

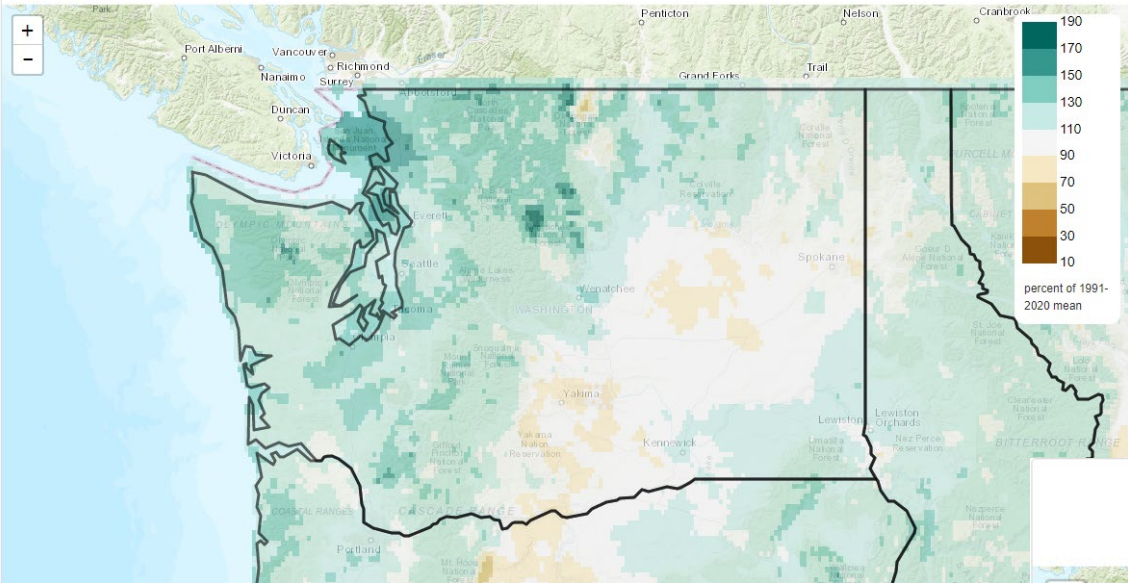
Water Supply Update

YRBWEP Workgroup

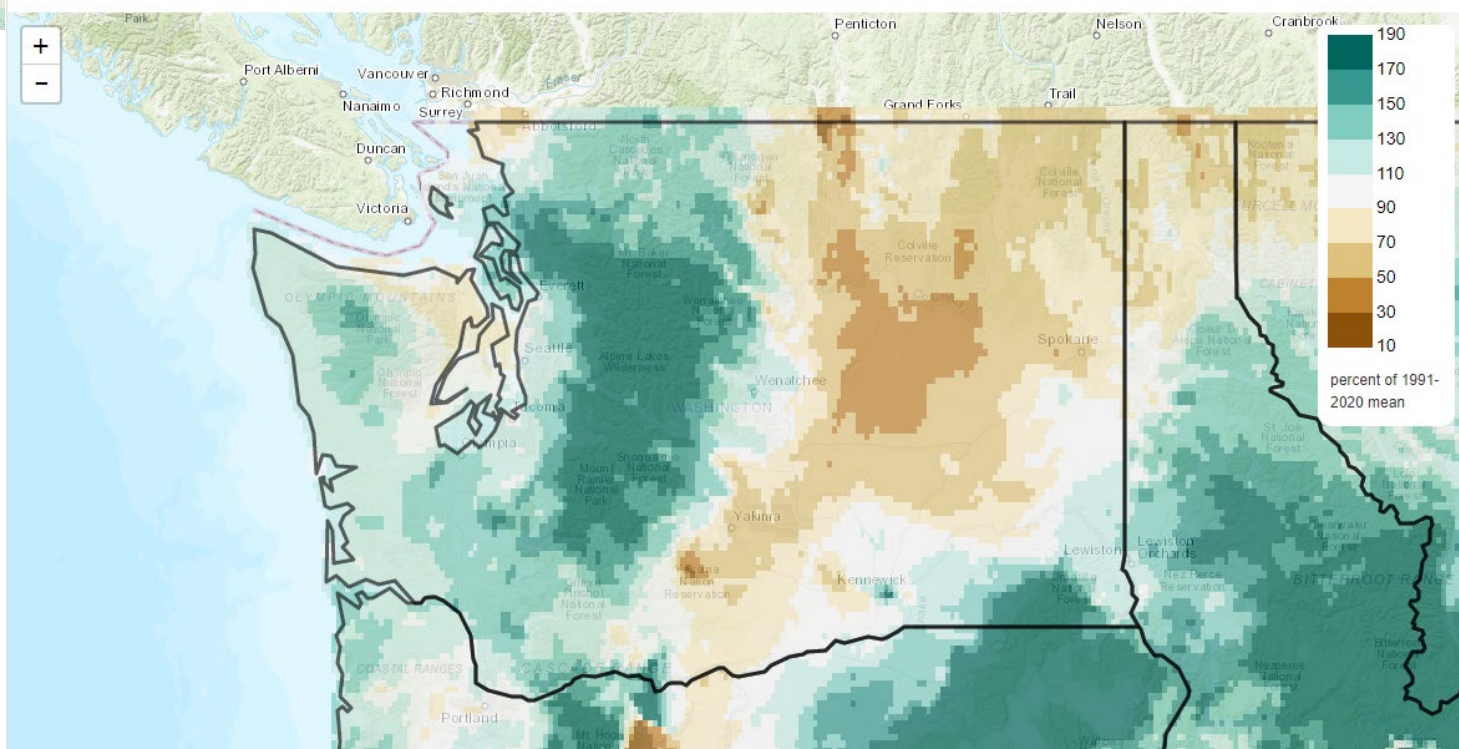
Jeff Marti, WDOE Water Resources Program

March 9, 2022

Total Precipitation Anomaly, Since Oct 1st
2021/10/01 - 2022/03/05

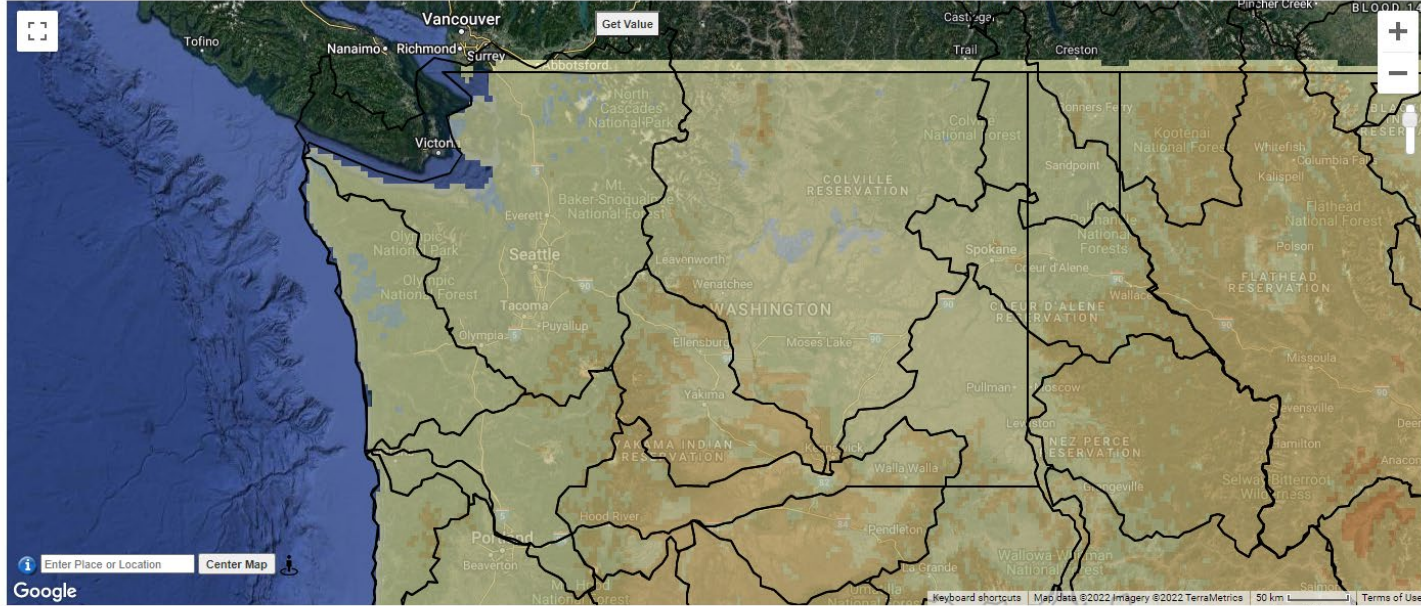


Total Precipitation Anomaly, Last 30 Days
2022/02/04 - 2022/03/05



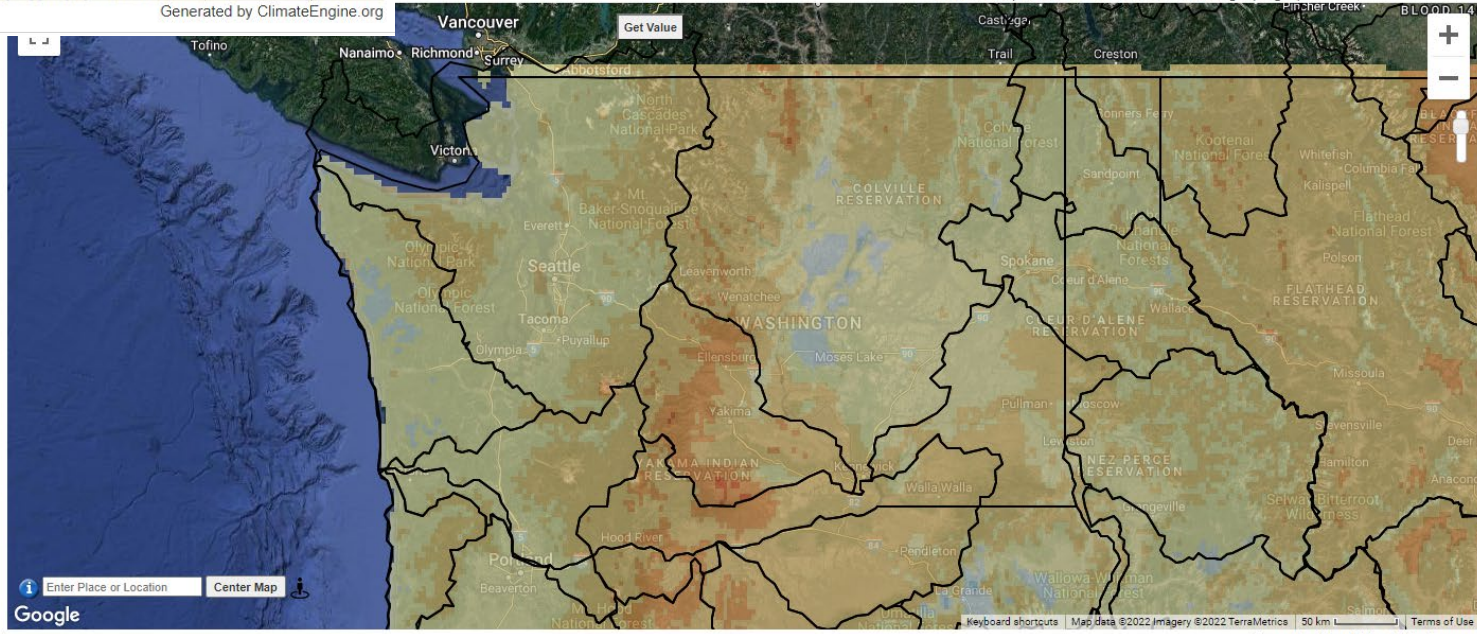
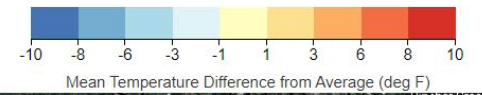
Mean Temperature Difference from Average (gridMET)

2021-10-01 to 2022-03-04, Mean, vs. 1991 - 2020



Mean Temperature Difference from Average (gridMET)

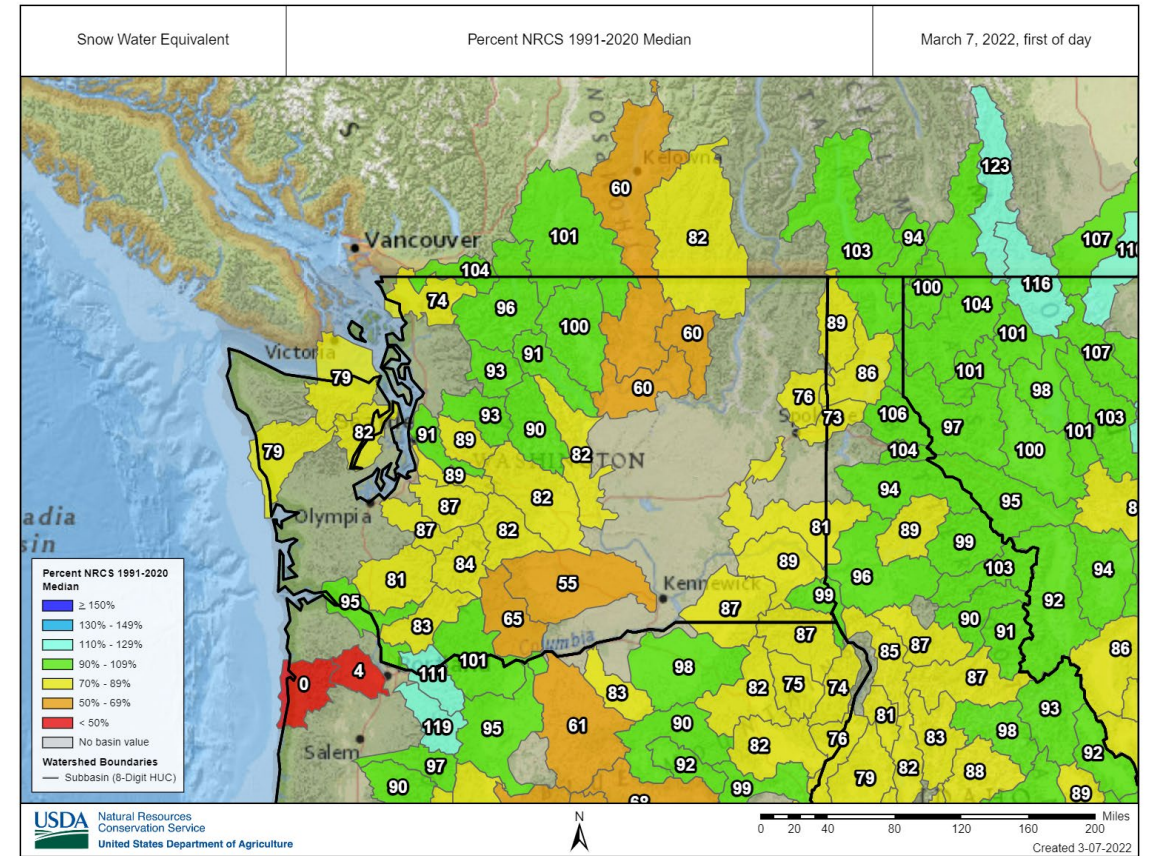
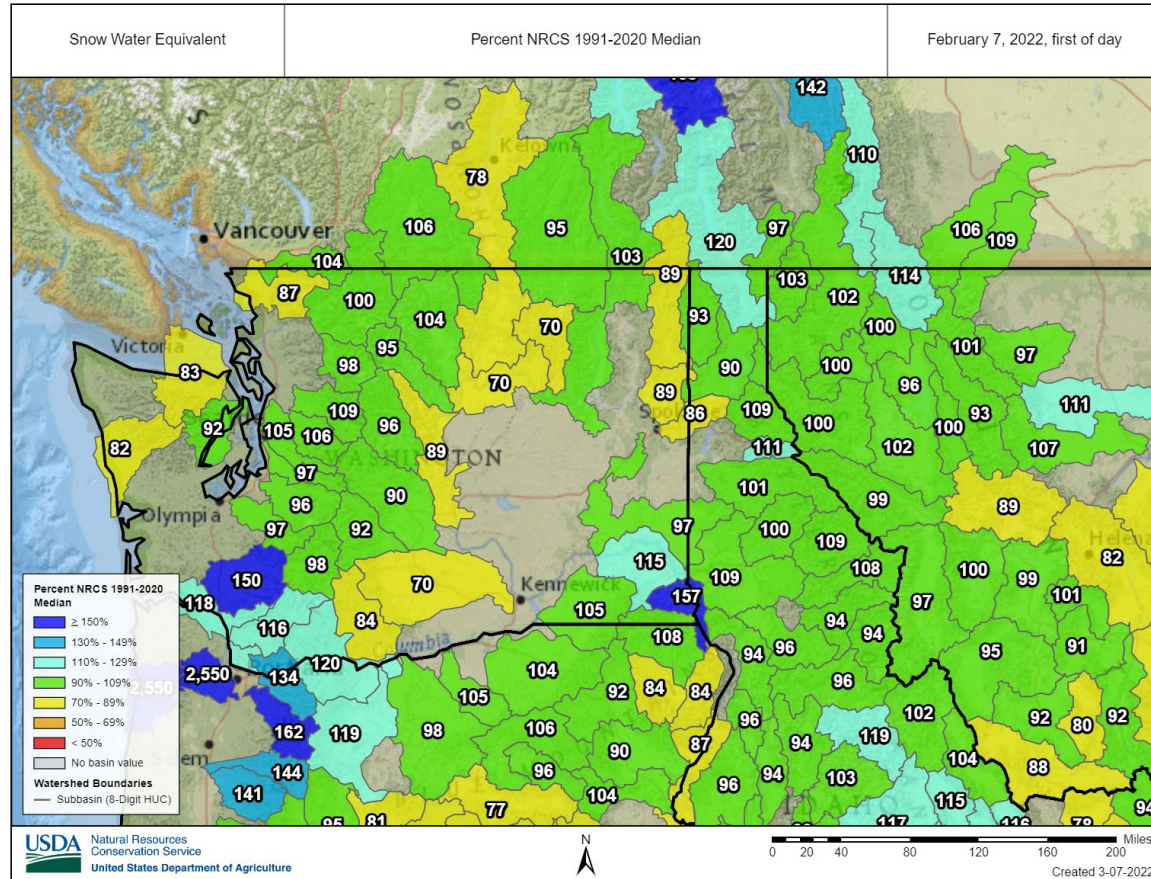
Mean, vs. 1991 - 2020



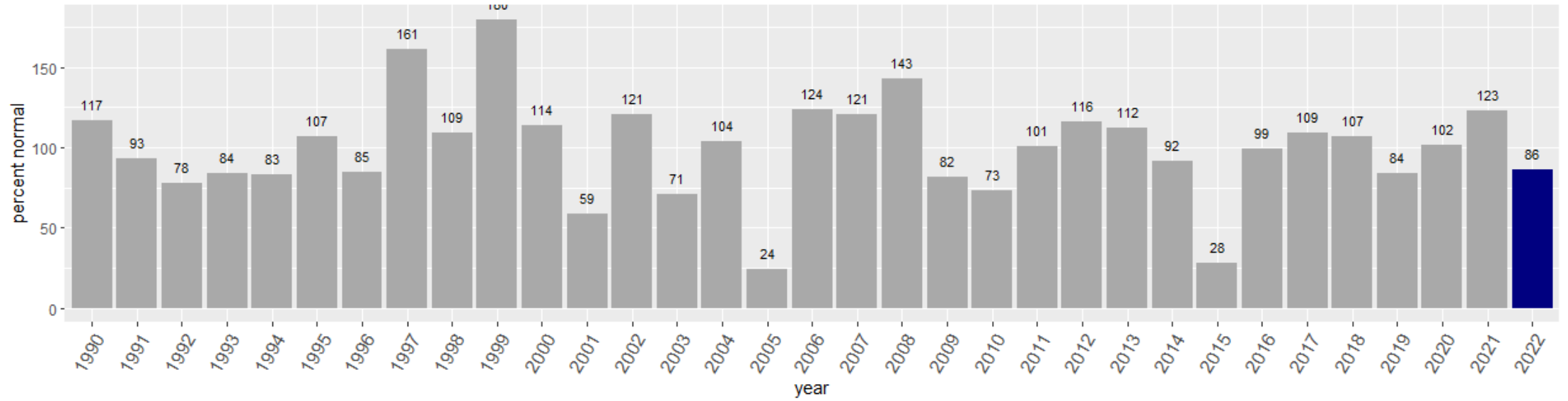
Change in Snowpack (SWE)

February 7 – 99% of Normal

March 7 – 86% of Normal

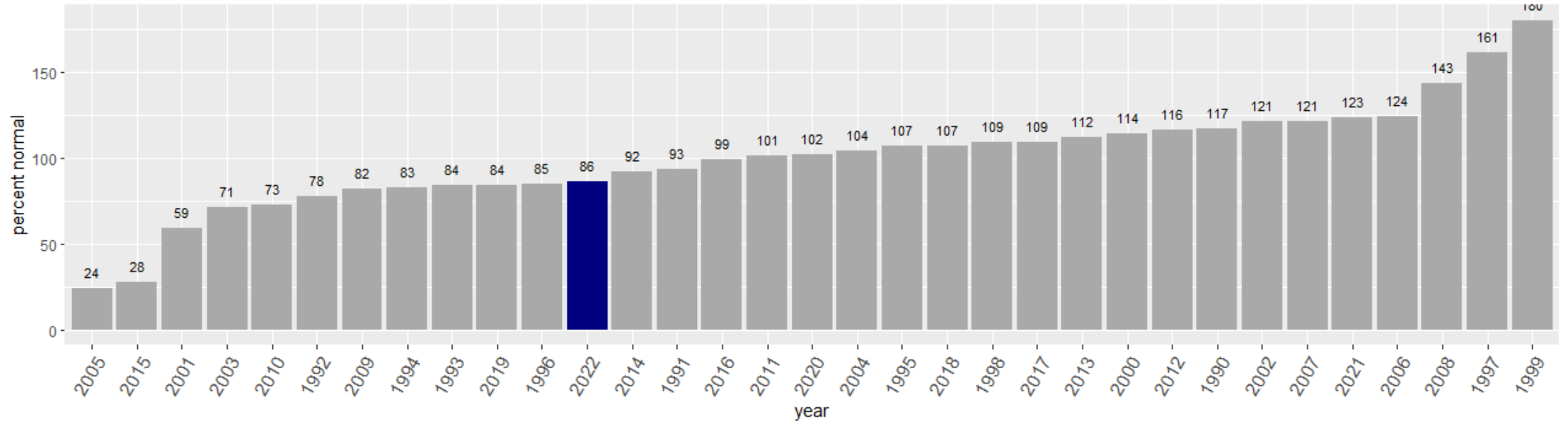


Washington statewide average Snow Water Equivalent on March 07 compared to previous years sorted by year



NRCS data

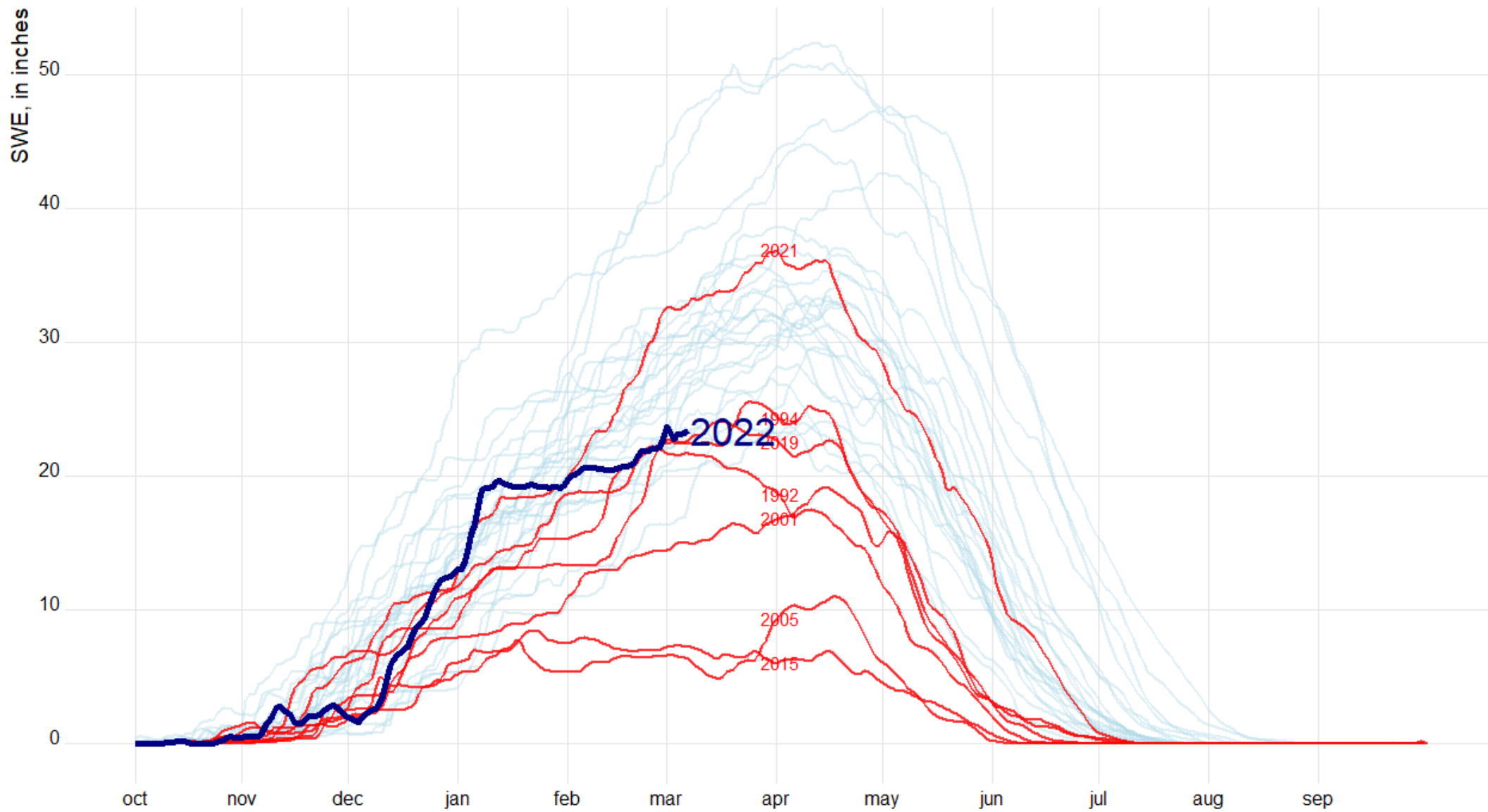
ranked by SWE



NRCS data

Average Washington State SWE (SNOTEL)

Water Years: 1990 - 2022 Created on: 2022-03-07



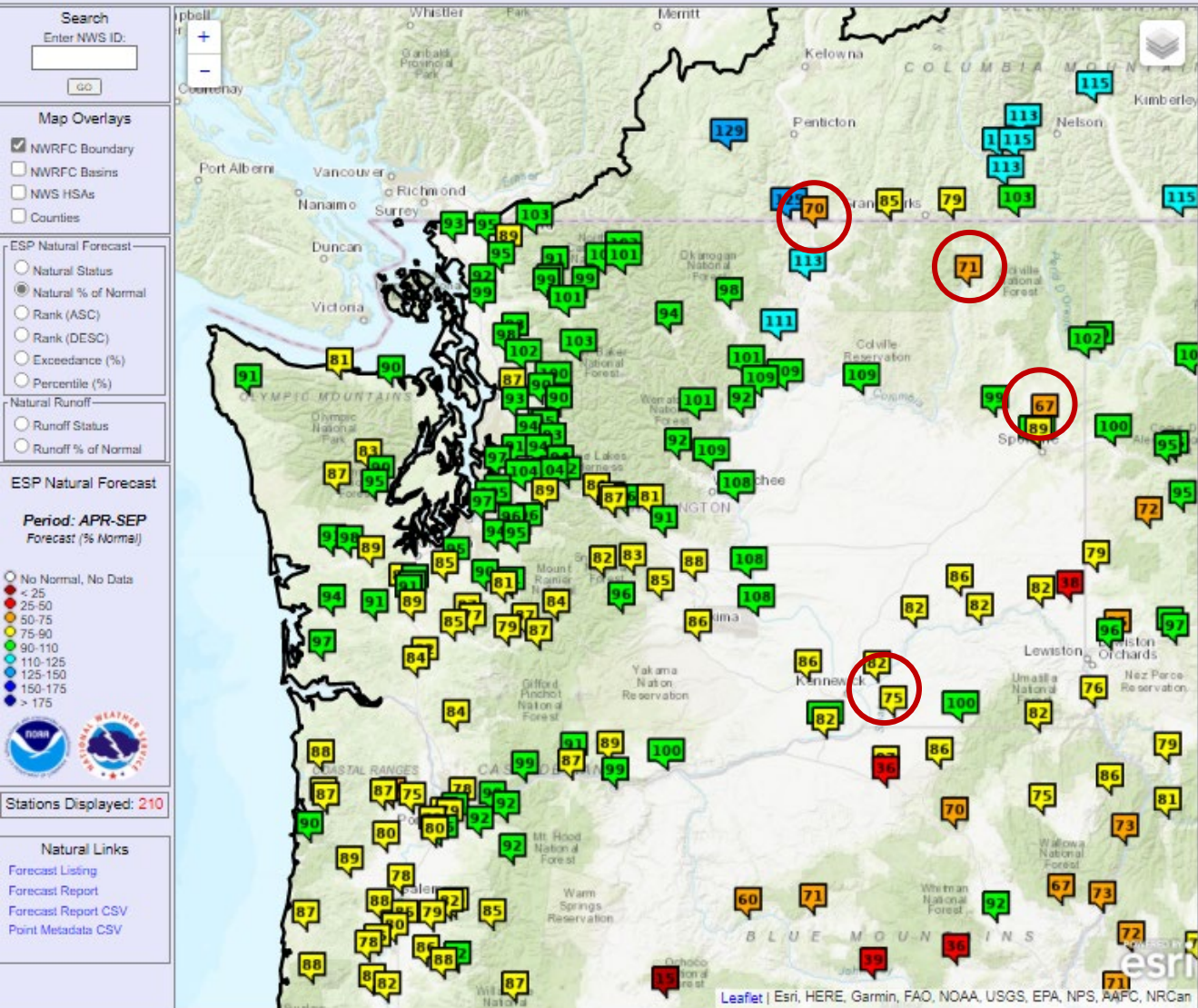


Northwest River Forecast Center ESP Natural Forecast

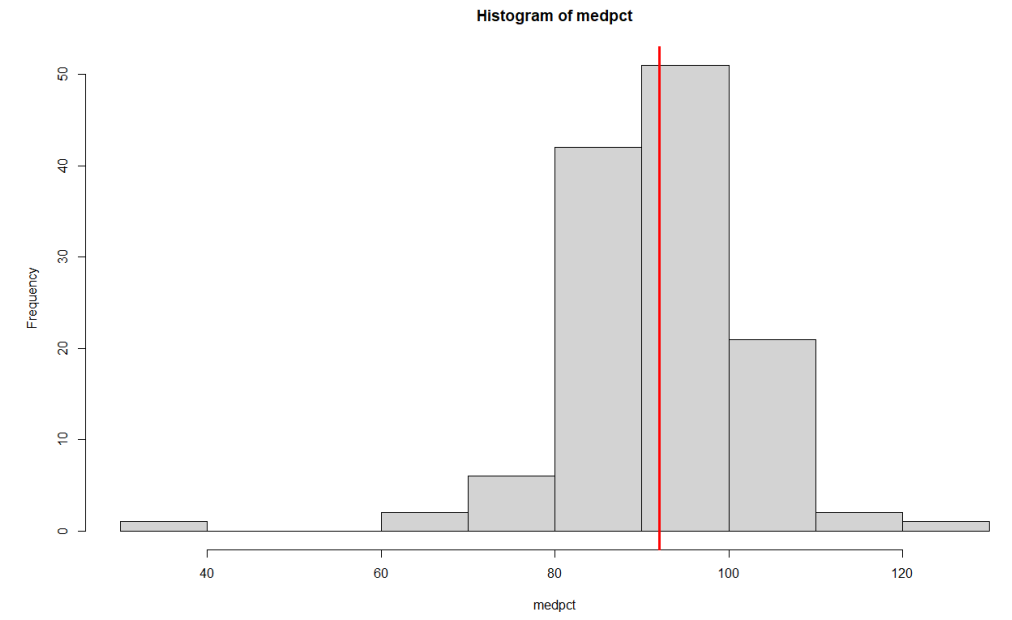


- River and Hydrology
- Water Supply
- Observations
- Weather Forecasts
- Climate
- NWRFC

Home Zoom Out Quick Zooms ESP Issued: 2022-03-06 Ensemble Date: 2022-03-06 Permalink



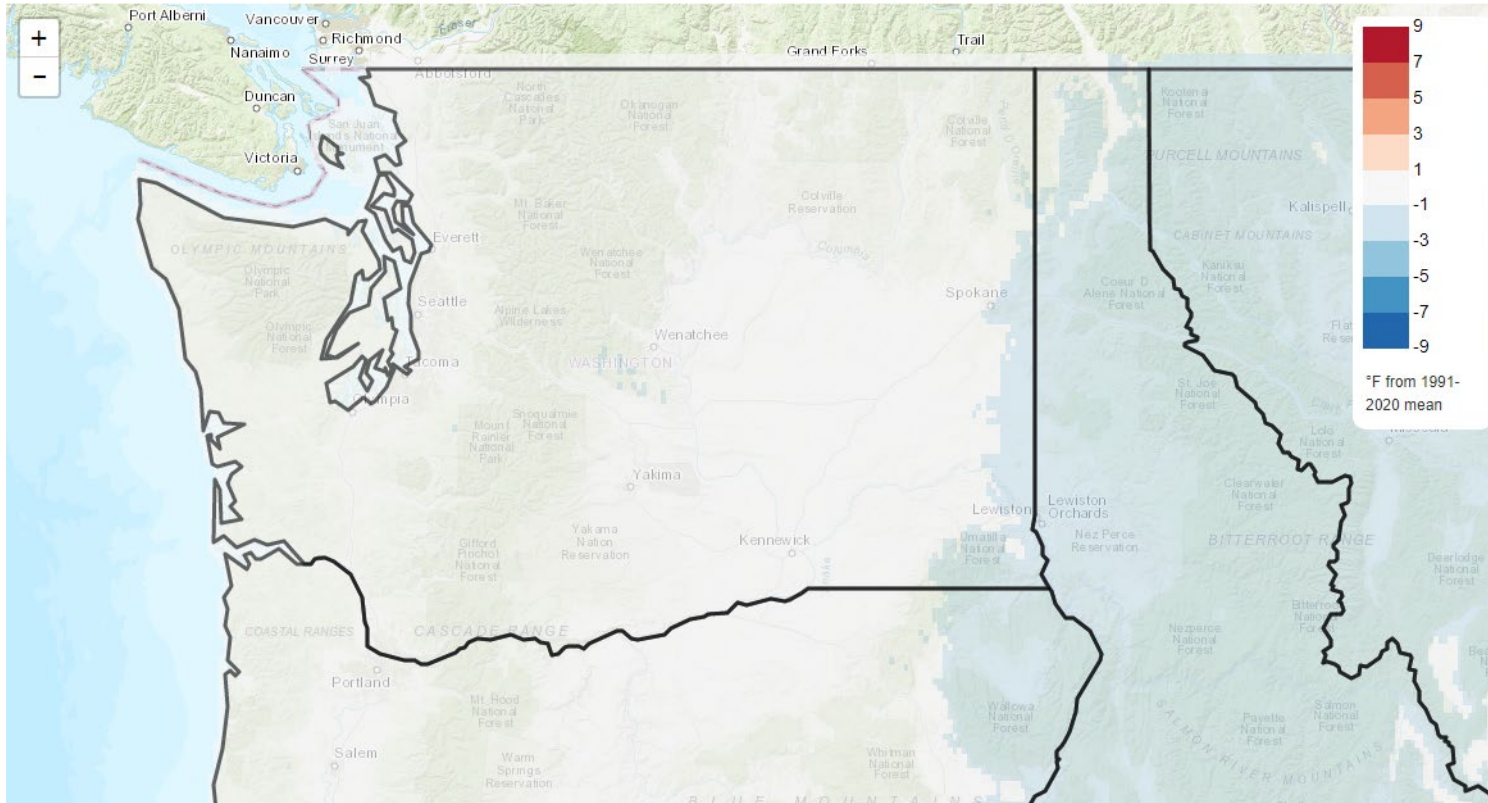
Median Forecast: 92 percent of



Mean Temperature Anomaly, Week 1-3, Next 1-21 Days

2022/03/08 - 2022/03/28

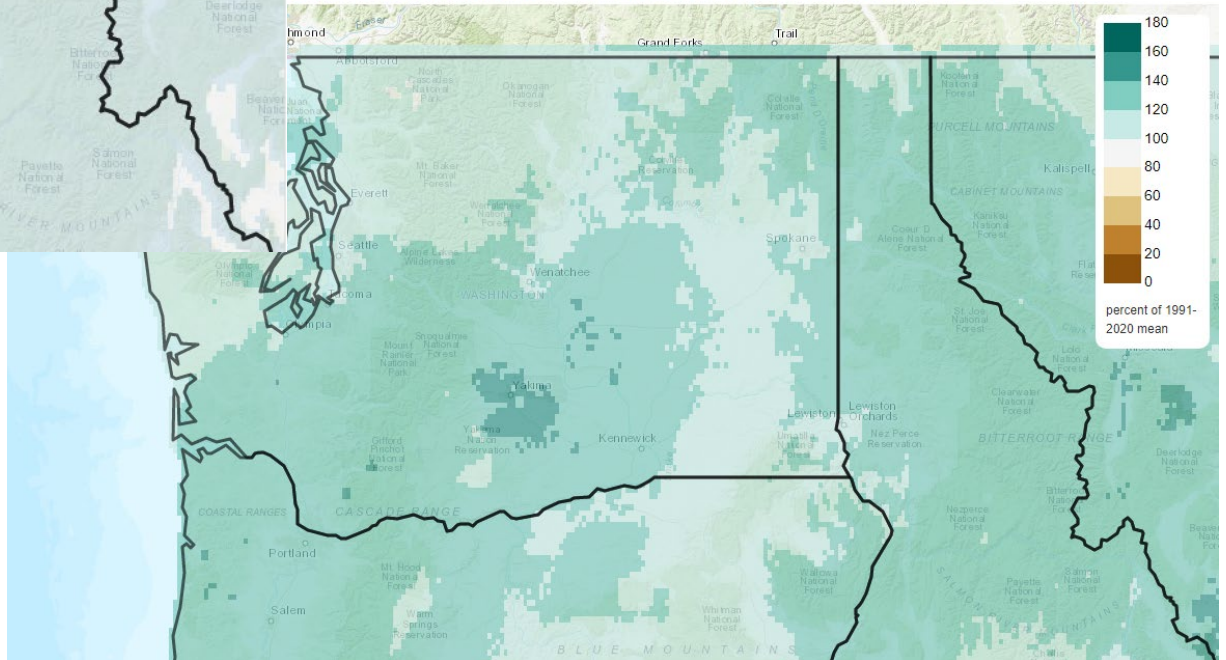
Multi-ensemble median from 48 downscaled CFSv2 ensemble forecasts - forecast made 12Z-04-Mar-2022 to 6Z-07-Mar-2022



Precipitation Anomaly, Week 1-3, Next 1-21 Days

2022/03/08 - 2022/03/28

Multi-ensemble median from 48 downscaled CFSv2 ensemble forecasts - forecast made 12Z-04-Mar-2022 to 6Z-07-Mar-2022

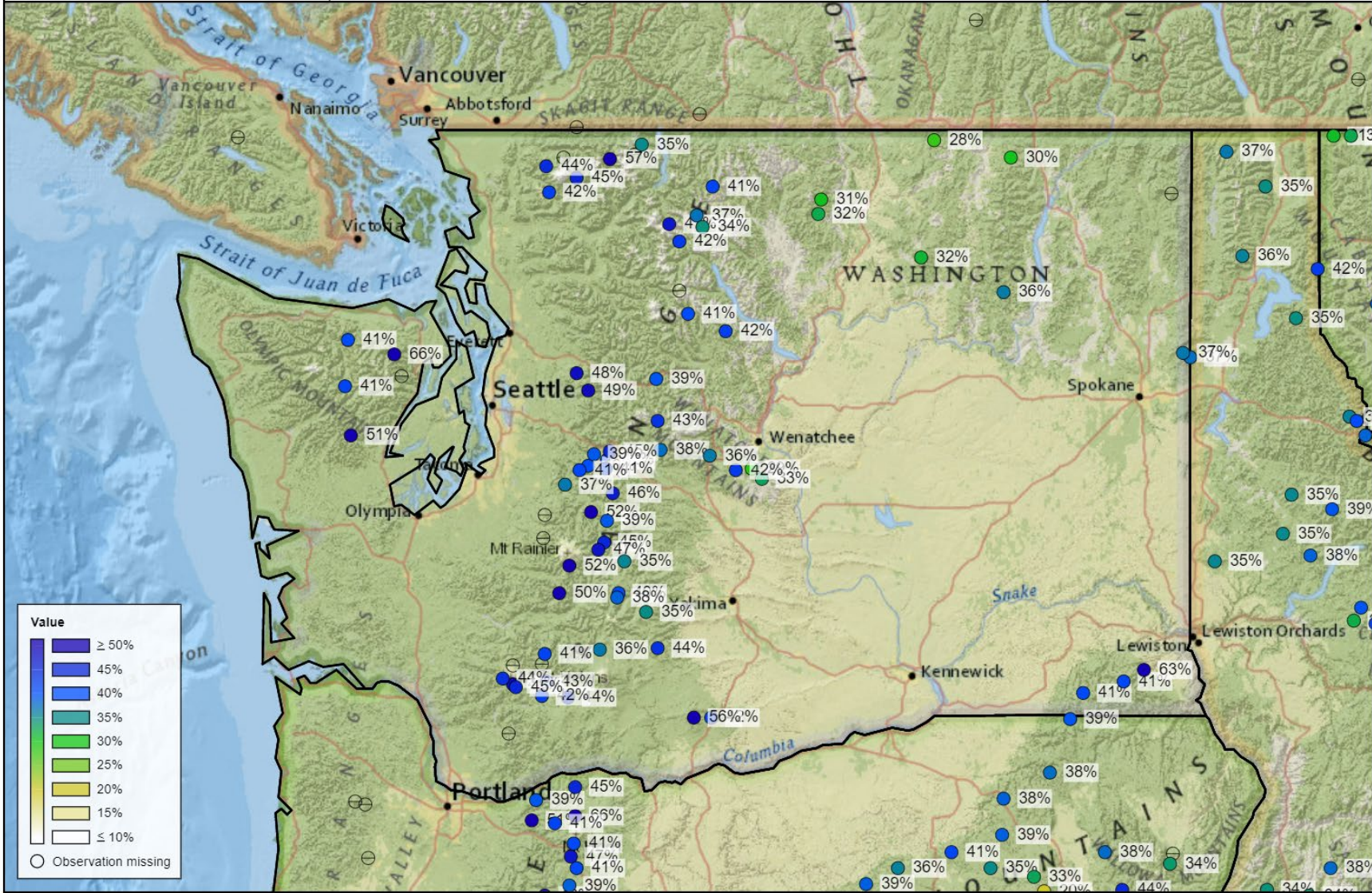




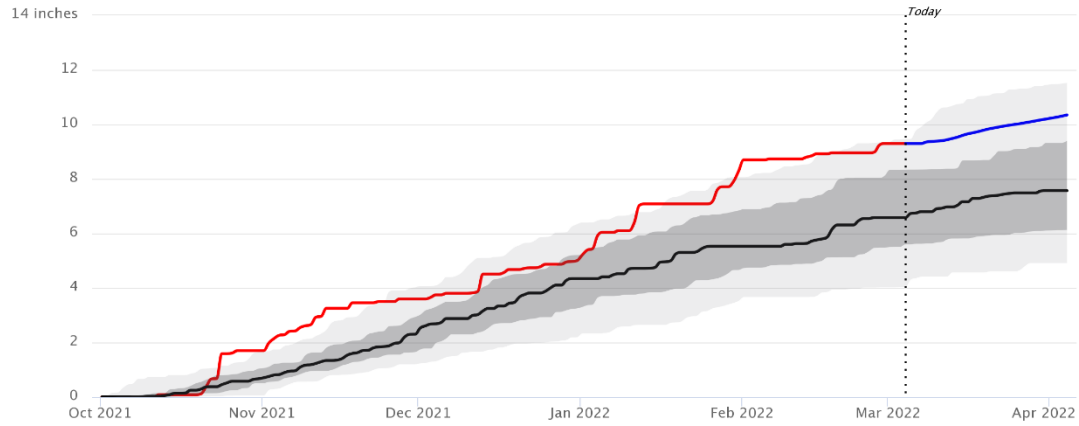
Thank you

Jeff.marti@ecy.wa.gov

Snow Density	Value	March 6, 2022, end of day
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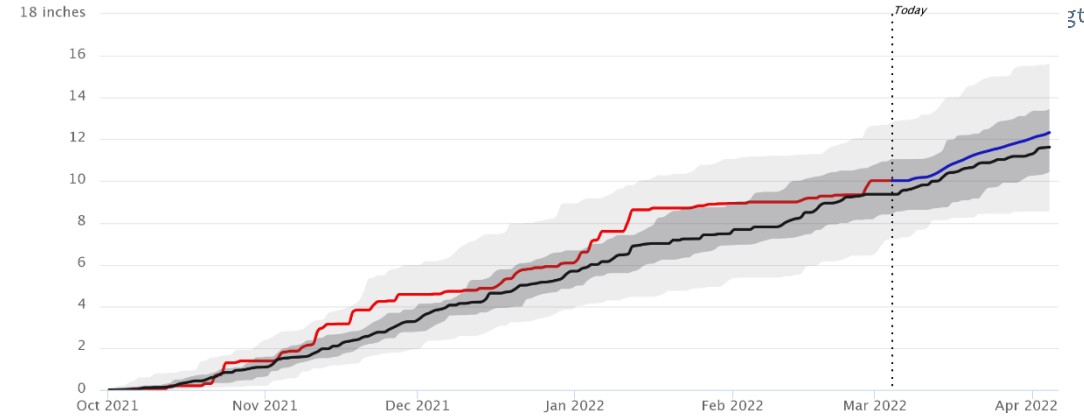
Cumulative Precipitation Okanagan, WA



— Observed (2021-2022) — Median Weather Forecast — Median Average (1980-2018) ● 10-90% Range (1980-2018)
● 30-70% Range (1980-2018)

Climate Toolbox, Data Source: gridMET, BCSD CFS-gridMET, BCSD NMME-gridMET (UC Merced)

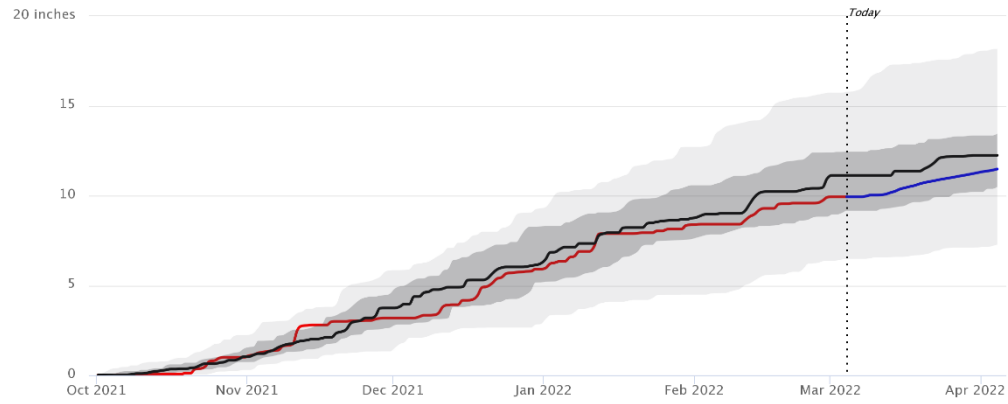
Cumulative Precipitation Spokane, WA



— Observed (2021-2022) — Median Weather Forecast — Median Average (1980-2018) ● 10-90% Range (1980-2018)
● 30-70% Range (1980-2018)

Climate Toolbox, Data Source: gridMET, BCSD CFS-gridMET, BCSD NMME-gridMET (UC Merced)

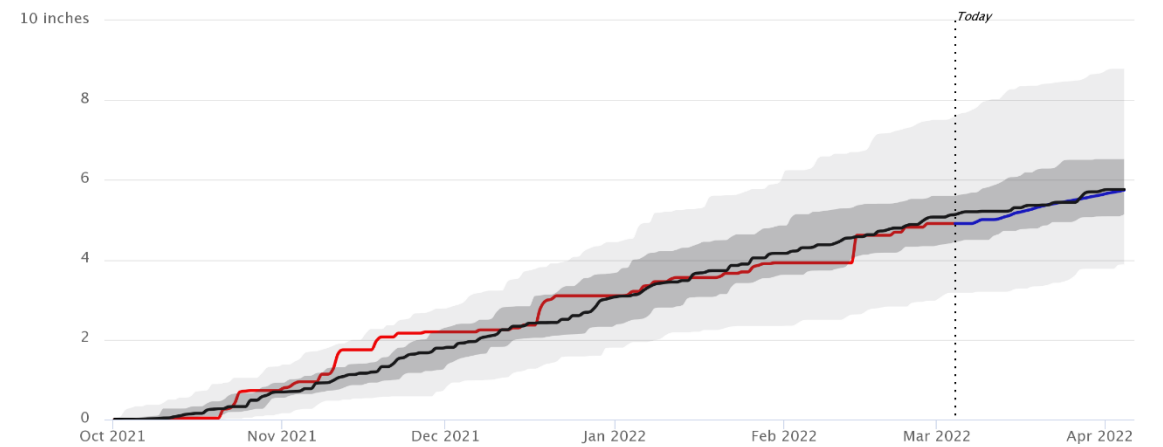
Cumulative Precipitation Goldendale, WA



— Observed (2021-2022) — Median Weather Forecast — Median Average (1980-2018) ● 10-90% Range (1980-2018)
● 30-70% Range (1980-2018)

Climate Toolbox, Data Source: gridMET, BCSD CFS-gridMET, BCSD NMME-gridMET (UC Merced)

Cumulative Precipitation Prosser, WA



— Observed (2021-2022) — Median Weather Forecast — Median Average (1980-2018) ● 10-90% Range (1980-2018)
● 30-70% Range (1980-2018)

Climate Toolbox, Data Source: gridMET, BCSD CFS-gridMET, BCSD NMME-gridMET (UC Merced)

Washington State Statewide Cumulative Precipitation (gridMET)

POR: 1979-10-01 - 2022-03-02 Created on: 2022-03-07

