















WY Conditions & Outlooks:

Precipitation, Temperatures, Drought, Floods, & Everything In-between

August 18, 2022

















Presentation Outline

- Current Conditions: Overview
 - Streamflow
 - Reservoir Supply
 - Water Calls and Allocations
- Outlooks: Temperature & Precipitation
 - Fuels' Status & Wildland Fire Outlook
- Questions

















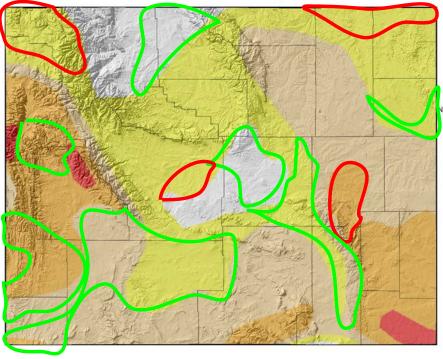
Current Conditions



US Drought Monitor for August 16, 2022

(Released Thursday, August 18, 2022) Valid 8 a.m. EDT

US Drought Monitor for 16 Aug 2022





Map Created by: National Drought Mitigation Center https://droughtmonitor.unl.edu





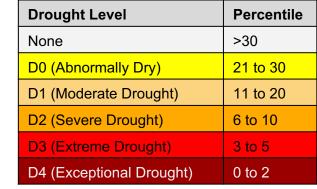


Map Layout Prepared by: Wyoming State Climate Office http://www.wrds.uwyo.edu



The U.S. Drought Monitor, is a weekly map of drought conditions produced jointly by the National Oceanic and Atmospheric Administration, the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC) at the University of Nebraska-Lincoln, The U.S. Drought Monitor website is hosted and maintained by the NDMC, http://droughtmonitor.unl.edu

Map Layout Created 18 Aug 2022 http://www.wrds.uwyo.edu



https://youtu.be/45MQ1GB-uTc

Improvements and degradations since the last webinar. Recent precipitation in west and central Wyoming has resulted in upgraded conditions. Dryness, especially in northwest and northeast, caused a downgrade in drought levels.











14-Day Precipitation Percentile (04 Aug 2022 to 17 Aug 2022)

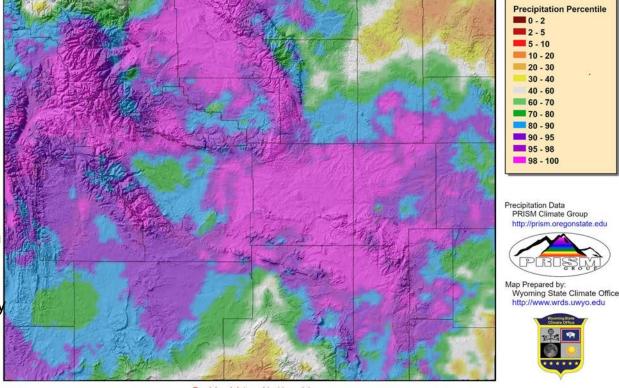
14-Day Precipitation (Percentile) for 04 Aug 2022 to 17 Aug 2022

Above Median:

Most of Wyoming except...

Below Median (Areas of Concern):

- Crook County
- Northern Campbell County
- Far SE Sweetwater & SW Carbon Counties
- Eastern Laramie County
- Extreme Southern Goshen County



Provisional data, subject to revision

Daily precipitation data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu

Map Created 18 Aug 2022 http://www.wrds.uwyo.edu Daily percentiles created from PRISM daily precipitation grids



90-Day Precipitation Percentile (20 May 2022 to 17 Aug 2022)

90-Day Precipitation (Percentile) for 20 May 2022 to 17 Aug 2022

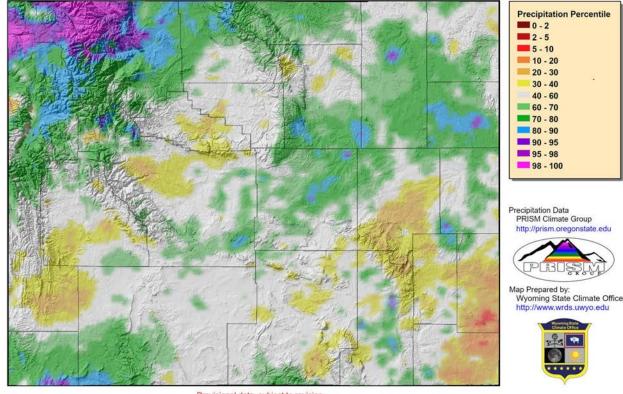
Above Median:

- Northern tier, especially Park Co Note: Park still influenced by Yellowstone flooding event.
- Southwest (SW Sweetwater/ Uinta)

Much of state around Median (Gray Area)

Below Median (Areas of Concern):

- Southeast (Esp Laramie & Goshen Counties but some Converse, Platte, Albany, Carbon)
- Fremont, Hot Springs Counties
- Sublette/Southern Lincoln





Provisional data, subject to revision

Daily precipitation data from PRISM Climate Group, Copyright @2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu

Map Created 18 Aug 2022 http://www.wrds.uwyo.edu Daily percentiles created from PRISM daily precipitation grids



1.75 to 2.00 rapotranspiration Index Montana Climate Office Map Prepared by: Wyoming State Climate Office

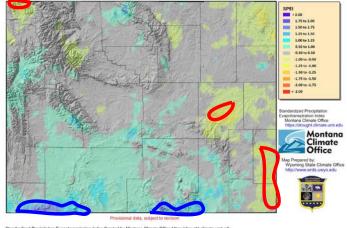
30-Day Standardized Precipitation Evapotranspiration Index (18 Jul 2022 to 16 Aug 2022)

1.50 to 1.75 1.25 to 1.50 1.00 to 1.25 0.50 to 1.00 -0.50 to 0.50 1.00 to -0.50 1.25 to -1.00 1.50 to -1.25

-2.00 to -1.75

Montana Climate

60-Day Standardized Precipitation Evapotranspiration Index (18 Jun 2022 to 16 Aug 2022)



Standardized Precipitation Evapotranspiration Index Created by Montana Climate Office https://drought.climate.uml.edu

Map Created 18 Aug 2022 http://www.wrds.uwvo.edu

30-Day

Standardized Precipitation Evapotranspiration Index Created by Montana Climate Office https://drought.climate.umt.edu Map Created 18 Aug 2022 http://www.wrds.uwyo.edu

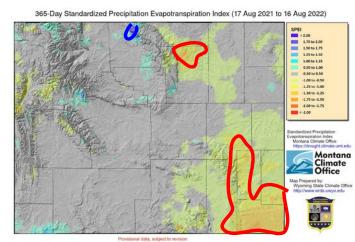
Standardized Precipitation Evapotranspiration Index (SPEI)

Short term: Emerging concerns in the northeast, continuing concern in far southeastern plains. Widespread wetness in central and west/west central.

Long term: Dryness in southeast and northern Johnson County.



60-Day



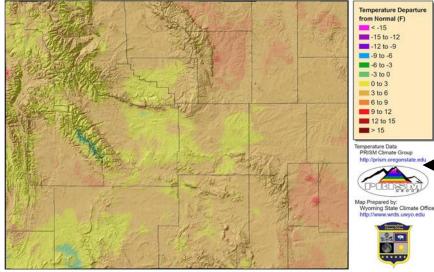
Standardized Precipitation Evapotranspiration Index Created by Montana Climate Office https://drought.climate.umt.edu Map Created 18 Aug 2022 http://www.wrds.uwyo.edu



14-Day Average Minimum Temperature (04 Aug to 17 Aug)

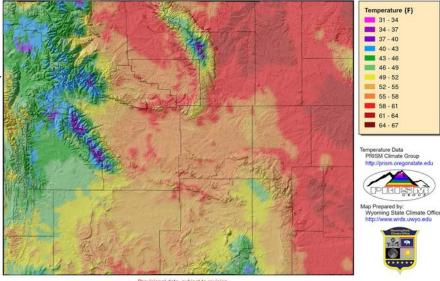
- Night time lows above freezing statewide
- Highest in Eastern Plains

14-Day Average Minimum Temperature (Departure from 1991-2020 Average) for 04 Aug 2022 to 17 Aug 2022



Provisional data, subject to revision

Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu Map Created 18 Aug 2022 http://www.wrds.uwyo.edu Temperature averages created from PRISM daily temperature grids



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Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu Map Created 18 Aug 2022 http://www.wds.uwyo.edu Temperature servages created from PRISM daily temperature crids

14-Day *Departure from* Normal

Average Minimum Temperature

- Mostly +3F to +6F above average except:
- +6F to +9F E of Laramie Range, E of Bighorns
- 0F to +3F SW, High Elevation West, Central WY
- Up to 3F below average Flaming Gorge, Crest of Winds

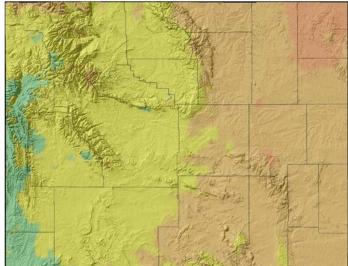


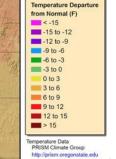
14-Day Average Maximum

Temperature (04 Aug to 17 Aug)

- >60F statewide Except very high elevations
- 90F+ for TMax much of eastern plains

14-Day Average Maximum Temperature (Departure from 1991-2020 Average) for 04 Aug 2022 to 17 Aug 2022





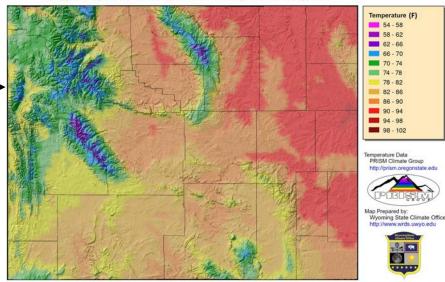
Map Prepared by:

Map Prepared by: Wyoming State Climate Office http://www.wrds.uwyo.edu



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Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu Map Created 18 Aug 2022 http://www.wds.uwyo.edu Temperature averages created from PRISM dally temperature grids



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Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu Map Created 18 Aug 2022 http://www.wds.uwyo.edu Temperature averages created from PRISM daily temperature grids

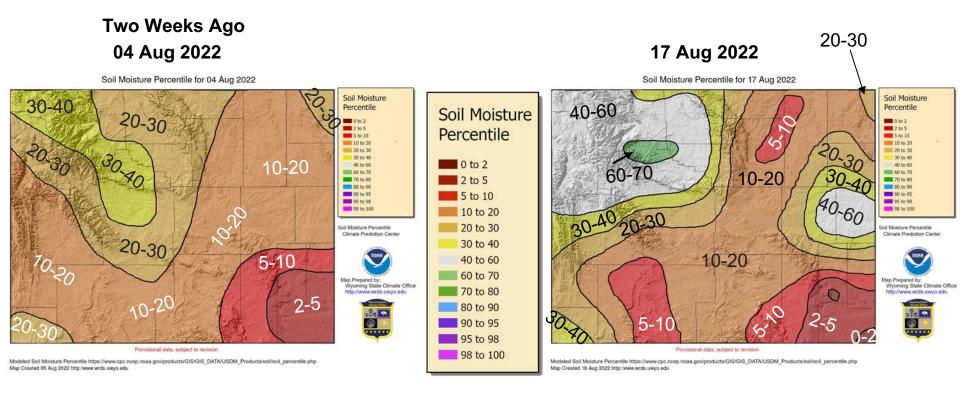
14- Day *Departure from* Normal

Average Maximum

- Far west 0F to 3F below average perature
- Rest of West mostly 0F to 3F above average
- Crook County 6F to 9F above average
- Rest of East 3F to 6F above average



Soil Moisture Percentile



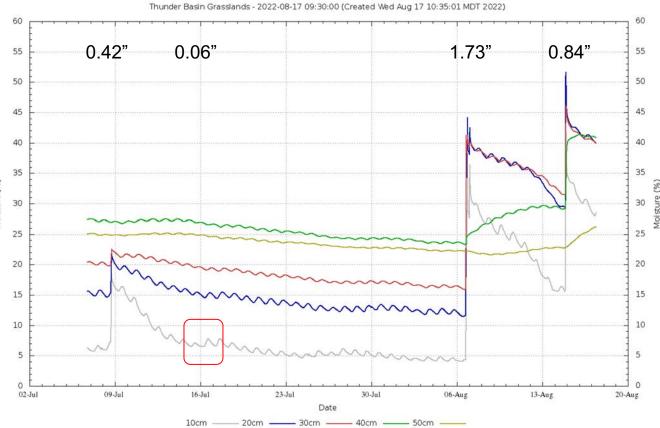


Soil Moisture at Thunder Basin Grasslands

Four Precipitation Events

07-08 Jul: 0.42" 15 Jul: 0.06" 05-07 Aug: 1.73" 13-14 Aug: 0.84"







Laramie Station
13 Aug 2022
(1430)
~35 minutes
before
precipitation
started





Laramie Station 13 Aug 2022 (1600)





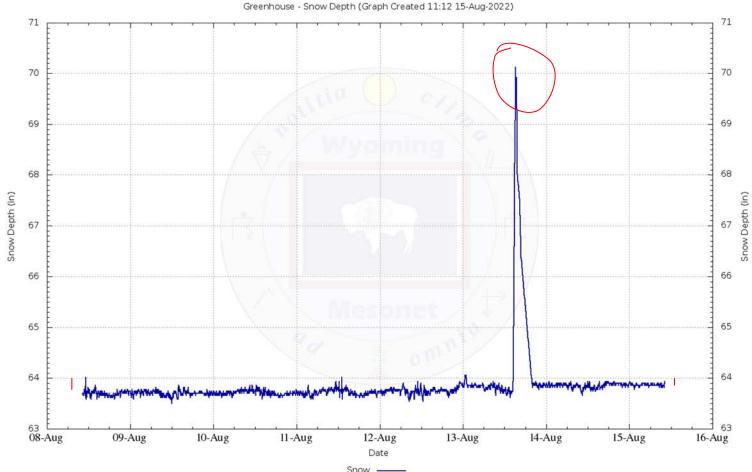
Laramie Station
13 Aug 2022
(1630)
Down to a
Light Drizzle





Laramie Station ("Snow" Depth)

For Debugging Purposes, the height of the instrument arm has not been subtracted, "Zero" is at about 63.7 inches.

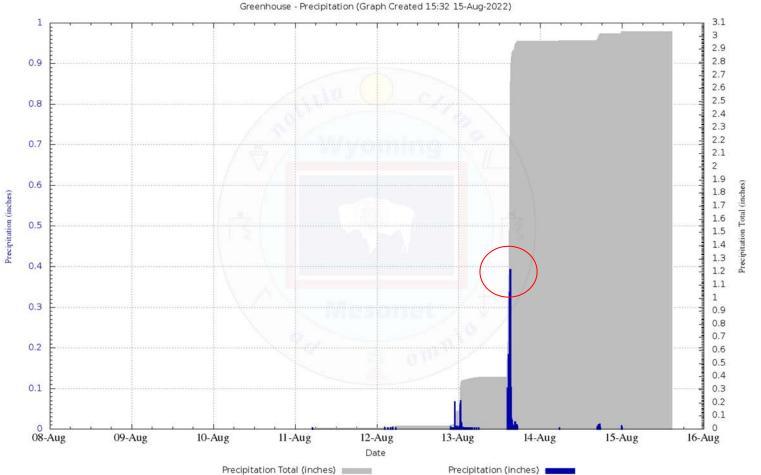




Laramie Station (Precipitation)

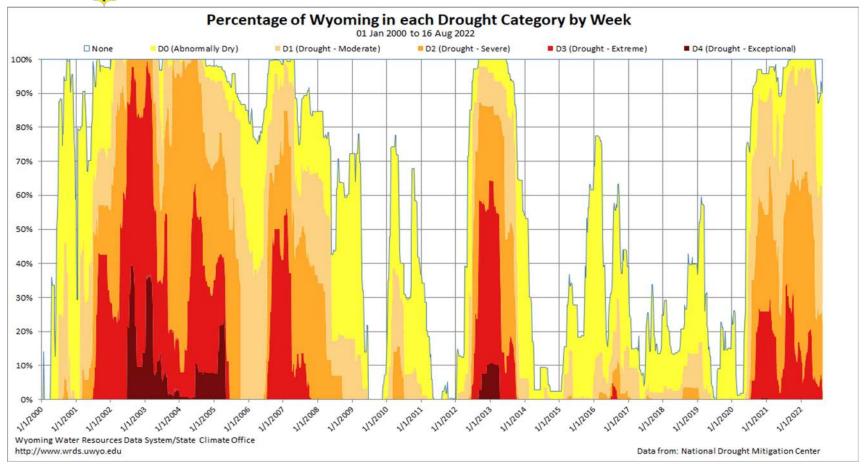
5-Minute and Accumulated Precipitation

Rates during two consecutive 5-minute periods were around 6 inches per hour

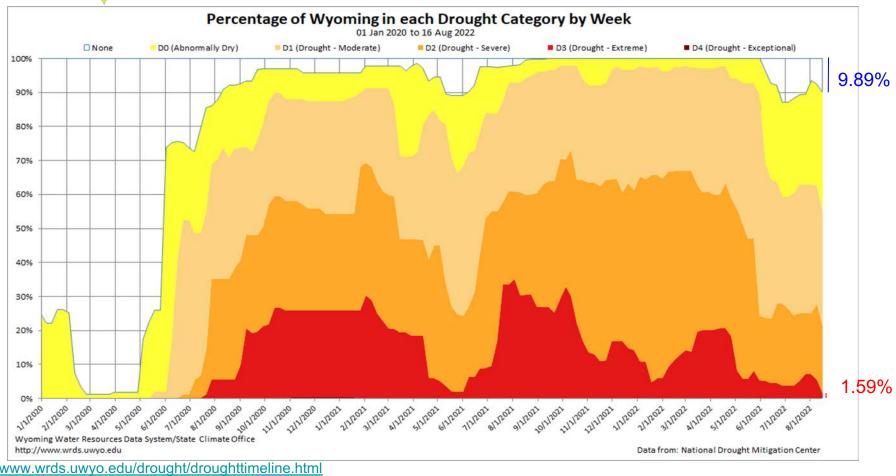




Wyoming Area Affected: 90.11% D0-D4; 54.78% D1-D4





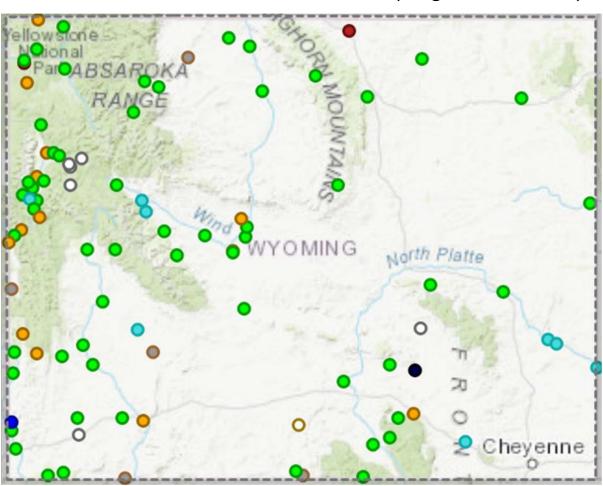




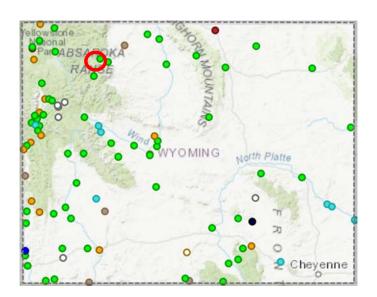
Current Streamflow Conditions (August 18, 2022)

Streamflow Status

Streamflow: Status Above flood stage All-time high for this 100th percentile (maximum) day Much above normal >90th percentile 76th – 90th percentile Above normal 25th - 75th percentile Normal 10th - 24th percentile Below normal Much below normal <10th percentile All-time low for this 0th percentile day (minimum) Not flowing Not ranked Measurement flag Recent measurement unavailable



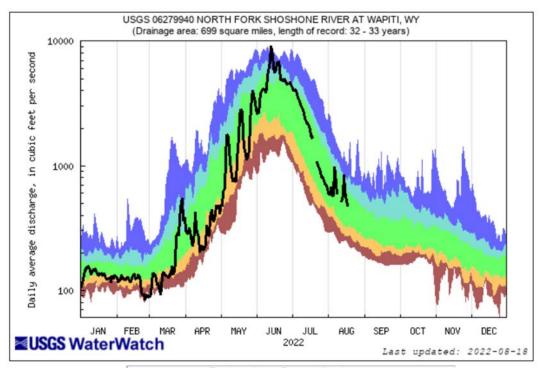




https://dashboard.waterdata.usgs.gov/

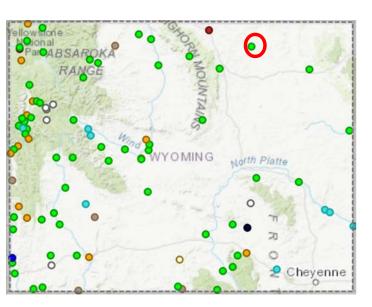
https://waterdata.usgs.gov/

North Fork Shoshone River at Wapiti, WY



	E	xplana	tion - Pe	ercentile	classes	S	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much a	Much above normal	

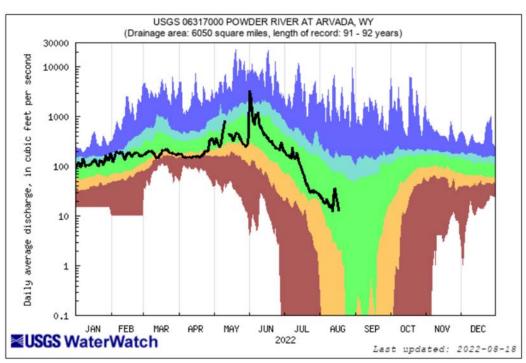




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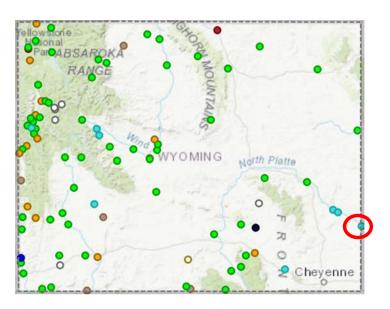
https://waterdata.usgs.gov/

Powder River at Arvada, WY



	E	xplana	tion - Pe	ercentile	classes	S	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much a	above normal	

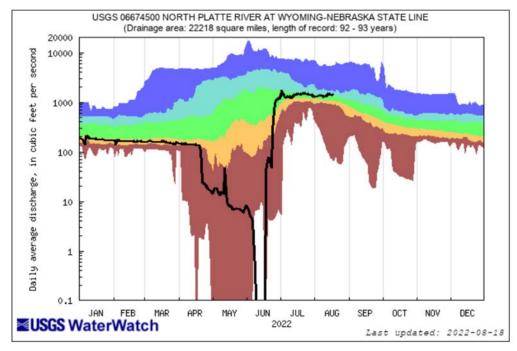




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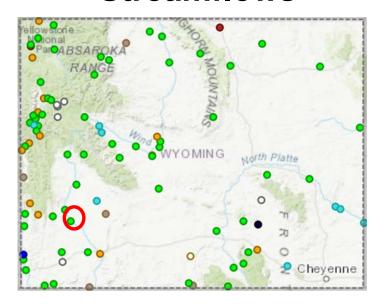
https://waterdata.usgs.gov/

North Platte River at WY-NE State Line



	E	xplana	tion - Pe	ercentile	classes	S	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much a	bove normal	FIOW

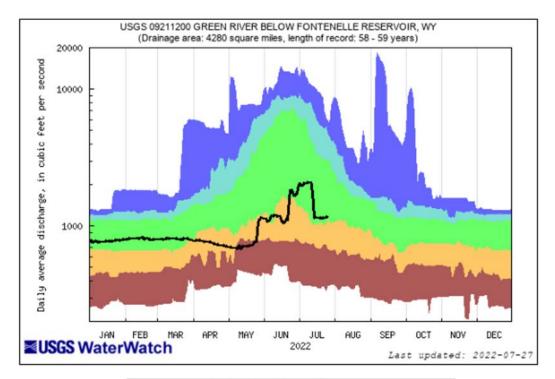




https://dashboard.waterdata.usgs.gov/

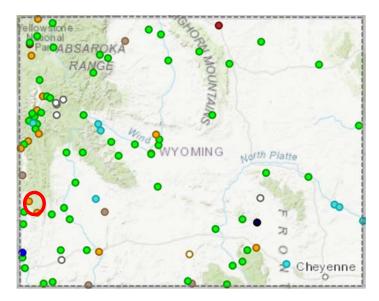
https://waterdata.usgs.gov/

Green River at Below Fontenelle Reservoir, WY



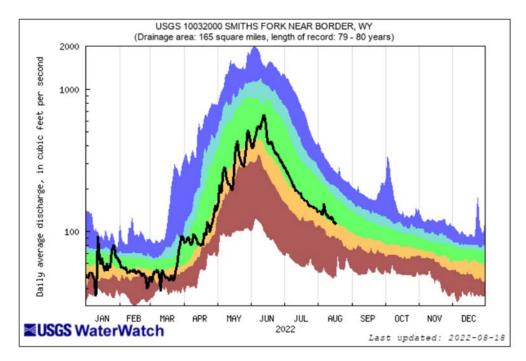
	E	xplana	tion - Pe	ercentile	classes	S	
							_
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much a	above normal	





Smiths Fork Near Border, WY

Last updated Aug 18, 2022



https://dashboard.waterdata.usgs.gov/

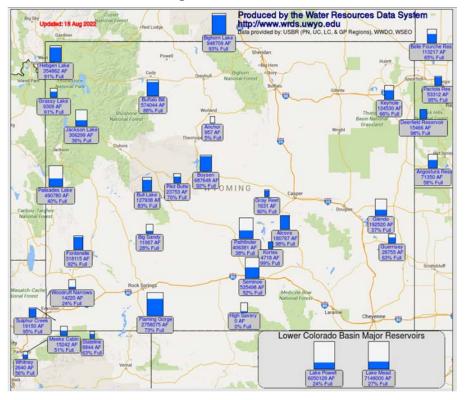
https://waterdata.usgs.gov/

	E	xplana	tion - Pe	ercentile	classes	5	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below normal	Normal	Above normal	Much a	above normal	

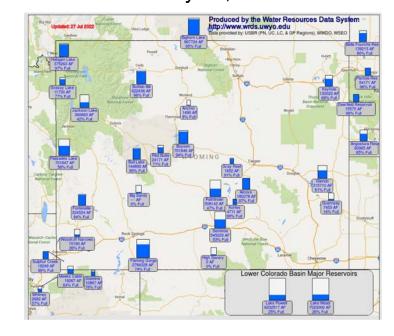


WY Reservoirs (Aug 18, 2022)

Aug 18, 2022

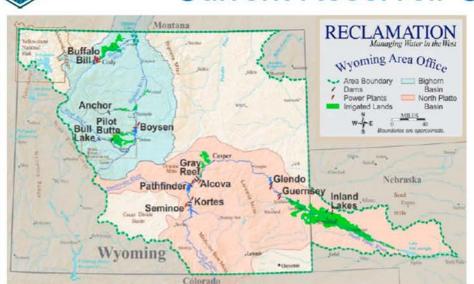


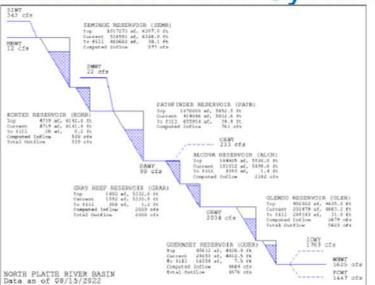
- Decreases across the state
- Most are only a few percent
- Larger decreases- Palisades, Jackson, Buffalo Bill, Pathfinder, Glendo. July 28, 2022





Current Reservoir Conditions: North Platte System

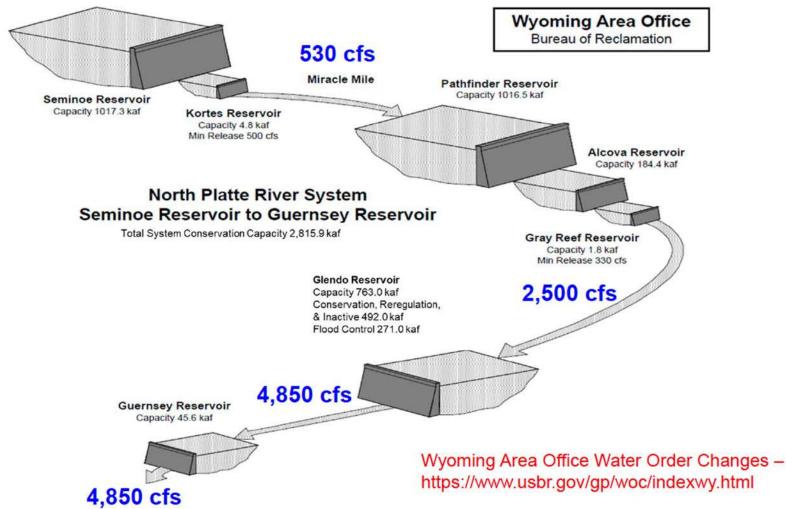




As of August 15, North Platte System: 56% of Full, 80% of Average

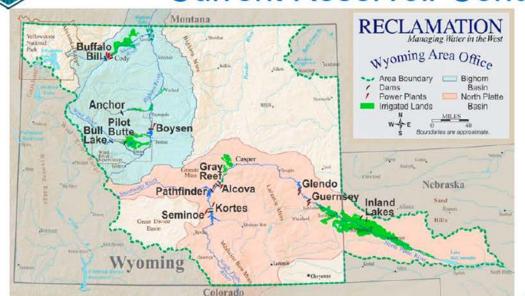
Reservoir	Content (AF)	<u>Capacity</u>	% of Full	% of Avg	
Seminoe	536,591	1,017,300	53%	80%	
Pathfinder	414,046	1,070,000	39%	71%	
Glendo	202,879	492,000	41%	83%	
Guernsey	29,053	45,600	64%	105%	

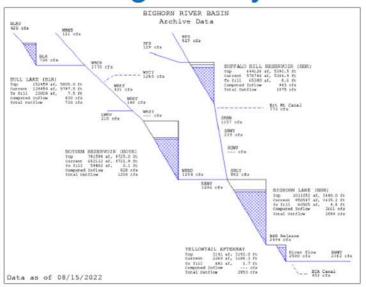






Current Reservoir Conditions: Bighorn System



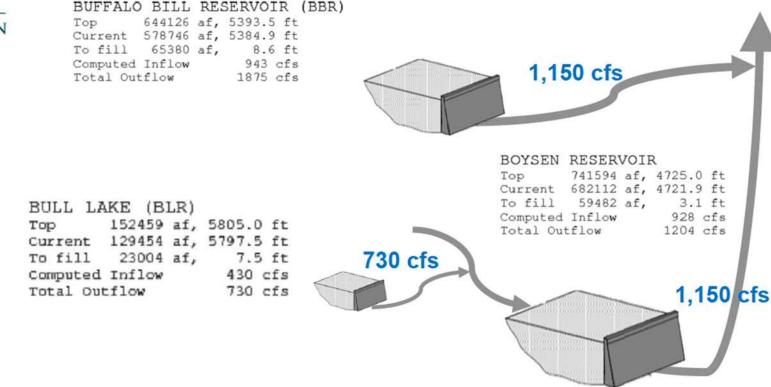


https://www.usbr.gov/gp/hydromet/teacup_form.html

As of August 15, Bighorn System: 90% of Full, 111% of Average

Reservoir	Content	Capacity	% of Full	% of Avg
Bull Lake	129,454	152,500	85%	107%
Buffalo Bill	578,746	646,600	90%	107%
Boysen	682,112	741,600	92%	115%







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Reservoirs, Dams & Hydropower

AgriMet

Boat Ramps HydroMet

· Map of Stations by

- Type
- · Map of Stations by
- Instant Data Requests
- Daily Data Requests
- Monthly Data Requests
- TEACUP Reservoir Models
- Automated Retrieval
- Documentation Inflow Computations and
- Plots Daily Data Analysis
- Annual Cumulative and Historical Average

Power Levels

Projects & Facilities

Recreation

Safety of Dams

Welcome to the HYDROMET Data System

Program Information

The Bureau of Reclamation operates a network of automated hydrologic and meteorologic monitoring stations (HydroMet) located throughout the Missouri Basin Region. The HydroMet network collects remote field data and transmits it via satellite to provide real-time water management capability. HydroMet data is then integrated with other sources of information to provide streamflow forecasting and current runoff conditions for river and reservoir operations, Please read this important Disclaimer about the real-time, PROVISIONAL data displayed on these pages.



Bighorn Lake from atop Yellowtail Dam

Station Information

- · Map of Stations by Type
- . Map of Stations by State
- · Station Specific Data Links

Data Request Forms

Analysis and Models

· Inflow Computations and Plots

· Annual Cumulative and Historical

Average Plots (QNAPLT)

Daily Data Analysis

- Instant Data Requests
- · Daily Data Requests
- Monthly Data Requests (RES070)
- TEACUP Reservoir Models
- · Hydromet Data Query
- · Automated Retrieval Documentation (PDF)
- Hydromet Tools Public Version (PDF)

Missouri Basin and Arkansas-Rio Grande-Texas Gulf Regions

Reclamation / Missouri Basin and Arkansas-Rio Grande-Texas Gulf / HydroMet / Daily Data / Daily Data Quick Plot

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- Automated Retrieval
- Documentation Inflow Computations and
- Plots D. .. D. .

Daily Data Quick Plot

This form outputs an interactive graph displaying daily data. Daily data is obtained once per day and data from the previous day is available after 5:25 AM on the current day. Enter a date range, station, and parameter and then submit your request.

- Start Date (YYYY-MM-DD): 2022-05-01
- End Date (YYYY-MM-DD): 2022-06-14
- . Station Code (start typing to search for a station): GLER
- . List of parameters at the selected site: QD Daily Mean Total Discharge (cfs)

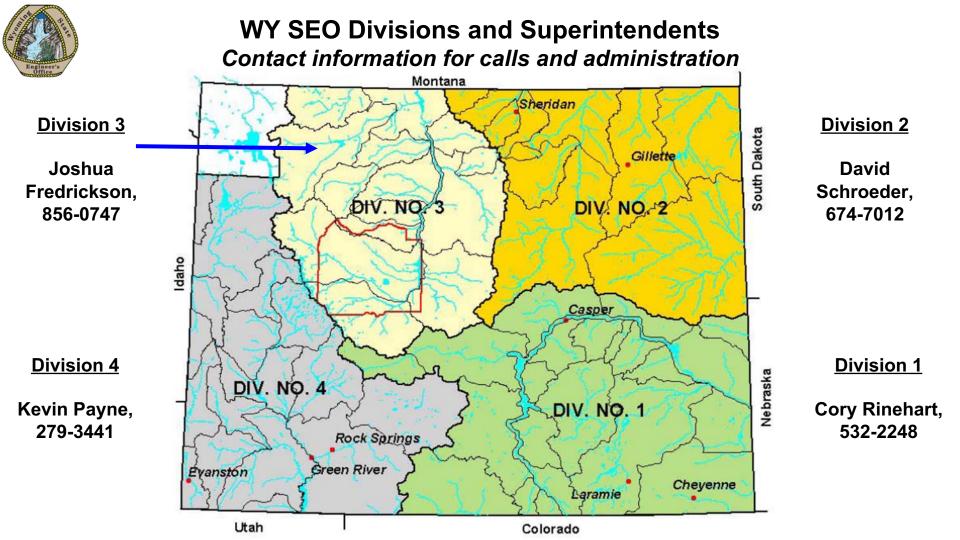
Parameter: QD

Submit

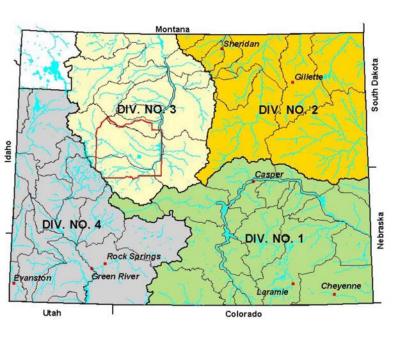


-GLER OD

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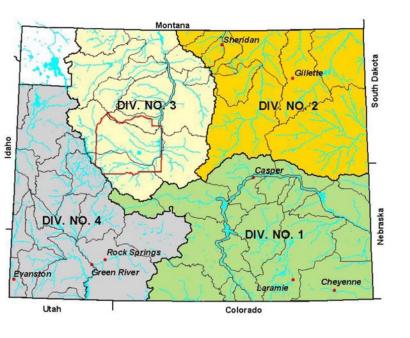






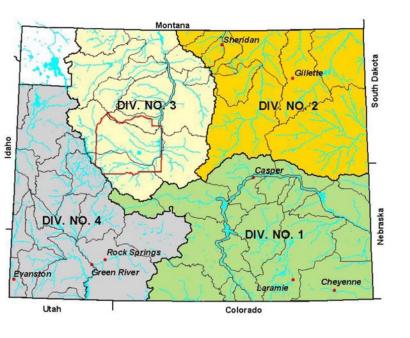
- 1. May 1, 2022 BOR call on North Platte limits Irrigation Pumpers, between Pathfinder and Guernsey, to 6,600 acre feet every 2 weeks, likely to be on through summer.
- 1. June 4, 2022 call on Bear Creek and tribs, Dist 2, to a priority date of 7/7/1891.
- 1. June 15, 2022 call on Horseshoe Creek and tribs, Dist 3, to a priority date of 4/05/1879.
- 1. June 24, 2022 call on Laramie River and Tribs, Dist 3, 4A, 4B, 4C, to a priority date of 12/31/1881.





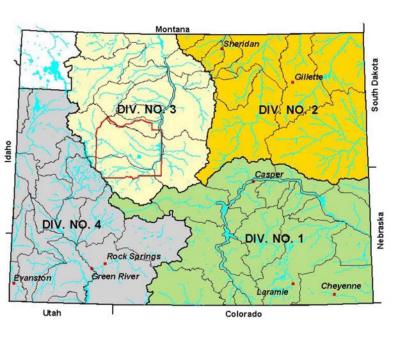
- 5. June 26, 2022 call on Laramie River and Tribs, Dist 3, 4A, 4B, 4C, to a priority date of 5/23/1883 and priority No. 17 of Laramie River Court Decree.
- 6. June 27, 2022 call on Laramie River and Tribs, Dist 3, 4A, 4B, 4C, to a priority date of 12/31/1875.
- 7. June 29, 2022 call on Rattlesnake Creek and tribs, Dist 16 to a priority date of 4/1885.
- 8. June 29, 2022 call on Rattlesnake Creek and tribs, Dist 16 to a priority date of 12/19/1889.
- 9. July 11, 2022 call on Bates Creek, Dist 11, to a priority date of 8/9/1886.





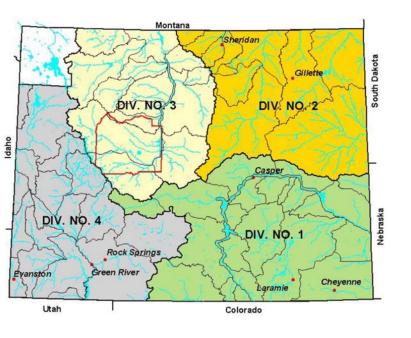
- 1. May 14, 2022 Call on Big Goose Creek, Dist 4, to a priority date of 9/18/1962.
- 2. July 12, 2022 Call on Little Goose Creek, Dist 4, to a priority date of 4/15/1880.
- 3. July 12, 2022 Call on Lower Clear Creek, Dist 9, to a priority date of summer 1884.
- 4. July 12, 2022 Call on Piney Creek, Dist 9 to a priority date of summer 1884.
- 5. July 13, 2022 Call on Upper Clear Creek, Dist 2, to a priority date of spring 1883.
- 6. July 21, 2022 Call on Lower Clear Creek, Dist 2, to a priority date of 4/30/1882.





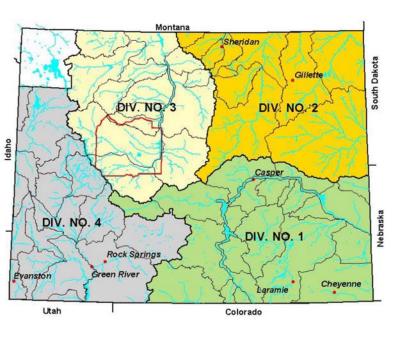
- 7. 7/18/22 Distribution of Dull Knife Reservoir water to shareholders.
- 8. 7/15/22 Distributions of Willow Park and Cloud Peak Reservoirs water to shareholders.
- 9. 7/22/22 Distribution of Kearney Lake Reservoir water to shareholders.
- 10.7/20/22 Shepherding Keyhole Reservoir water to WY/SD state line while apportioning Wyoming's 10% compact allocation.
- 11.8/2/22 Call on Wolf Creek, Dist 5, to a priority date of 9/01/1881.
- 12.8/1/22 Call on Powder River, Dist 8, to a priority date of 2/21/1902





- 1. April 8, 2022, Call on Owl Creek, Dist 5, to a priority date of Fall 1885.
- 1. May 6, 2022, Call on Grass Creek, Dist 14, to a priority date of Spring 1903.
- 1. June 30, 2022, Call on Gooseberry Creek, Dist 13, to a priority date of 12/21/1906.
- 1. July 12, 2022, Call on Greybull River, Dist 8, to a priority date of 6/20/1888 and 6/18/1900.





Division 3

- 5. July 18, 2022, Call on Cottonwood Creek, Dist 14, to a priority date of 11/10/1904.
- 5. July 25, 2022, Call on Medicine Lodge Creek and Paint Rock Creek, Dist 12, to a priority date of 7/26/1906 and 6/8/1906.



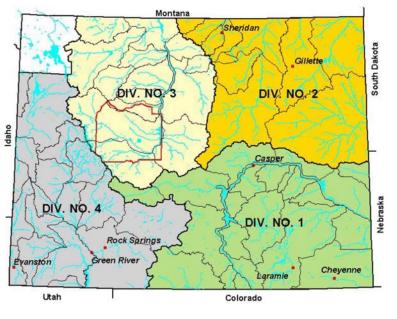
DIV. NO.3 DIV. NO. 2 DIV. NO. 4 DIV. NO. 1 Rock Springs Cheyenne

Colorado

Division 4 1. April 29, 2022, call on North Piney Creek, Dist

- 10, to a priority date of 5/1/1888.
- 1. May 9, 2022, call onf Central Bear River, Dist 2, multiple dates for interstate call.
- 1. May 16, 2022, call on Fish Creek, Dist 10, to a priority date of 7/13/1889.
- 1. May 17, 2022, call on Blacks Fork River, Dist 15, to a priority date of 6/20/1910.
- 1. May 27, 2022, call on South Piney Creek, Dist 10, to a priority date of 12/31/1886.
- 1. June 8, 2022, call on Smith's Fork, Dist 3, to a priority date of 3/2/1935.





Division 4

- 7. June 13, 2022, call on Middle Piney, Dist 10, to a priority date of 6/30/1885.
- 7. June 13, 2022, call on Birch Creek, Dist 12, to a priority date of 6/1/1907.
- 7. June 13, 2022, call on Corral Creek, Dist 9, to a priority date of 6/30/1890.



Contact Information for Calls/Administration

Division 1 Superintendent—Cory Rinehart, 532-2248

Division 2 Superintendent—David Schroeder, 674-7012

Division 3 Superintendent-Joshua Fredrickson, 856-0747

Division 4 Superintendent-Kevin Payne, 279-3441

















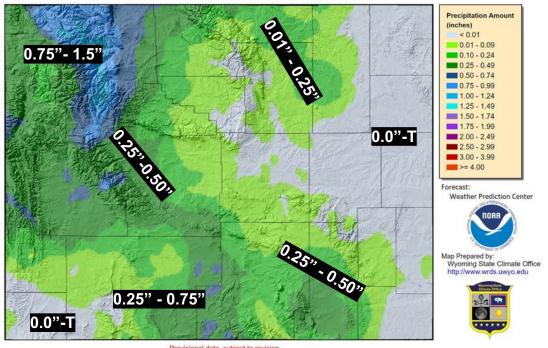
Forecasts & Outlooks



7-Day Total Precipitation Forecast

August 18 - August 25

7-Day Quantitative Precipitation Forecast 18 Aug 2022



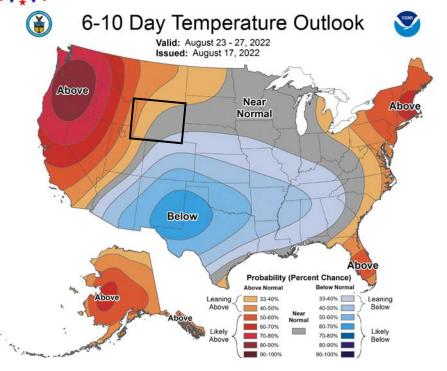
- Provisional data, subject to revision
- The Quantitative Precipitation Forecast shows the liquid amount of forecasted precipitation over the next 7 days
- The Forecast is created by the National Weather Service Weather Prediction Center
- Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, National Centers for Environmental Prediction,
- and Weather Prediction Center https://www.wpc.ncep.noaa.gov Map Layout Created 18 Aug 2022 http://www.wrds.uwyo.edu

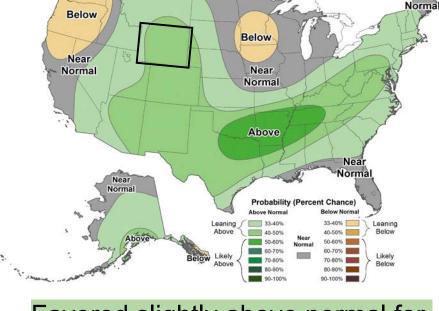
- Slightly below normal temperatures across Wyoming through weekend, near normal early next week
- Very isolated showers west Wyoming through the weekend with East WY dry.
- Precipitation chances increase for scattered showers next Tuesday to Thursday.
- Greater amount of monsoonal moisture looks more likely mid-next week.



6-10 Day Temp & Precip Outlook

Aug 23 - Aug 27





6-10 Day Precipitation Outlook

Valid: August 23 - 27, 2022 Issued: August 17, 2022

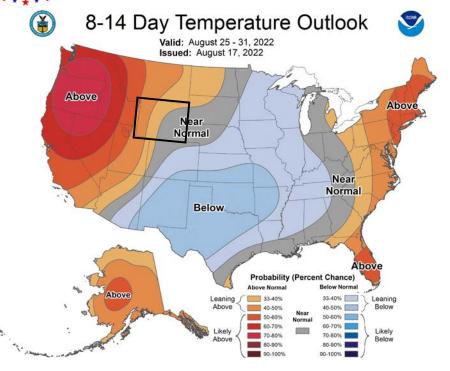
Slightly above normal temperatures favored west WY. Near normal East

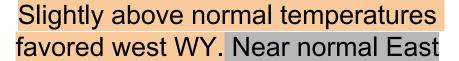
Favored slightly above normal for much of WY

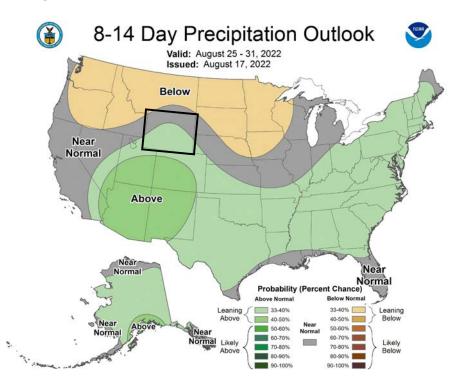


8-14 Day Temp & Precip Outlook

Aug 25 - Aug 31





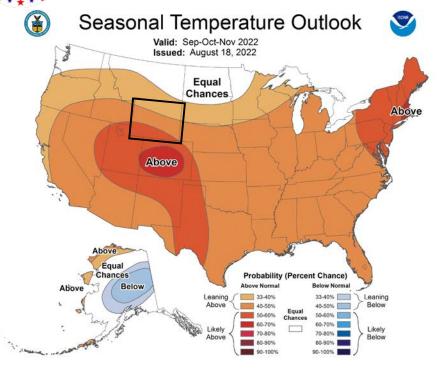


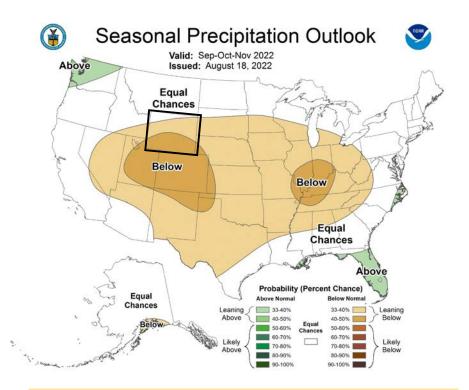
Favored slightly above normal South/Central to near normal North



3-Month Temp & Precip Outlook

September - October - November 2022





Above normal temperatures favored, especially south/southwest WY

Favored below normal across much of WY, especially south WY



Fuel Moistures and Energy Release Component

Energy Release Component (ERC)

- A number related to the available energy (BTU) per unit area (square foot) within the flaming front at the head of a fire.
- It may also be considered a composite fuel moisture value as it reflects the contribution that all live and dead fuels have to potential fire intensity.
- Generally expressed as a Percentile.

1000-Hour Fuel Moisture (1000-hr FM)

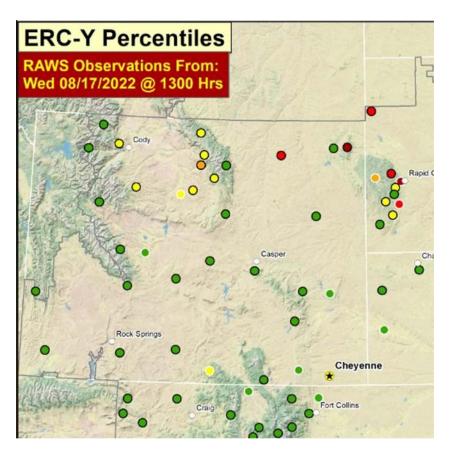
- General indicator of drought and correlates with fire danger for a Fire Danger Rating Area
- Represents the modeled moisture content in dead fuels in the 3 to 8 inch diameter class
- The 1000-hr FM value is based on a running 7-day computed average using length of day, daily temperature and relative humidity extremes (maximum and minimum values) and the 24-hour precipitation duration values.

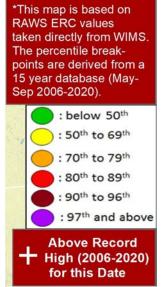
100-Hour Fuel Moisture (100-hr FM)- 1" to 3" Dead Fuels
10-Hour Fuel Moisture (10-hr FM)- 1/4" to 1" Dead Fuels
1-Hour Fuel Moisture (1-hr FM)- 0" to 1/4" Dead Fuels

Live Fuel Moisture- Fuels transition from dormancy to green-up in the spring and early summer, then back to dormancy in the fall.



Current Status as of 08/18/2022

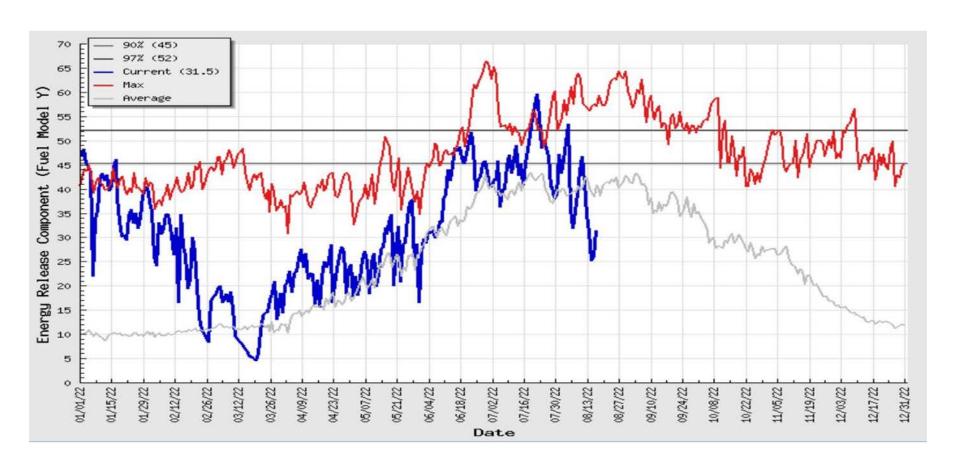




- Nearly entire state is below 90th percentile. Many below averages
 - Values are quite low for midlate August
- Significant improvement in western and central part of the state.
- Fine fuels are abundant across state, seasonal curing could occur with sustained warm and dry weather.

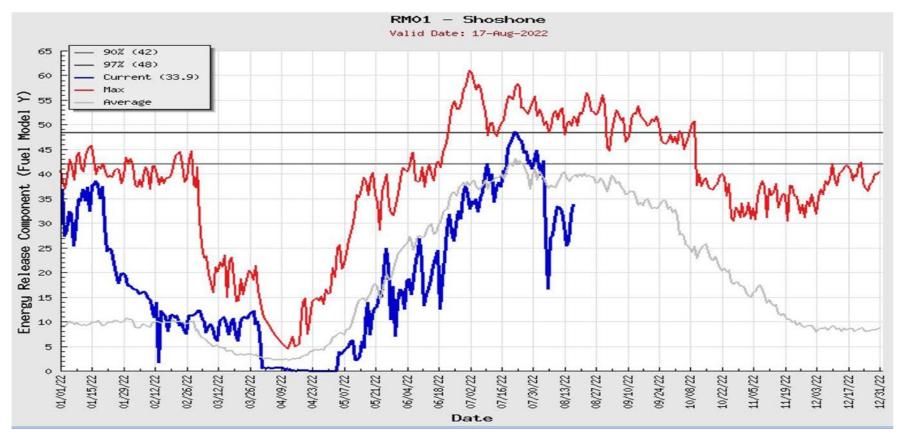


Current Status: Laramie Mountains (valid 8/17/22)



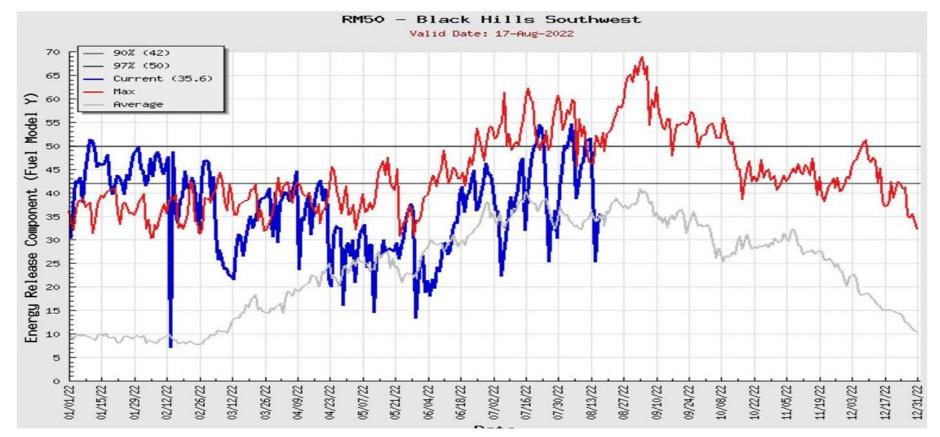


Current Status: Shoshone (valid 8/17/22)



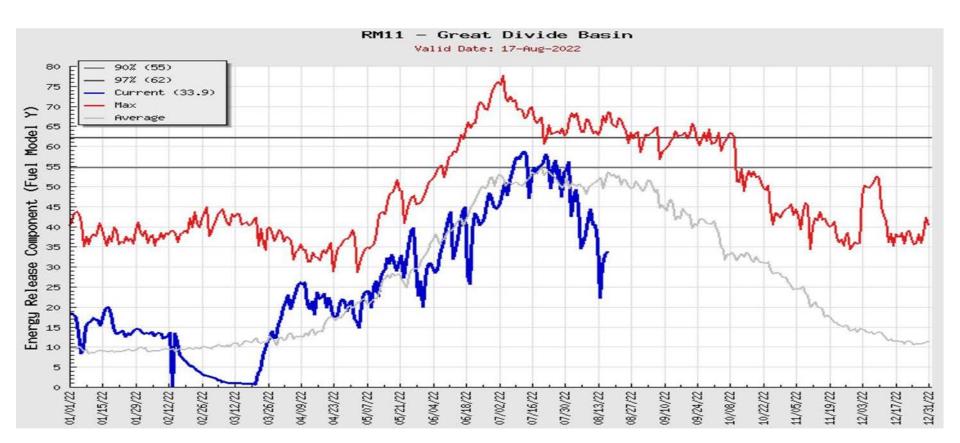


Current Status: Black Hills SW (valid 8/17/22)



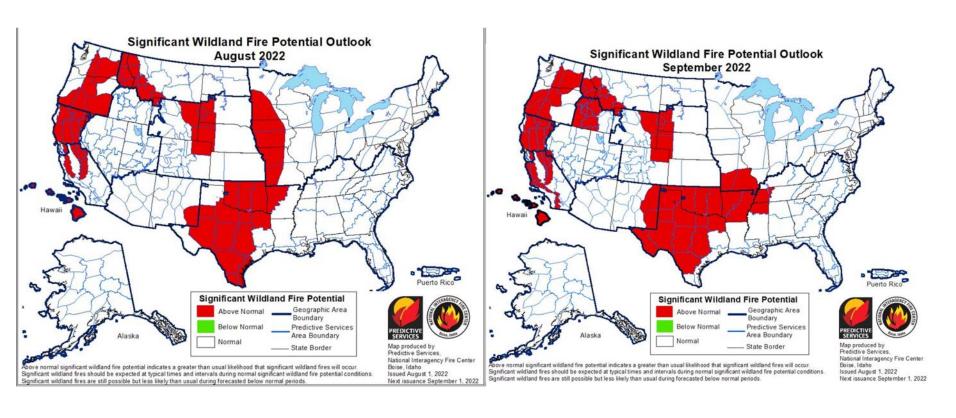


Current Status: Great Divide Basin (valid 8/17/22)





Seasonal Outlooks



















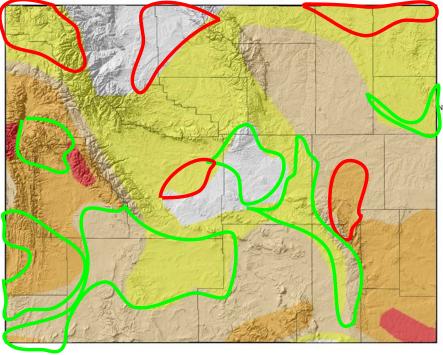
How to get involved ...



US Drought Monitor for August 16, 2022

(Released Thursday, August 18, 2022) Valid 8 a.m. EDT

US Drought Monitor for 16 Aug 2022





Map Created by: National Drought Mitigation Center https://droughtmonitor.unl.edu





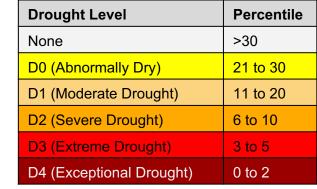


Map Layout Prepared by: Wyoming State Climate Office http://www.wrds.uwyo.edu



The U.S. Drought Monitor, is a weekly map of drought conditions produced jointly by the National Oceanic and Atmospheric Administration, the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC) at the University of Nebraska-Lincoln, The U.S. Drought Monitor website is hosted and maintained by the NDMC, http://droughtmonitor.unl.edu

Map Layout Created 18 Aug 2022 http://www.wrds.uwyo.edu



https://youtu.be/45MQ1GB-uTc

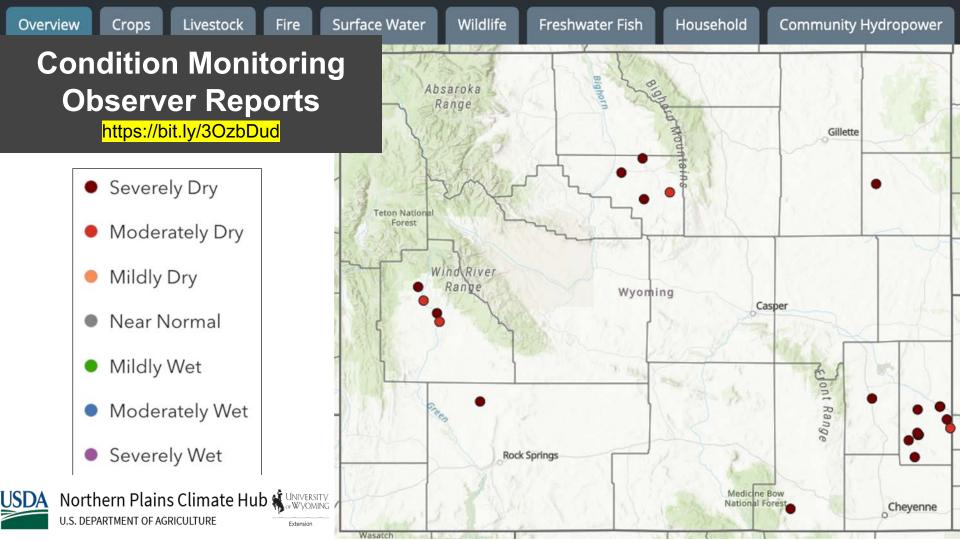
Improvements and degradations since the last webinar. Recent precipitation in west and central Wyoming has resulted in upgraded conditions. Dryness, especially in northwest and northeast, caused a downgrade in drought levels.

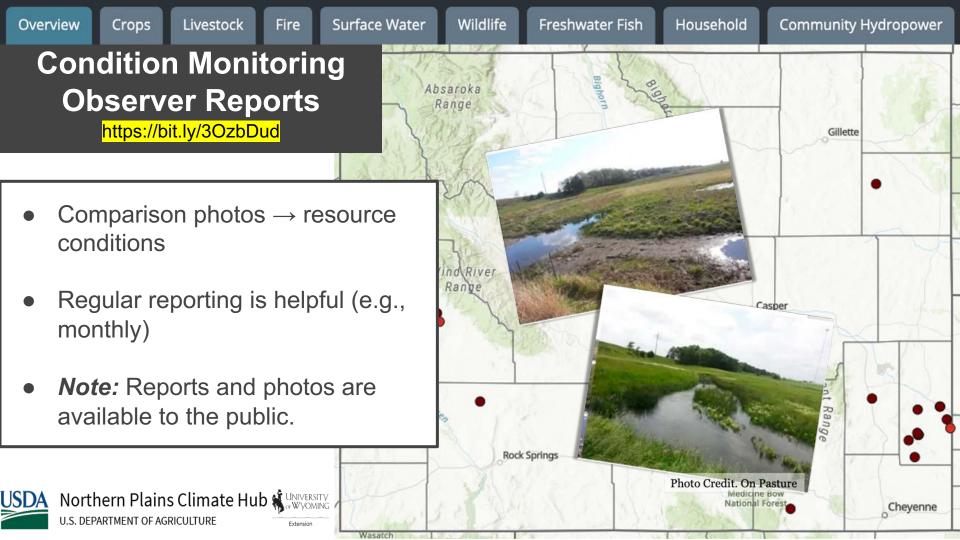






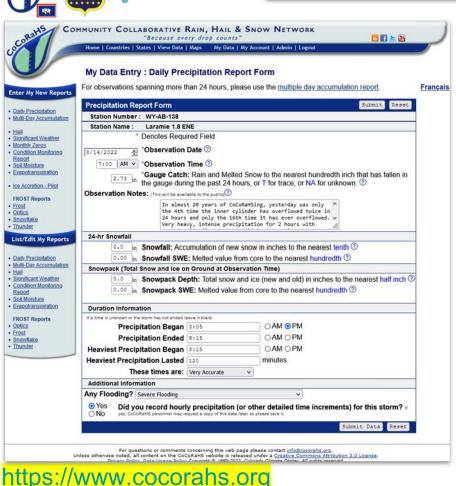


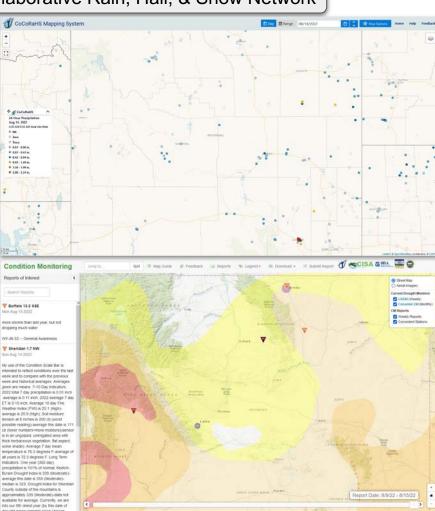






CoCoRaHS - Community Collaborative Rain, Hail, & Snow Network



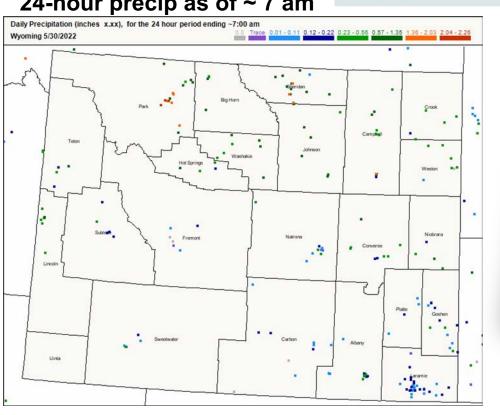


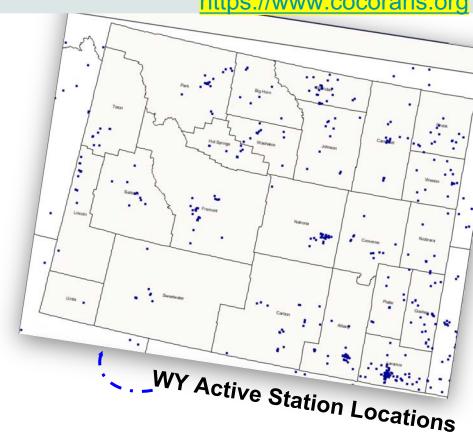


May 30th, 2022: 24-hour precip as of ~ 7 am



https://www.cocorahs.org





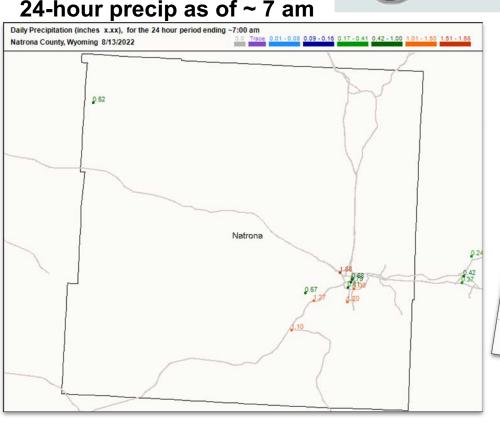


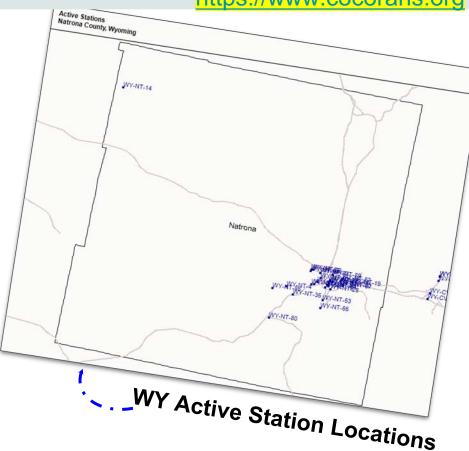
August 13th, 2022: 24-hour precip as of ~ 7 am



CoCoRaHS Mapping System

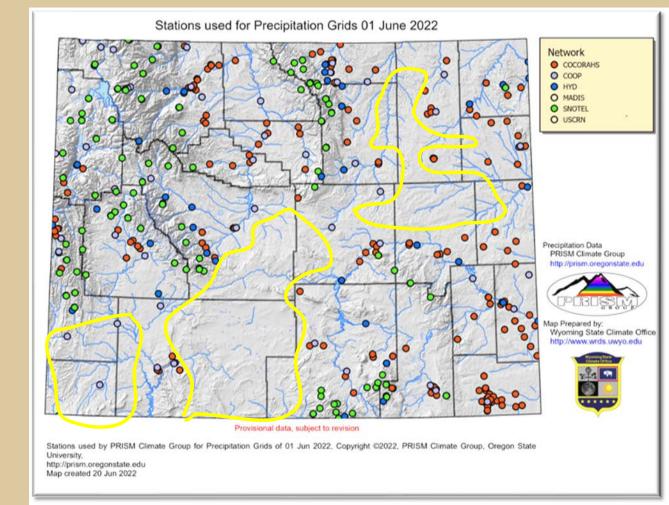
https://www.cocorahs.org







Different networks of stations and their locations for the data used to generate Precipitation Grids for 01 June 2022



















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Casey Cheesbrough

Bureau of Land Management ccheesbrough@blm.gov

The Wyoming Conditions Monitoring
Team (WCMT) organized and hosted
this webinar. The WCMT is a
collaborative effort of state, federal,
tribal, and university partners that
monitor conditions & impacts
throughout the state on a weekly basis
– and communicate this information to
the U.S. Drought Monitor among
others.

Learn more at:

https://drought.wyo.gov

David Merrell

Bureau of Reclamation dmerrell@usbr.gov

Thank you! Questions?