2022 Water Supply Update

Water & Sewer Board November 16th, 2022



Water Rental Summary

•	C-BT	8,483	AF	
•	GLIC changed	326	AF	
•	GLIC unchanged	1,881	AF	
•	WSSC	517	AF	
•	NPIC	207	AF	
•	HMR	775	AF	
•	Leasebacks			
	∘ WSSC	1,808	AF	
	o GLIC	2,637	AF	
	· L&W	2,874	AF	

Total 20,321 Al

813

AF

。 New Cache

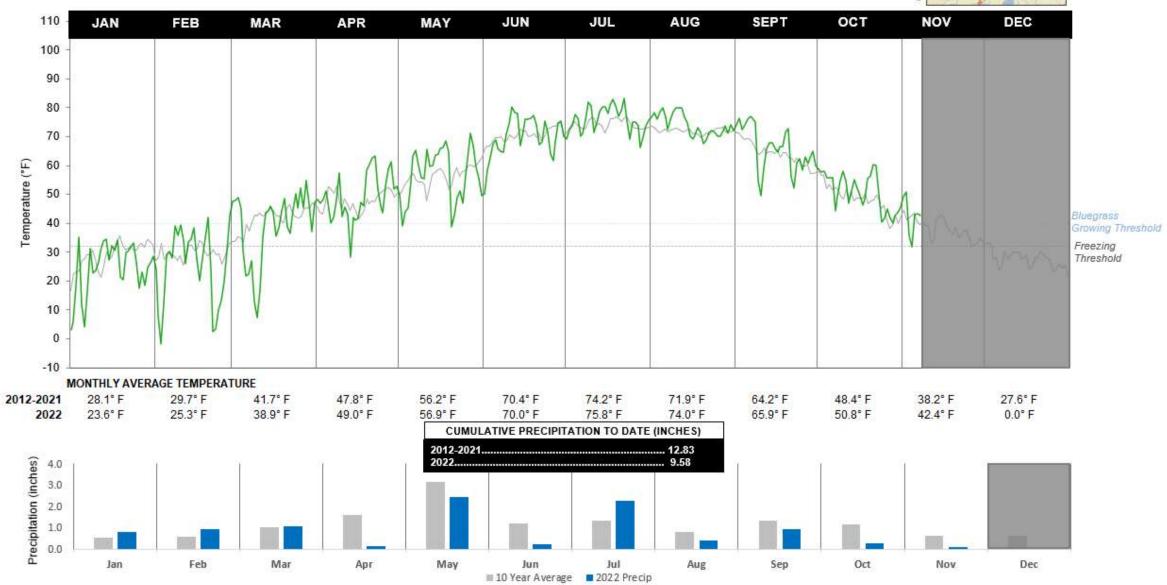


City of Greeley: Temperature (°F) and Precipitation 2012-2022

— Historic Avg Temp (2012 - 2021) —— 2022 Avg. Temp

GREELEY + Greeley Weld Co Arpert

Greeley West station (224) Source: northernwater.org



Below average precipitation

- June August: Northern Hemisphere's second-hottest meteorological summer
- Greeley precipitation is low, but the mountains are not currently in drought
- Ski resorts opening and making snow on schedule
- Snowpack on track for average SWE that we hope to see

2022 Weather

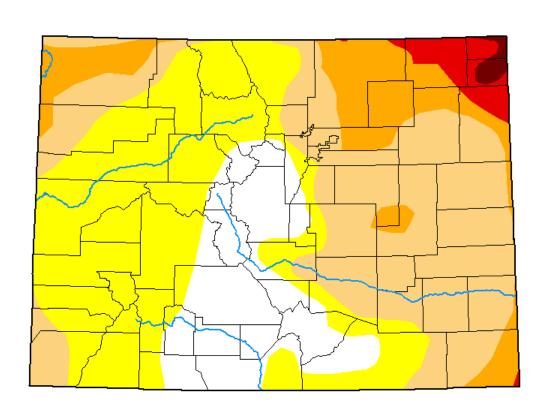




Current Drought Conditions

U.S. Drought Monitor Colorado

November 1, 2022 (Released Thursday, Nov. 3, 2022) Valid 8 a.m. EDT



Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to

https://droughtmonitor.unl.edu/About.aspx

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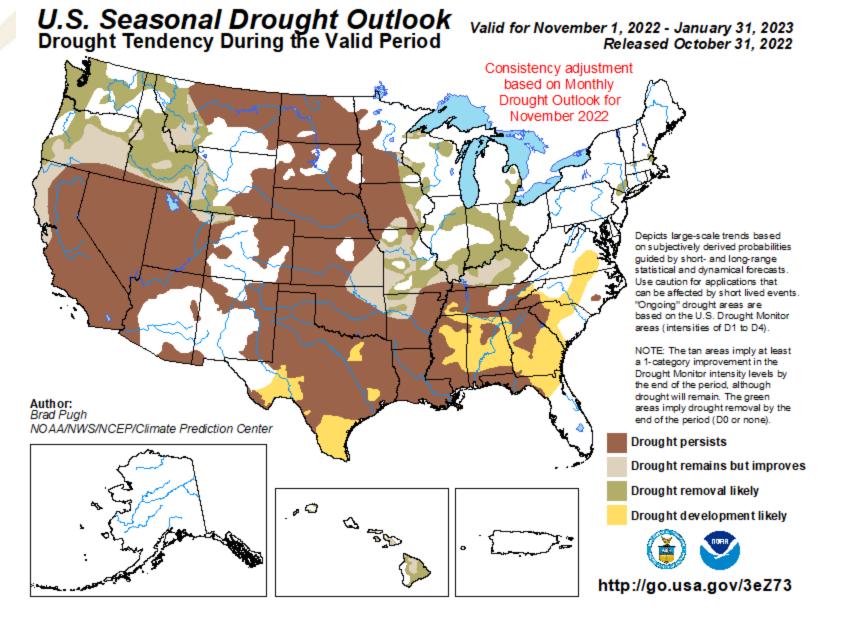






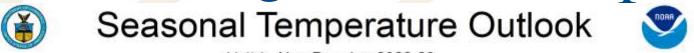


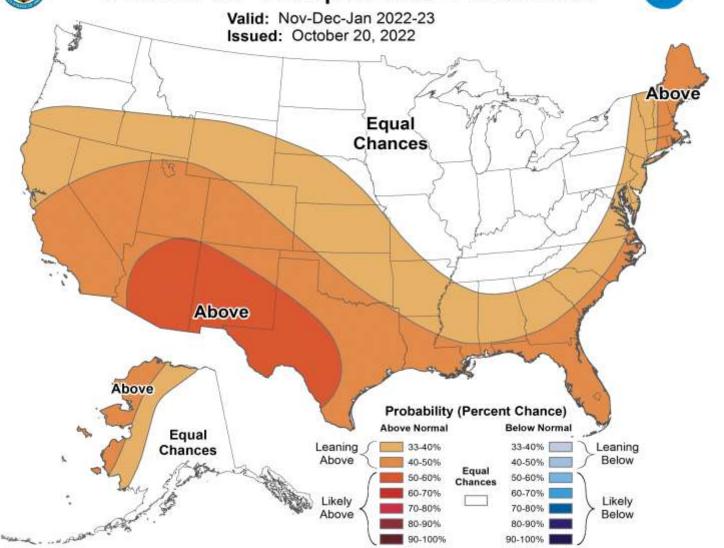
Drought Outlook





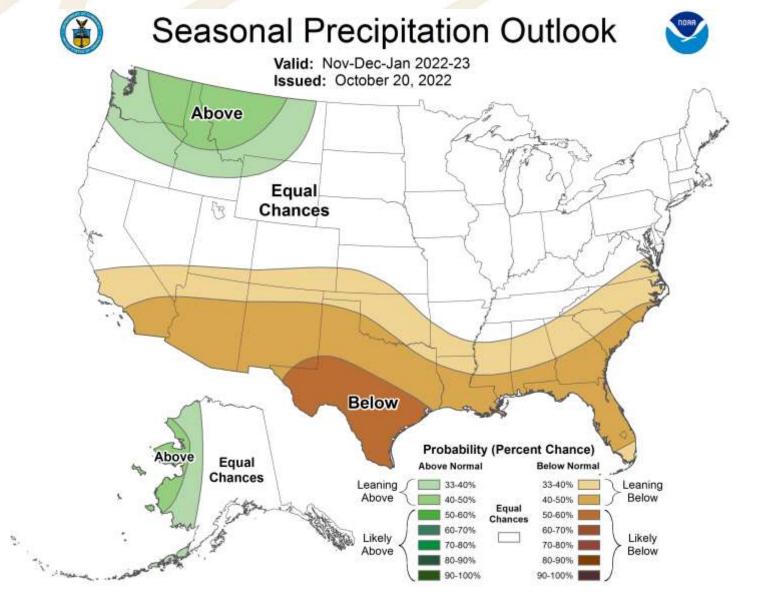
3 month temperature outlook





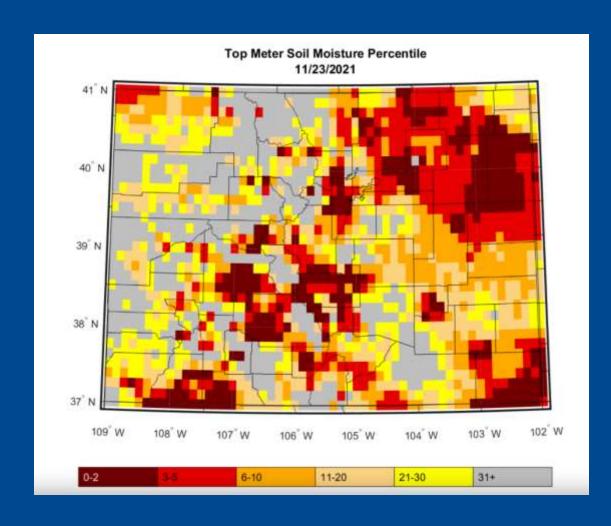


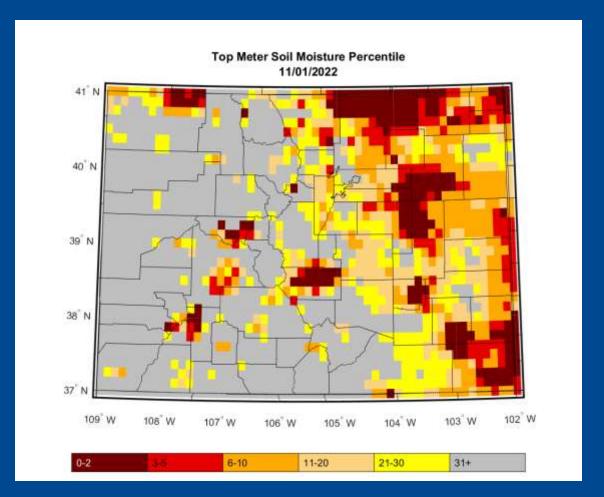
3 month precipitation outlook





Soil Moisture Comparison





Colorado SNOTEL Current Snow Water Equivalent (SWE) % of Normal Laramie and North Platte Nov 08, 2022 South Platte 97 Fort Collins Yampa and White et an iveleping • 175 Current Snow Water Boulder O 102 Equivalent (SWE) **Upper Colorado** Basin-wide Percent Headwaters Denver of 1991-2020 Median Shirod spings unavailable * 150 <50% 50 - 69% Candan Ma 70 - 89% Colorado Springs Gunnison 90 - 109% 110 - 129% 192 Arkansas 130 - 149% San Miguel, >=150% Dolores, 1114 Animas and San Juan * Data unavailable at time of posting or measurement is not representative at this time of year 226 171 Alam con Provisional Data Subject to Revision **Upper Rio Grande** The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTELs ites in or near the basin USDA/NRCS National Water and Climate Center compared to the average value for those sites on this day. Data based on Portland, Oregon the first reading of the day (typically 00:00). https://www.nrcs.usda.gov/wps/portal/wco/home/

Greeley System Storage

April 1, 2023 Storage (acre-feet)				
СВТ	22,112			
Windy Gap	1,000			
GLIC	12,500			
Tunnel	1,000			
Total	36,612			
Demands (April 1, 2023 - March 31, 2024) (acre-feet)				
СВТ	18,965			
Windy Gap	4,450			
GLIC	10,405			
Tunnel	1,000			
Total	34,820			
Yieldsthrough April 2024 (acre-feet)				
CBT (Nov. 2022-April 1, 2022)	11,402			
Windy Gap	4,366			
GLIC	10,653			
Tunnel	800			
Total	27,221			
April 2024 Storage by Source				
CBT	15,728			
Windy Gap	0			
GLIC	13,000			
Tunnel	400			
April 2023 Storage	29,128			
April 2023 Storage-minus unusable GLIC	21,728			
Target Storage Volume	21,300			

Summary

- Drought conditions are present and likely to continue with improvement in the mountains
- Moving into our 3rd year of La Nina conditions
 - In Northern Colorado La Nina can equate to colder weather and above average precipitation but not always
 - o Improved soil moisture will hopefully yield better runoff in Greeley's river basins





Moving into winter

- Continue to maintain adequate target storage volume
- Monitor drought and water supply closely



Questions?

