

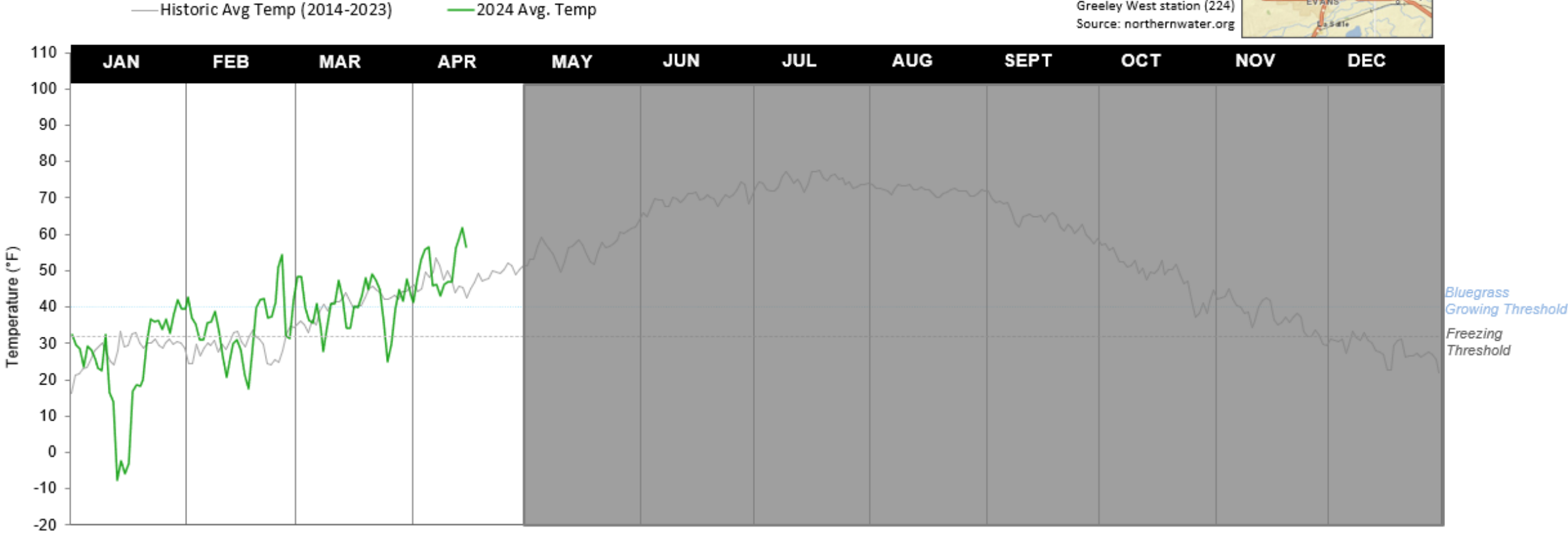
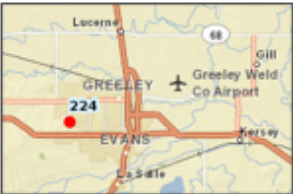
Water Supply Update and Determination of Water Sufficiency

April 17, 2024

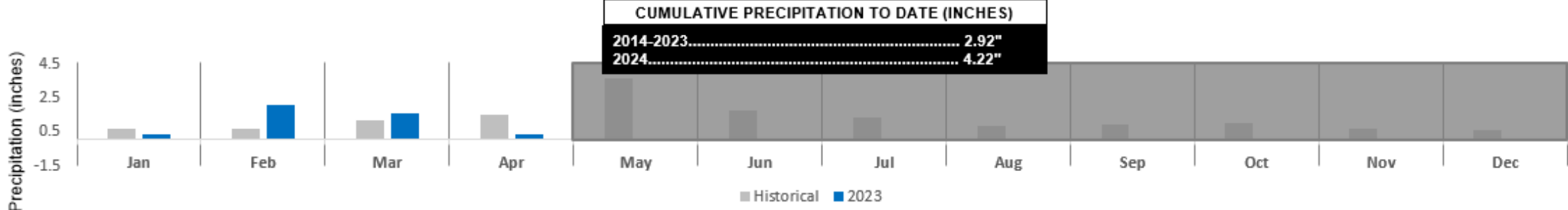
Alex Tennant and Megan Kramer
Water Resources



City of Greeley: Temperature (°F) and Precipitation 2024



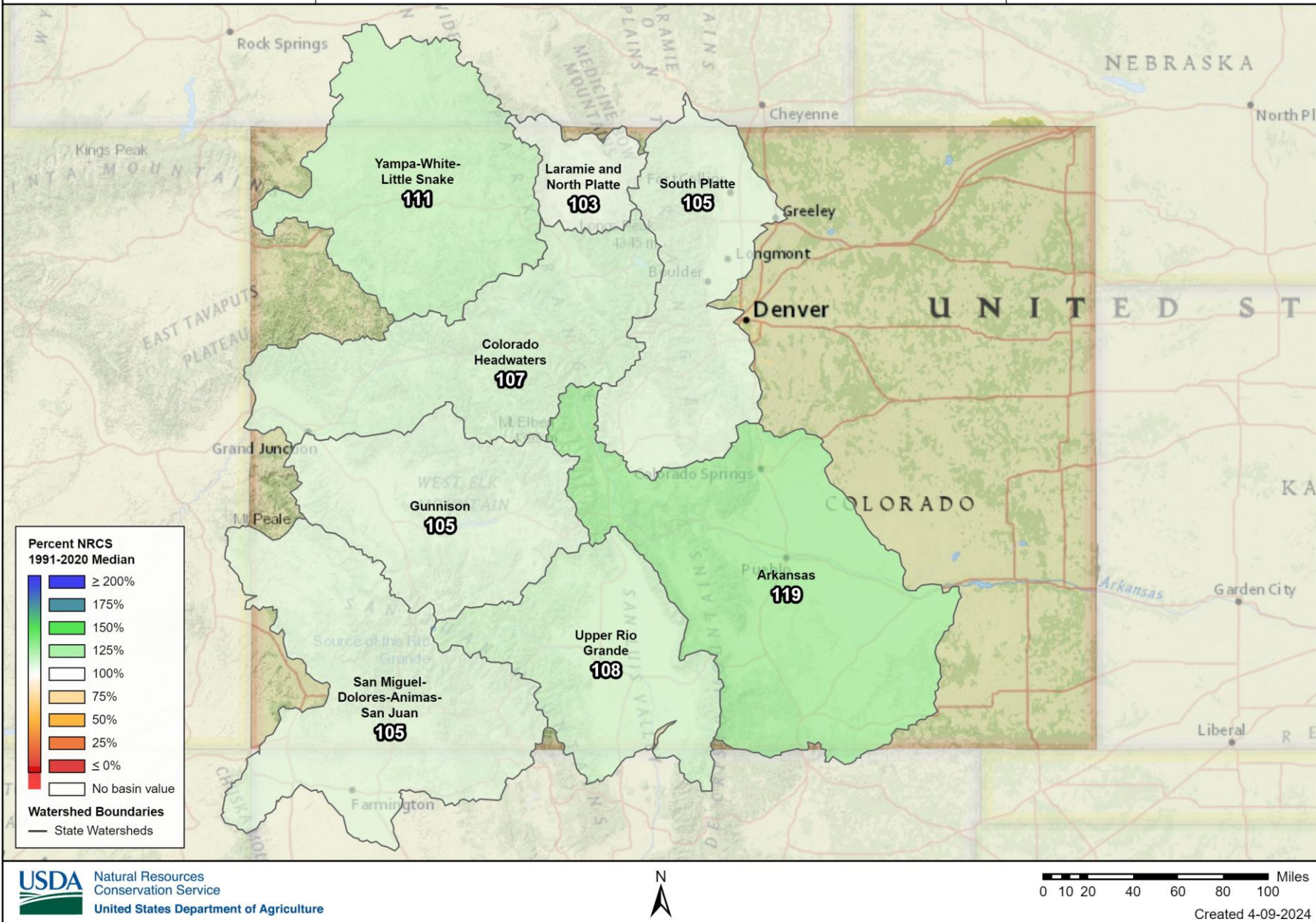
MONTHLY AVERAGE TEMPERATURE											
2014-2023	24.6° F	34.5° F	40.4° F	49.4° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F
2023	24.6° F	34.2° F	40.3° F	50.3° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F	0.0° F



Snow Water Equivalent

Percent NRCS 1991-2020 Median

April 8, 2024, end of day



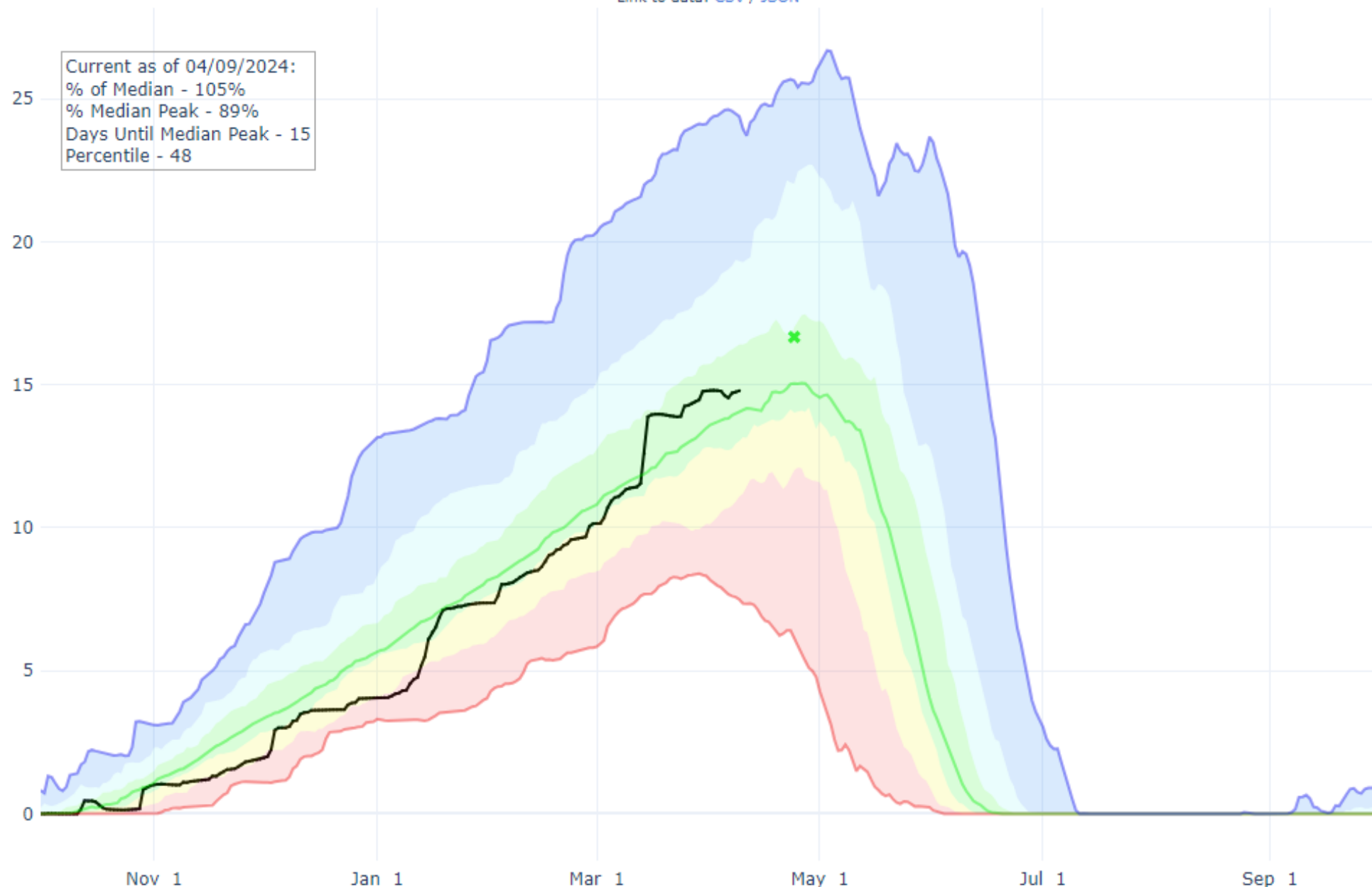
Reset Range
































[Link to data: CSV / JSON](#)

        Station List

Current as of 04/09/2024:
% of Median - 105%
% Median Peak - 89%
Days Until Median Peak - 15
Percentile - 48

Snow Water Equivalent (in.)



-  Median Peak SWE
-  Max
-  Median (POR)
-  Median ('91-'20)
-  Min
-  Stats. Shading
-  2024 (21 sites)
-  2023 (21 sites)
-  2022 (21 sites)
-  2021 (21 sites)
-  2020 (21 sites)
-  2019 (21 sites)
-  2018 (21 sites)
-  2017 (21 sites)
-  2016 (21 sites)
-  2015 (21 sites)
-  2014 (21 sites)
-  2013 (21 sites)
-  2012 (21 sites)
-  2011 (21 sites)
-  2010 (20 sites)
-  2009 (19 sites)
-  2008 (18 sites)
-  2007 (18 sites)
-  2006 (18 sites)
-  2005 (17 sites)
-  2004 (17 sites)
-  2003 (17 sites)
-  2002 (17 sites)
-  2001 (17 sites)
-  2000 (17 sites)





- Barnes Dam - 4/5

- Barnes Entry Gate – 4/2



- Snow Survey crew
end of March

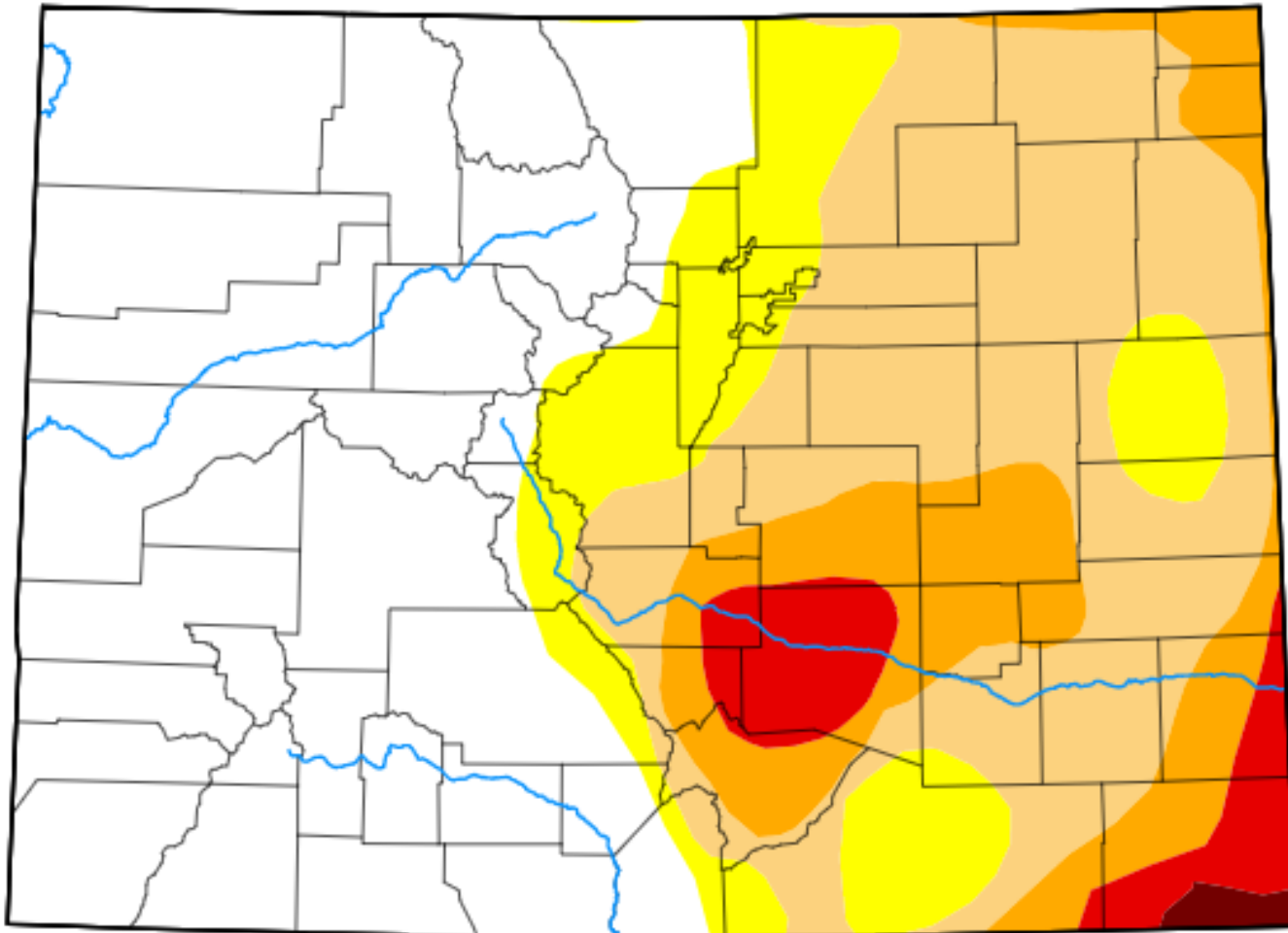


- Comanche Reservoir

Apr-Jul Maximum, Minimum
and Most Probable Streamflow Forecasts (1000 af)

Watershed	Forecast Minimum	Most Probable	Forecast Maximum	Apr-Jul Avg ⁽³⁾	Most Prob % Average
Blue River	211	276	341	283	98%
Upper Colorado River	164	208	264	226	92%
Willow Creek	38	55	72	50	110%
Fraser River	103	132	161	118	112%
Poudre River	144	227	310	230	99%
Big Thompson River	57	93	130	91	102%
St. Vrain River	61	93	126	90	103%
Boulder Creek	42	59	76	54	109%
South Platte Tributaries	--	472	--	465	102%

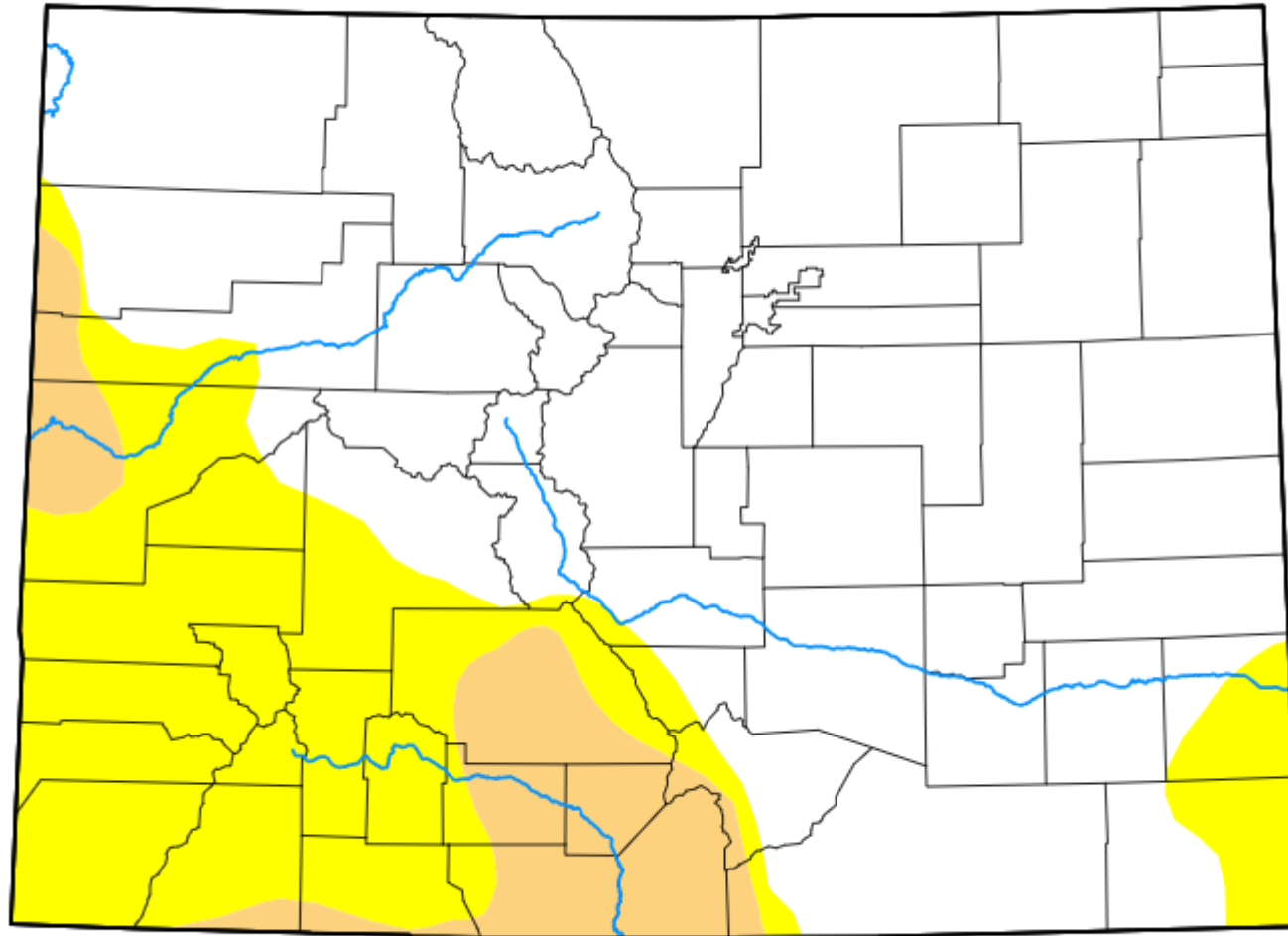




April 11, 2023

Intensity

	None
	D0 (Abnormally Dry)
	D1 (Moderate Drought)
	D2 (Severe Drought)
	D3 (Extreme Drought)
	D4 (Exceptional Drought)
	No Data



April 9, 2024

Intensity

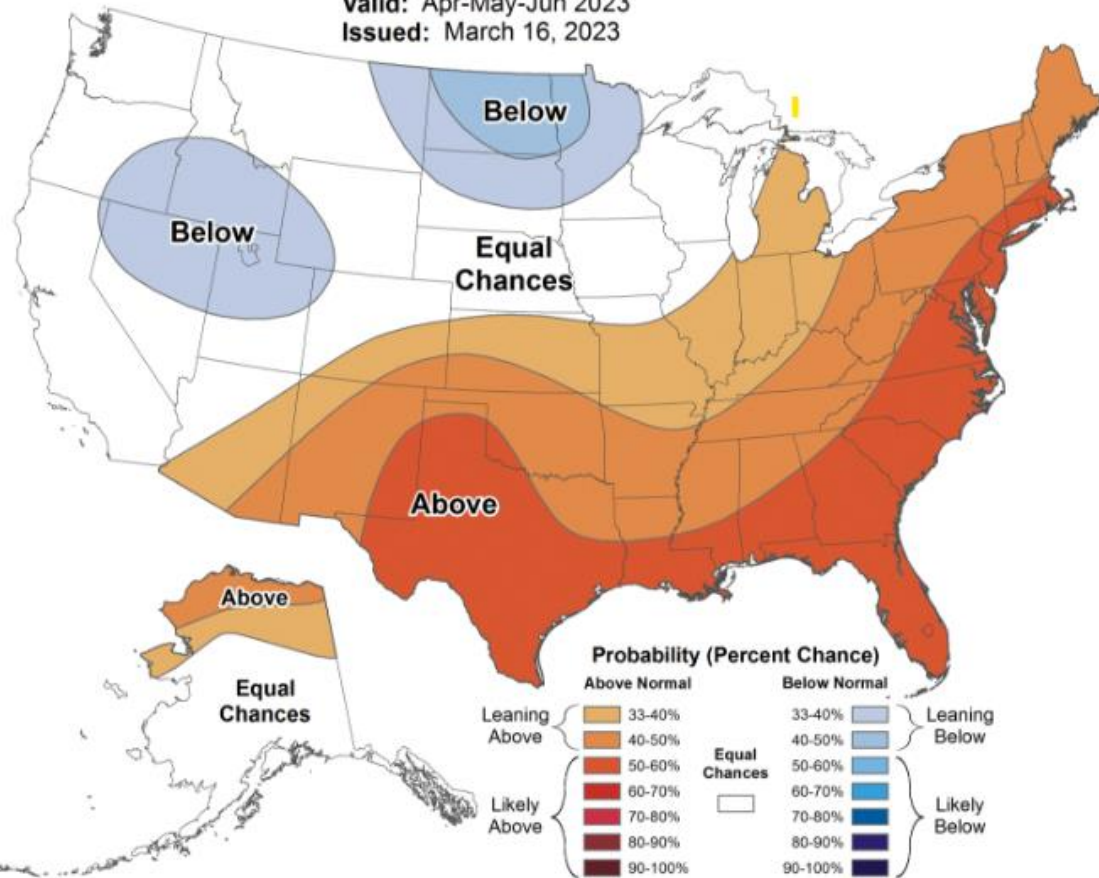
- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data



Seasonal Temperature Outlook



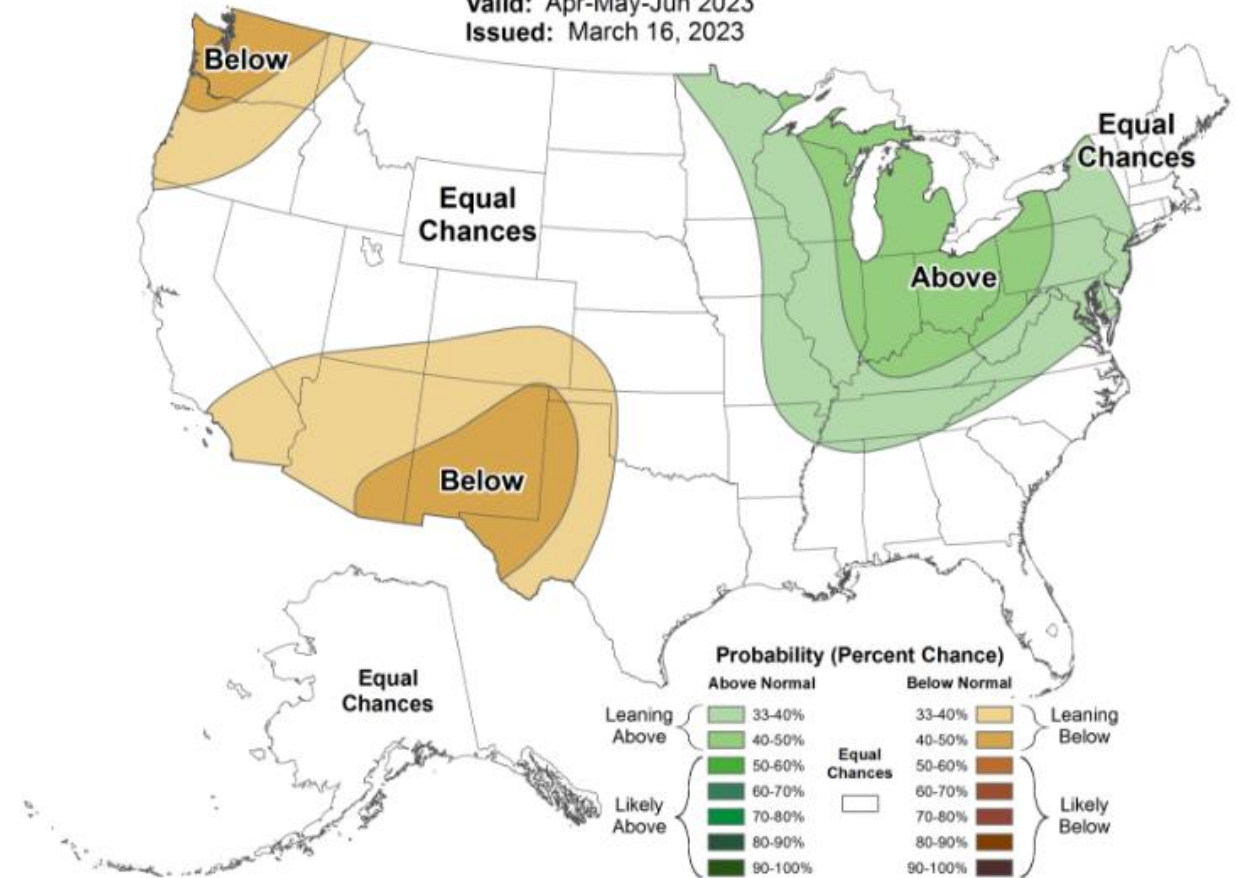
Valid: Apr-May-Jun 2023
Issued: March 16, 2023



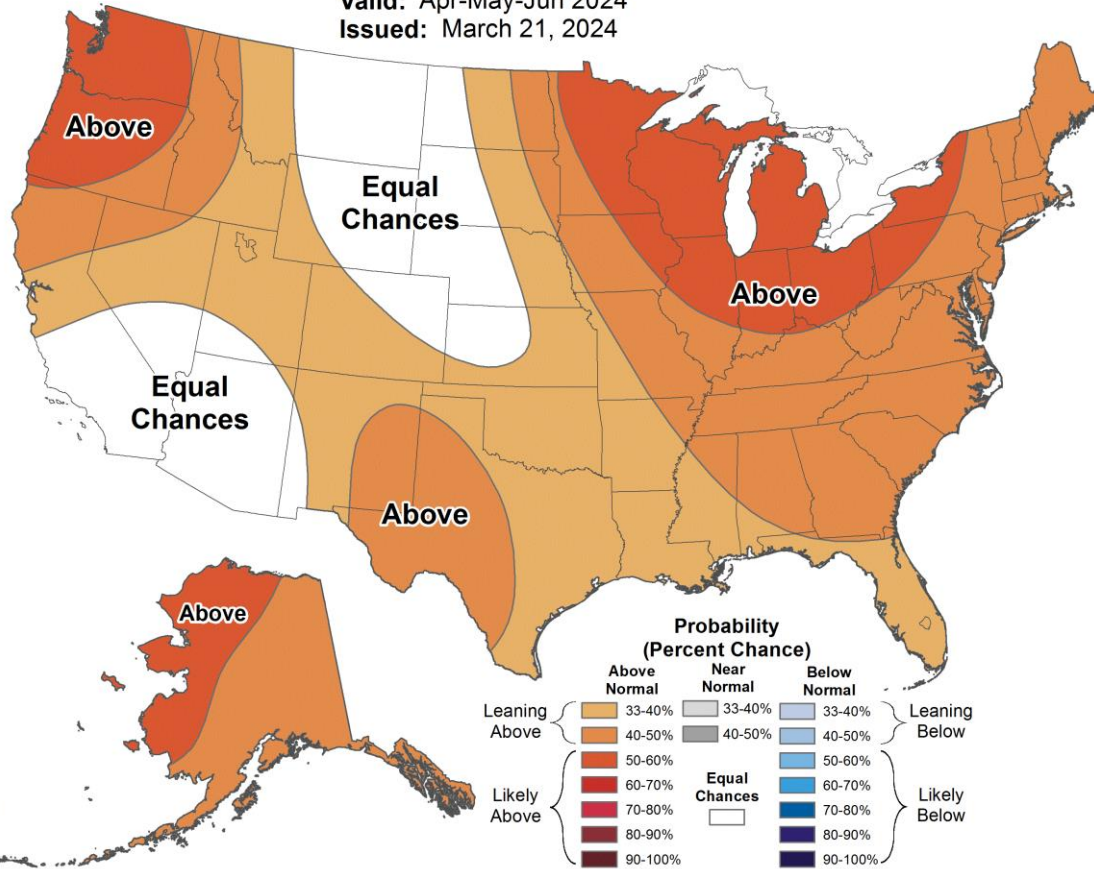
Seasonal Precipitation Outlook



Valid: Apr-May-Jun 2023
Issued: March 16, 2023

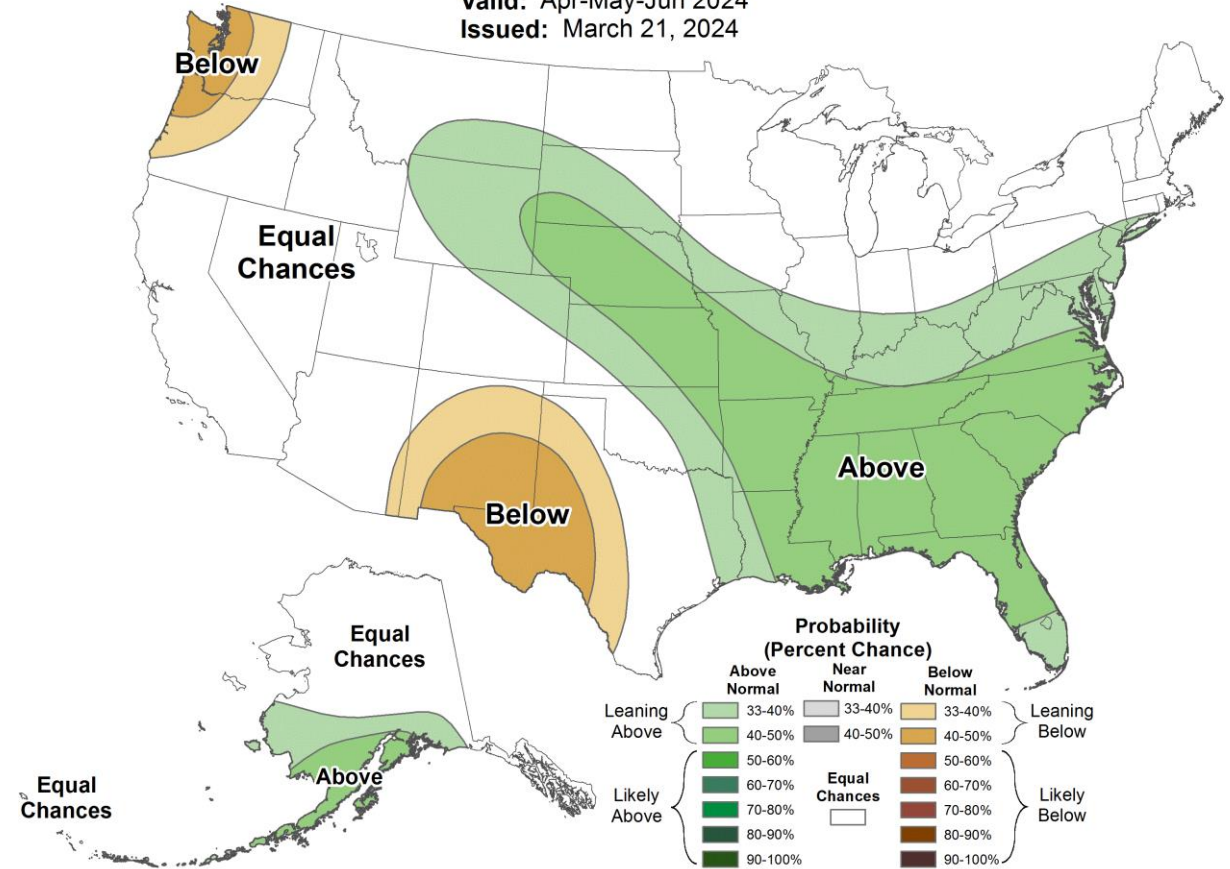


Valid: Apr-May-Jun 2024
Issued: March 21, 2024

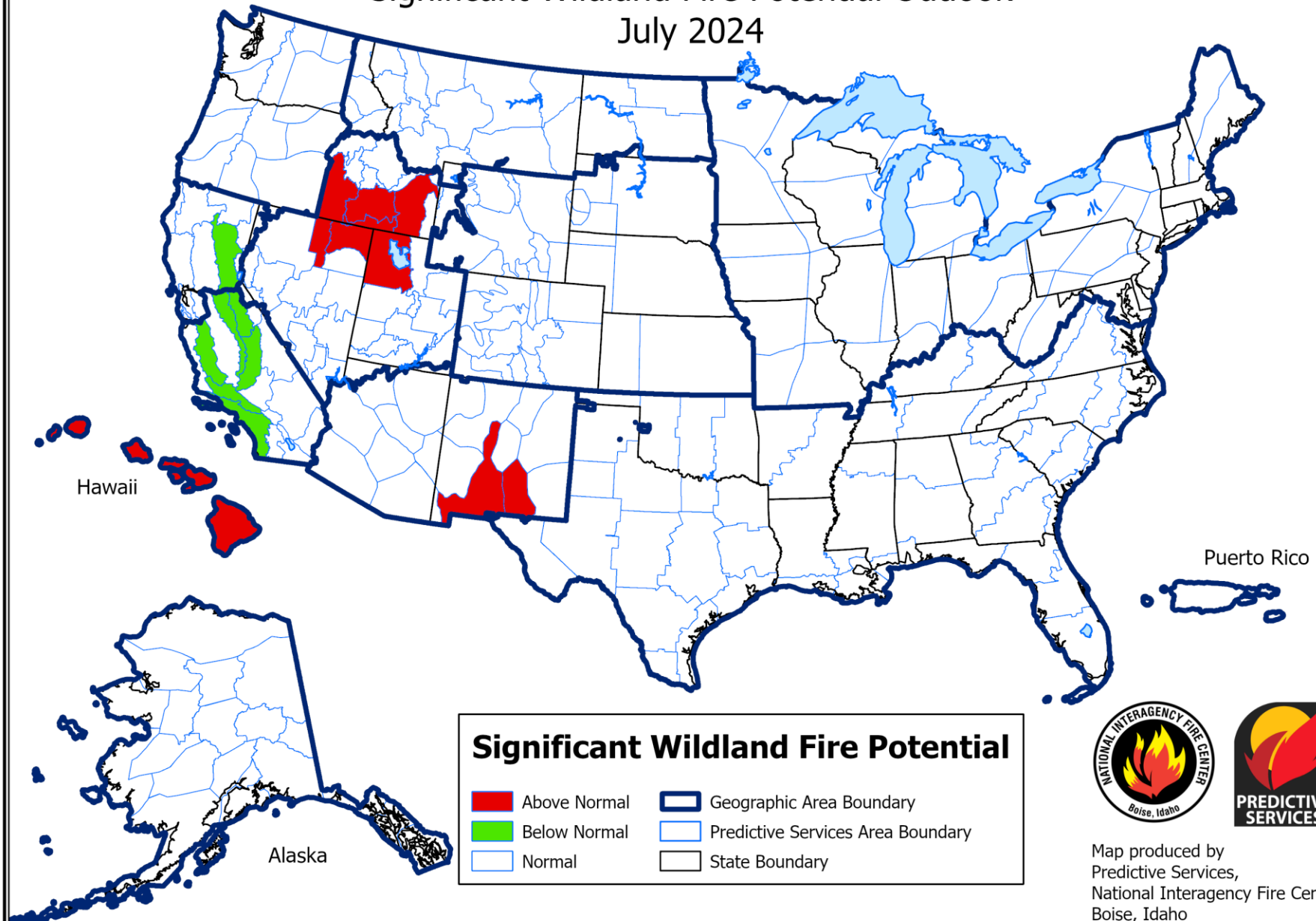


Seasonal Precipitation Outlook

Valid: Apr-May-Jun 2024
Issued: March 21, 2024



Significant Wildland Fire Potential Outlook July 2024



Above normal significant wildland fire potential indicates a greater than usual likelihood that significant wildland fires will occur.
Significant wildland fires should be expected at typical times and intervals during normal significant wildland fire potential conditions.
Significant wildland fires are still possible but less likely than usual during forecasted below normal periods.



Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued April 1, 2024
Next issuance May 1, 2024

Target Storage Assumptions

- 70% quota from Northern (issued Apr 13)
- GLIC dividends for dry-year
- 2012 water demands
- No additional pumping of Windy Gap water
- 500 acre-feet of directs unable to be treated due to water quality issues from Cameron Peak fire impacts



21,300 AF Target Storage

Source	April 2024 Storage (acre-feet)	Demands/Losses (April 2024 - March 2025) (acre-feet)	Yields (April 2024 - March 2025) (acre-feet)	April 2025 Projected Storage (acre-feet)
	(1)	(2)	(3)	(4)
NCWCD (C-BT)	18,085	12,272	11,402	17,215
WINDY GAP	452	2,682	0	0
GLIC SYSTEM	13,576	9,861	9,525	13,240
TUNNEL	884	1,000	1,000	884
TOTAL	32,997	25,815	21,927	31,339

Recommendations

- Declare “Adequate Water Year”
- Maintain target storage volume at 21,300 AF
- Continue long-term rentals
- Rent excess supply

