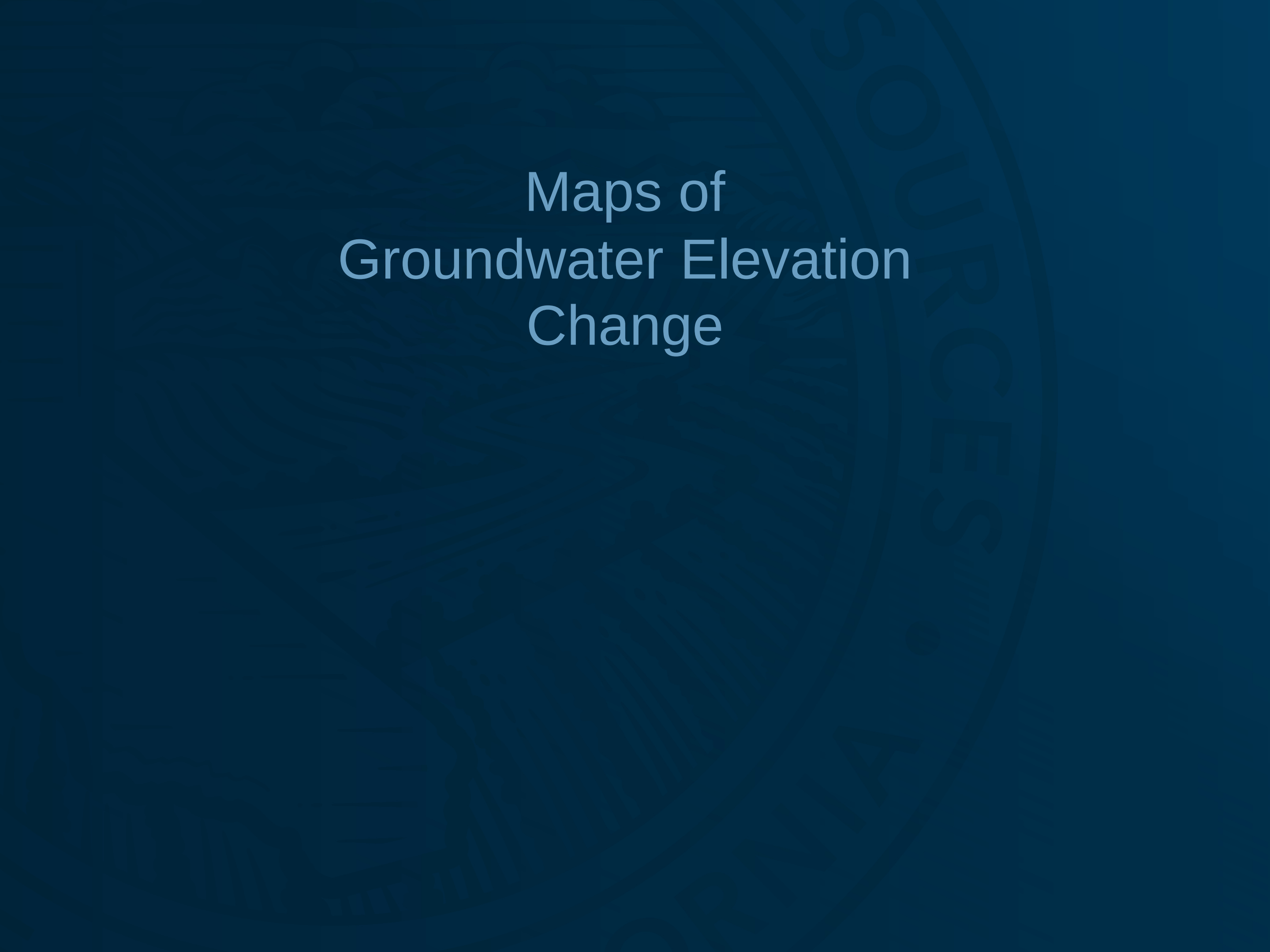
- **Groundwater Level Change maps**
 - (DRAFT Fall 2019)
- **Statewide SGMA update and other info**

Northern Sierra Precipitation: 8-Station Index, February 11, 2020



Northern Sierra Precipitation: 8-Station Index, February 11, 2020





Maps of Groundwater Elevation Change

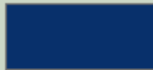
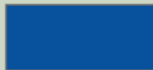
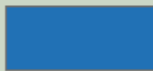
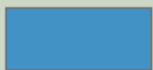
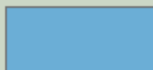
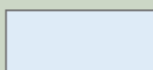
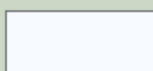
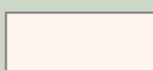
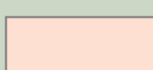
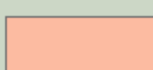
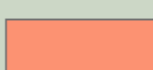
“Change Maps”

- Comparison of recent time period to a past time period
 - Summer 2019 to Summer 2004
 - Are groundwater levels higher?
 - Yes
 - No

NOTES

- Note 1: A positive number indicates that groundwater elevations were higher in the current year than in 2004. A negative number indicates that groundwater elevations were lower in the current year than in 2004.
- Note 2: Statistics are based on the number of wells monitored within each subbasin.
- Note 3: This map may not use all the color ranges shown in table above. Some wells may not be visible on map due to the close proximity to each other.
- Note 4: Groundwater level changes are based on measurements taken from wells with depths of 100 to 450 ft. Measurements are taken during similar time periods each year.
- Note 5: Change in groundwater elevations are based on the actual measured levels of the hydrostatic level (piezometric surface) of the groundwater at individual well locations. Contoured color ramping is interpolated from these measurements and should be considered approximate. The accuracy of the estimated contour is directly related to the timing of the measurements, spacing and the distribution of nearby monitoring wells, well construction, and aquifer characteristics.
- Note 6: GW - Groundwater
GWE - Groundwater Elevation
bgs - below ground surface

Groundwater Elevation Change

	> 40 feet higher
	> 35 to 40 feet higher
	> 30 to 35 feet higher
	> 25 to 30 feet higher
	> 20 to 25 feet higher
	> 15 to 20 feet higher
	> 10 to 15 feet higher
	> 5 to 10 feet higher
	0 to 5 feet higher
	> 0 to 5 feet lower
	> 5 to 10 feet lower
	> 10 to 15 feet lower
	> 15 to 20 feet lower
	> 20 to 25 feet lower
	> 25 to 30 feet lower
	> 30 to 35 feet lower
	> 35 to 40 feet lower
	> 40 feet lower

Maps of Groundwater Elevation Change

Summer 2019-2018

Summer 2019-2015

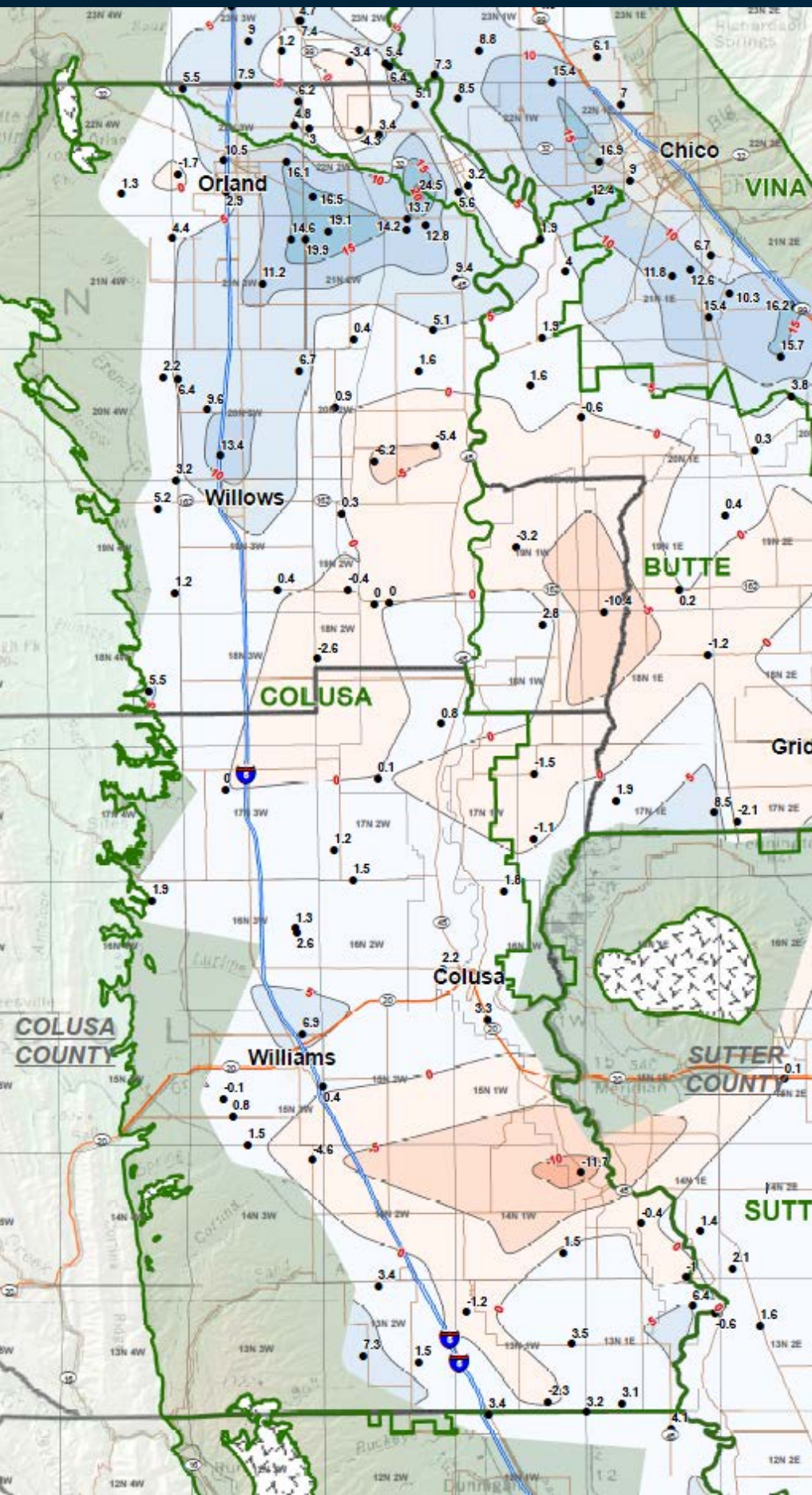
Summer 2019-2004

Wells 100-450 ft deep

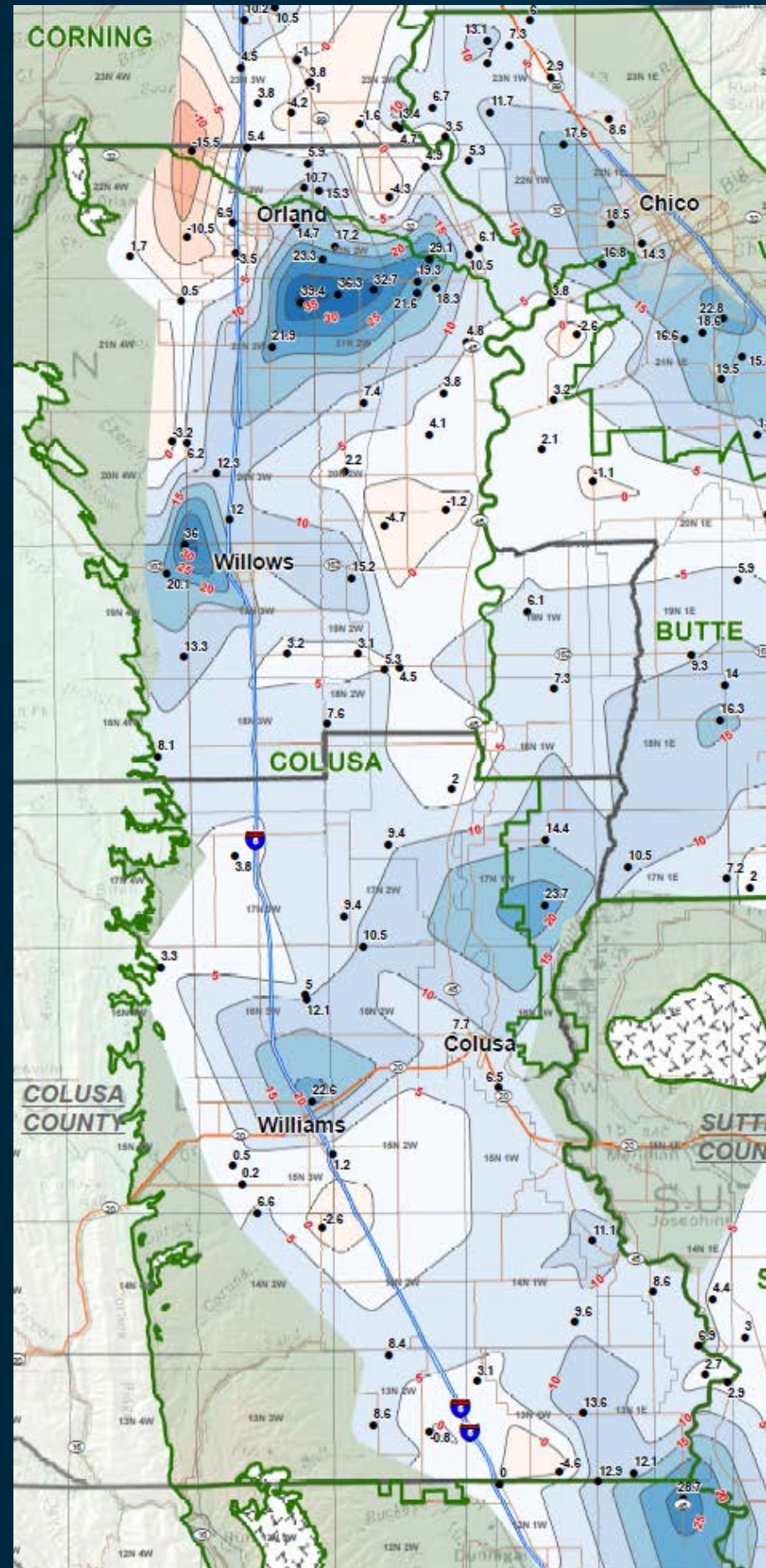
Wells greater than 600 ft deep

Groundwater Elevation Change

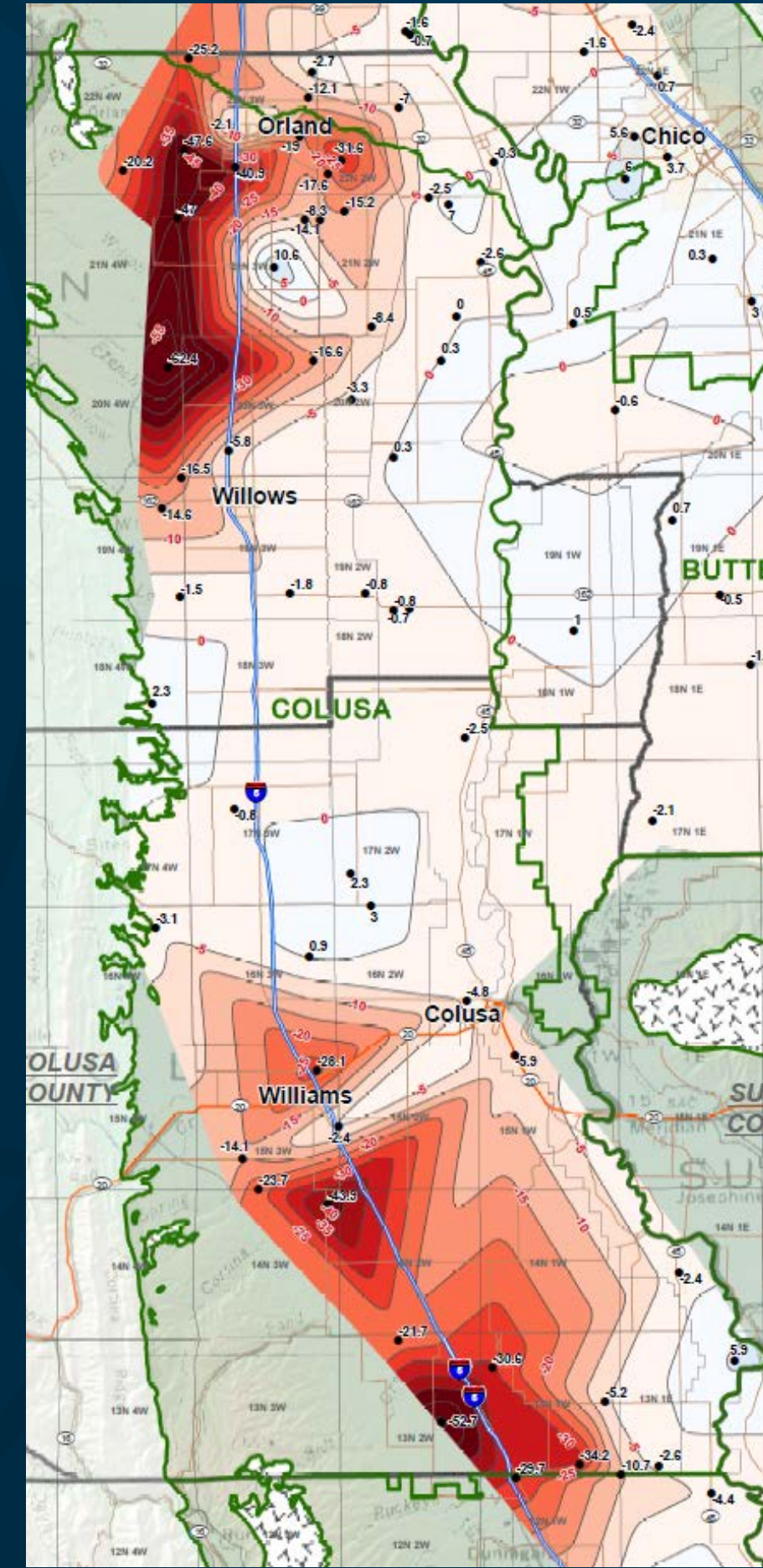
Summer 2019 to 2018



Summer 2019 to 2015



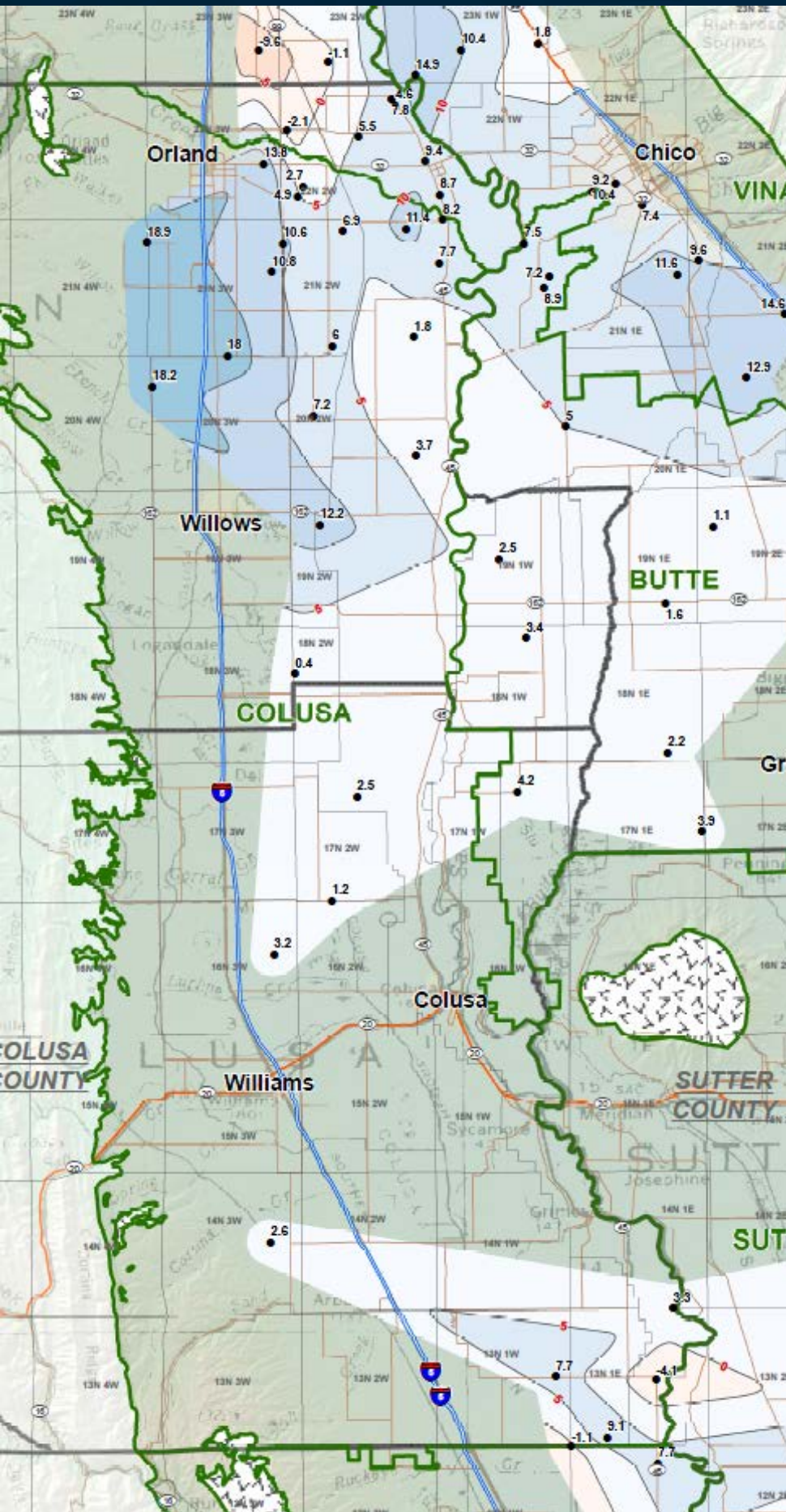
Summer 2019 to 2004



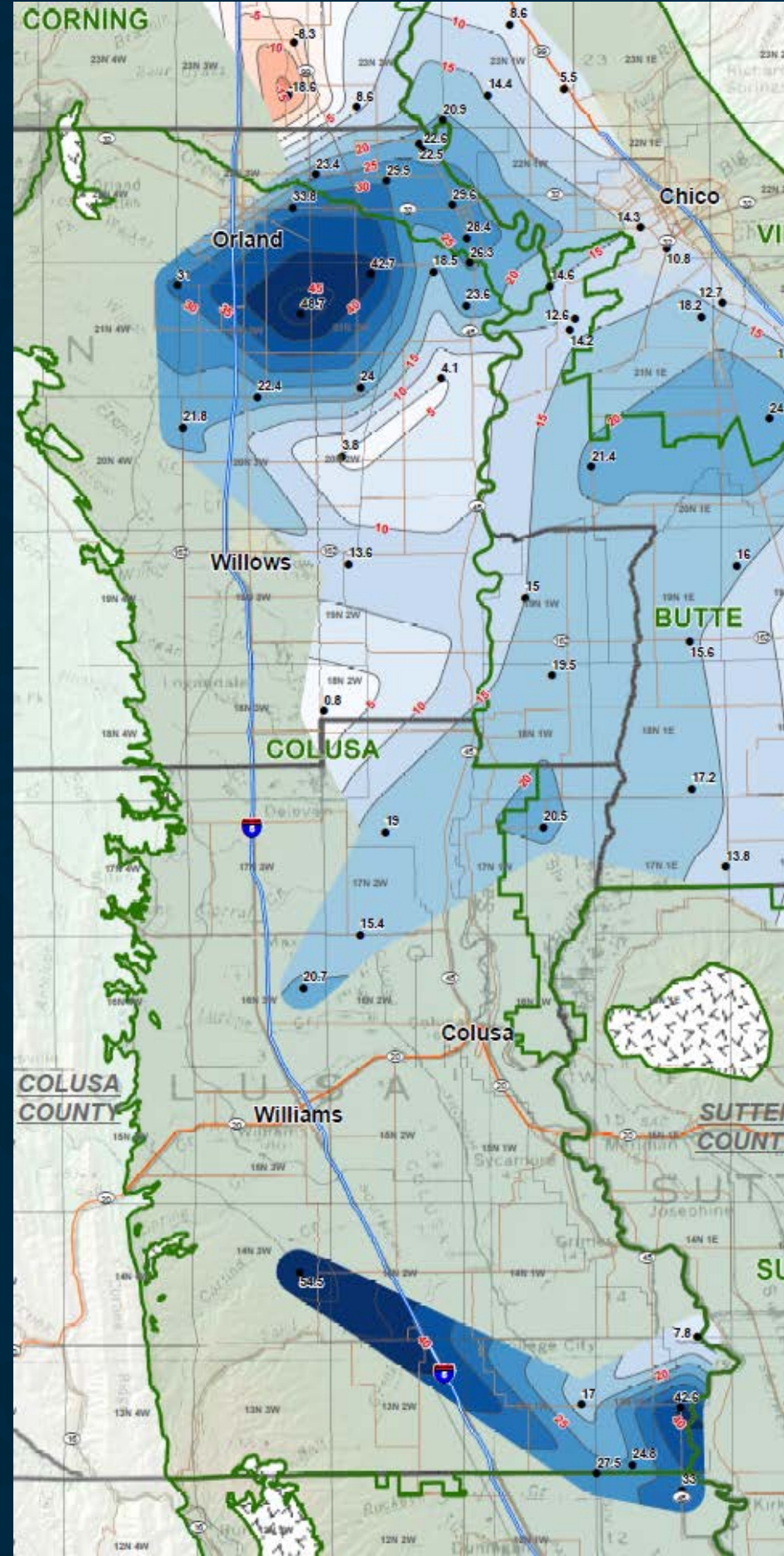
Groundwater Elevation Change

Wells greater than 600 feet deep

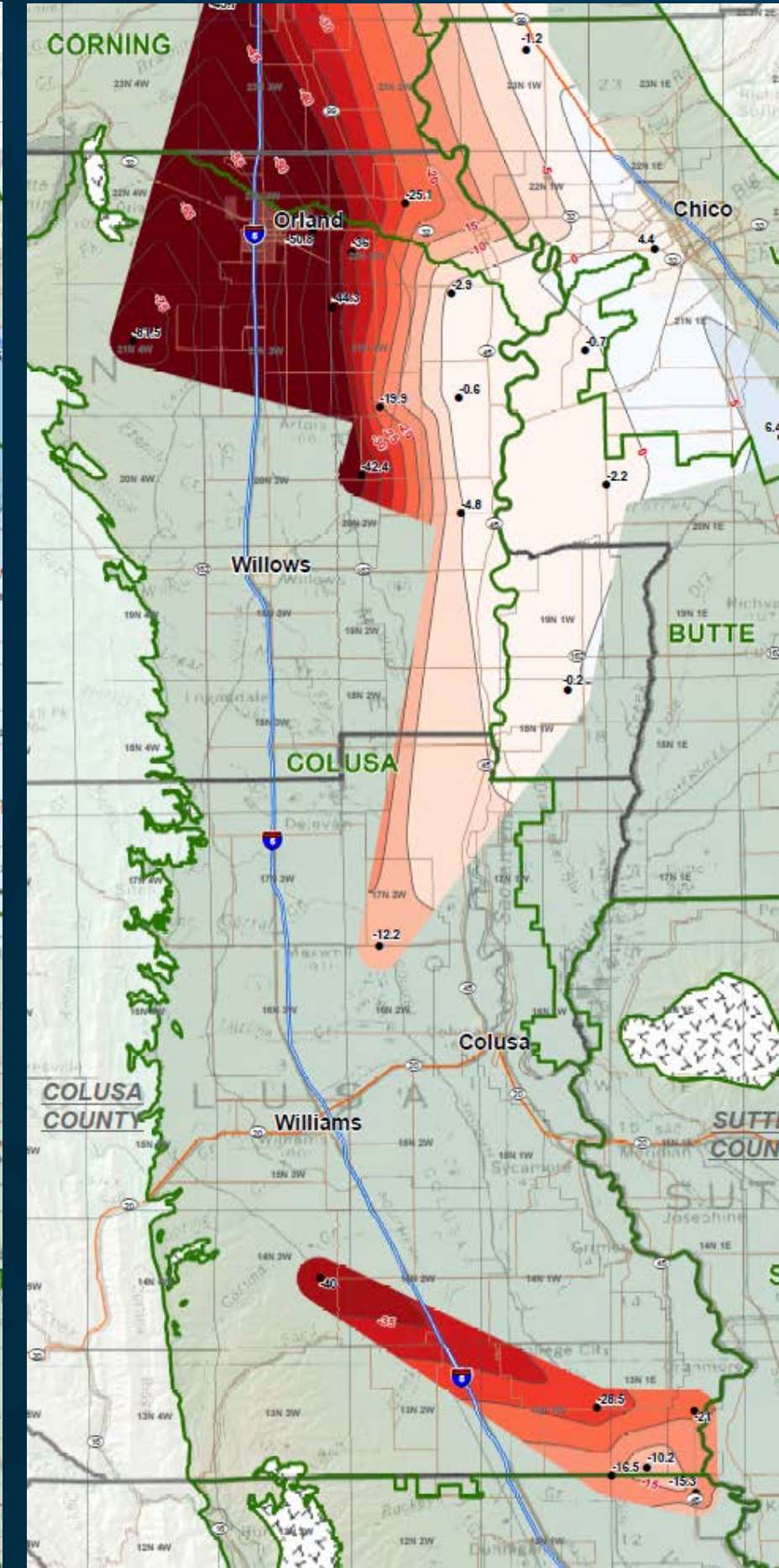
Summer 2019 to 2018



Summer 2019 to 2015



Summer 2019 to 2004



Groundwater Elevation Change

Fall 2019
to 2018

Wells
100-450 ft
deep

Summary – Average change

Shallow-Intermediate Zones (100-450 ft deep wells)

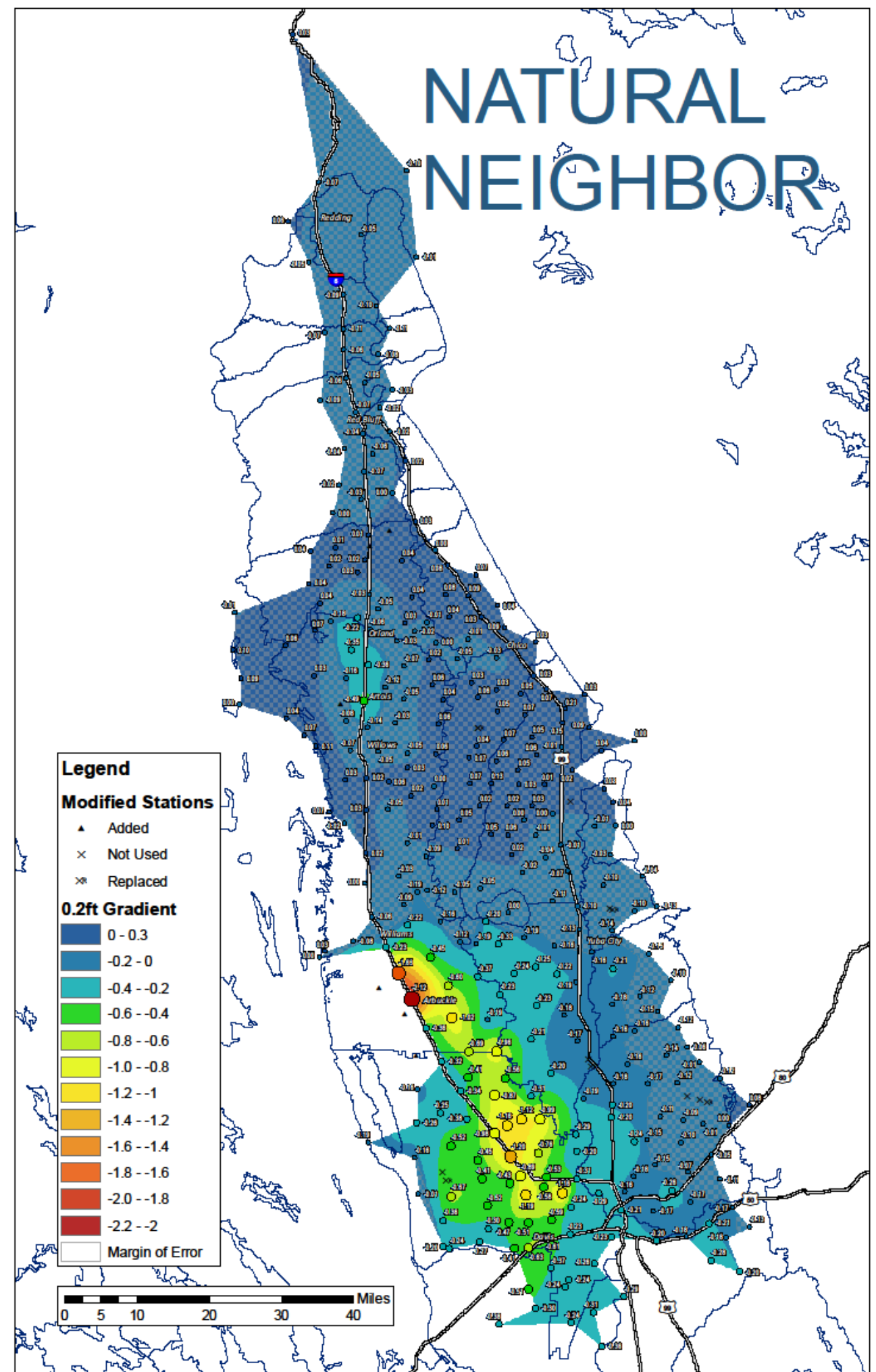
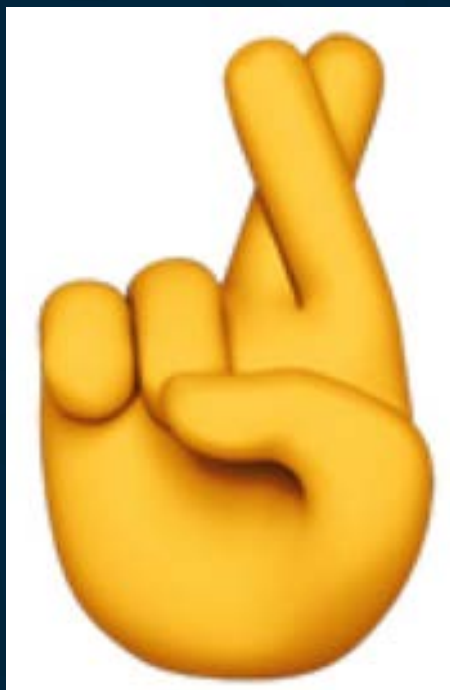
	Sacramento Valley	Redding Basin
2018-19	4.2	1.3
2015-19	6.3	2.7
2004-19	-5.2	1.0

Deep Aquifer Zones (>600 ft deep wells)

	Sacramento Valley	Redding Basin
2018-19	3.6	1.2
2015-19	8.8	5.5
2004-19	-12.4	-0.6

Extra

NRO should now have stable funding to perform the GPS Subsidence Survey every 5 years



Statewide SGMA info

- January 24, 2020- released the [draft grant awards list](#) SGM Grant Program's Planning Grant – Round 3 grant solicitation to make approximately \$47 million available. (Prop 68)
- January 31, 2020- deadline for all Critically Overdrafted Basins to submit GSPs to DWR (Handout)
 - All 46 submitted
 - 20 days to post to website
 - Public comment period (no less than 60 days)

Statewide SGMA info

- February 10, 2020- released Integrated Regional Water Management (IRWM) Implementation Grant Solicitation first recommended funding list (Prop 1 Round 1)
 - \$12.7 million in Proposition 1 funding to 20 projects in the North Coast Funding Area. Sac River Funding Area still under technical review.
 - This recommended funding list is the first of twelve Funding Area lists, which will be released in several groups over the upcoming months.
- SGMA Workshops on January 2020 in Clovis/Paso Robles for COD Basins (Northstate Workshop in Spring)
<https://www.youtube.com/watch?v=u-EYbyJ7-RU&feature=youtu.be>
 - GSP Evaluation and Assessment Process
 - Annual Reporting Requirements
 - DWR and SWRCB Assistance Programs

Other Info (Handout)

- Sacramento Valley Groundwater-Surface Water Simulation Model (SVSim). DWR has released the texture data and the lithologic well and boring log data, used to develop the initial aquifer parameters for its new model (CSV and Excel format).
- **Division of Water Rights High Flow Event Permitting (for groundwater recharge projects)** Groundwater Recharge webpage
Justin Reyes at (916) 322-9632 (Justin.Reyes@waterboards.ca.gov)
Darren Tran at (916) 341-5388 (Darren.Tran@waterboards.ca.gov)
- SWRCB Sustainable Groundwater Management Act (SGMA) Funding Opportunities:
https://www.waterboards.ca.gov/water_issues/programs/gmp/docs/sgma/sgma_funding.pdf
- SWRCB Water Quality FAQs other SGMA fact sheets are available at the following website: https://www.waterboards.ca.gov/water_issues/programs/gmp/sgma.html.

*Groundwater is a renewable resource
and CAN be managed sustainably*



Questions? Comments?
Thank You

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