# Water Supply Update and Determination of Water Sufficiency April 19, 2023

Alex Tennant, Water Resources Administrator II

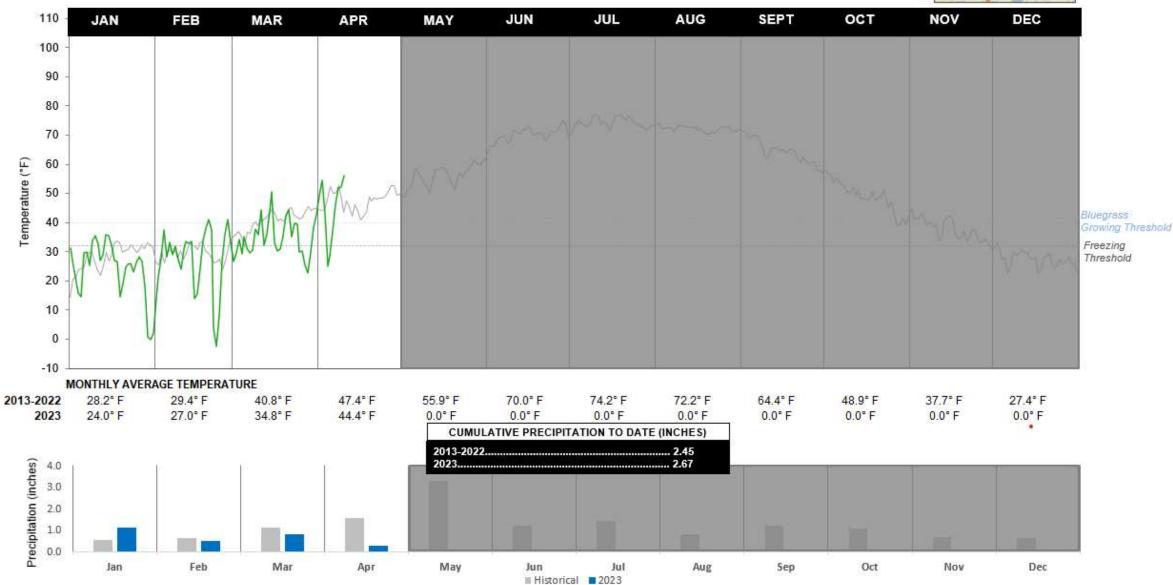


#### City of Greeley: Temperature (°F) and Precipitation 2023

— Historic Avg Temp (2013-2022) — 2023 Avg. Temp

Greeley West station (224) Source: northernwater.org





#### Colorado SNOTEL Current Snow Water Equivalent (SWE) % of Normal Laramie and North Platte Apr 10, 2023 South Platte 131 Fort Collins Yampa and White Steambural Springs 145 Current Snow Water Boulder O 107 **Upper Colorado** Equivalent (SWE) Basin-wide Percent Headwaters Denver of 1991-2020 Median Sterwood Springs unavailable \* 131 <50% Aspen 50 - 69% Sparrel surrection 70 - 89% Colorado Springs Gunnison 90 - 109% 165 Arkansas 110 - 129% · Straka 130 - 149% Planda San Miguel, >=150%

137

Alamoso O

**Upper Rio Grande** 

Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data Subject to Revision



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

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anny

Dolores,

Animas and San Juan

183

0 60 80 100

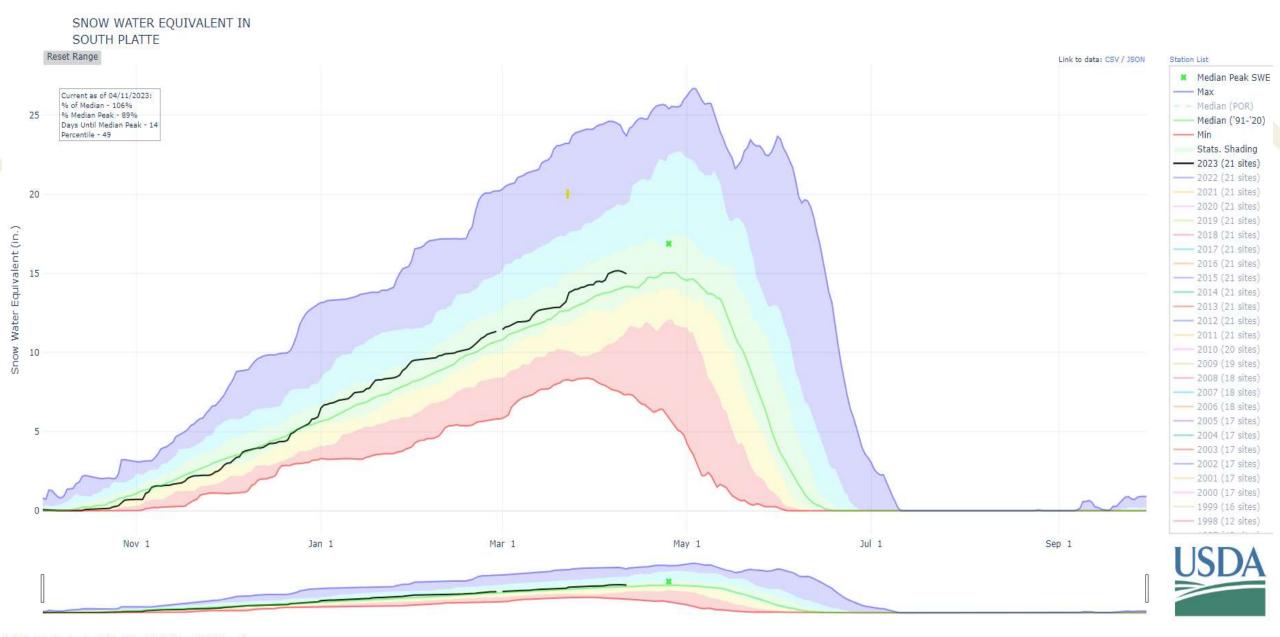
Prepared by:

USDA/NRCS National Water and Climate Center

Portland, Oregon

https://www.nrcs.usda.gov/wps/portal/wco/home/

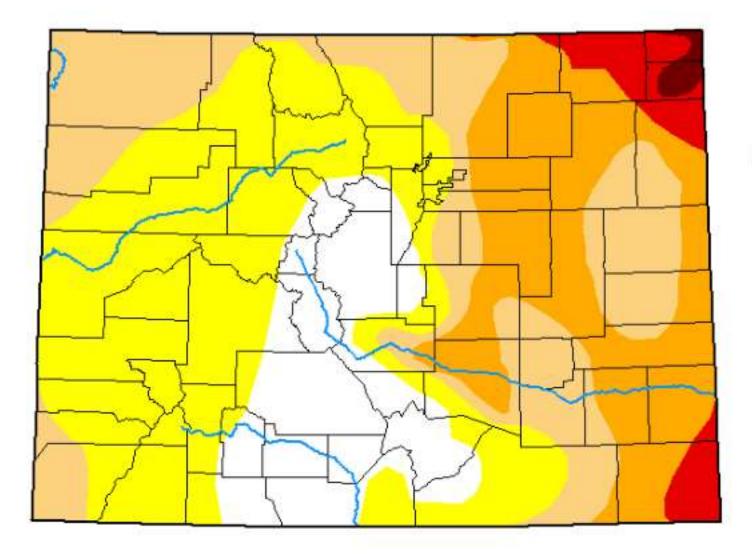
95



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

Watershed	Forecast	Most	Forecast	Apr-Jul	Most Prob
	Minimum	Probable	Maximum	Avg (3)	% Average
Blue River	192	257	322	283	91%
Upper Colorado River	199	250	314	226	111%
Willow Creek	60	76	92	50	152%
Fraser River	93	123	153	118	104%
Poudre River	168	250	332	230	109%
Big Thompson River	68	104	140	91	114%
St. Vrain River	65	98	131	90	109%
Boulder Creek	39	55	71	54	102%
South Platte Tributaries		507		465	109%

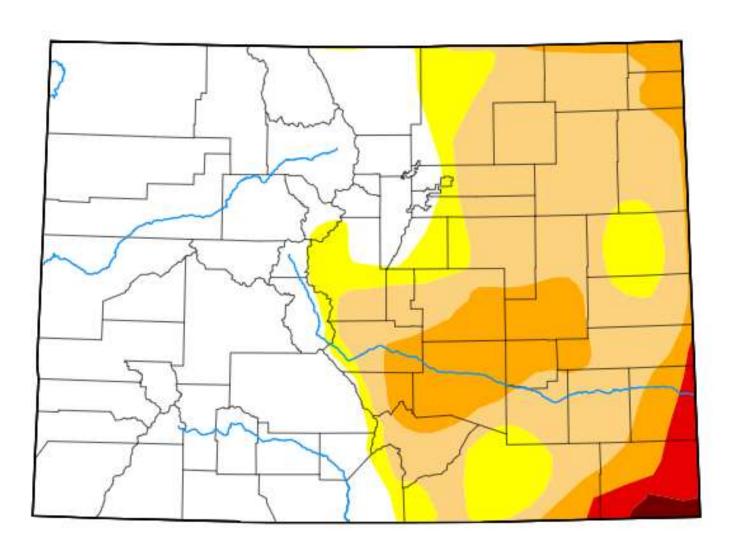




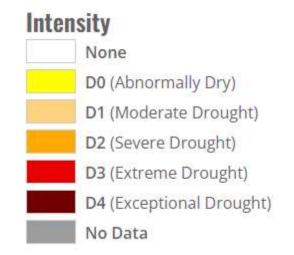
#### November 29, 2022





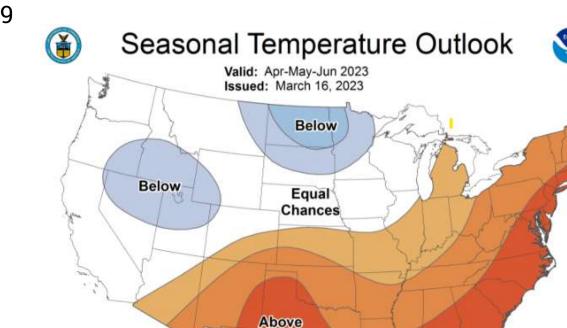


#### April 4, 2023









Probability (Percent Chance)

**Below Normal** 

40-50% 50-60% 60-70%

Leaning

Likely

Below

Above Normal

70-80%

90-100%

80-90%

Leaning

Above

Above

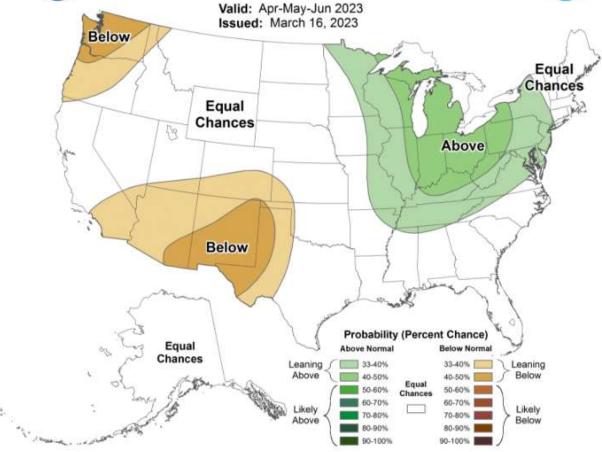
Equal

Chances

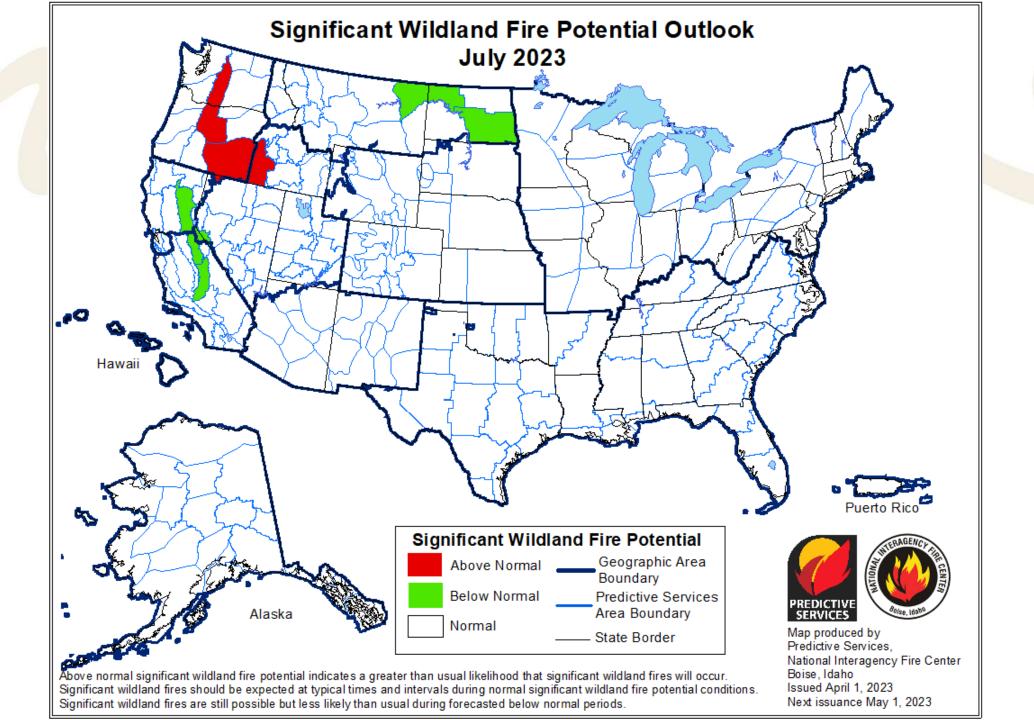


### Seasonal Precipitation Outlook









## 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
  - 1000 acre-feet of WG carryover
- 500 acre-feet of directs unable to be treated due to water quality issues from Cameron Peak fire impacts

# 21,300 AF Target Storage

April 2023 Storage (acre-feet)	
CBT	22,774
Windy Gap	1,000
GLIC	13,498
Tunnel	968
Total	38,240
Demands (April 2023 - March 2024) (acre-	feet)
СВТ	12,272
Windy Gap	2,500
GLIC	10,462
Tunnel	1,140
Total	26,374
Yieldsthrough April 2024 (acre-feet)	
CBT (Nov. 2022-April 1, 2022)	11,402
Windy Gap	3,500
GLIC	9 ,8 16
Tunnel	850
Total	25,568
April 2024 Storage by Source	
CBT	17,460
Windy Gap	0
GLIC	12,852
Tunnel	678
April 2024 Storage	30,990
Target Storage Volume	21,300



## Recommendations

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

