

WY Conditions & Outlooks:

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

April 25, 2024

The University of Wyoming is an equal opportunity/affirmative action institution.



CLIMATE HUB







Extension



Presentation Outline

- **Current Conditions:** Overview
 - Drought, Temperature, Precipitation, Soils, Snow Water Ο Equivalent (SWE)
 - Streamflows Ο
 - **Reservoir Levels** \bigcirc
- **Outlooks:**
 - Temperature & Precipitation Ο
 - Ο
 - Water Supply & Flood Risk Wildland Fire Potential & Outlook \bigcirc
- Highlight of the Month:
 - Resources for addressing agricultural stress in WY. 0
- Questions



University

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DF W VOMINC

USDA

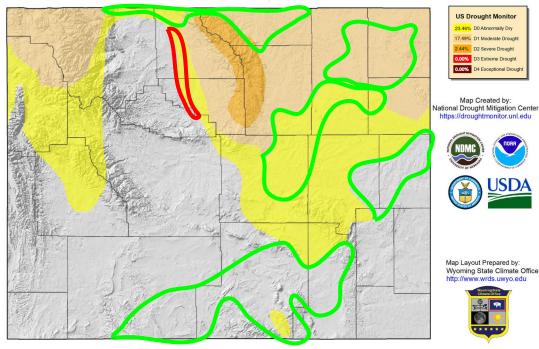
Current Conditions



US Drought Monitor for April 23, 2024

(Released Thursday, April 25th, 2024) Valid 8 a.m. EDT

US Drought Monitor for 23 Apr 2024



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 25 Apr 2024 http://www.wrds.uwyo.edu

Drought Level	Percentile
None	>30
D0 (Abnormally Dry)	21 to 30
D1 (Moderate Drought)	11 to 20
D2 (Severe Drought)	6 to 10
D3 (Extreme Drought)	3 to 5
D4 (Exceptional Drought)	0 to 2

How are Drought categories assigned? https://youtu.be/45MQ1GB-uTc

Minor Degradations since the last webinar. Several Improvements in the south central, far north central, and northeast



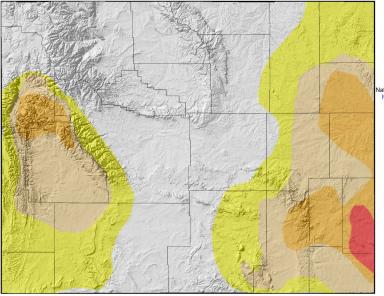
https://droughtmonitor.unl.edu



One Year Ago

Today



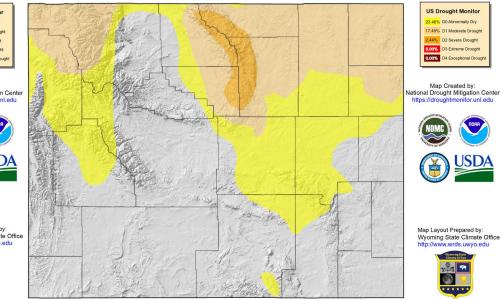


US Drought Monitor 24.01% D0 Abnormally Dry 19.30% D1 Moderate Drought 9.27% D2 Severe Drought 1.28% D3 Extreme Drought 0.00% D4 Exceptional Drought Map Created by: National Drought Mitigation Center https://droughtmonitor.unl.edu USDA

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



US Drought Monitor for 23 Apr 2024



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 25 Apr 2024 http://www.wrds.uwyo.edu



droughtmonitor.unl.edu

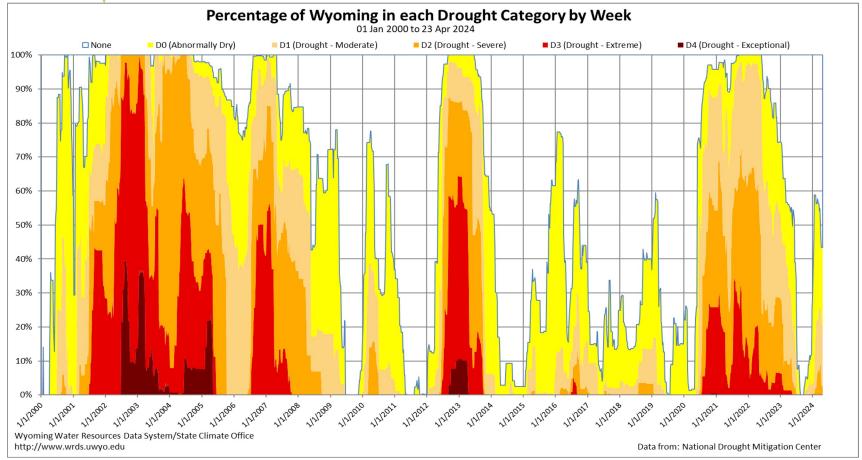
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Map Layout Created 27 Apr 2023 http://www.wrds.uwyo.edu

https://droughtmonitor.unl.edu

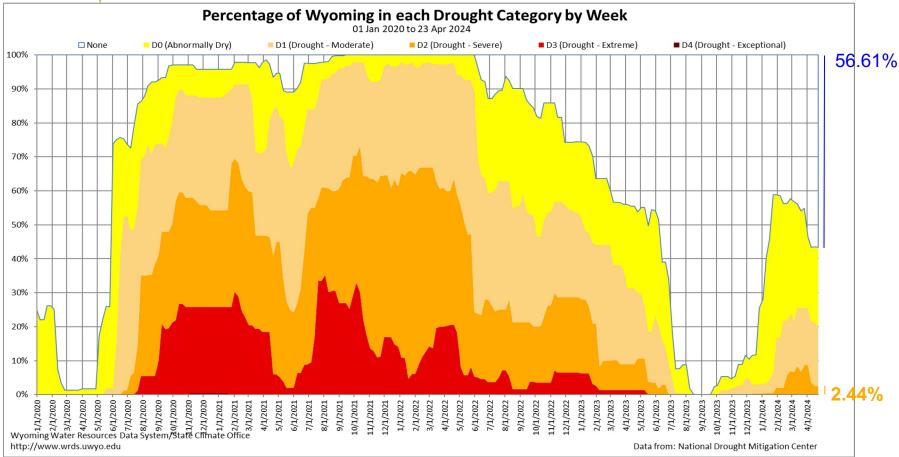


Wyoming Area Affected: 43.39% D0-D4 ; 19.93% D1-D4



http://www.wrds.uwyo.edu/drought/droughttimeline.html







Above Median:

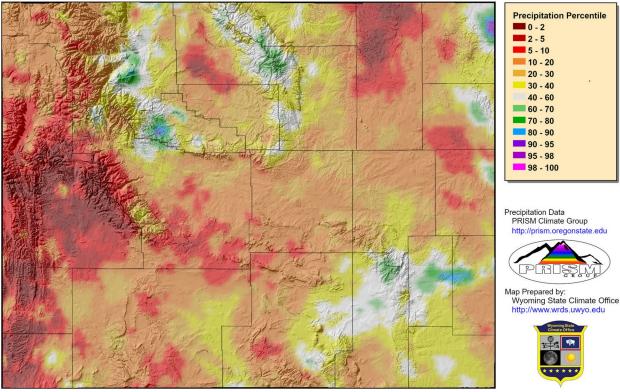
• Only a few scattered areas

Below Median (Areas of Concern):

- Campbell County, West
- Much of Wyoming

14-Day Precipitation Percentile (11 Apr 2024 to 24 Apr 2024)

14-Day Precipitation (Percentile) for 11 Apr 2024 to 24 Apr 2024



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 25 Apr 2024 http://www.wrds.uwyo.edu Daily percentiles created from PRISM daily precipitation grids



Above Median:

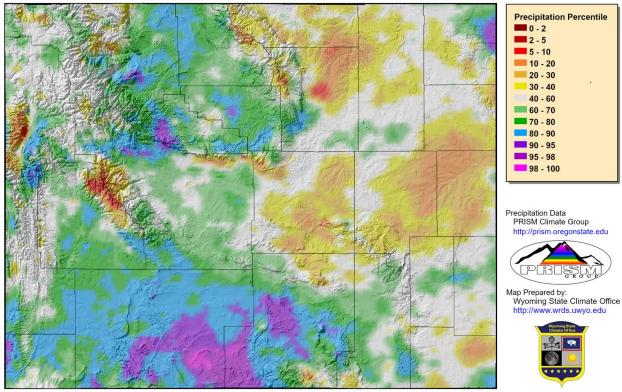
Much of Wyoming

Below Median (Areas of Concern):

- Northeast quarter plus
- Northern Winds
- Tetons
- NE Laramie County

90-Day Precipitation Percentile (26 Jan 2024 to 24 Apr 2024)

90-Day Precipitation (Percentile) for 26 Jan 2024 to 24 Apr 2024



Provisional data, subject to revision

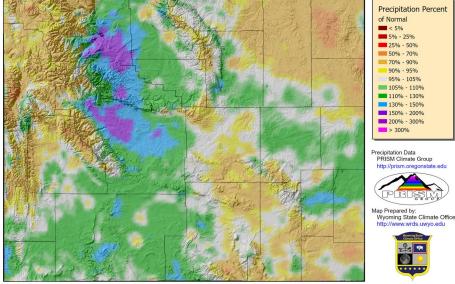
Daily precipitation data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, http://prism.oregonstate.edu Map Created 25 Apr 2024 http://www.wrds.uwyo.edu Daily percentiles created from PRISM daily precipitation grids



"Year"-to-Date Precipitation (Percent of Average)

Current Water Year

Water-Year Precipitation (Percent of 1991-2020 Average) for 01 Oct 2023 to 24 Apr 2024



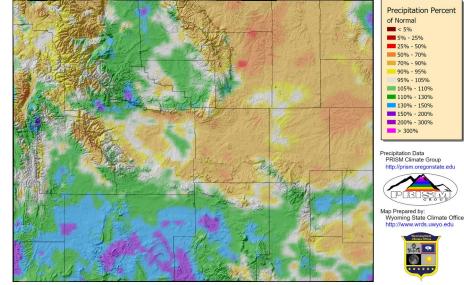
Provisional data, subject to revision

Monthly and Normal precipitation data from PRISM Climate Group, Copyright ©2024, PRISM Climate Group, Oregon State University, http://prism.orgonstate.edu Map Created 25 Apr 2024 http://www.wrds.uwyo.edu Daily averages created from PHISM daily precipitation grids

Note: a water year is October 1 through September 30 of the following year.

Current Calendar Year

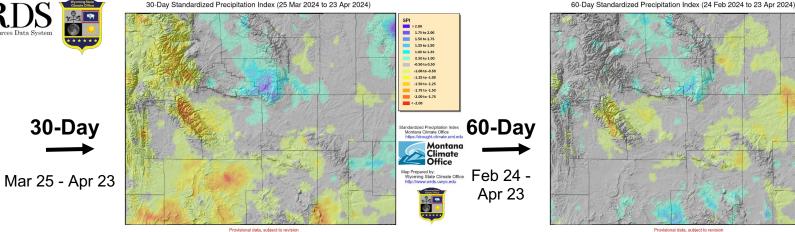
Calendar-Year Precipitation (Percent of 1991-2020 Average) for 01 Jan 2024 to 24 Apr 2024

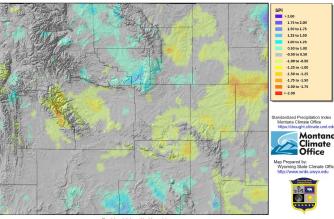


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Monthly and Normal precipitation data from PRISM Climate Group, Copyright ©2024, PRISM Climate Group, Oregon State University, http://prism.orgonstate.edu Map Created 25 Apr 2024 http://www.wds.uwyo.edu Daily averages created from PRISM daily precipitation grids

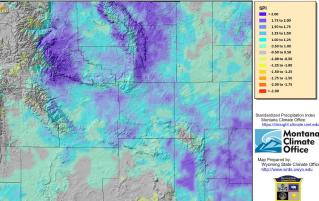






Standardized Precipitation Index Created by Montana Climate Office https://drought.climate.umt.edu Map Created 25 Apr 2024 http://www.wrds.uwvo.edu

365-Day Standardized Precipitation Index (25 Apr 2023 to 23 Apr 2024)



the owner shrw week/ oth



Provisional data, subject to revision

Standardized Precipitation Index Created by Montana Climate Office https://drought.climate.umt.edu Man Created 25 Apr 2024 http://www.wrds.uwvo.edu

Standardized Precipitation Index Created by Montana Climate Office https://drought.climate.umt.edu Map Created 25 Apr 2024 http://www.wrds.uwvo.edu

Standardized Precipitation Index (SPI)

Short term: South and west drying Northeast improving

Long term: Most of the state on the wet side – with the northwest and southcentral more around the median.

1-Year

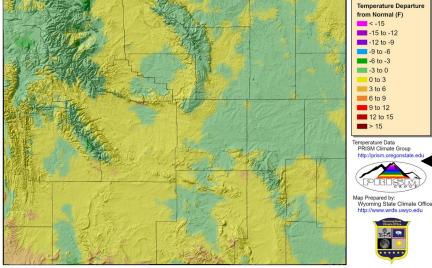
https://drought.climate.umt.edu



14-Day Average Minimum Temperature (11 Apr to 24 Apr)

Lows in North Central and East getting to around 32F

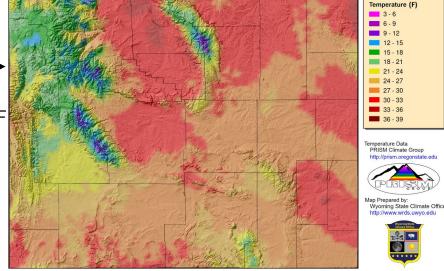
14-Day Average Minimum Temperature (Departure from 1991-2020 Average) for 11 Apr 2024 to 24 Apr 2024



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 25 Apr 2024 http://www.wrds.uwyo.edu Temperature averages created from PRISM daily temperature grids

14-Day Average Minimum Temperature for 11 Apr 2024 to 24 Apr 2024



21 - 24

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 25 Apr 2024 http://www.wrds.uwyo.edu Temperature averages created from PRISM daily temperature grids

<u>14-Day Departure from Normal</u>

Average Minimum Temperature

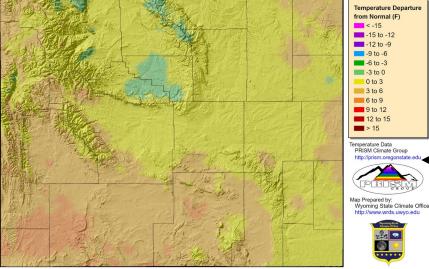
- Northeast and east, along with high elevation NW 0-3F below average
- Remainder mostly 0-3F above average
- Far southwest as much as 6F above average



14-Day Average Maximum

- Temperature (11 Apr to 24 Apr)
 Highs above 32F
- Eastern Plains, Wind, BH Basins, L Green in

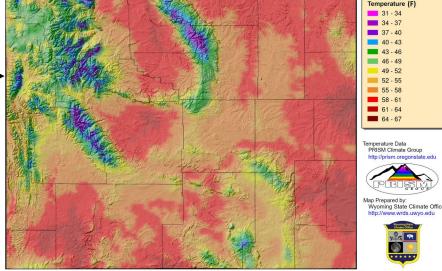
14-Day Average Maximum Temperature (Departure from 1991-2020 Average) for 11 Apr 2024 to 24 Apr 2024



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14-Day Average Maximum Temperature for 11 Apr 2024 to 24 Apr 2024



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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 25 Apr 2024 http://www.wrds.uwyo.edu Temperature averages created from PRISM daily temperature grids

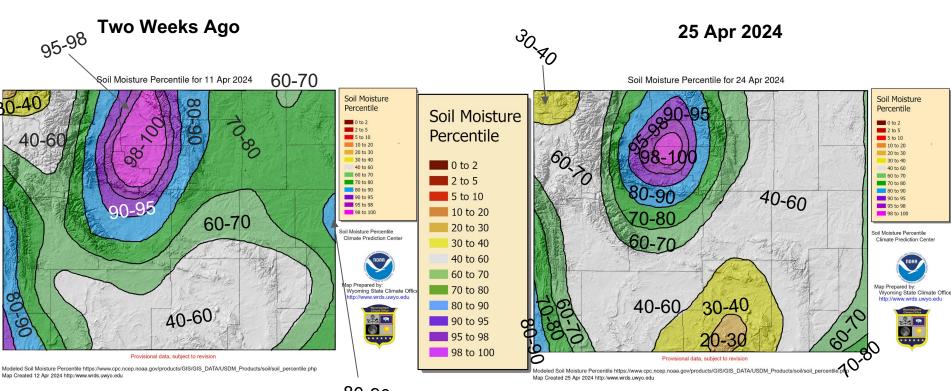
14- Day *Departure from* Normal

Average Maximum

- West of the Divide 3-6F above average Lower Green 6-9F above average
- Remainder up to 3F above average, higher in far east and northeast
- Southern BH Basin a bit below average



Soil Moisture Percentile



80-90

Generally status quo or a decline in conditions across the state, notable declines in southcentral and northeast WY.

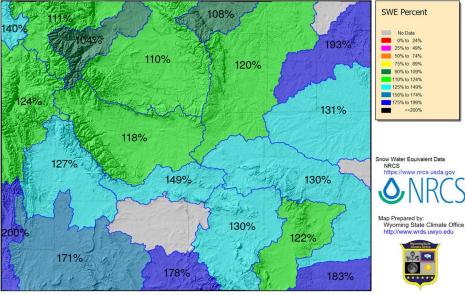
http://www.wrds.uwyo.edu/Soil/Current_SoilMoisture_Ptile.html



Basin Snow Water Equivalent (SWE) % of Median

25 Apr <u>2023</u> (One Year Ago)

Snow Water Equivalent Percent of Median (1991-2020) 25 Apr 2023

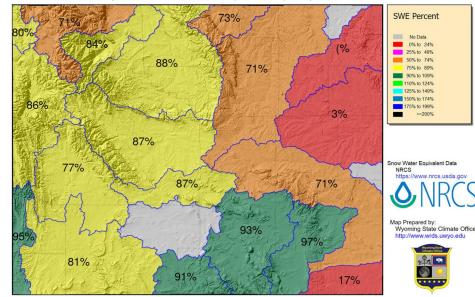


Provisional data, subject to revision

Basin Snow Water Equivalent Data from Natural Resources Conservation Service Water and Climate Center https://www.nrcs.usda.gov Map created by Wyoming State Climate Office 25 Apr 2023

*Percentages denoted by an asteriak represent data that may not provide a valid measure of conditions. This is most usually seen near the end of the snow season where normal values may be very low or the melt out curve is so steep that a slight variation in days may result in abnormally high or low percentages. Snow Water Equivalent Percent of Median (1991-2020) 25 Apr 2024

25 Apr 2024



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http://www.wrds.uwyo.edu/wrds/nrcs/snowmap/snowmap.html



Snow Water Equivalent (SWE) % of Average

SWE Percent of Normal

< 5%

5% - 25% 25% - 50%

50% - 70%

70% - 90%

90% - 95%

95% - 105%

105% - 110%

110% - 130%

130% - 150% 150% - 200%

200% - 300%

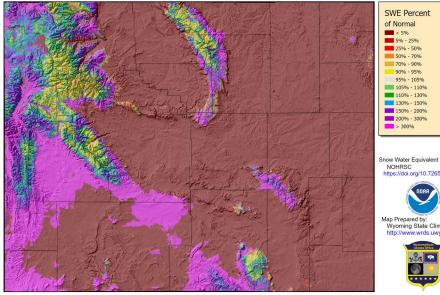
> 300%

NOHRSC

http://www.wrds.uwvo.edu

25 Apr <u>2023</u> (One Year Ago)

Snow Water Equivalent Percent of Average (2004-2020) for 25 Apr 2023

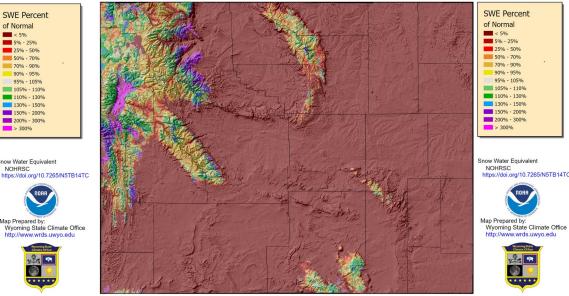


Provisional data, subject to revision

Modelled Snow Water Equivalent from National Operational Hydrologic Remote Sensing Center. 2004. Snow Data Assimilation System (SNODAS) Data Products at NSIDC, Version 1. Boulder, Colorado USA. NSIDC: National Snow and Ice Data Center. doi: https://doi.org/10.7265/N5TB14TC. Daily Percentiles and Percentages created by Wyoming State Climate Office Map created 25 Apr 2023

Snow Water Equivalent Percent of Average (2004-2020) for 25 Apr 2024

25 Apr 2024



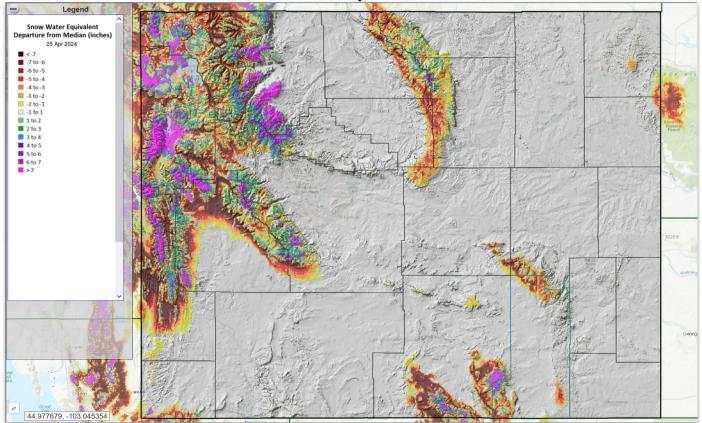
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Modelled Snow Water Equivalent from National Operational Hydrologic Remote Sensing Center. 2004. Snow Data Assimilation System (SNODAS) Data Products at NSIDC, Version 1. Boulder, Colorado USA. NSIDC: National Snow and Ice Data Center. doi: https://doi.org/10.7265/N5TB14TC. Daily Percentiles and Percentages created by Wyoming State Climate Office Map created 25 Apr 2024

http://www.wrds.uwyo.edu/Snow/SWE-Prcnt-Current.html



Snow Water Equivalent (SWE) Departure from Median 25 Apr 2024



http://www.wrds.uwyo.edu/wace/wacehome.html



Peak Snow Water Equivalent Dates and Totals by Basin With Meltout Dates

This year's "to-date" peak snow water equivalent (SWE) compared to median. **Red** indicates **earlier** peak date or **lower** SWE compared to median **Blue** indicates **later** peak date or **higher** SWE compared to median **Click Column Headers to Sort**

Basin	This Year	This Year Peak	Days	Peak SWE	Percent of	Median	Median Peak	Current	Median
Click to View Chart	Peak Date	SWE (inches)	Early/Late	Dif (inches)	Median Peak SWE	Peak Date	SWE (inches)	SWE	Meltout Date
Belle Fourche	15 Mar 2024	3.43	-14	-3.7	48%	29 Mar IMG	7.10 IMG		03 May IMG
Bighorn	11 Apr 2024	10.48	-13	-1.3	89%	24 Apr IMG	11.77 IMG		21 Jun IMG
Cheyenne	08 Mar 2024	3.90	-20	-3.6	52%	29 Mar IMG	7.55 IMG		01 May IMG
Laramie	11 Apr 2024	15.13	-7	-1.2	93%	18 Apr IMG	16.31 IMG		13 Jun IMG
Little Snake	08 Apr 2024	22.98	2	2.5	112%	06 Apr IMG	20.50 IMG		19 Jun IMG
Lower Green	09 Apr 2024	14.42	1	0.8	106%	08 Apr IMG	13.58 IMG		13 Jun IMG
Lower North Platte	11 Apr 2024	9.97	-3	-3.1	76%	14 Apr IMG	13.05 IMG		29 May IMG
Madison	01 Apr 2024	19.23	-13	-4.5	81%	14 Apr IMG	23.75 IMG		25 Jun IMG
Powder	11 Apr 2024	8.24	-3	-2.8	75%	14 Apr IMG	11.01 IMG		10 Jun IMG
Shoshone	01 Apr 2024	15.50	-23	-2.6	86%	24 Apr IMG	18.08 IMG		29 Jun IMG
Snake	11 Apr 2024	20.89	-1	0.0	100%	12 Apr IMG	20.85 IMG		30 Jun IMG
South Platte	08 Apr 2024	5.50	10	-1.1	83%	29 Mar IMG	6.60 IMG		26 Apr IMG
Sweetwater	02 Apr 2024	14.93	-18	-0.3	98%	20 Apr IMG	15.25 IMG		06 Jun IMG
Tongue	22 Apr 2024	8.73	-6	-4.7	65%	28 Apr IMG	13.38 IMG		09 Jun IMG
Upper Bear	03 Apr 2024	19.31	-6	1.5	108%	09 Apr IMG	17.81 IMG		16 Jun IMG
Upper Green	03 Apr 2024	14.69	-8	-1.3	92%	11 Apr IMG	15.96 IMG		19 Jun IMG
Upper North Platte	11 Apr 2024	23.06	-5	-1.6	94%	16 Apr IMG	24.63 IMG		28 Jun IMG
Wind	02 Apr 2024	13.50	-20	-0.6	96%	22 Apr IMG	14.11 IMG		26 Jun IMG
Yellowstone	11 Apr 2024	17.25	-13	-4.9	78%	24 Apr IMG	22.12 IMG		02 Jul IMG

Data from Natural Resources Conservation Service SnoTel Network

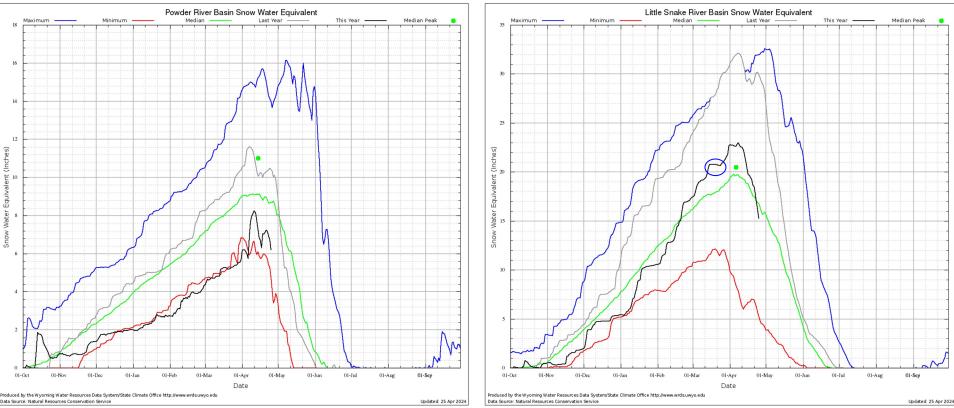
http://www.wrds.uwyo.edu/Snow/BasinPeakSWE.html

Basin Snow Water Equivalent (SWE) % of Median

Powder River Basin

esources Data System

Little Snake River Basin

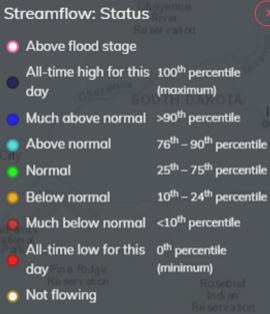


http://www.wrds.uwyo.edu/Snow/BasinStatus.html



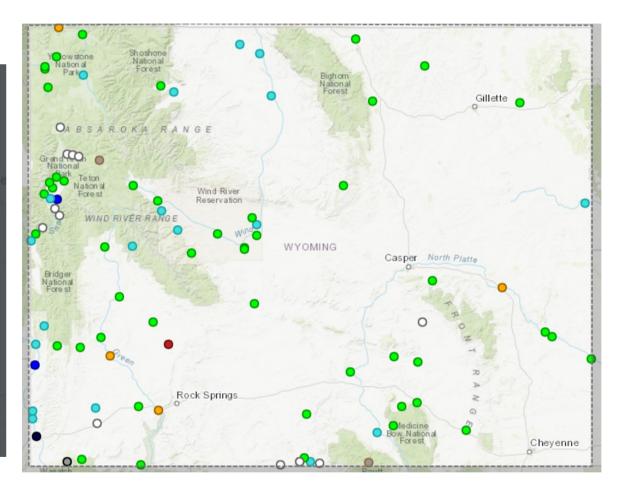
Current Streamflow Conditions (April 25, 2024)

Streamflow Status



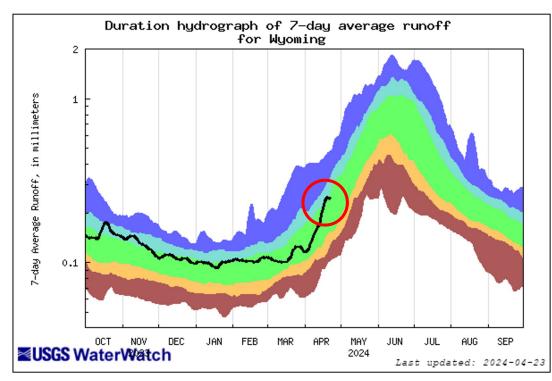
- Not ranked
- Measurement flag
- Recent measurement unavailable

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





WY Duration Hydrograph of 7-day runoff



Mid Spring Streamflow

- Most sites are reporting (1 in ice)
- Runoff has started!
- Above normal with a grain of salt.

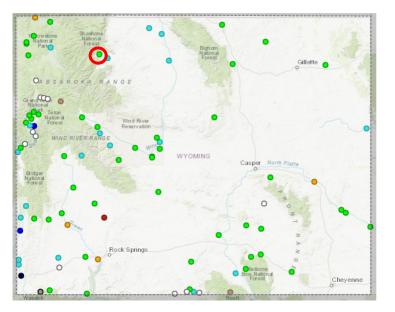
	E	xplana	tion - Pe	ercentile	classe	s	
lowest- 5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile -highest	Runoff
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		Runon

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

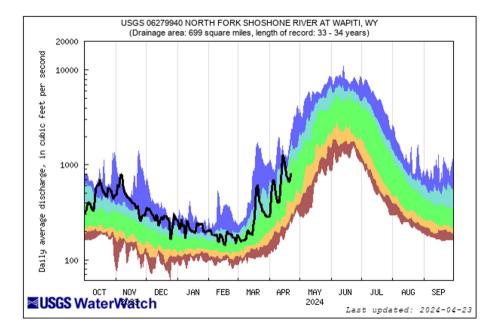


North Fork Shoshone, at Wapiti, WY

Select WY Streamflows



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

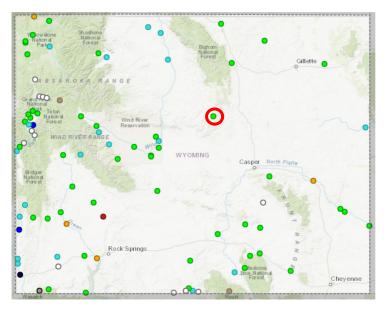


	E	xplana	tion - Pe	ercentile	classes	S	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below	Normal	Above	Much above normal		1104

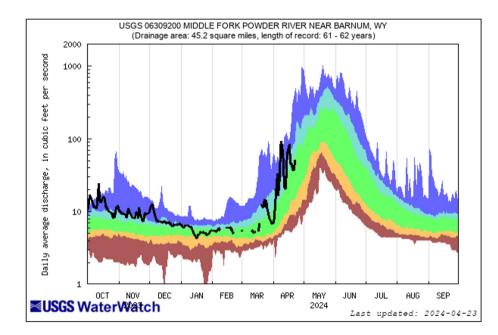


Middle Fork Powder River, Near Barum, WY

Select WY Streamflows



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

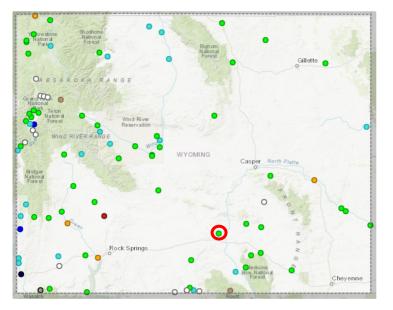


	E	xplana	tion - Pe	ercentile	classes	S	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal		Below	Normal	Above	Much above normal		1104

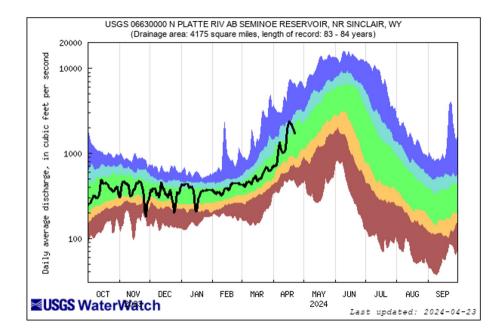


North Platte River ab Seminoe Reservoir, Sinclair, WY

Select WY Streamflows



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

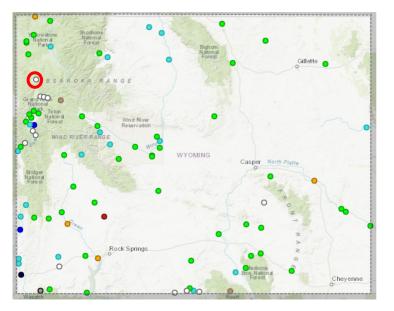


	E	xplana	tion - Pe	ercentile	classes	S	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below	Normal	Below	Normal	Above normal	Much a	bove normal	1104

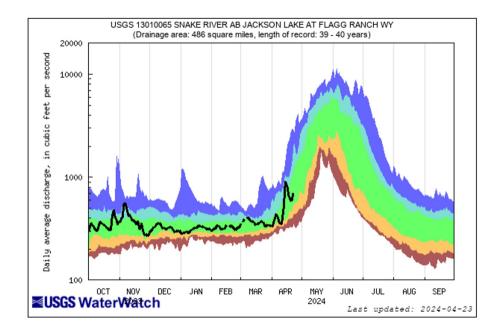


Snake River ab Jackson Lake, Flagg Ranch, WY

Select WY Streamflows



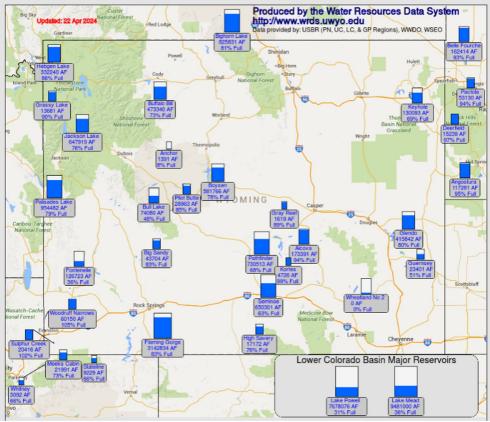
https://dashboard.waterdata.usgs.gov/



	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	Above	Much above normal		1104



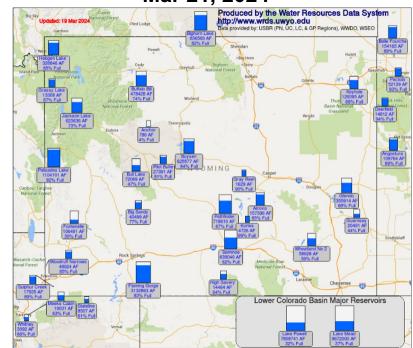
Apr 25, 2024



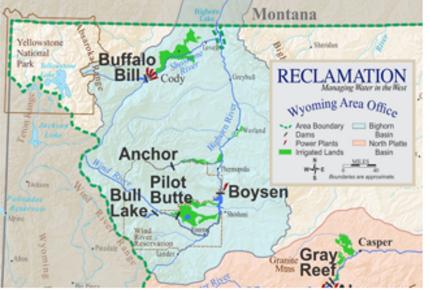
http://www.wrds.uwyo.edu/surface_water/teacups.html

- Mostly minor changes (+/-) from last month
- Most major reservoirs are 60-80% full
- Fontenelle is being lowered, 40% since Nov
- Palisades is being lowered -13% since Mar

Mar 21, 2024



RECLAMATION Current Reservoir Conditions: Bighorn System



As of April 23, Bighorn System:

Reservoir	Content	Capacity	<u>% c</u>
Bull Lake	74,447	152,500	49
Buffalo Bill	470,927	646,600	73
Boysen	576,566	741,600	78

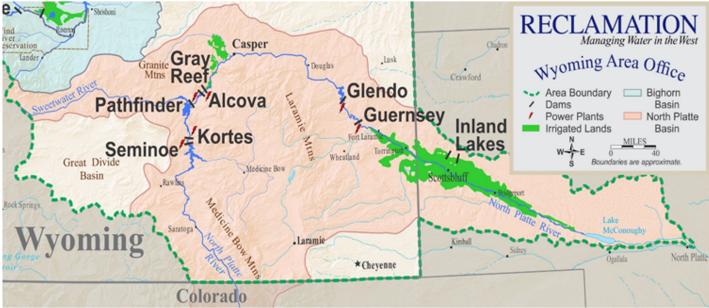
<u>% of Full</u>	% of Avg
49%	96%
73%	116%
78%	111%



BUFFALO BILL RESERVOIR (BBR) Top 644126 af, 5393.5 ft Current 442365 af, 5366.4 ft To fill 201761 af, 27.1 ft Computed Inflow 184 cfs Total Outflow 358 cfs	1,680 cfs
	BOYSEN RESERVOIR Top 741594 af, 4725.0 ft Current 626261 af, 4718.7 ft To fill 115333 af, 6.3 ft Computed Inflow 1350 cfs Total Outflow 1005 cfs
31 cfs	2,200 cfs
BULL LAKE (BLR) Top 152459 af, 5805.0 ft Current 72070 af, 5776.2 ft To fill 80389 af, 28.8 ft Computed Inflow 31 cfs Total Outflow 31 cfs	

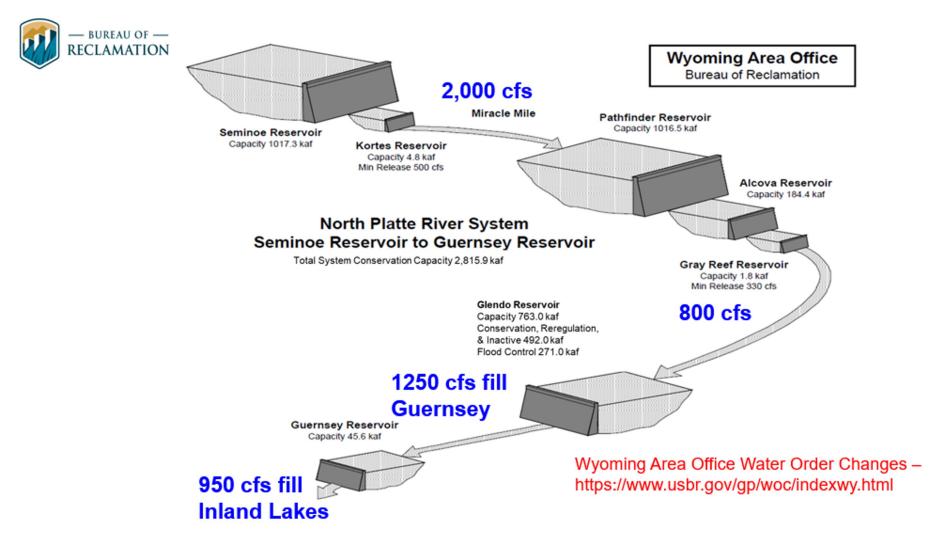
Wyoming Area Office Water Order Changes - https://www.usbr.gov/gp/woc/indexwy.html

The Surfau OF -- Current Reservoir Conditions: North Platte System



As of April 22, North Platte System:

<u>Reservoir</u>	Content (A	AF) Capacity	<u>% of Full</u>	% of Avg
Seminoe	650,300	1,017,300	64%	120%
Pathfinder	730,505	1,070,000	68%	113%
Glendo	415,843	492,000	85%	94%
Guernsey	23,968	45,600	53%	92%



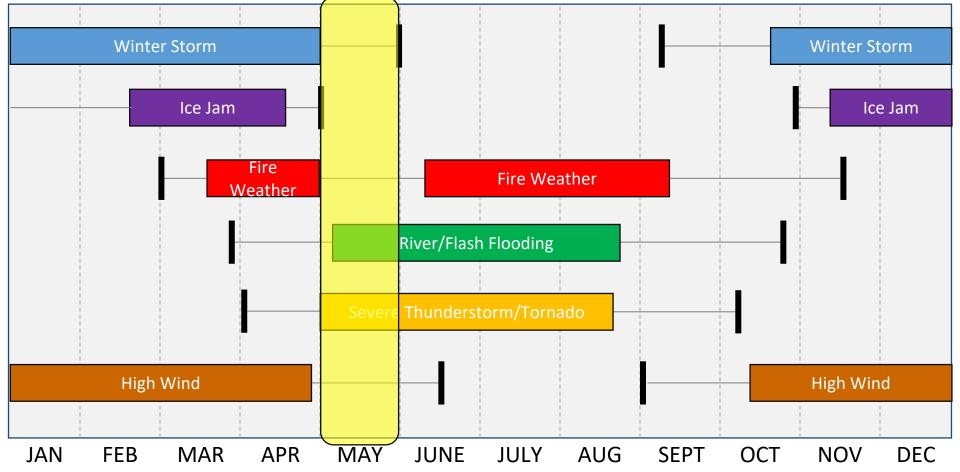


Weather Info & Forecasts



NWS Wyoming Typical Hazard Calendar

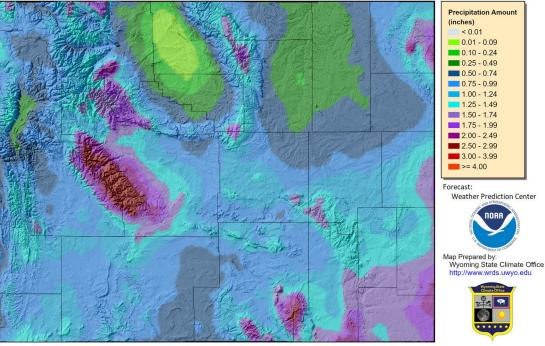






7-Day Total Precipitation Forecast (Apr 25 - May 2)

7-Day Quantitative Precipitation Forecast 25 Apr 2024



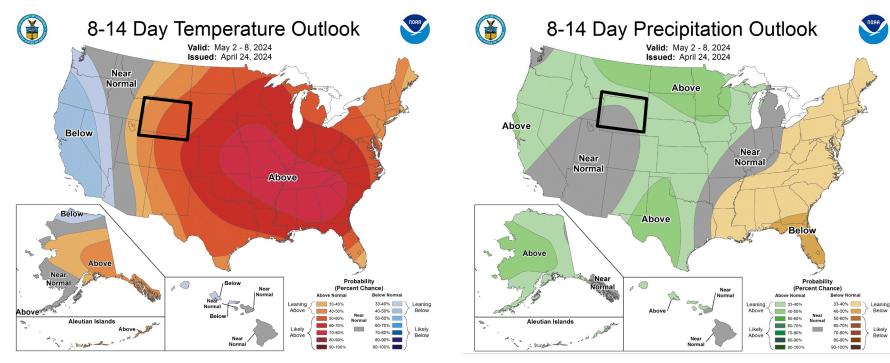
Provisional data, subject to revision

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 25 Apr 2024 http://www.wrds.uwvo.edu

- Unsettled weather across the state for much of the next week
- Multiple systems will affect the state
- Widespread accumulations of >1" of liquid across the state



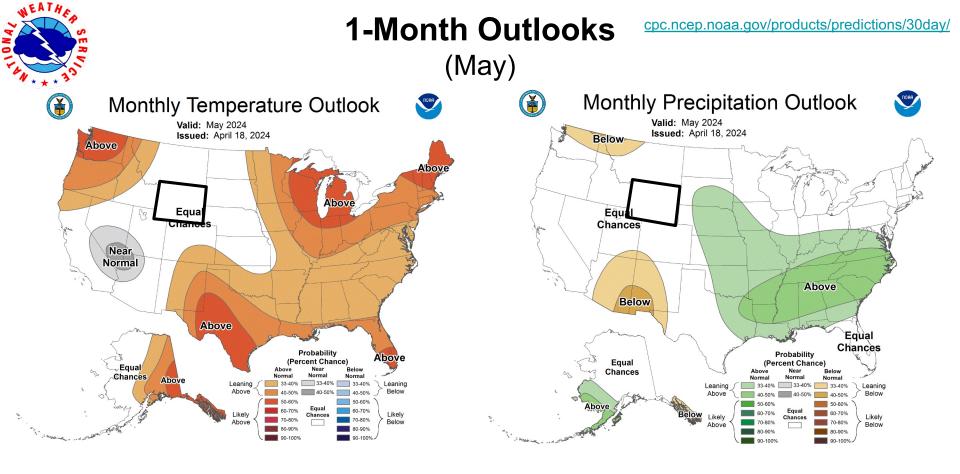
8-14 Day Outlooks (May 2 - May 8)



 Weak to strong signal favoring above normal temperatures. Strengths from west to east

 Weak below normal precipitation signal in east and north

https://bit.ly/CPC8 14Day



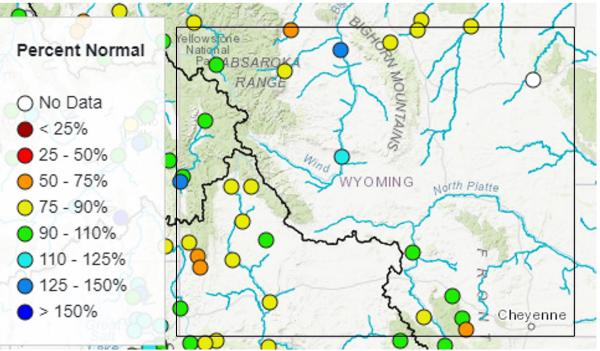
• No signal either way. Climatology is probably the best forecast.

• No signal either way. Climatology is probably the best forecast.



Wyoming Water Supply Outlook

Valid April-September



April thru September runoff volumes appears to be near-to-below normal.

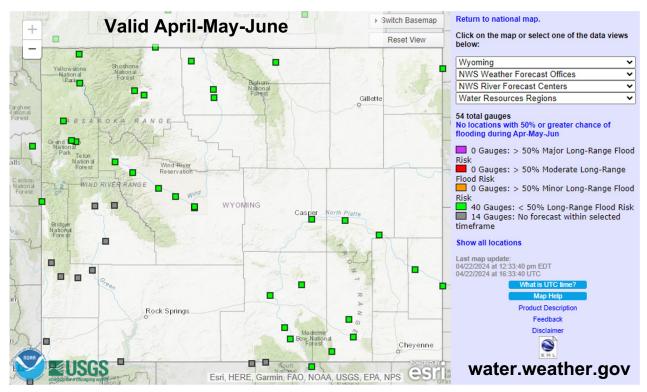
This graphic depicts the NWS water supply outlook locations, colored by the percent of April-thru-September volumetric normal. Many Wyoming stations are projected to see lowerthan-normal volumes this season (yellows and oranges).

*Please note that the Colorado River basin colors reflect April-thru-July percent-of-normals.

https://www.cbrfc.noaa.gov/wsup/graph/west/map/esp_map.html



Wyoming Flood Potential Update



No riverine flooding is expected through late June

This graphic depicts the NWS river forecast locations, colored by the highest flood category expected during the next 90-days.

All Wyoming stations are projected to stay below Flood Stage (i.e. green dots).

The National Hydrologic Assessment was issued 21 March 2024.

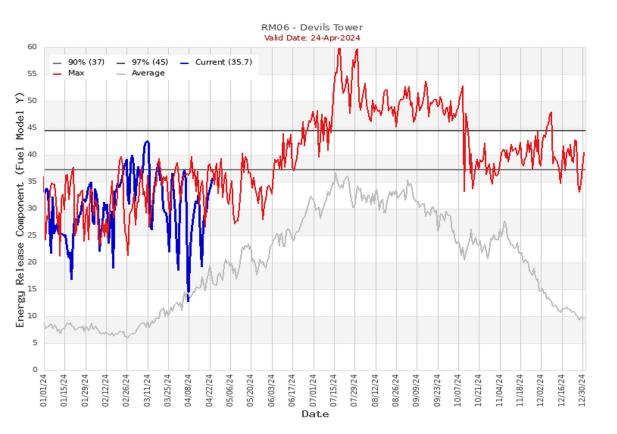
https://www.weather.gov/owp/2024NHA#:~:text=The %20National%20Hydrologic%20Assessment%20is,fl ood%20potential%2C%20and%20water%20supply.

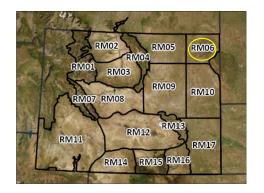


Fuel Moisture Content Basics

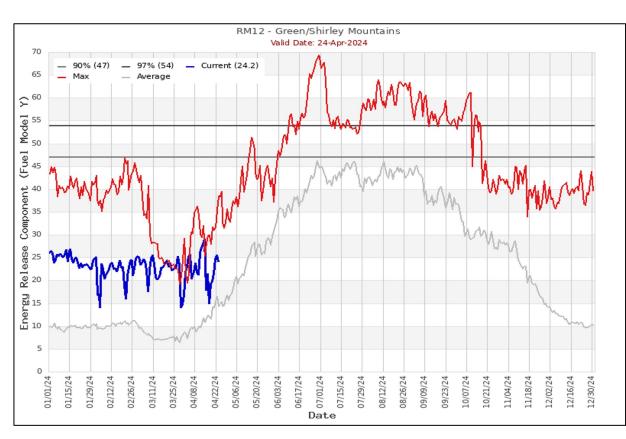
- **Fuel Moisture Content** A key contributor to fire behavior along with weather and topography. Measures the amount of water in a fuel, expressed as a percentage of the dry weight.
- Two Main Types of Wildland Fuel
 - **Live Fuels-** Moisture content changes based on a number of factors, including plant phenology, time of year, and soil moisture. During dormancy, live fuels may resemble dead.
 - Dead Fuels- Absorb moisture from humidity in the air around them at variable rates depending on size. Classified by "time lag", amount of time it takes for the fuel to gain or lose substantial moisture.
 - **1 Hour <** ¼" grasses, forbs etc...
 - **10 Hour -** ¹/₄" **to 1**" small twigs and branches
 - **100 Hour- 1" to 3" -** larger branches and small trees
 - **1000 Hour- > 3" -** downed logs, large branches
- Fuel Loading- Measured in tons per acre, highly variable depending on predominant vegetation.

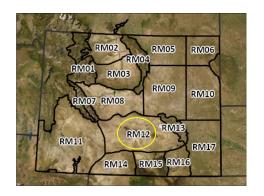




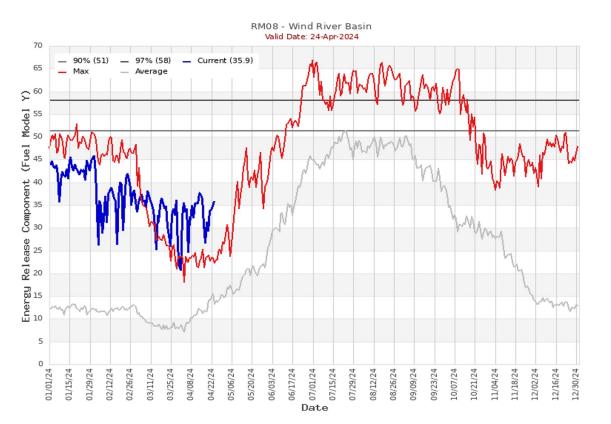


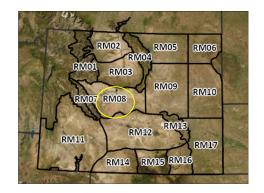




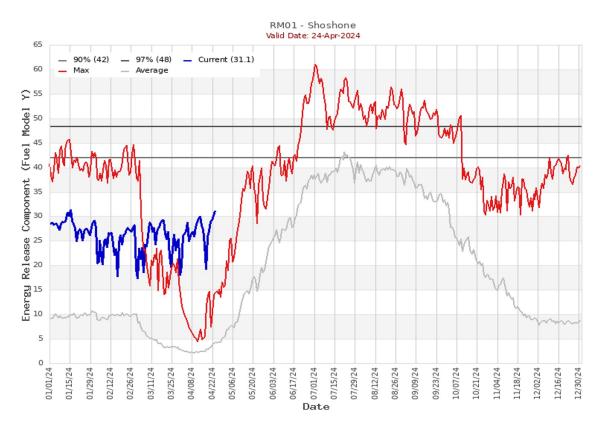


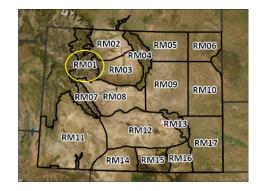












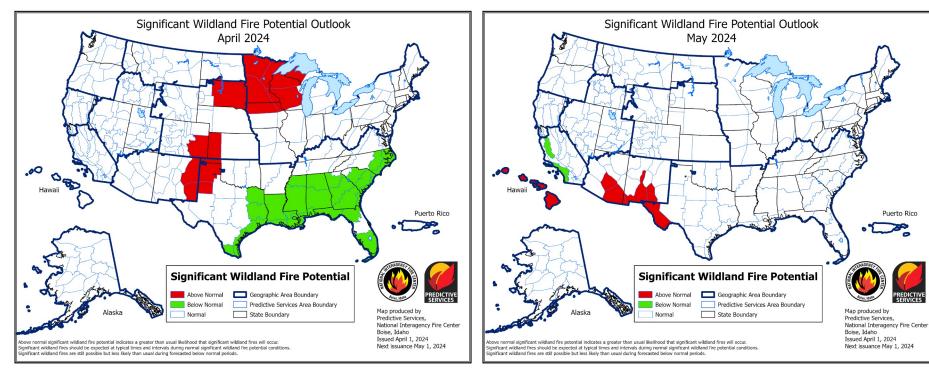


April 2024

Wildland Fire Potential and Outlook

National Outlook- Released Monthly on 1st of the month

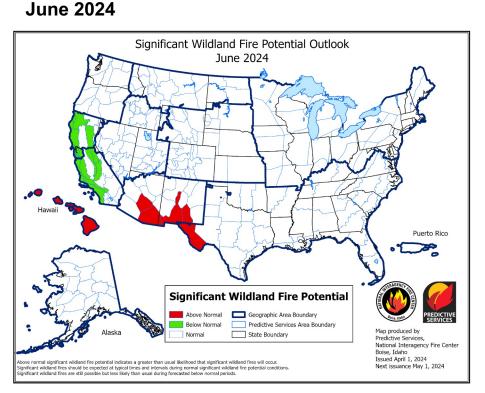
May 2024





National Outlook- Released Monthly on 1st of the month

July 2024







LICDA





Extension





IT'S OK TO ASK FOR HELP

Have you experienced problems like rising costs, market fluctuations, family conflicts, or extreme weather?

Are you stressed or feeling defeated?

Even the toughest people NEED HELP sometimes.



2474 833.897.2474



Scan code to save the number!





Counseling Vouchers

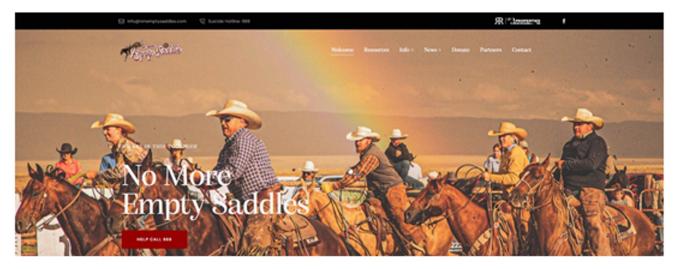


- Up to 6 sessions
- Provider reimbursement
- Pilot project funding until August '24
- Contact Sheila Ricley at ALIGN -<u>sricley@thealignteam.o</u> rg 307-772-9011



No More Empty Saddles

Nmemptysaddles.com





Beyond the Weather





Ag Stress Roundtable

- Open to anyone
- Share resources
- Meet quarterly(ish)
- Contact Lucy (<u>lucy.Pauley@wyo.gov</u>)

For More Information

Lucy Pauley Wyoming Dept of Agriculture (307) 777-8788 lucy.pauley@wyo.gov

https://wyagric.state.wy.us/mediation-program

http://www.facebook.com/WyomingMediation











Wyoming DEPARTMENT OF Agriculture





Extension

Windy Kelley UW Extension & USDA Northern Plains Climate Hub wkelley1@uwyo.edu

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

Thank you!

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