



**Sierra Valley
Groundwater
Management District**

TAC Meeting

February 28, 2022





InSAR Land Subsidence

California's Groundwater Live

Filter by County

All

Filter by Groundwater Basin

SIERRA VALLEY - SIERRA VALLEY 5-01...

Select a Water Year

- WY 2016 (10/1/15 to 10/1/16)

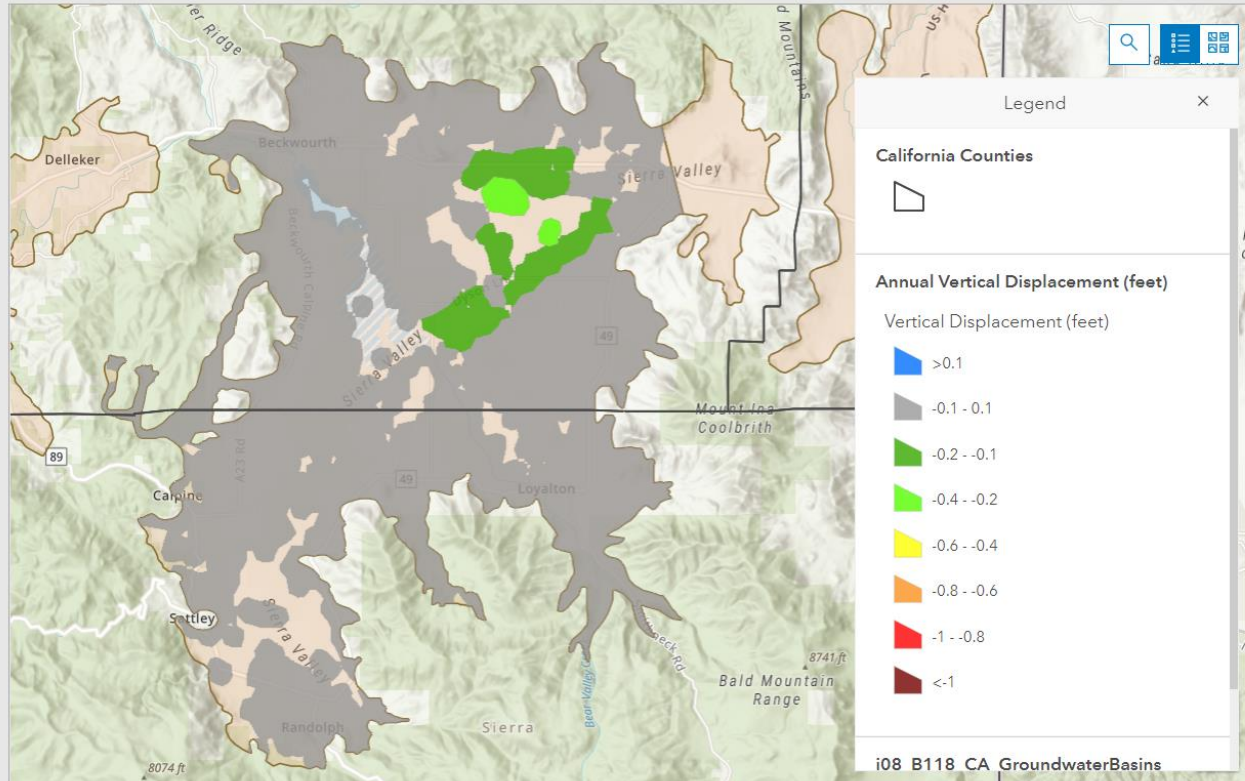
WY 2017 (10/1/16 to 10/1/17)

WY 2018 (10/1/17 to 10/1/18)

WY 2019 (10/1/18 to 10/1/19)

WY 2020 (10/1/19 to 10/1/20)

WY 2021 (10/1/20 to 10/1/21)



Esri, NASA, NGA, USGS | California State Parks, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA | California ... Powered by Esri

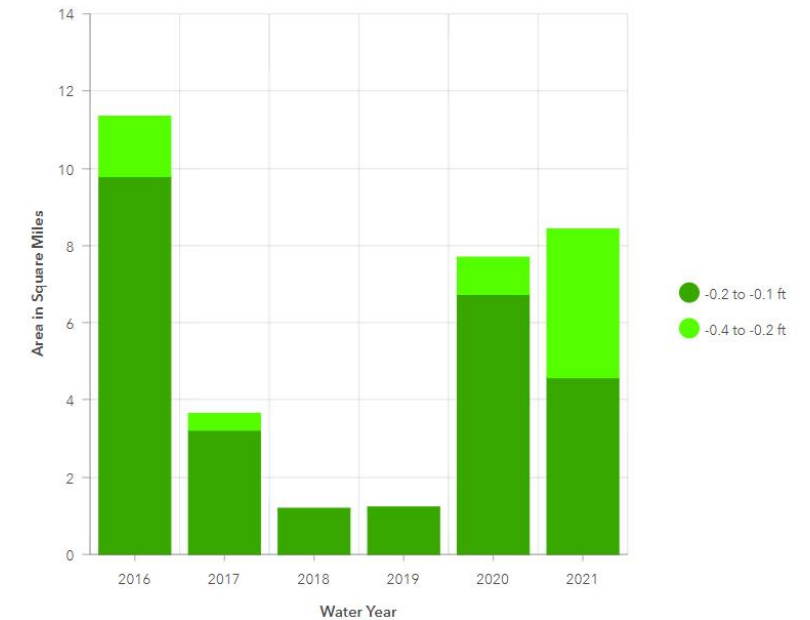
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You may only apply a boundary filter by County or Groundwater Basin individually (not both at the same time). In the event of a data error, please make sure to reset all filters.

Please email us at calgw@water.ca.gov to connect with the California's Groundwater Live Project Team.

Area in Square Miles by Annual Vertical Displacement Rate



Area with measured annual subsidence rate >0.1 feet
for selected Water Year

11.4
Square Miles



InSAR Land Subsidence

California's Groundwater Live



Filter by County

All

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SIERRA VALLEY - SIERRA VALLEY 5-01...

Select a Water Year

WY 2016 (10/1/15 to 10/1/16)

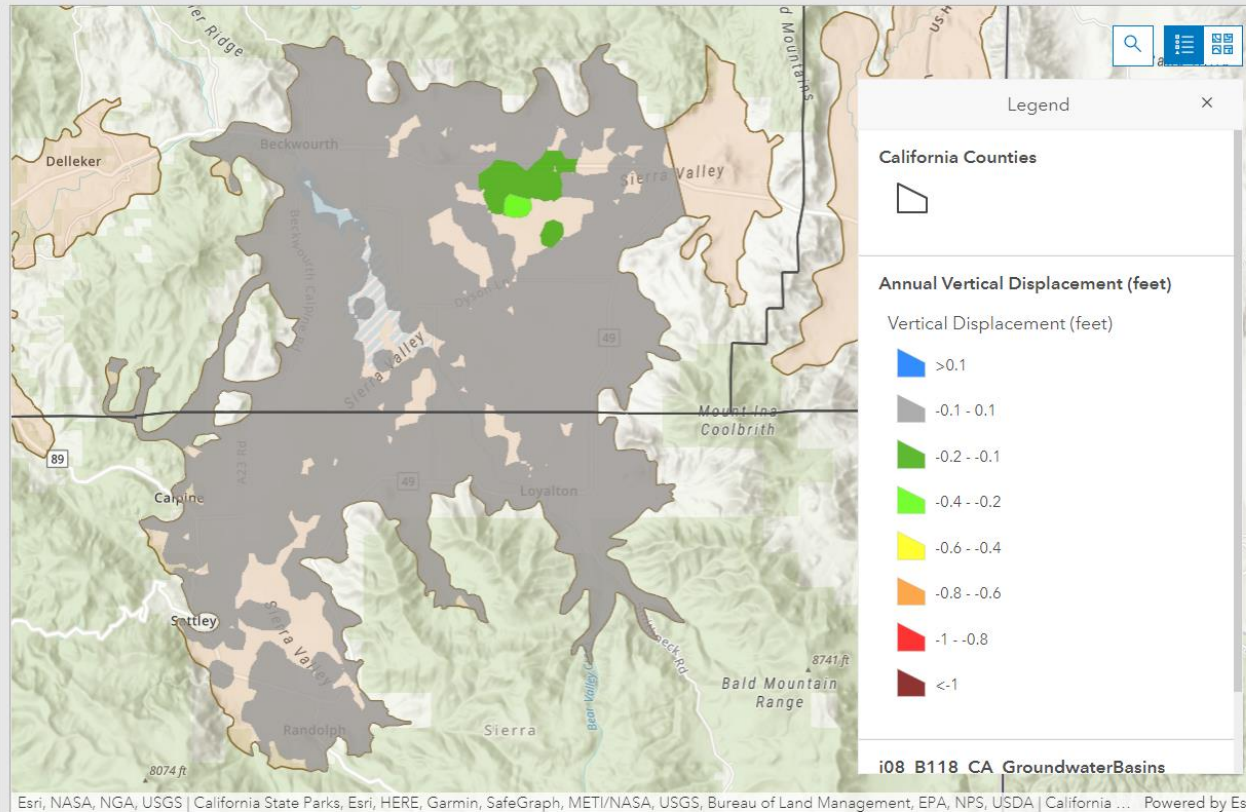
• WY 2017 (10/1/16 to 10/1/17)

WY 2018 (10/1/17 to 10/1/18)

WY 2019 (10/1/18 to 10/1/19)

WY 2020 (10/1/19 to 10/1/20)

WY 2021 (10/1/20 to 10/1/21)



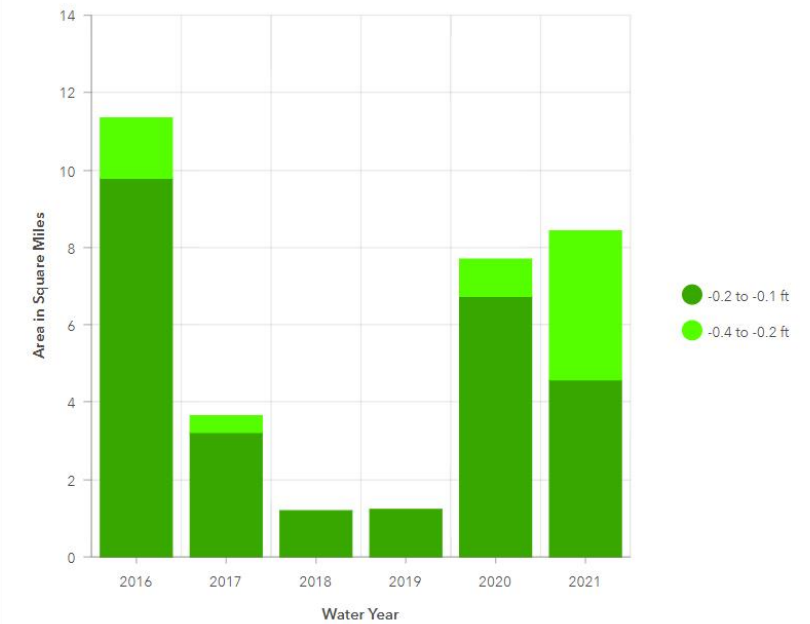
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Area in Square Miles by Annual Vertical Displacement Rate



Area with measured annual subsidence rate >0.1 feet
for selected Water Year

3.7
Square Miles



InSAR Land Subsidence

California's Groundwater Live

Filter by County

All

Filter by Groundwater Basin

SIERRA VALLEY - SIERRA VALLEY 5-01...

Select a Water Year

WY 2016 (10/1/15 to 10/1/16)

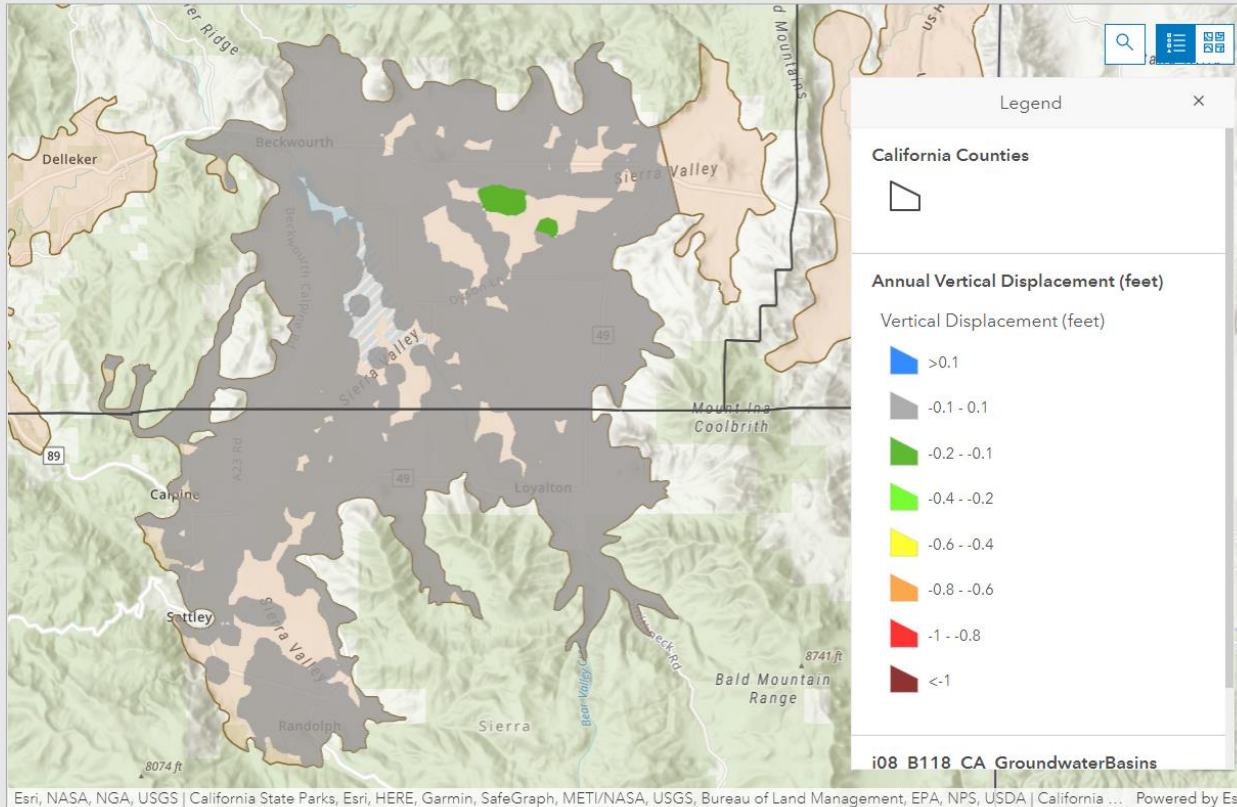
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WY 2020 (10/1/19 to 10/1/20)

WY 2021 (10/1/20 to 10/1/21)

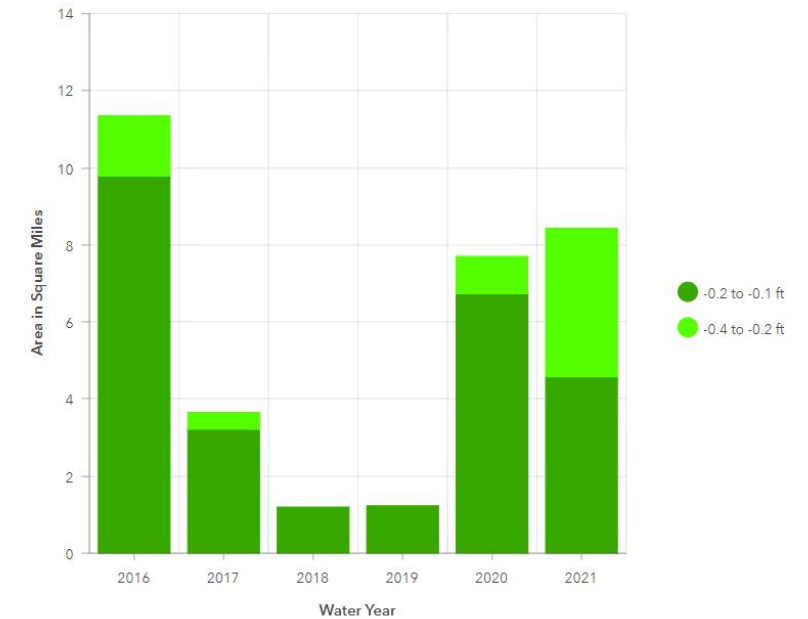


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Area in Square Miles by Annual Vertical Displacement Rate



Area with measured annual subsidence rate >0.1 feet
for selected Water Year

1.2

Square Miles



InSAR Land Subsidence

California's Groundwater Live

Filter by County

All

Filter by Groundwater Basin

SIERRA VALLEY - SIERRA VALLEY 5-01...

Select a Water Year

WY 2016 (10/1/15 to 10/1/16)

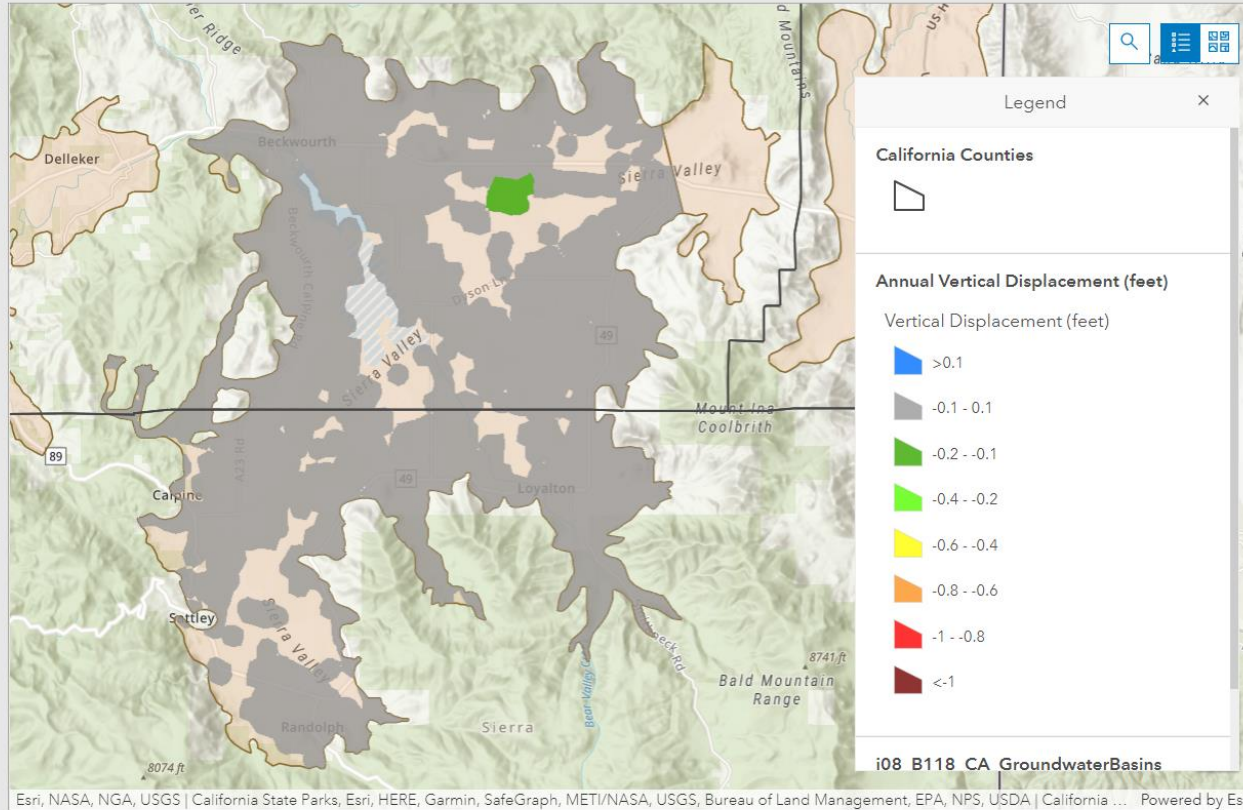
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WY 2018 (10/1/17 to 10/1/18)

• WY 2019 (10/1/18 to 10/1/19)

WY 2020 (10/1/19 to 10/1/20)

WY 2021 (10/1/20 to 10/1/21)



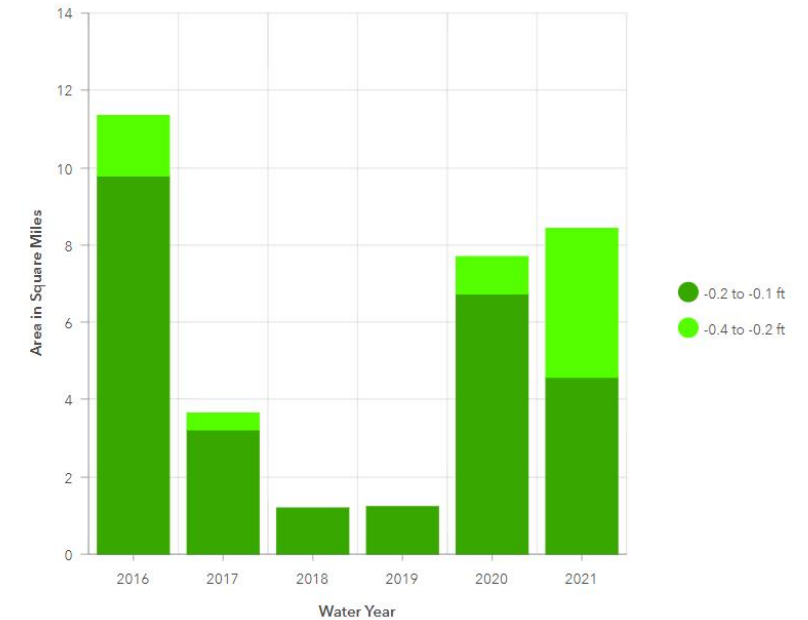
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Area in Square Miles by Annual Vertical Displacement Rate



Area with measured annual subsidence rate >0.1 feet
for selected Water Year

1.2

Square Miles



InSAR Land Subsidence

California's Groundwater Live

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SIERRA VALLEY - SIERRA VALLEY 5-01...

Select a Water Year

WY 2016 (10/1/15 to 10/1/16)

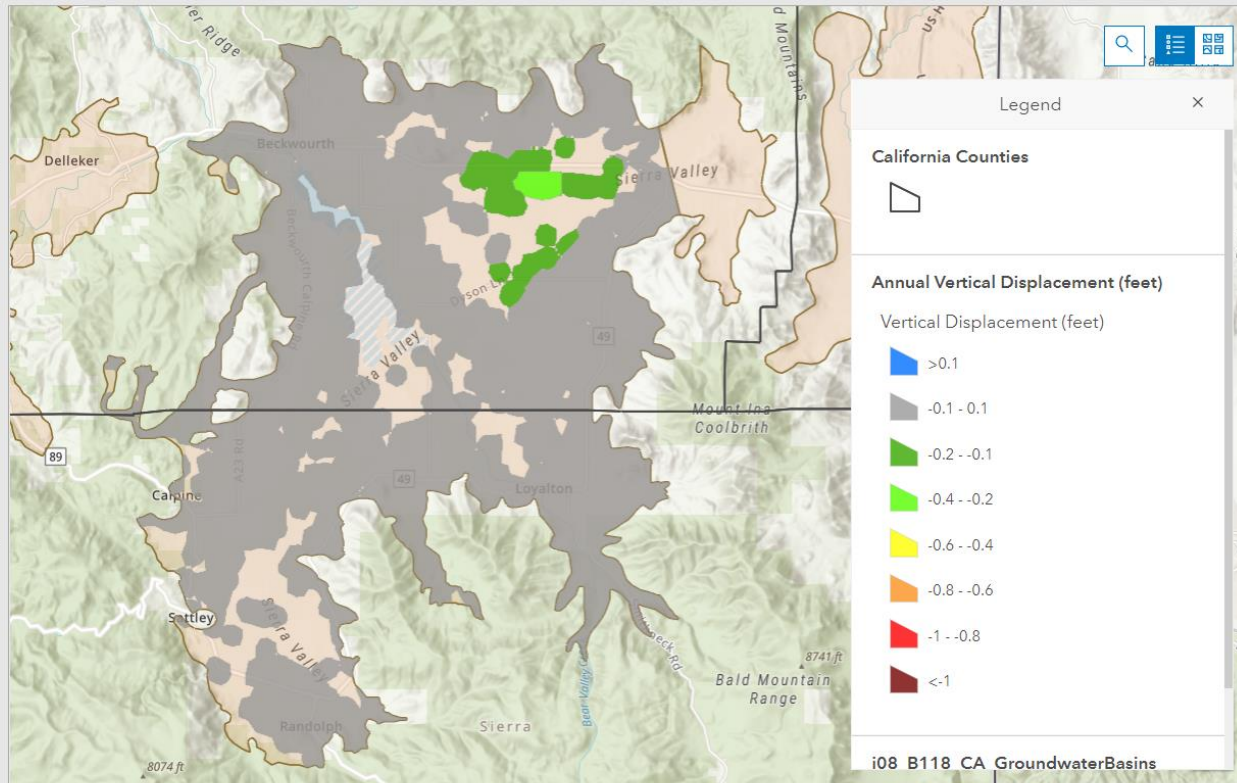
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WY 2021 (10/1/20 to 10/1/21)



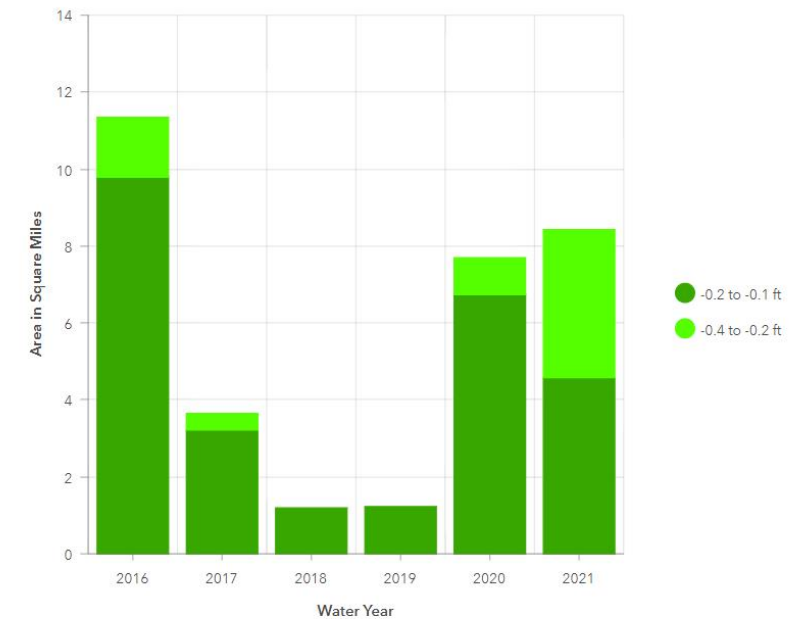
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Area in Square Miles by Annual Vertical Displacement Rate



Area with measured annual subsidence rate >0.1 feet
for selected Water Year

7.7

Square Miles



InSAR Land Subsidence

California's Groundwater Live

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Filter by Groundwater Basin

SIERRA VALLEY - SIERRA VALLEY 5-01...

Select a Water Year

WY 2016 (10/1/15 to 10/1/16)

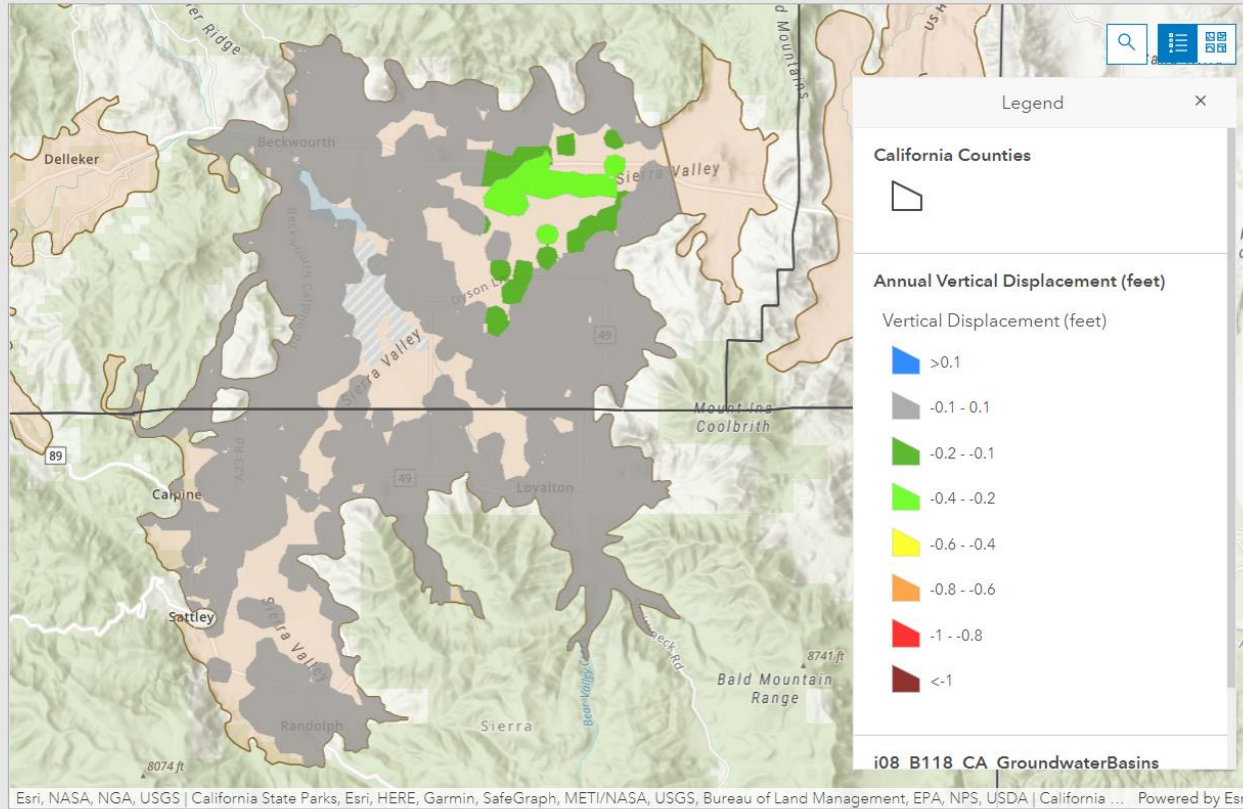
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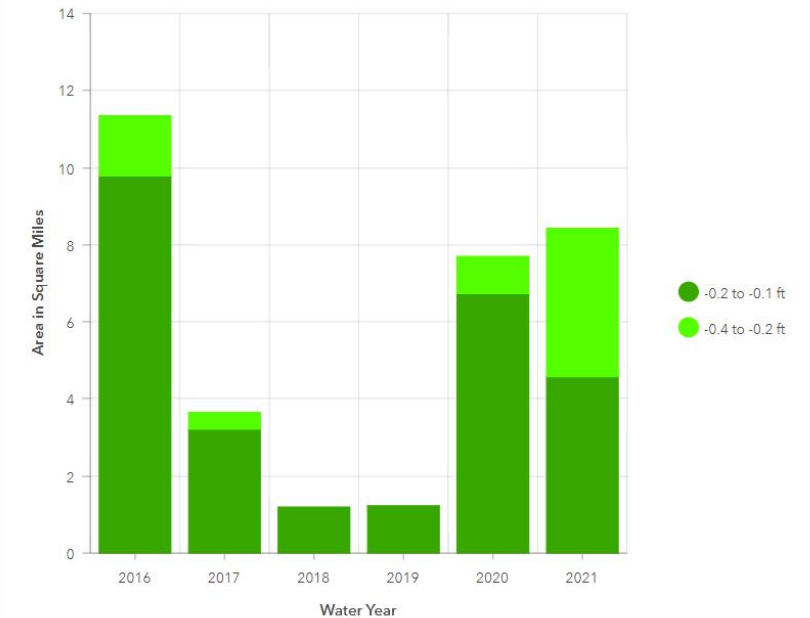


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Area in Square Miles by Annual Vertical Displacement Rate



Area with measured annual subsidence rate >0.1 feet
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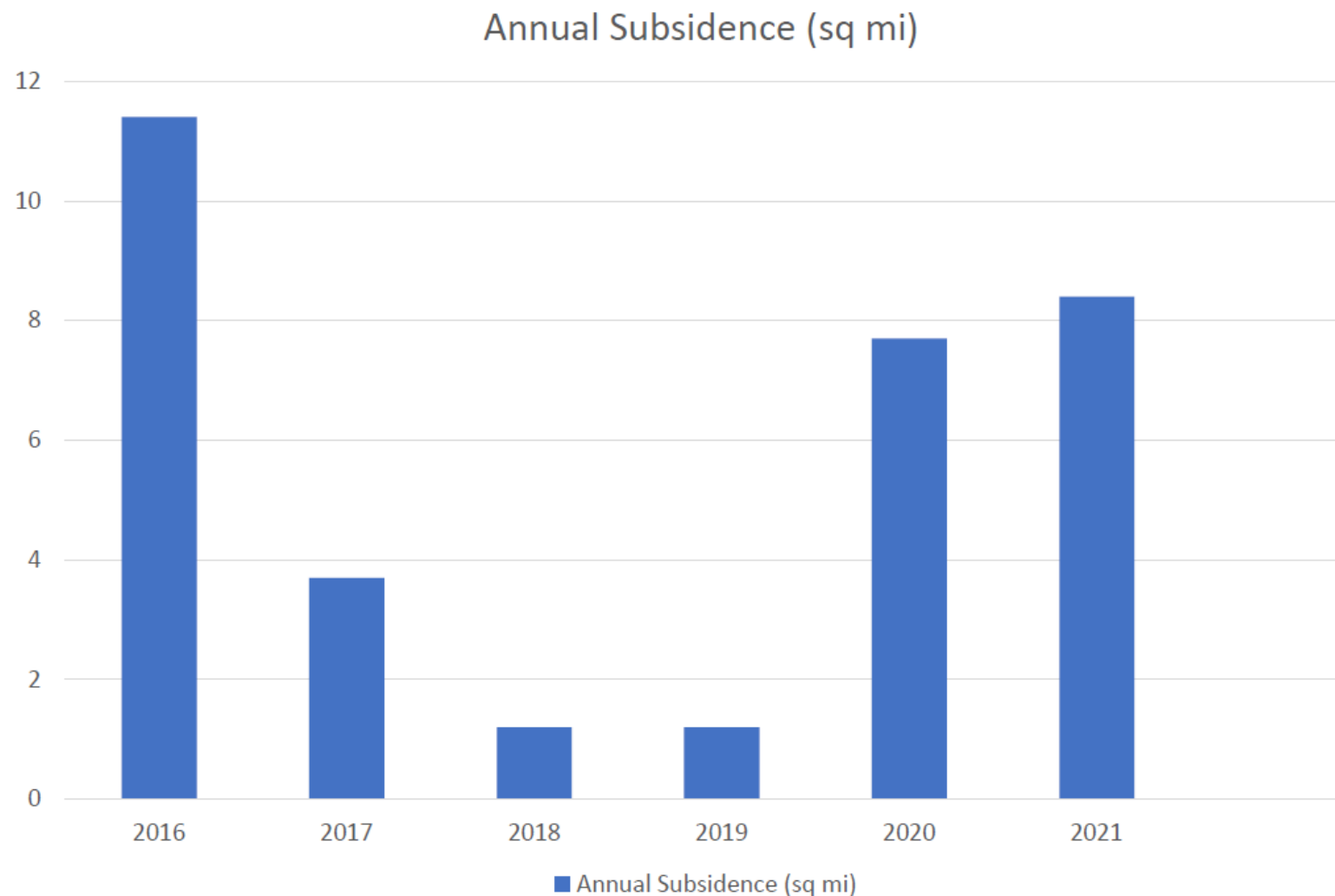
8.4

Square Miles

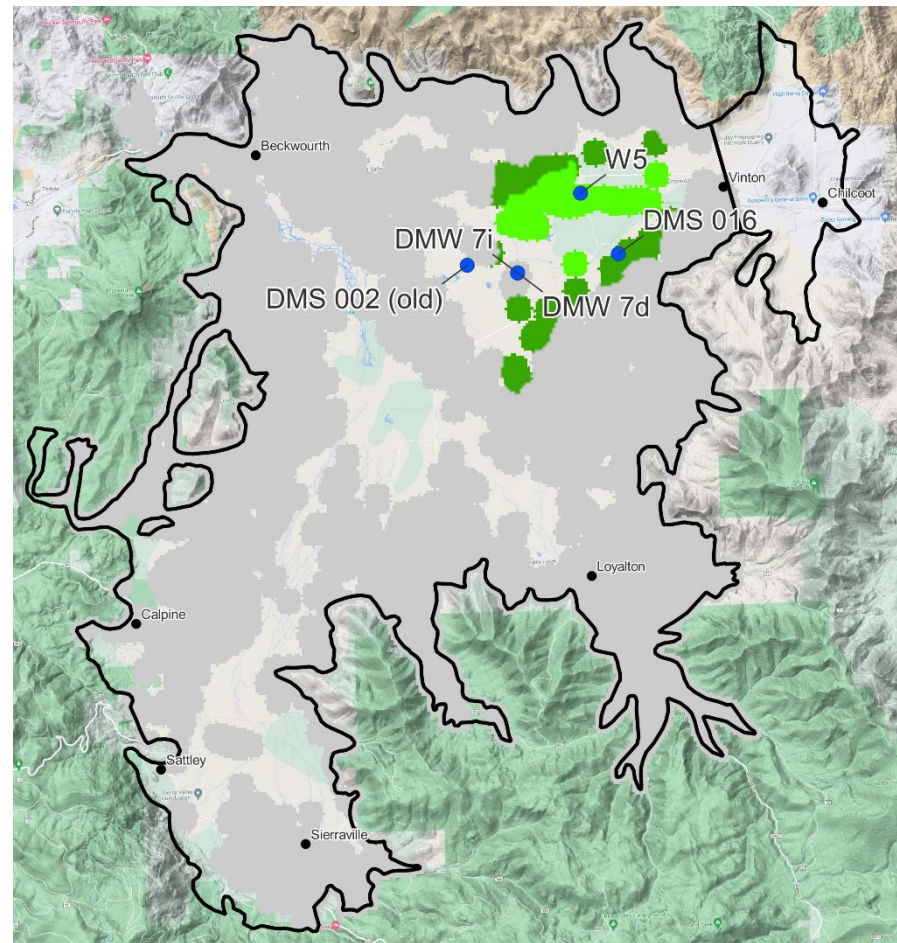
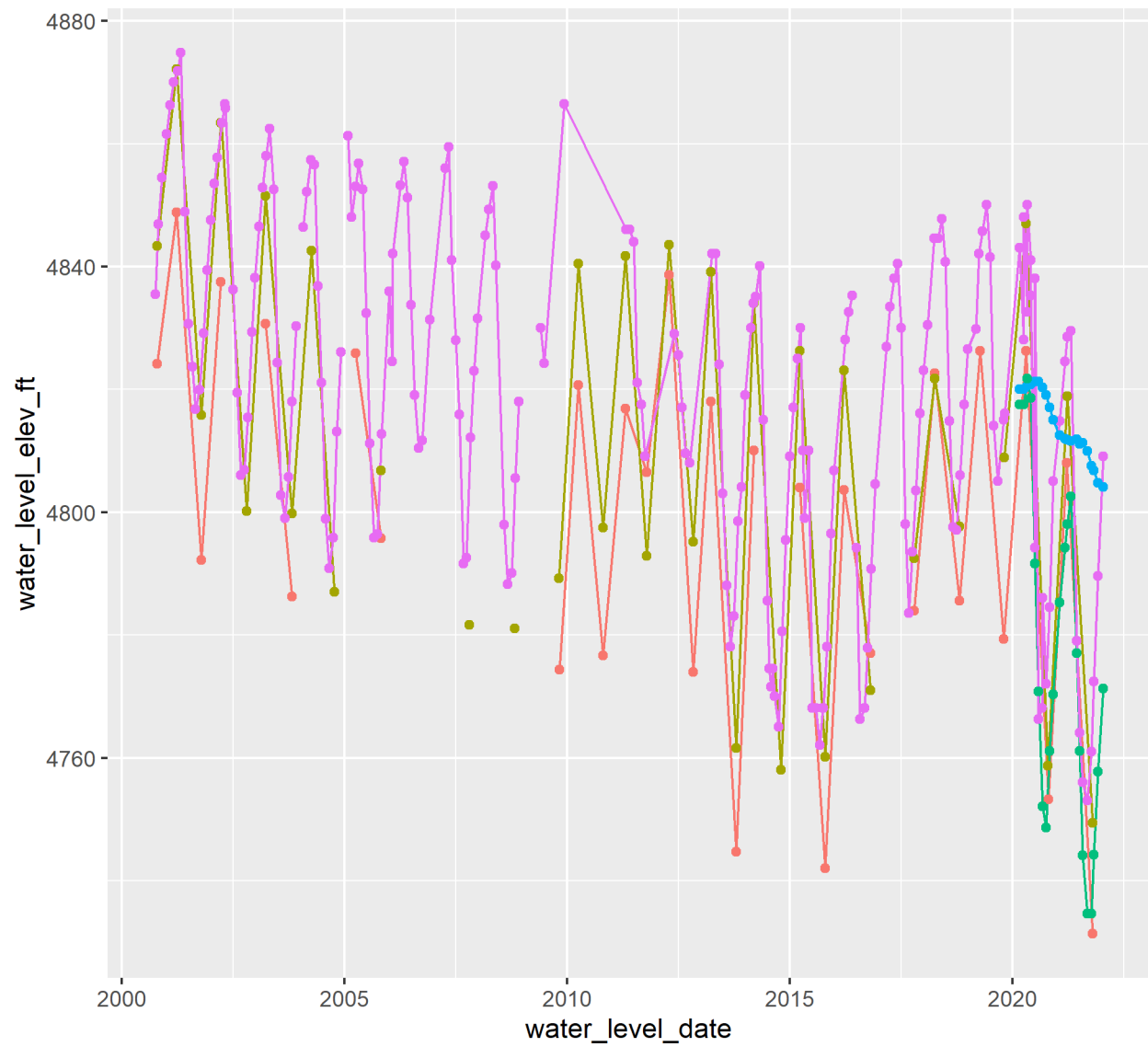
Water Year 2016-2021, Sierra Valley Subbasin Subsidence Measured by InSAR

Area with measured annual subsidence rate >0.1 feet in Sierra Valley Subbasin:

- 2016: 11.4 sq mi
- 2017: 3.7 sq mi
- 2018: 1.2 sq mi
- 2019: 1.2 sq miles
- 2020: 7.7 sq miles
- 2021: 8.4 sq miles

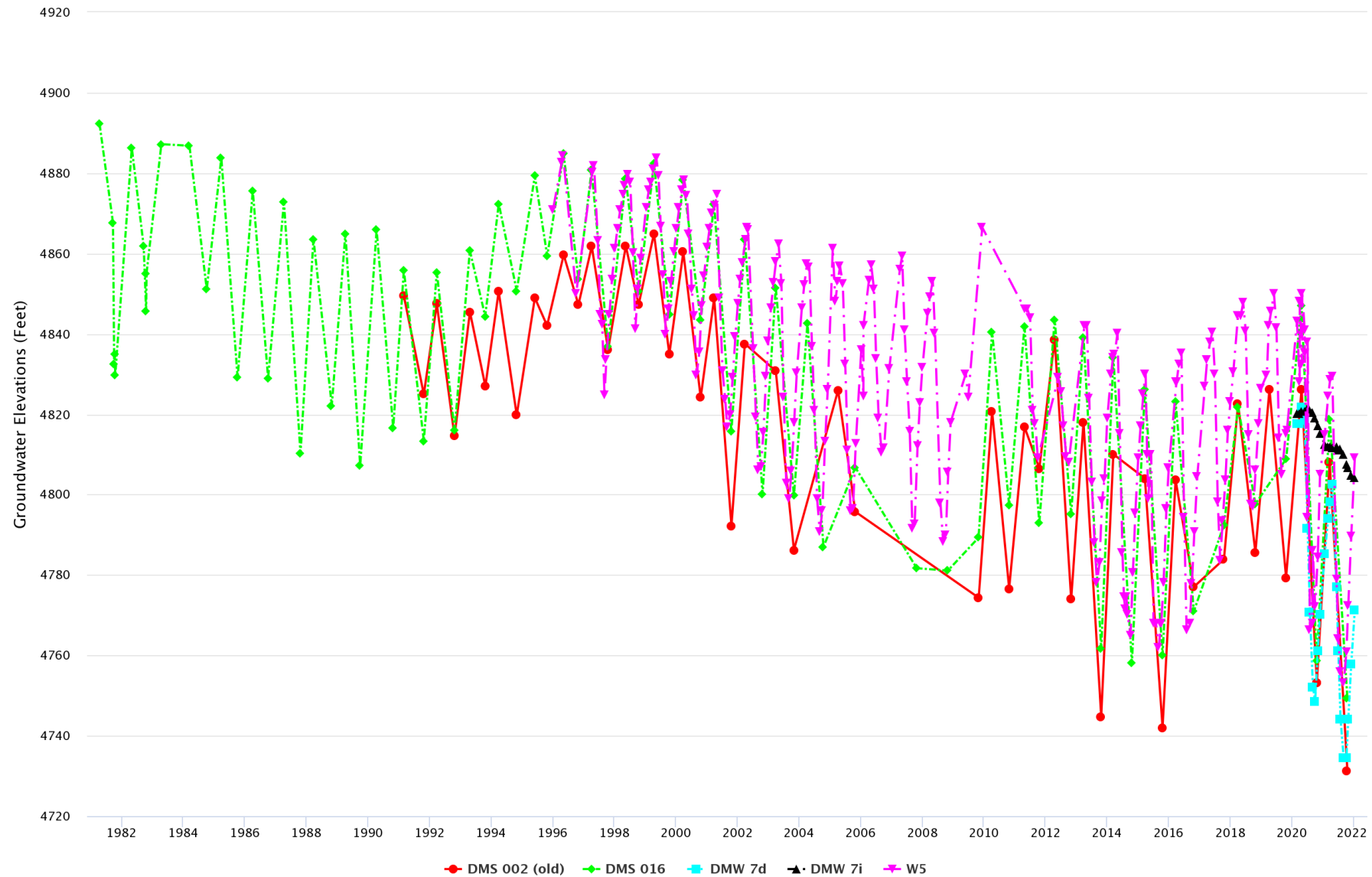






Hydrograph

Groundwater Elevations





**Sierra Valley
Groundwater
Management District**

