



WY Conditions & Outlooks:

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

July 20, 2023



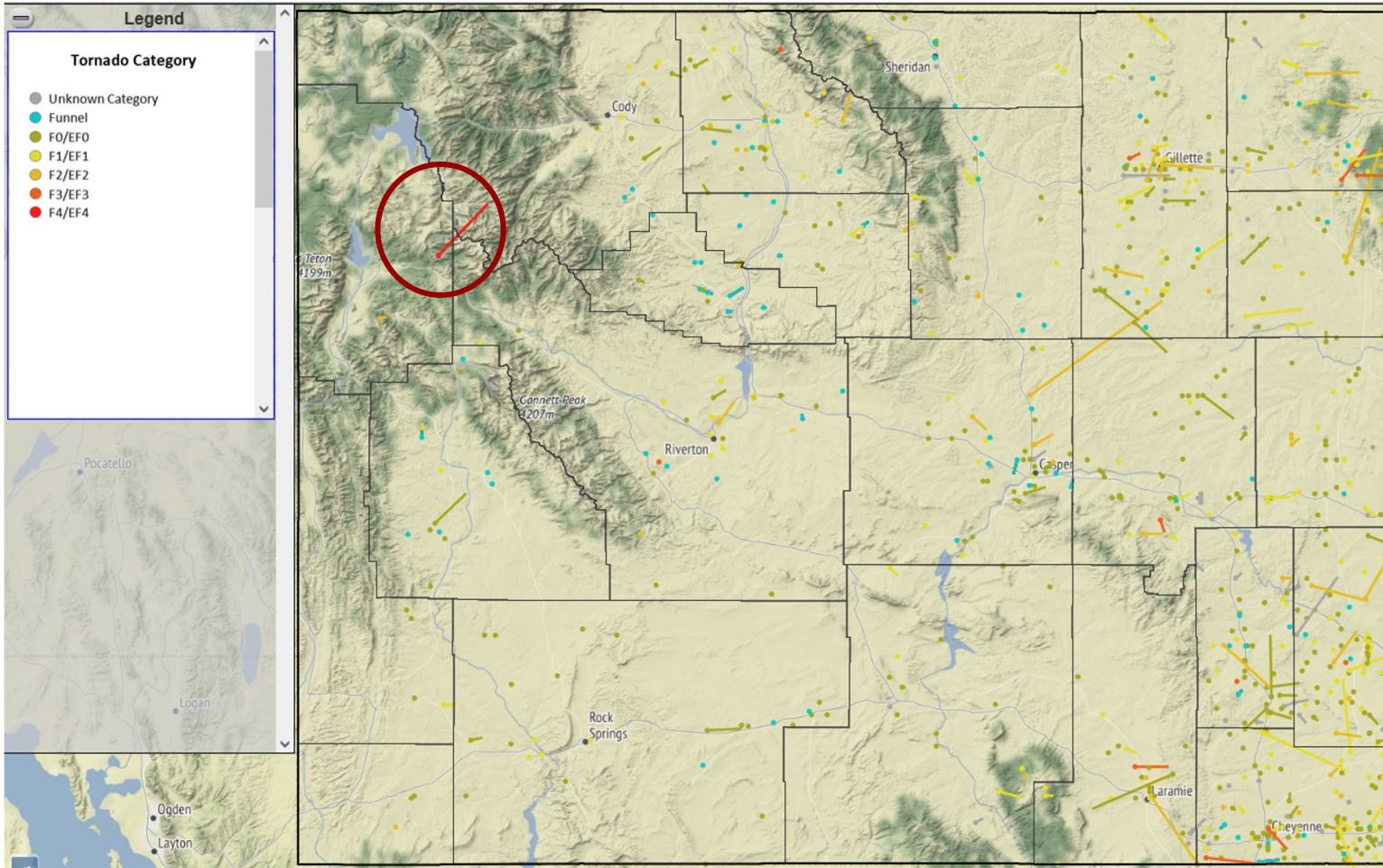
Presentation Outline

- **Current Conditions:** Overview
 - Drought, Temperature, Precipitation, Soils
 - Streamflow
 - Water Calls & Allocations
- **Outlooks:** Temperature & Precipitation
 - Fuels' Status & Wildland Fire Outlook
- **Highlight of the Month**
 - Wildland Fire Information & Resources
- **Questions**

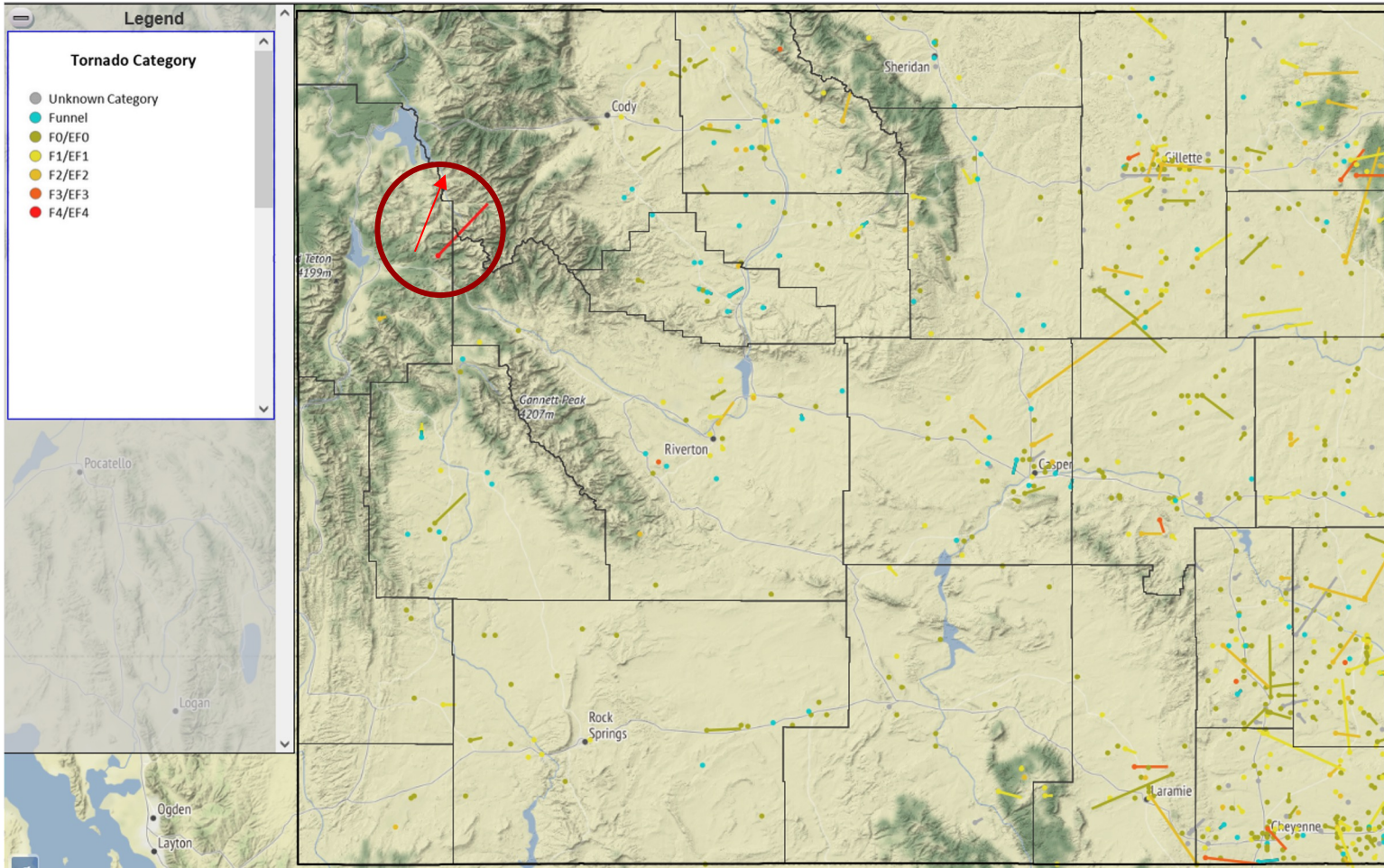


Current Conditions

36 years ago tomorrow: Afternoon of 21 July 1987 Wyoming's only known F4 Tornado



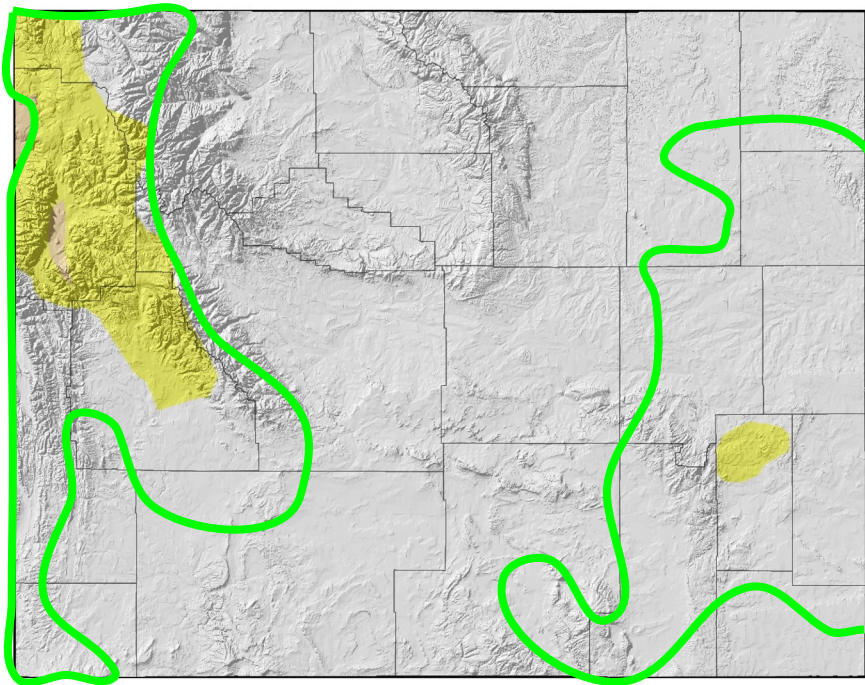
36 years ago tomorrow: Afternoon of 21 July 1987 Wyoming's only known F4 Tornado



US Drought Monitor for July 18, 2023

(Released Thursday, July 20, 2023)
Valid 8 a.m. EDT

US Drought Monitor for 18 Jul 2023



US Drought Monitor	
7.27%	D0 Abnormally Dry
0.40%	D1 Moderate Drought
0.00%	D2 Severe Drought
0.00%	D3 Extreme Drought
0.00%	D4 Exceptional Drought

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



Map Layout Prepared by:
Wyoming State Climate Office
<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

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

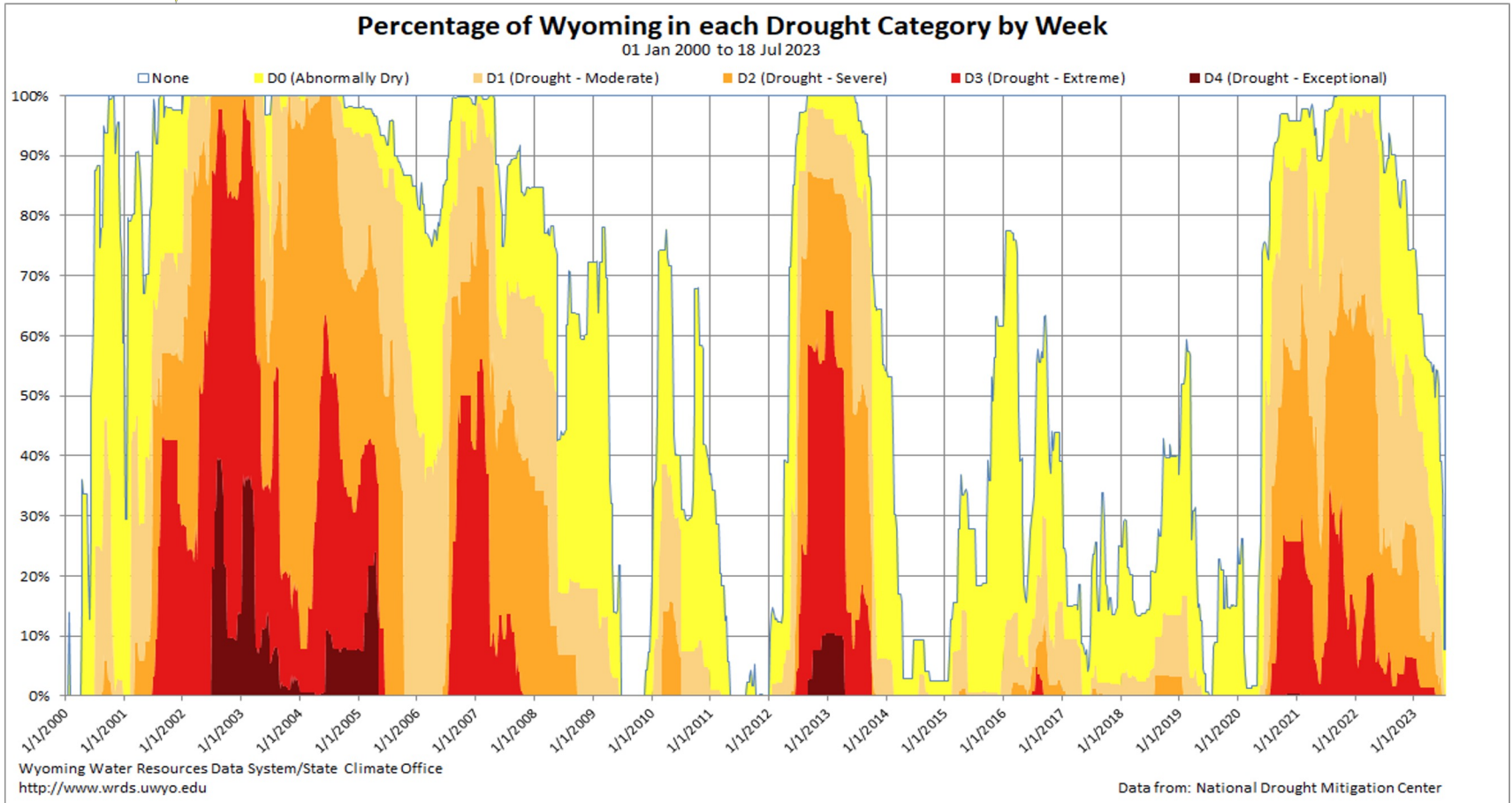
Improvements since the last webinar almost everywhere that had some sort of drought level present.

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 20 Jul 2023 <http://www.wrds.uwyo.edu>



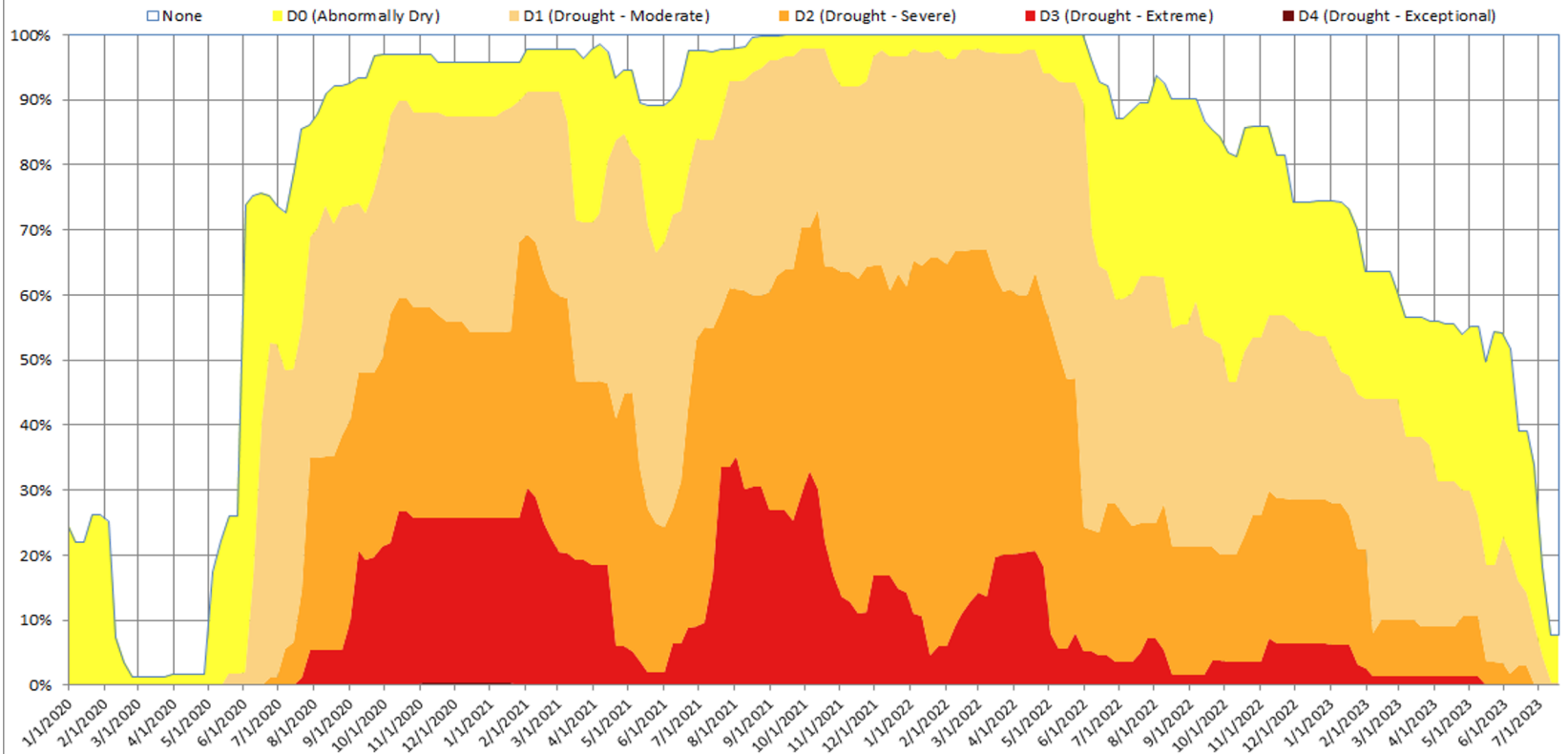
Wyoming Area Affected: 7.66% D0-D4 ; 0.40% D1-D4





Percentage of Wyoming in each Drought Category by Week

01 Jan 2020 to 18 Jul 2023



Wyoming Water Resources Data System/State Climate Office
<http://www.wrds.uwyo.edu>

Data from: National Drought Mitigation Center

14-Day Precipitation Percentile (06 Jul 2023 to 19 Jul 2023)

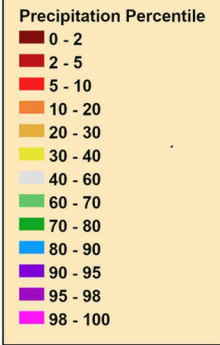
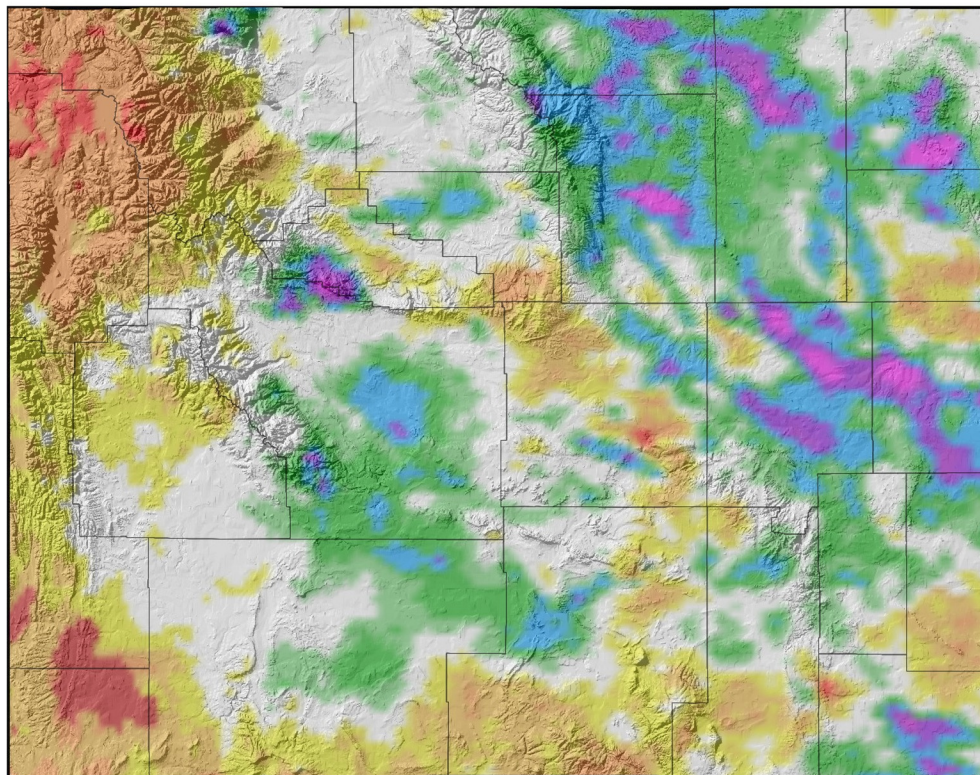
14-Day Precipitation (Percentile) for 06 Jul 2023 to 19 Jul 2023

Above Median:

- Southern Laramie, Northeast with exceptions
- Southern Fremont, Northeastern Sweetwater, Northwestern Carbon

Below Median (Areas of Concern):

- Far southern Carbon, Sweetwater
- Uinta, Lincoln, Teton, Western Park
- Southern Goshen and Albany
- Southern Weston/Northern Niobrara



Precipitation Data
PRISM Climate Group
<http://prism.oregonstate.edu>



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



Provisional data, subject to revision

90-Day Precipitation Percentile (21 Apr 2023 to 19 Jul 2023)

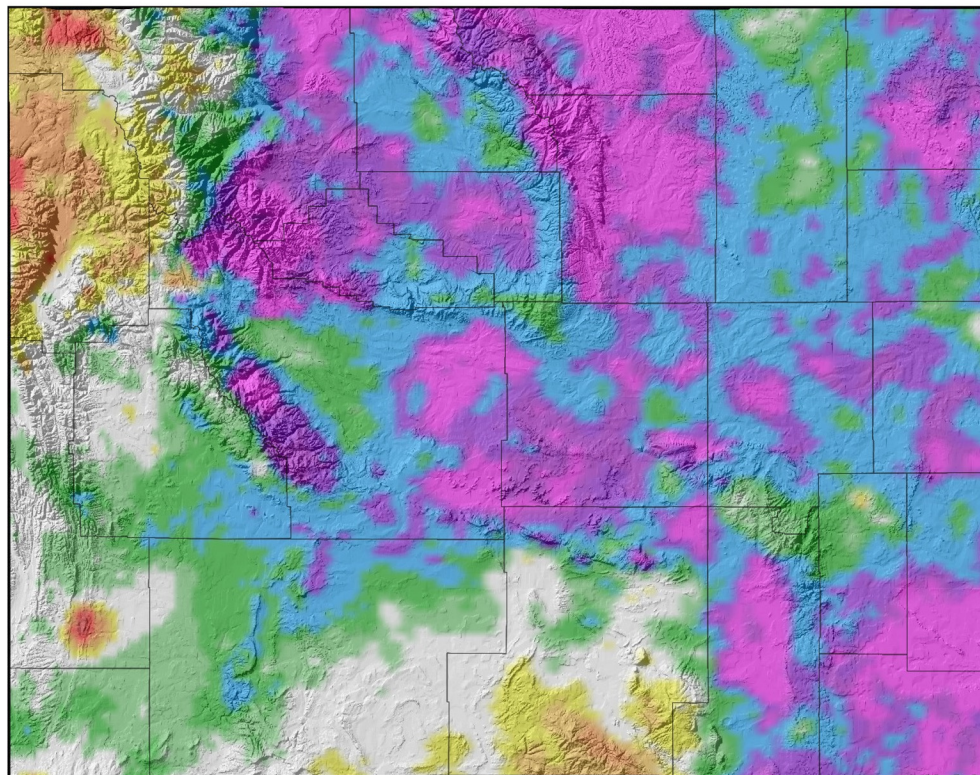
90-Day Precipitation (Percentile) for 21 Apr 2023 to 19 Jul 2023

Above Median:

- Much of Wyoming

Below Median (Areas of Concern):

- Northwest Wyoming
- Little Snake Basin



Precipitation Percentile

0 - 2
2 - 5
5 - 10
10 - 20
20 - 30
30 - 40
40 - 60
60 - 70
70 - 80
80 - 90
90 - 95
95 - 98
98 - 100

Precipitation Data
PRISM Climate Group
<http://prism.oregonstate.edu>

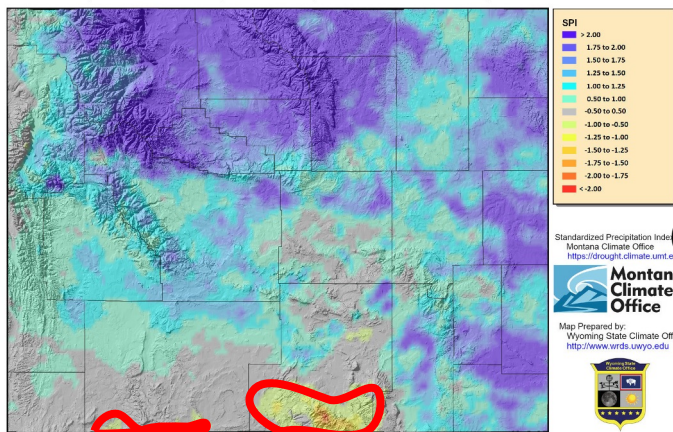


Map Prepared by:
Wyoming State Climate Office
<http://www.wrds.uwyo.edu>

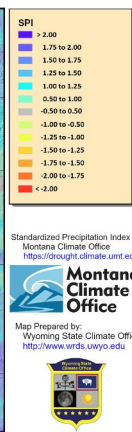
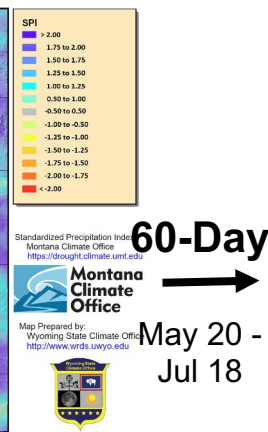


Provisional data, subject to revision

30-Day
→
Jun 19 - Jul 18



Standardized Precipitation Index Created by Montana Climate Office <https://drought.climate.umt.edu>
Map Created 20 Jul 2023 <http://www.wrds.uwyo.edu>

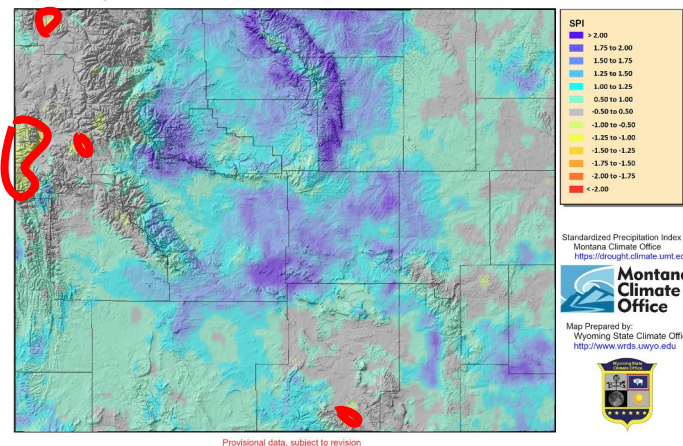


Standardized Precipitation Index Created by Montana Climate Office <https://drought.climate.umt.edu>
Map Created 20 Jul 2023 <http://www.wrds.uwyo.edu>

Standardized Precipitation Index (SPI)

Short term: **Southern Carbon**
Long term: **Tetons**

1-Year
→

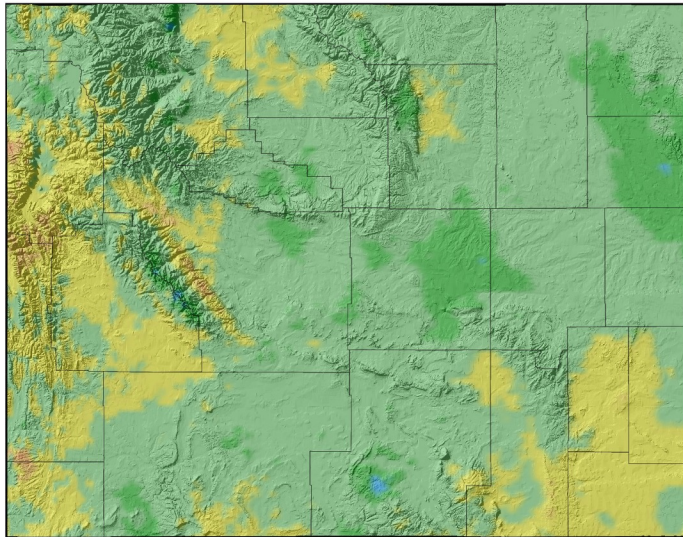


Standardized Precipitation Index Created by Montana Climate Office <https://drought.climate.umt.edu>
Map Created 20 Jul 2023 <http://www.wrds.uwyo.edu>

14-Day Average **Minimum** Temperature (06 Jul to 19 Jul)

- Highest elevation mins right about freezing
- Northwest generally 30s to low 40s
- BH Basin, much of the plains 50s

14-Day Average Minimum Temperature (Departure from 1991-2020 Average) for 06 Jul 2023 to 19 Jul 2023



Temperature Data
PRISM Climate Group
<http://prism.oregonstate.edu>

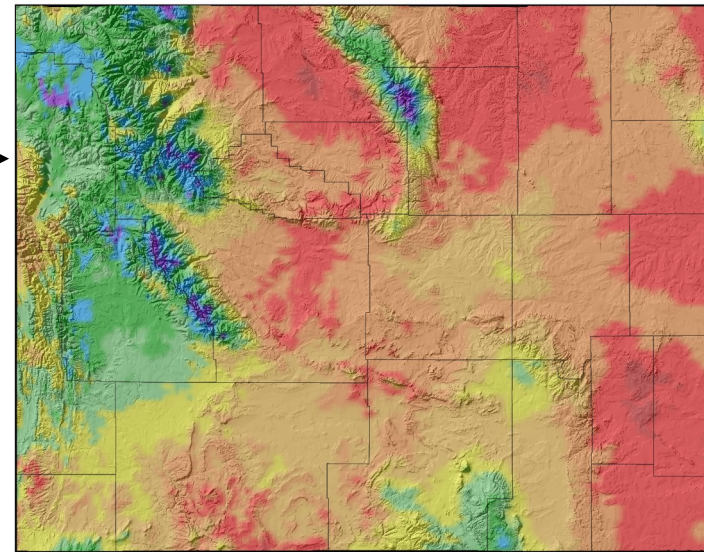


Map Prepared by:
Wyoming State Climate Office
<http://www.wrds.uwyo.edu>



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 20 Jul 2023 <http://www.wrds.uwyo.edu>
Temperature averages created from PRISM daily tempWYerature grids



Temperature Data
PRISM Climate Group
<http://prism.oregonstate.edu>



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Wyoming State Climate Office
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Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>
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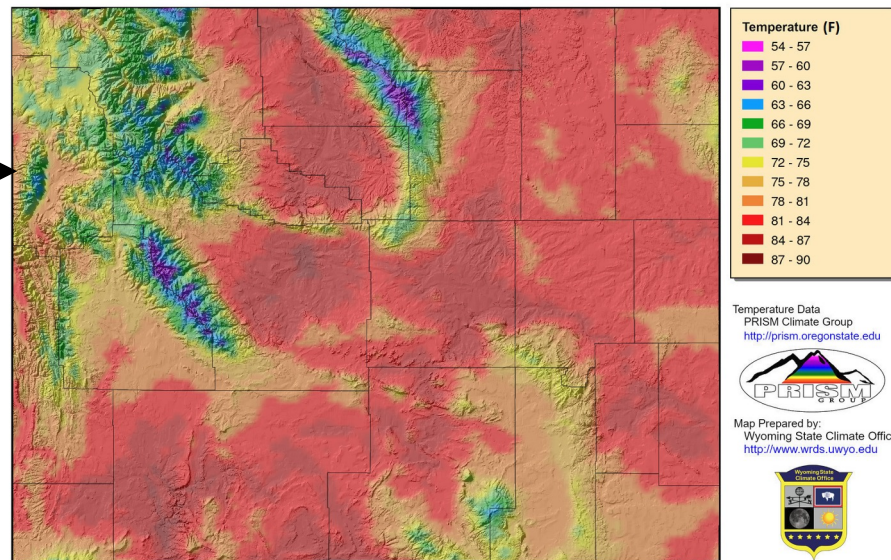
14-Day **Departure from Normal** Average **Minimum** Temperature

- Above average in southeast and scattered western areas along with northern Bighorn Basin, 0-3F above
- Remainder 0-3F below average with Natrona, Crook, and Weston (along with scattered other areas) being 3-6F below average

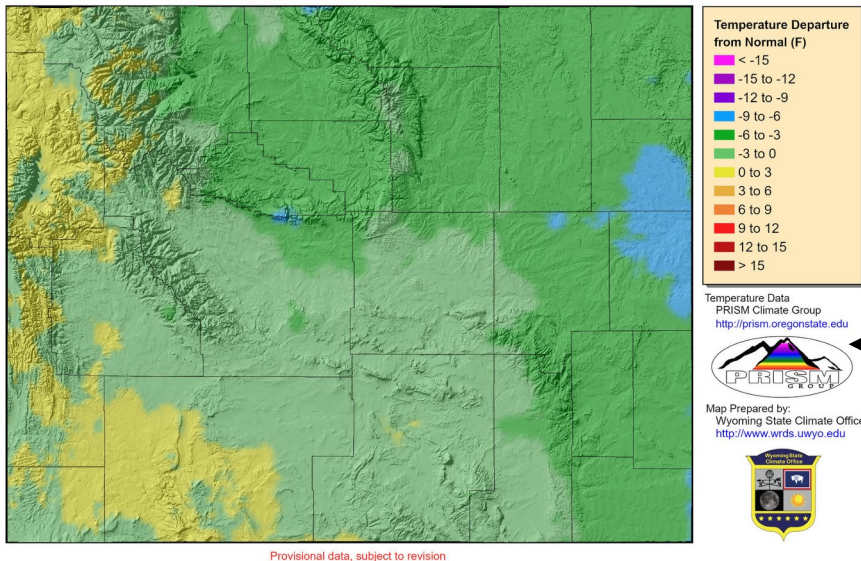
14-Day Average Maximum Temperature (06 Jul to 19 Jul)

- Highs in the 80s except for higher elevations

14-Day Average Maximum Temperature for 06 Jul 2023 to 19 Jul 2023



14-Day Average Maximum Temperature (Departure from 1991-2020 Average) for 06 Jul 2023 to 19 Jul 2023



Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>
Map Created 20 Jul 2023 <http://www.wrds.uwyo.edu>
Temperature averages created from PRISM daily tempWYerature grids

14- Day *Departure from Normal* Average Maximum Temperature

- SE, NW, Far West 0-3F above average
- Remaining SW 2/3s of WY 0-3F below average
- Greater (-) departure as go south, 3-6F below avg
- North and east 3-6F below average except

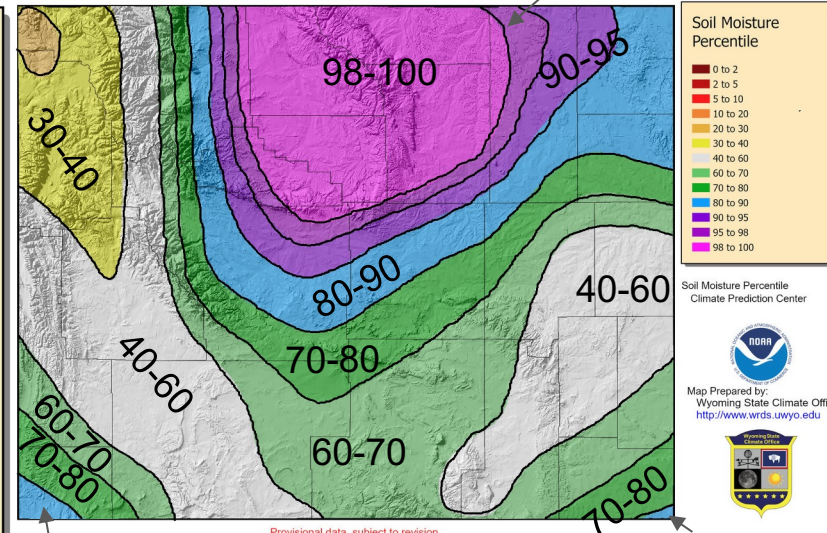
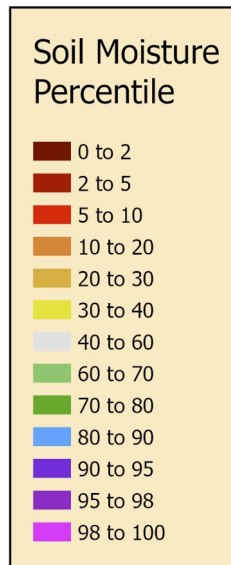
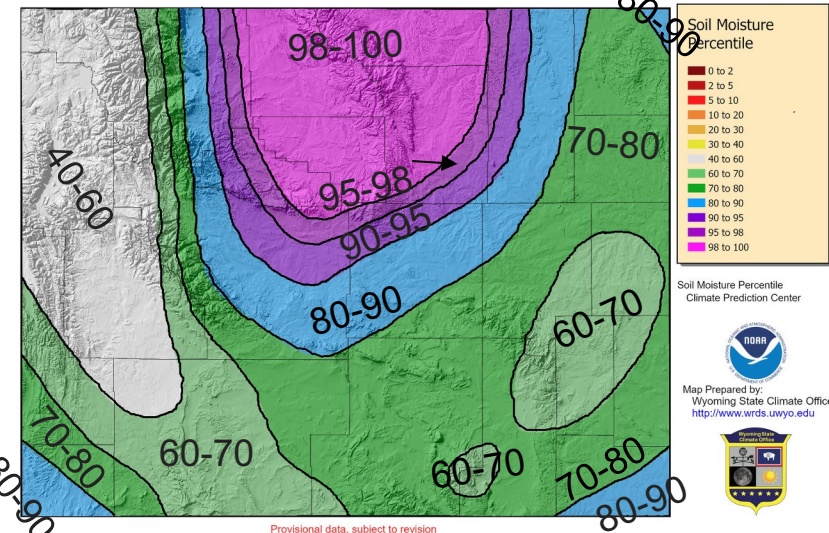
Soil Moisture Percentile

Two Weeks Ago

19 July 2023

Soil Moisture Percentile for 06 Jul 2023

Soil Moisture Percentile for 19 Jul 2023



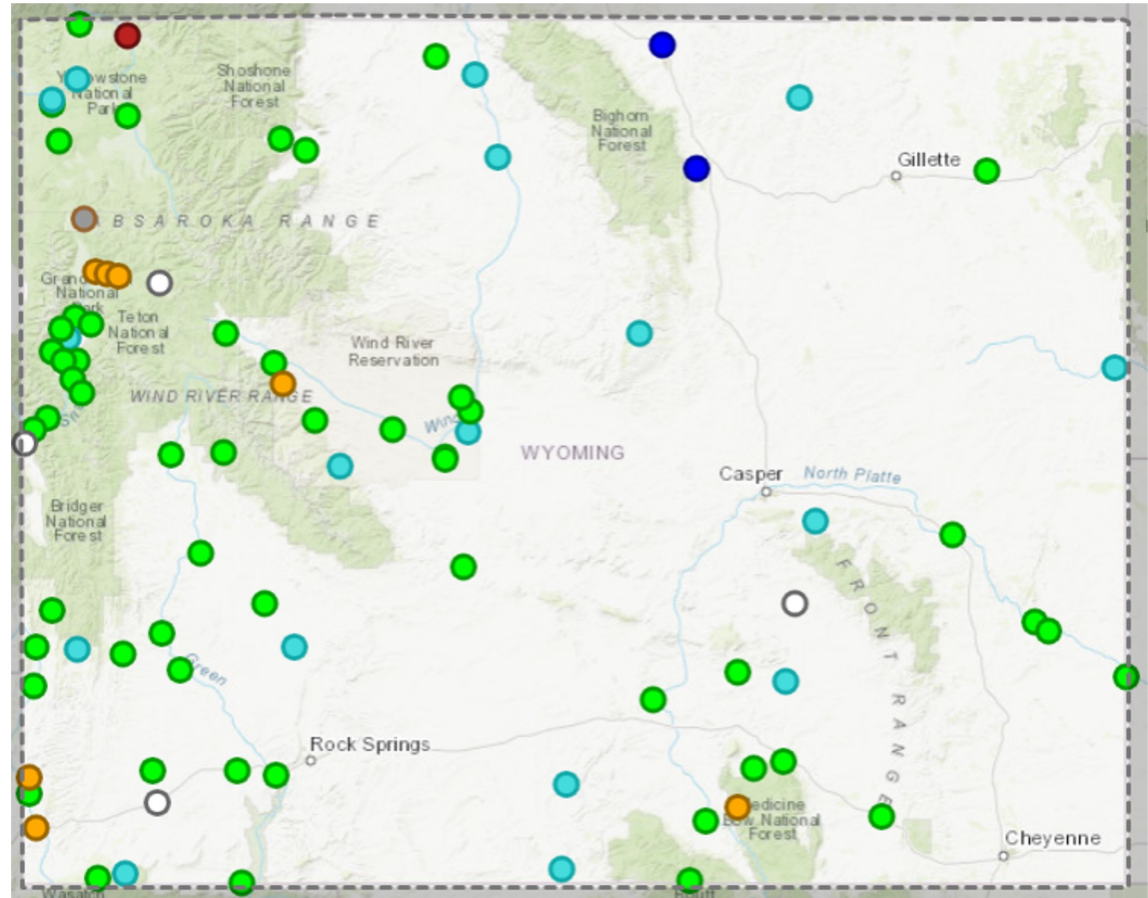
Modeled Soil Moisture Percentile https://www.cpc.ncep.noaa.gov/products/GIS/GIS_DATA/USDM_Products/soil/soil_percentile.php
Map Created 20 Jul 2023 <http://www.wrds.uwyo.edu>

Improvements in northeast. Degradation in the northwest extending down into Sweetwater County and then eastward covering much of southeast WY

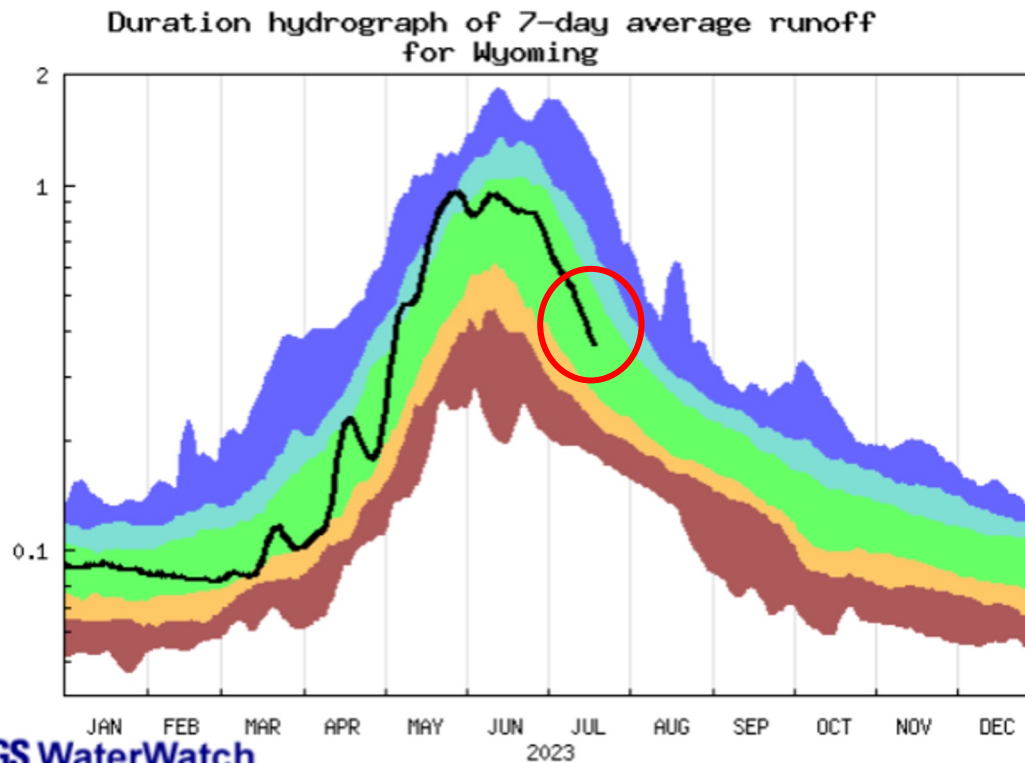
Streamflow Status

Streamflow: Status

- Above flood stage
- All-time high for this day
- Much above normal
- Above normal
- Normal
- Below normal
- Much below normal
- All-time low for this day
- Not flowing
- Not ranked
- Measurement flag
- Recent measurement unavailable



WY Duration Hydrograph of 7-day runoff



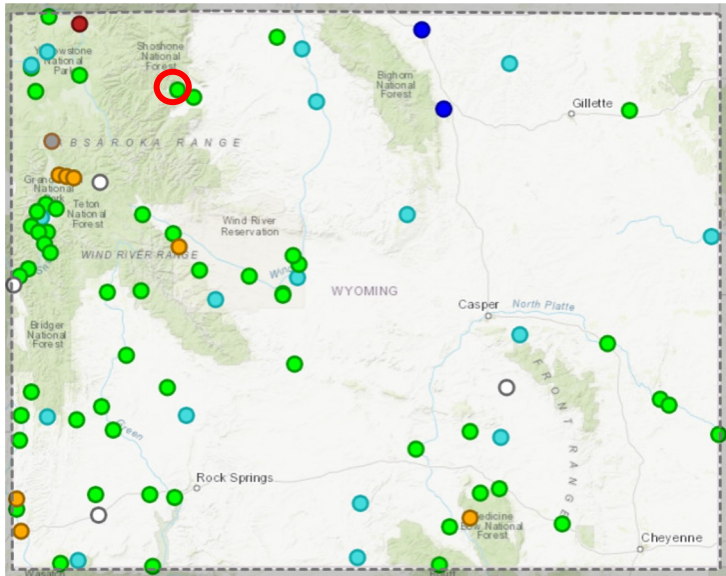
Spring Streamflow

- Falling limb of hydrograph.
- Summer rains helping to sustain normal & above flow conditions

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

<https://waterdata.usgs.gov/>

Select WY Streamflows

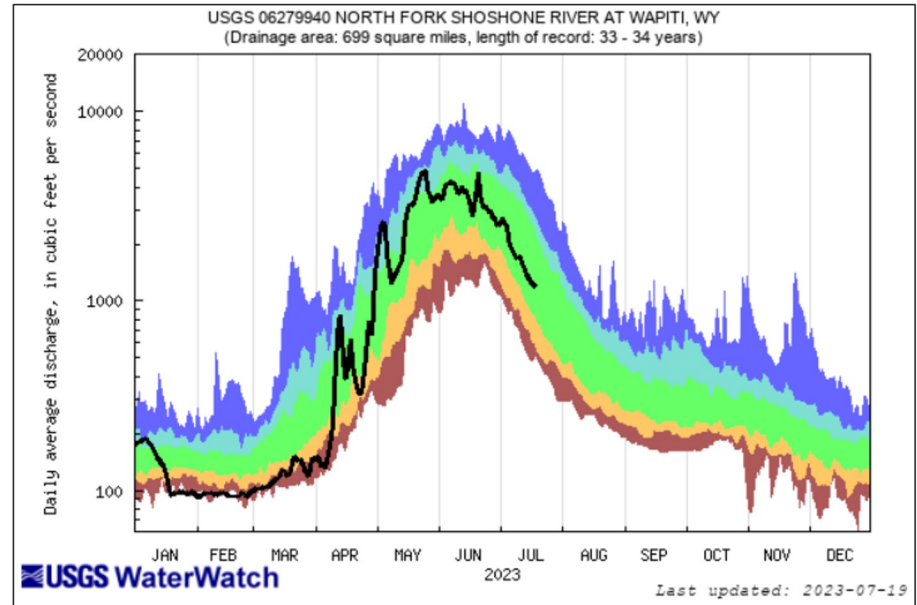


<https://dashboard.waterdata.usgs.gov/>

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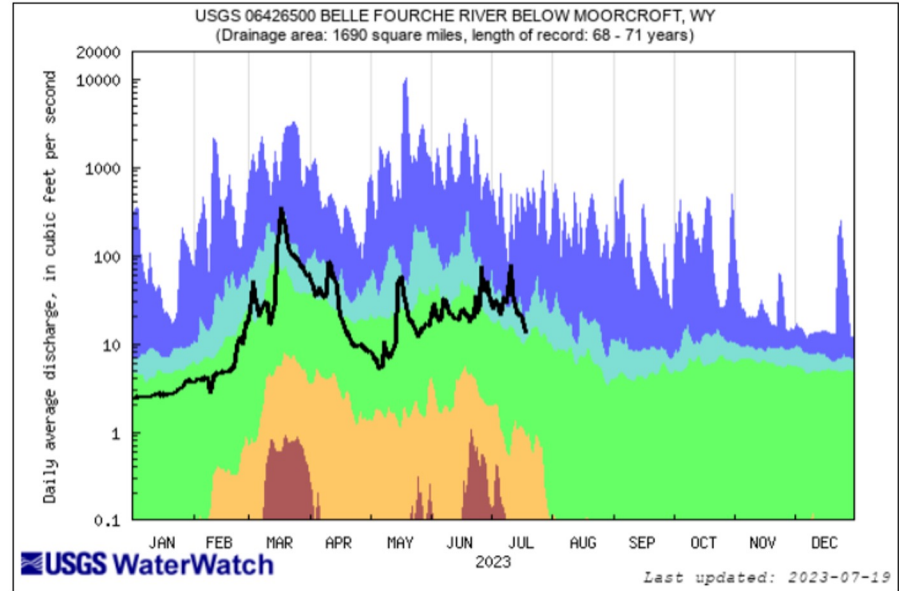
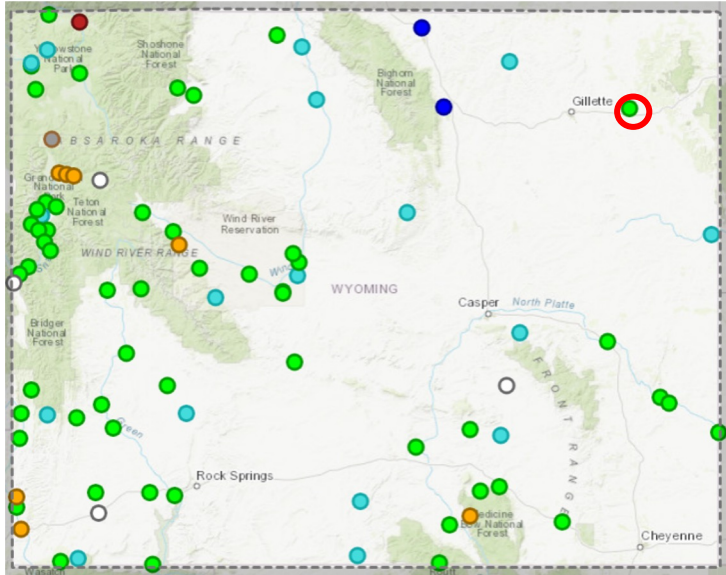
North Fork Shoshone River, WY

Last updated July 19, 2023



Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal		Below normal	Normal	Above normal	Much above normal	Flow

Select WY Streamflows

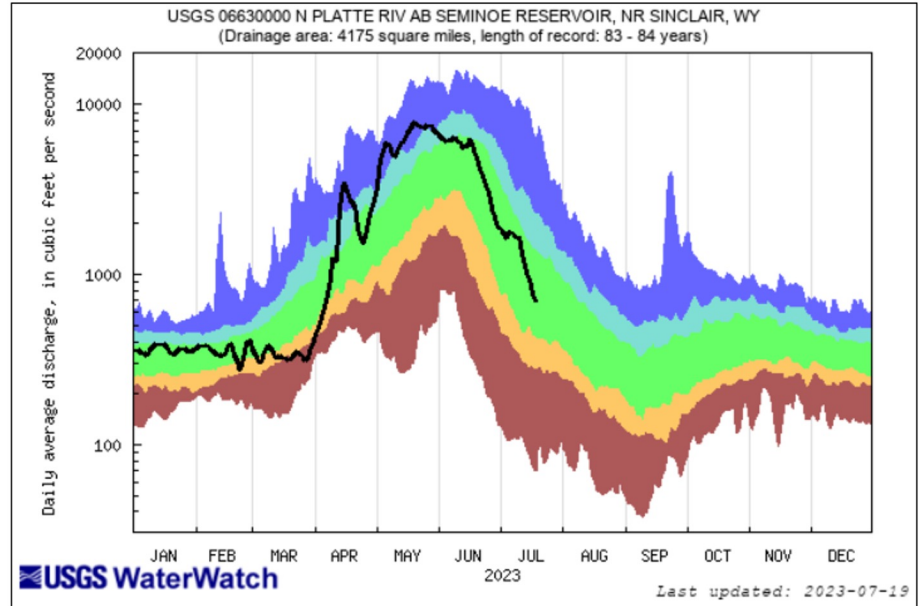
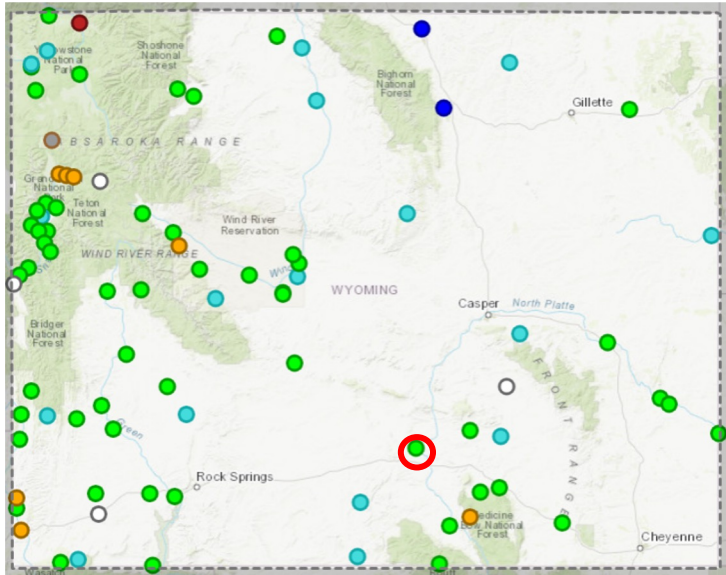


<https://dashboard.waterdata.usgs.gov/>

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Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest
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Select WY Streamflows

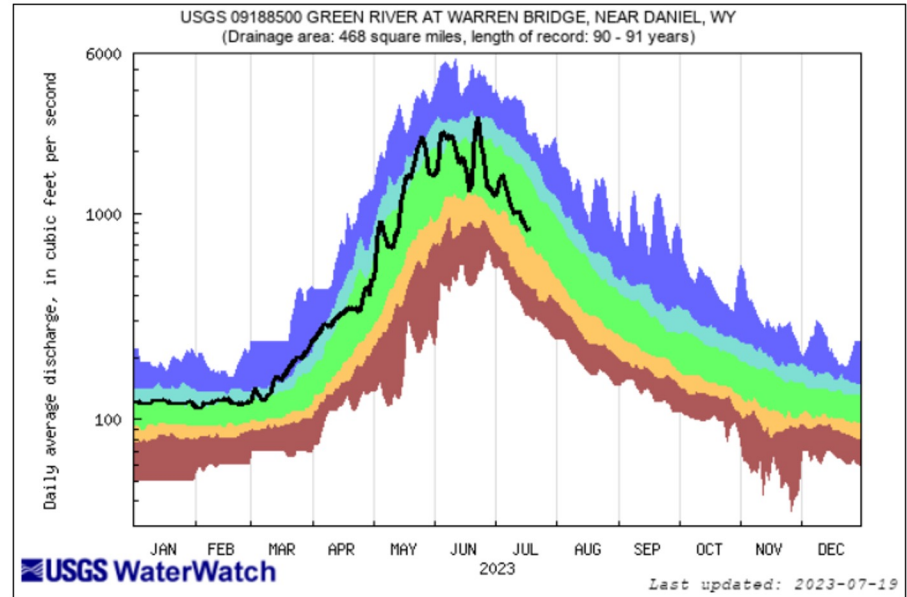
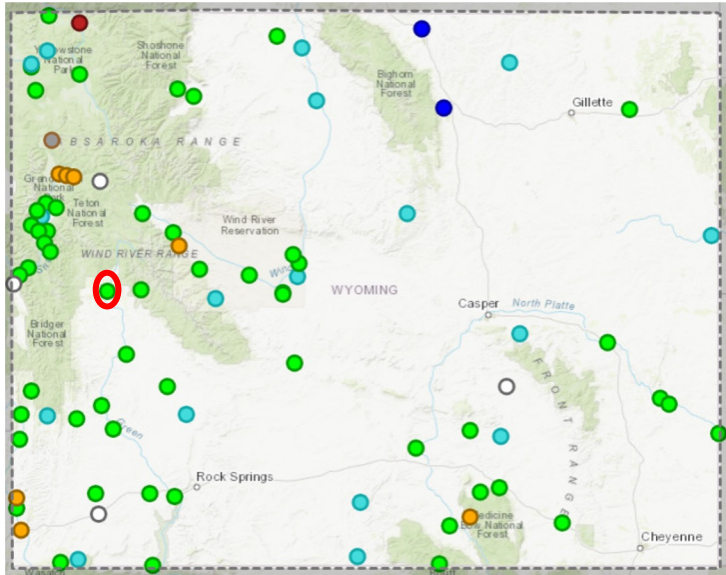


<https://dashboard.waterdata.usgs.gov/>

<https://waterdata.usgs.gov/>

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Select WY Streamflows



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

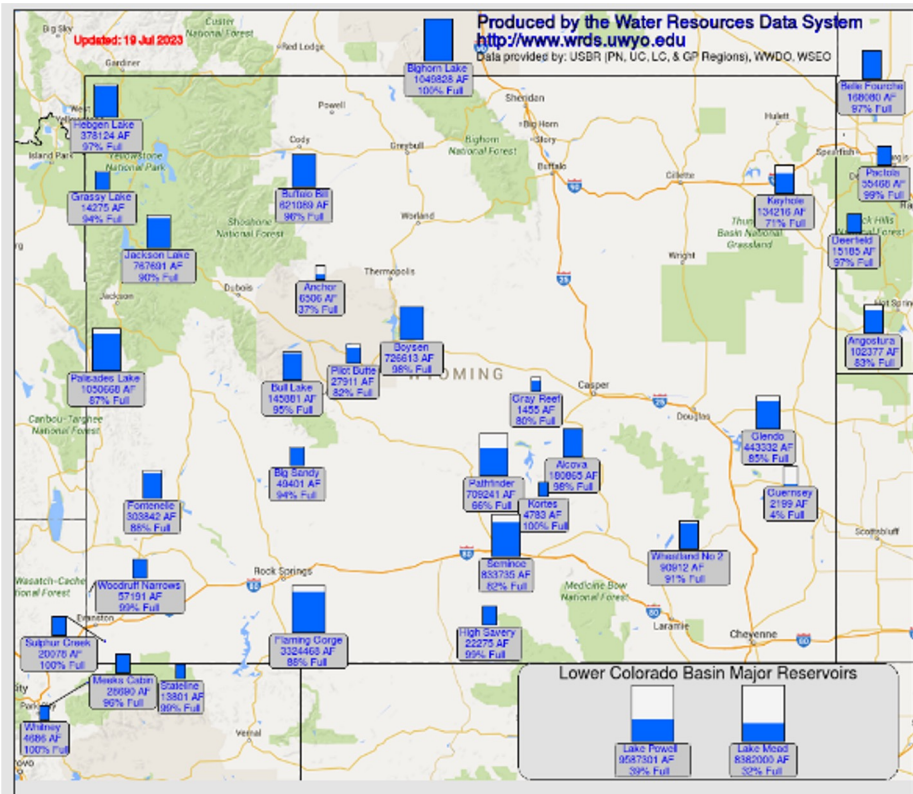
<https://waterdata.usgs.gov/>

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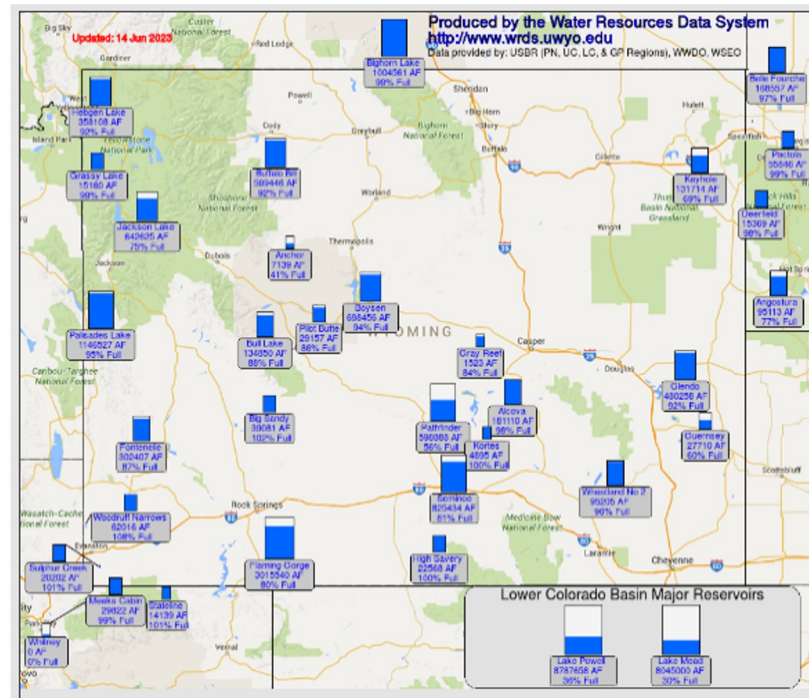
WY Reservoirs

- Small increases in most reservoirs
- Most are more than 85% full

July 19, 2023



June 15, 2023





WY SEO Divisions and Superintendents

Contact information for calls and administration

Division 3

Joshua
Fredrickson,
856-0747



Division 2

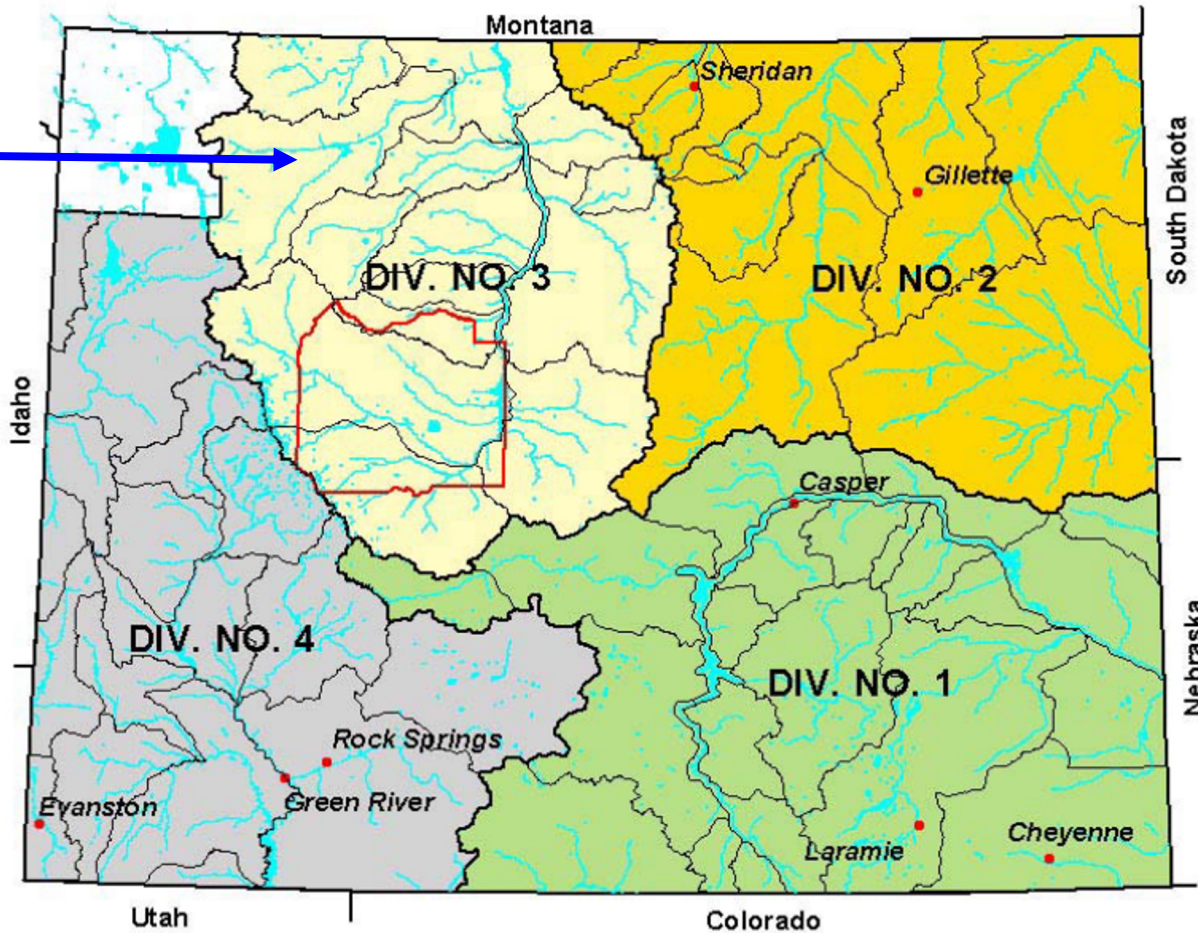
David
Schroeder,
674-7012

Division 4

Kevin Payne,
279-3441

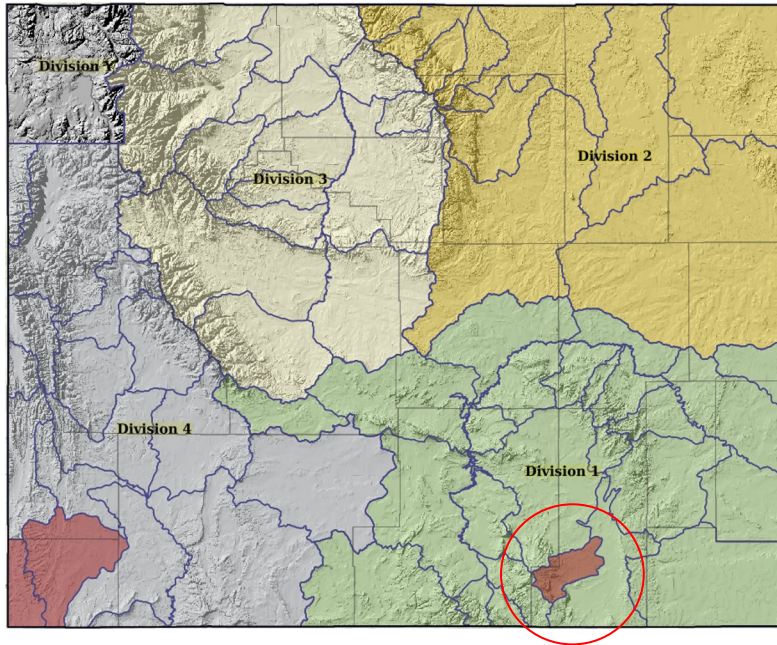
Division 1

Cory Rinehart,
532-2248





Division 1



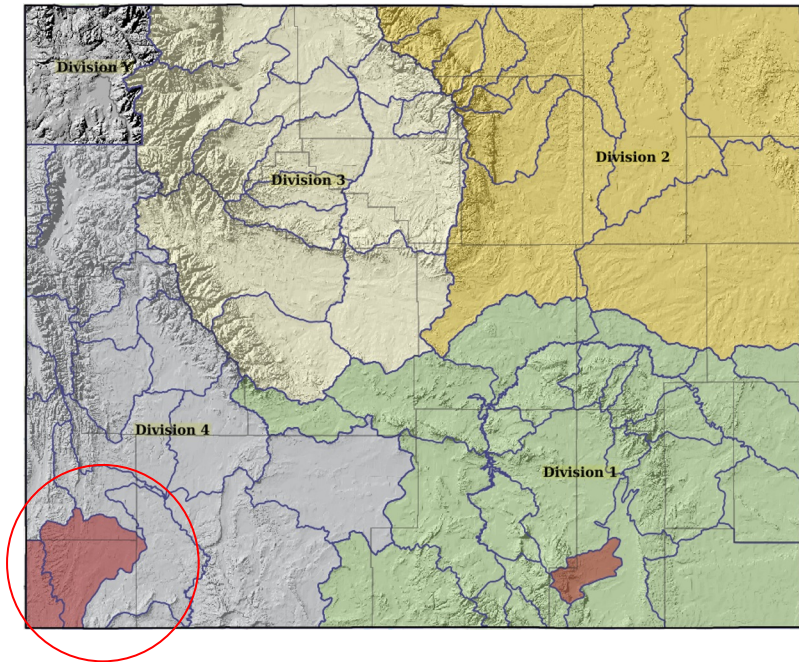
1. July 17, 2023 call on Little Laramie River and tribs, District 4B, to a priority date of May, 1882.
1. July 17, 2023 call on Little Laramie River and Tribs, District 4B, to a priority date of Spring, 1881.



Division 4

1. July 11, 2023 call on Smith's Fork River and tribs, District 4, to a priority date of April, 1875.

1. July 14, 2023 call on Black's Fork River and Tribs, District 15, to a priority date of 10/29/1909.





WY SEO Divisions and Superintendents

Contact information for calls and administration

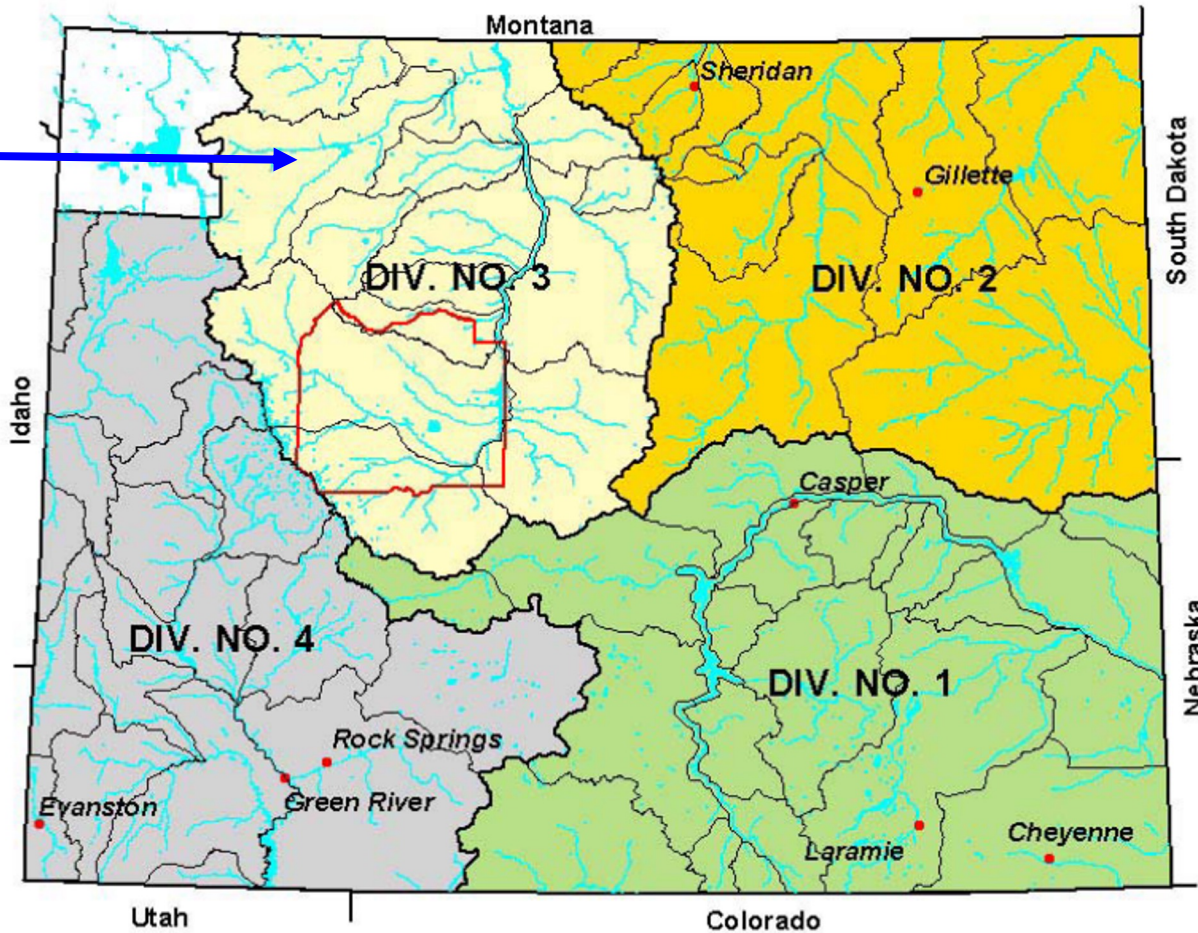
Division 3

Joshua
Fredrickson,
856-0747



Division 4

Kevin Payne,
279-3441



Division 2

David
Schroeder,
674-7012

Division 1

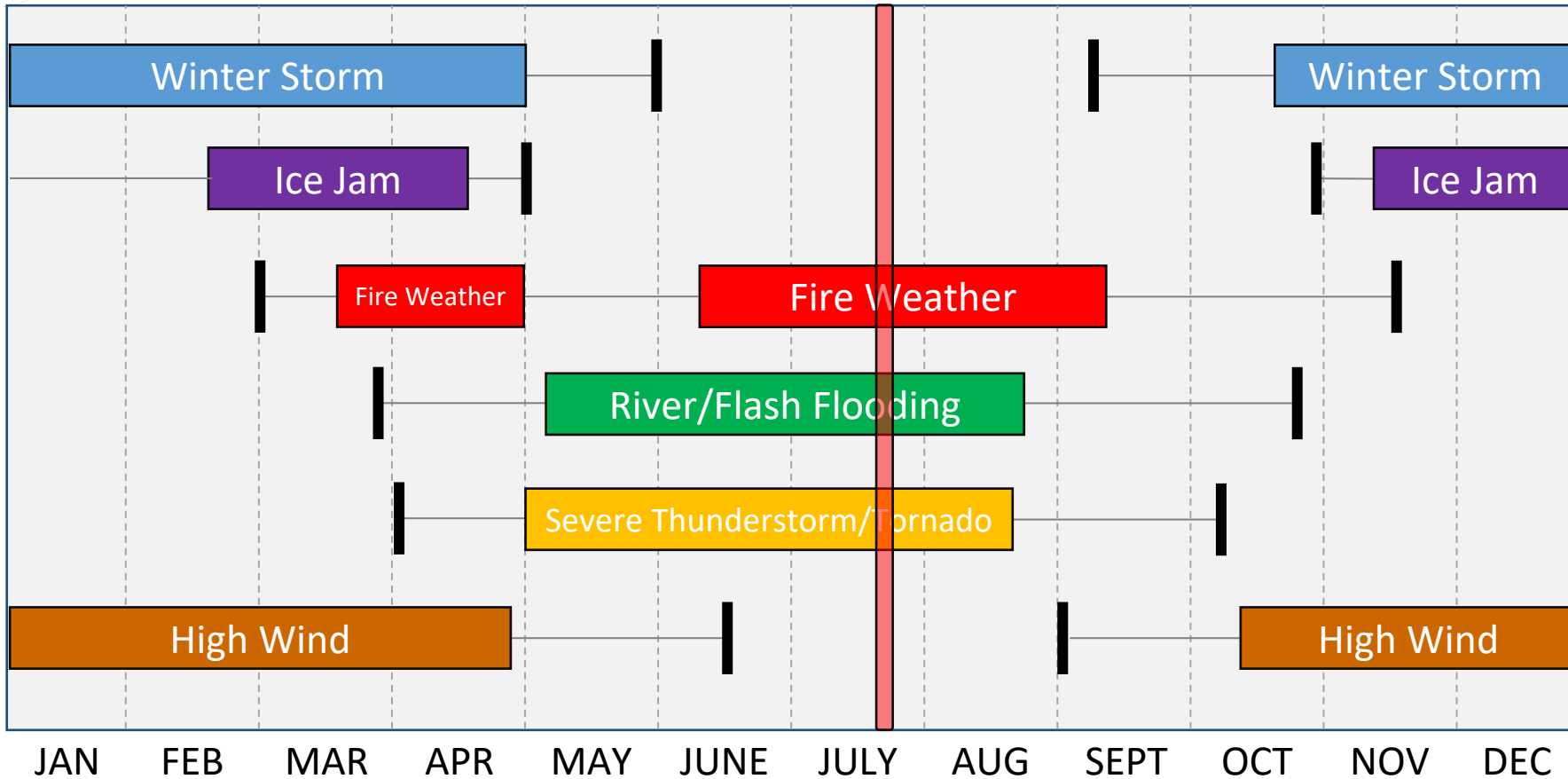
Cory Rinehart,
532-2248



Weather Info & Forecasts



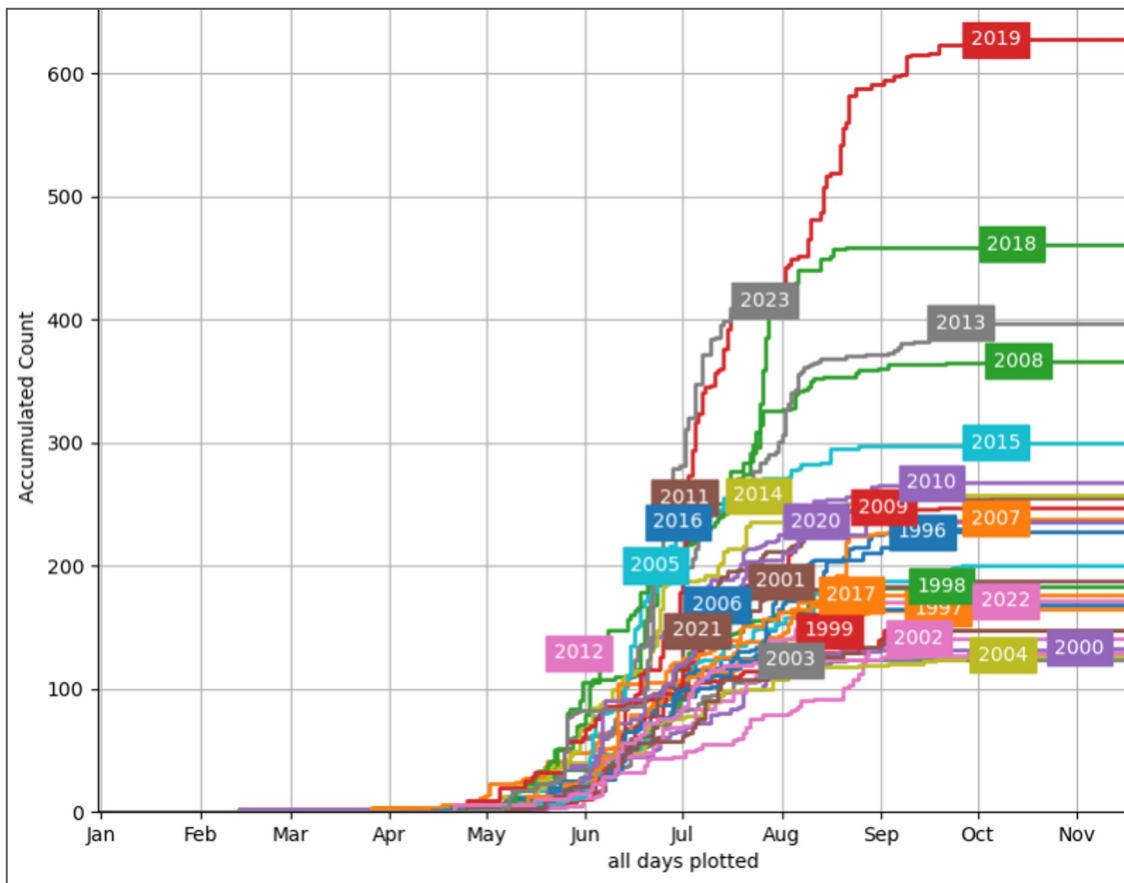
WY Weather Hazard "Calendar"





WY Severe Tstorm + Tornado Warning Count

Through 7/19/23

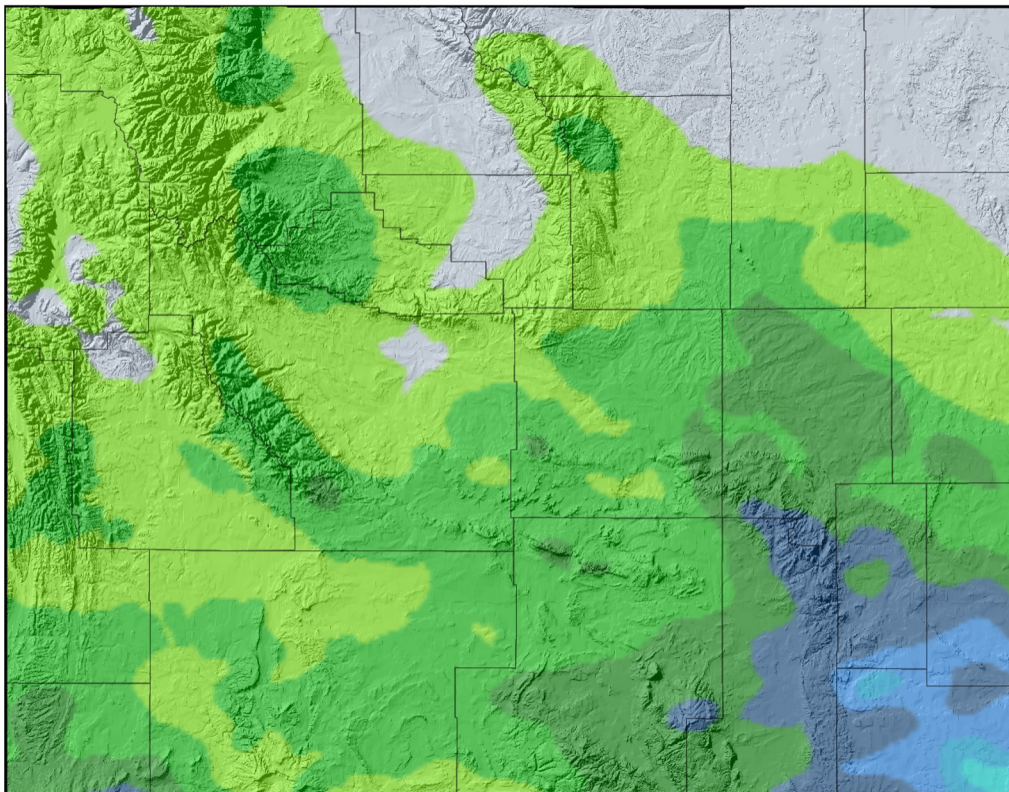


- On pace for record number of convective thunderstorm warnings
- Coincides with the wet weather late May through early July that WY has experienced
- Already a “Top 3” most active year by this statistic
 - 28 years of record
 - “Top 10% most active”



7-Day Total Precipitation Forecast

Through 7/26/23



Precipitation Amount (inches)



Forecast:
Weather Prediction Center



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



- Weather system forecast to bring 0.5 to 1.0" of rainfall to southeast WY this afternoon into the overnight hours
- Fairly dry this weekend through most of next week
- Isolated mountain showers and thunderstorms still possible



6-10 Day Outlooks (Jul 25 - 29)

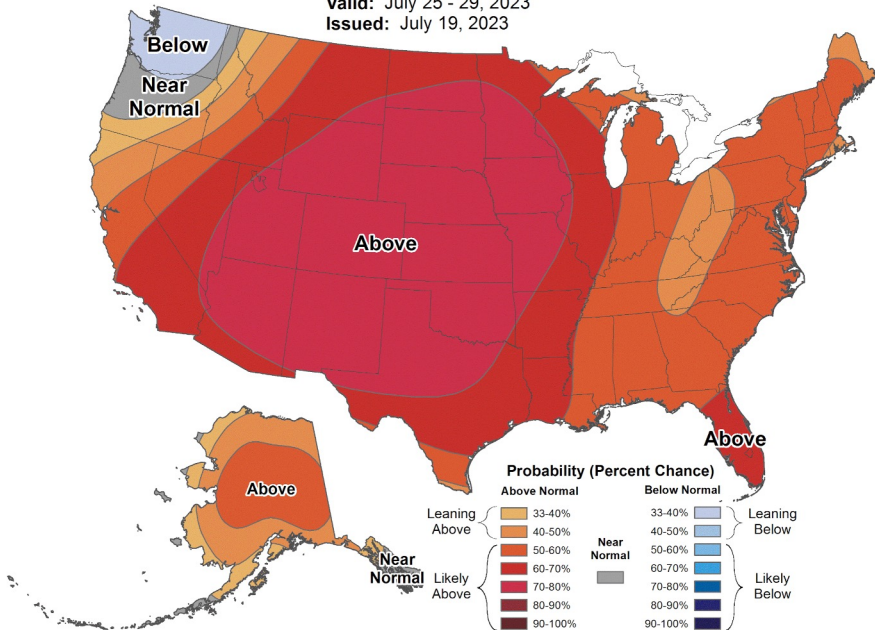
https://bit.ly/CPC6_10Day



6-10 Day Temperature Outlook



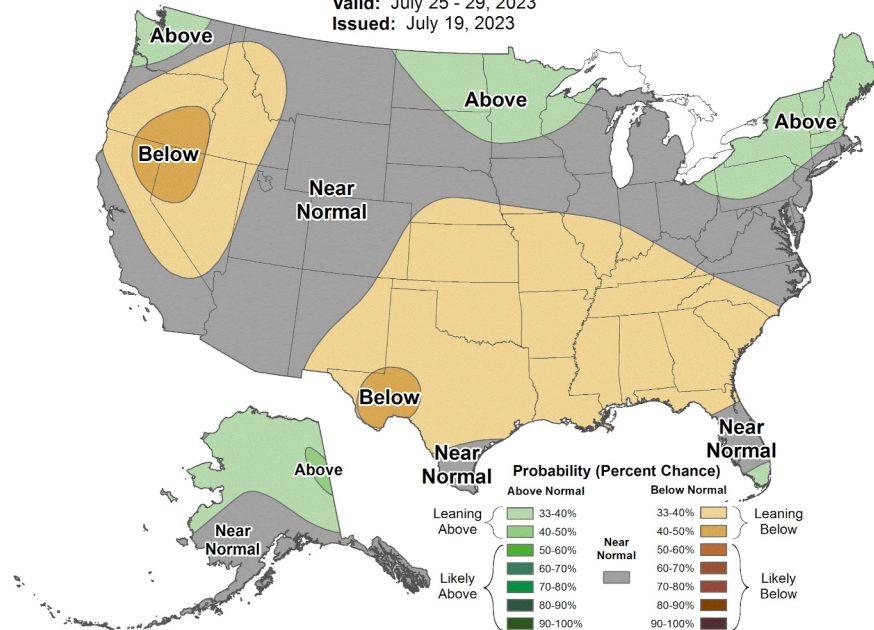
Valid: July 25 - 29, 2023
Issued: July 19, 2023



6-10 Day Precipitation Outlook



Valid: July 25 - 29, 2023
Issued: July 19, 2023



Very strong signal for above normal temperatures

Near climatology is best forecast



8-14 Day Outlooks

(Jul 27 - Aug 2)

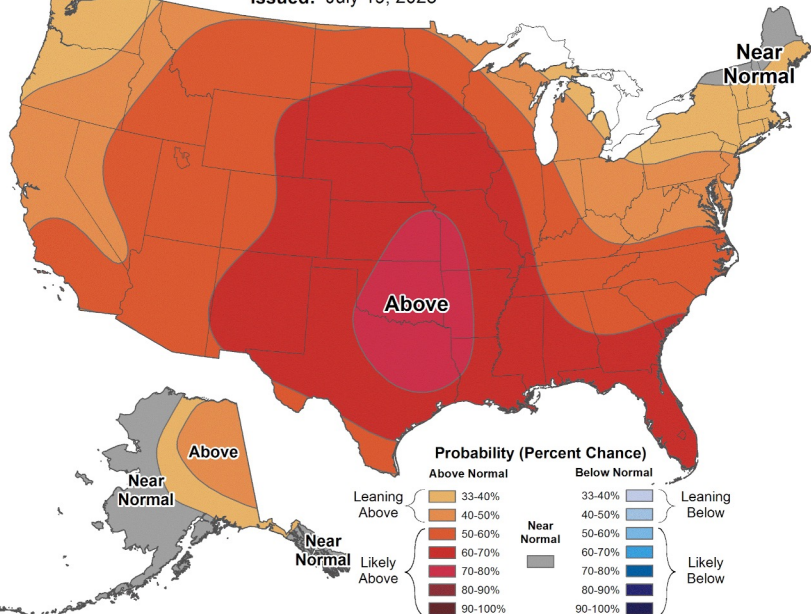
https://bit.ly/CPC8_14Day



8-14 Day Temperature Outlook



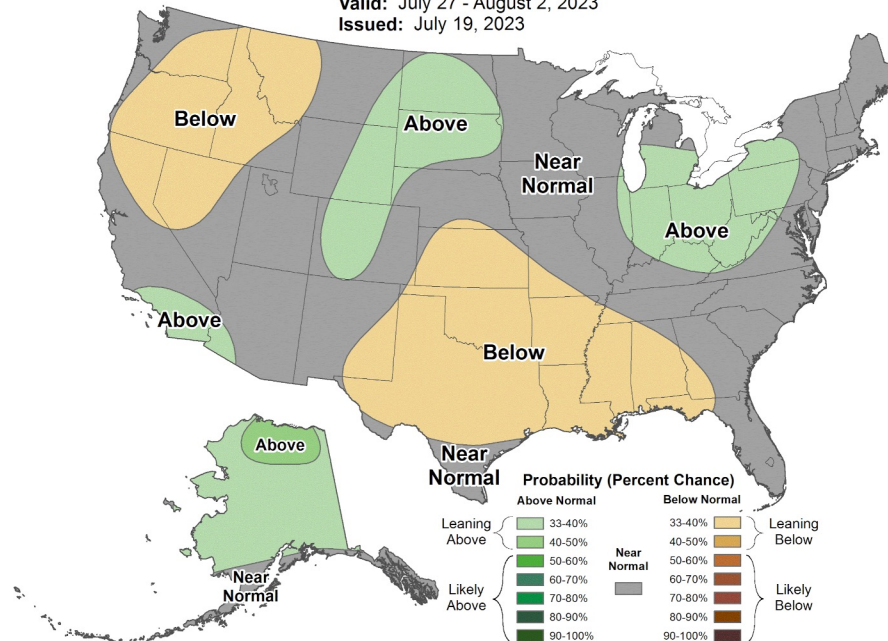
Valid: July 27 - August 2, 2023
Issued: July 19, 2023



8-14 Day Precipitation Outlook



Valid: July 27 - August 2, 2023
Issued: July 19, 2023



Warmer than normal remains most likely

Weak signal for above-normal precipitation across eastern Wyoming



3-Month Outlooks (Jul-Aug-Sep)

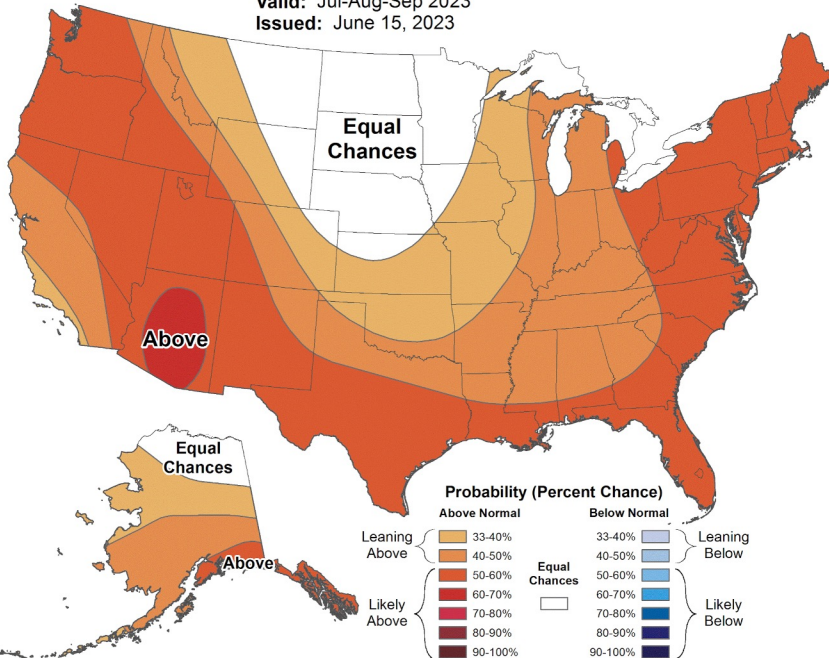
https://bit.ly/CPC_Seasonal



Seasonal Temperature Outlook



Valid: Jul-Aug-Sep 2023
Issued: June 15, 2023



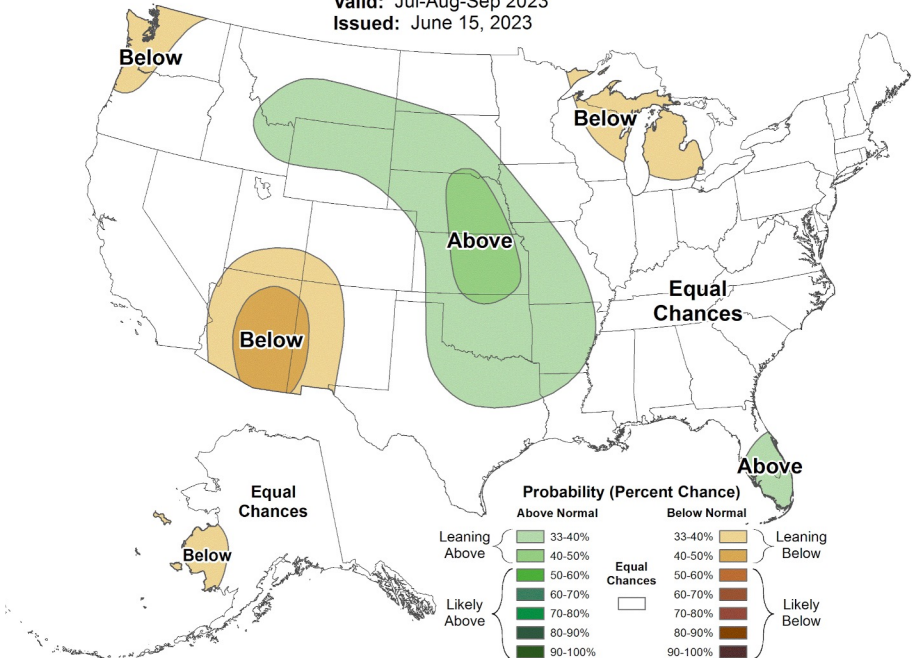
Lean toward above normal, most likely in southwest



Seasonal Precipitation Outlook



Valid: Jul-Aug-Sep 2023
Issued: June 15, 2023



Weak signal for above-normal precipitation across north 2/3 of Wyoming

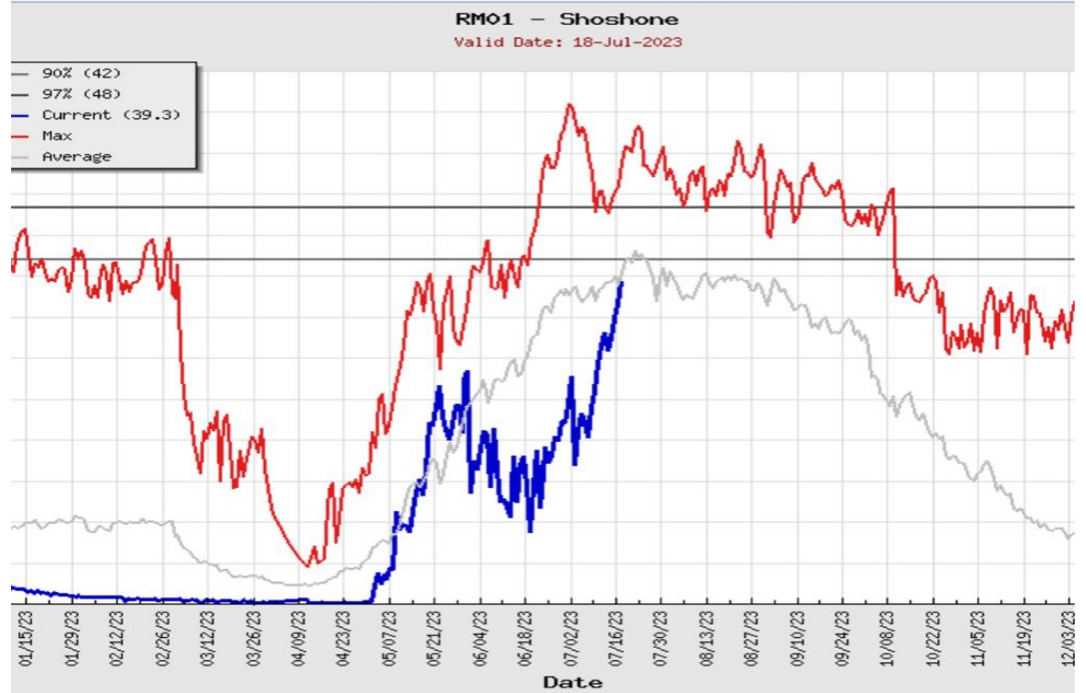
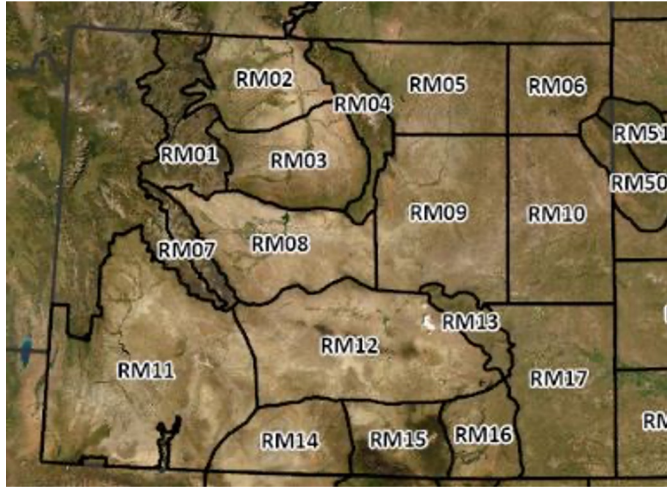


Fuel Moisture and Energy Release Component (ERC) -Definitions and Explanations

- **Live Fuel Moisture**- Influenced by seasonality, species characteristics and available moisture (soil and air).
- **Dead Fuel Moisture**- Influenced by precipitation and relative humidity. 4 Size Classes based on “Time Lag”, simply explained as the amount of time it takes the fuel to adjust to closely resemble the humidity of its surrounding environment.
 - **1 Hour Fuels**
 - Less than 1/4" diameter.
 - Fine flashy fuels that respond quickly to weather changes. Computed from observation time temperature, humidity, and cloudiness.
 - **10 Hour Fuels**
 - 1/4 to 1" diameter.
 - Computed from observation time temperature, humidity, and cloudiness. Or can be an observed value, from a standard set of "10-Hr Fuel Sticks" that are weighed as part of the fire weather observation.
 - **100 Hour Fuels**
 - 1 to 3" diameter.
 - Computed from 24-hour average boundary condition composed of day length, hours of rain, and daily temperature/humidity ranges.
 - **1000 Hour Fuels**
 - 3 to 8 " diameter.
 - Computed from a 7-day average boundary condition composed of day length, hours of rain, and daily temperature/humidity ranges.
- **Energy Release Component (ERC)**- Related to the available energy (BTU) per unit area (square foot) within the flaming front at the head of a fire. The ERC is considered a composite fuel moisture index as it reflects the contribution of all live and dead fuels to potential fire intensity.

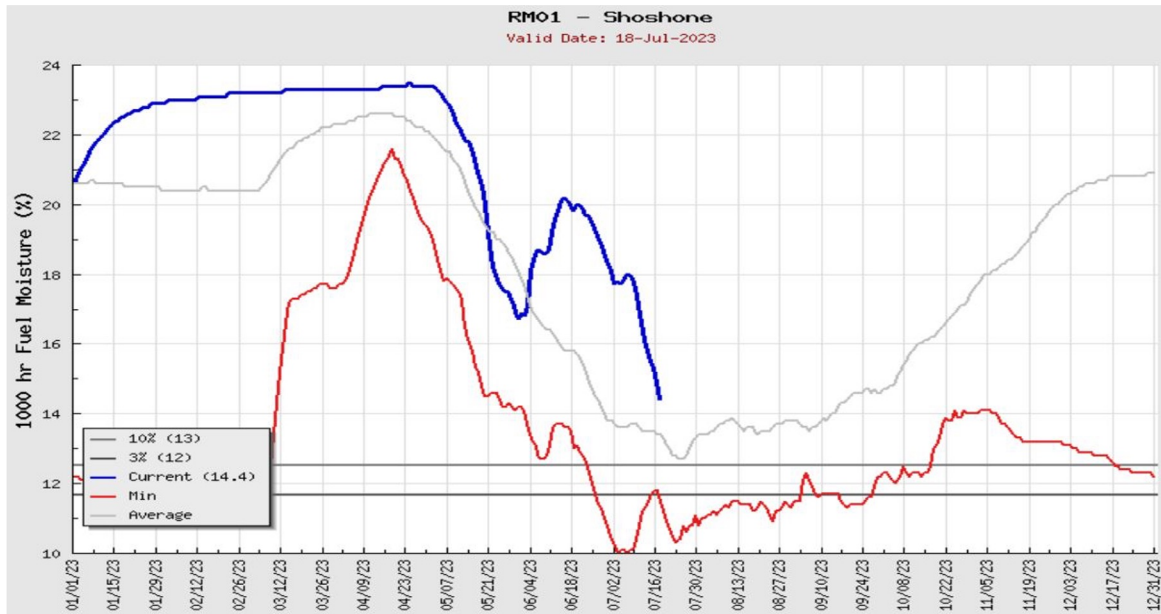
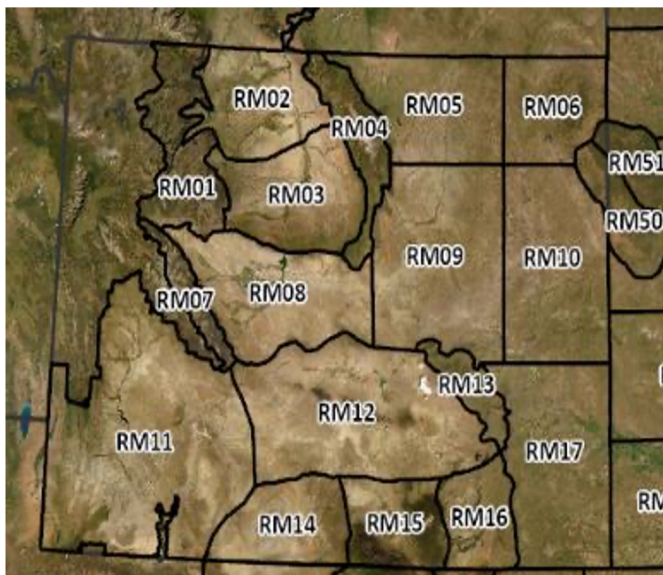


Current Fuels Conditions- 1,000Hr Dead Fuels and ERC





Current Fuels Conditions- 1,000Hr Dead Fuels and ERC

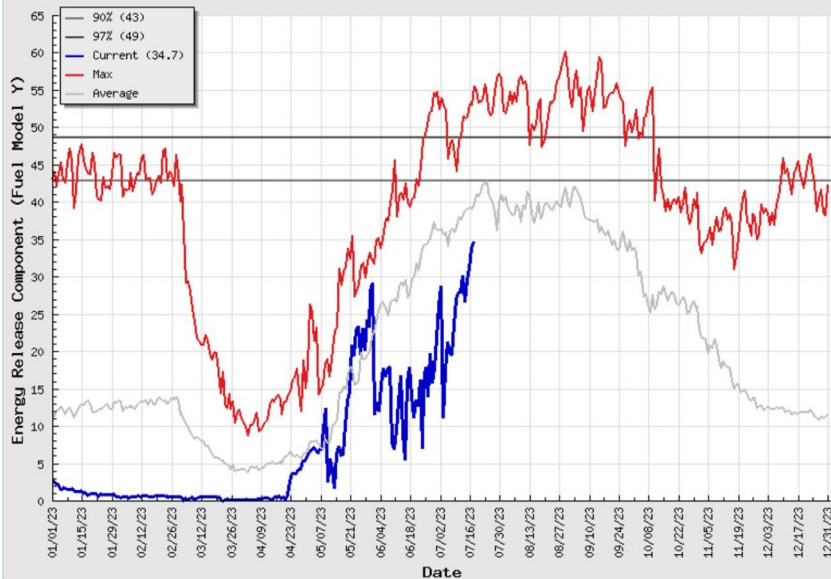




Current Fuels Conditions- 1,000Hr Dead Fuels and ERC

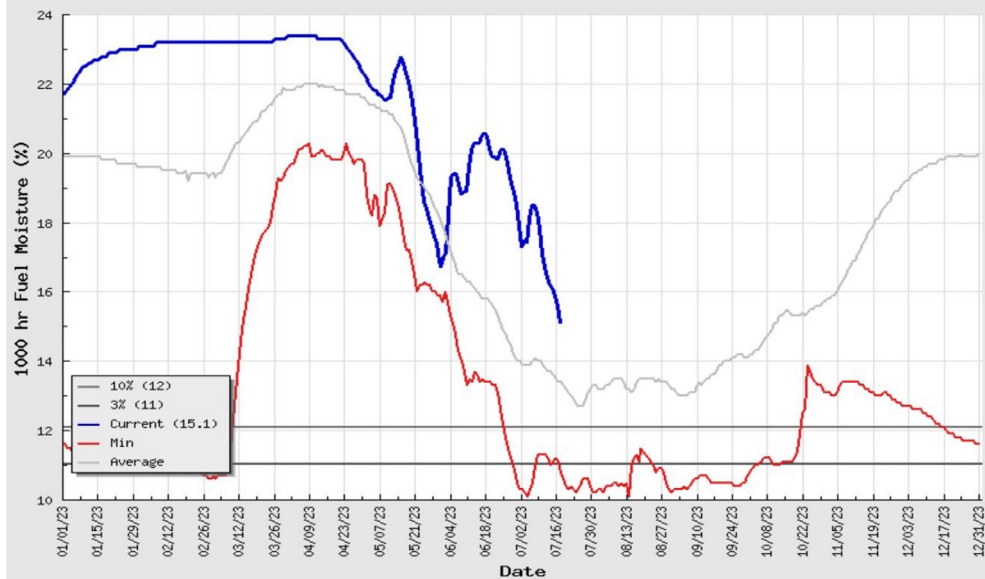
RM04 - Big Horn Mountains

Valid Date: 18-Jul-2023



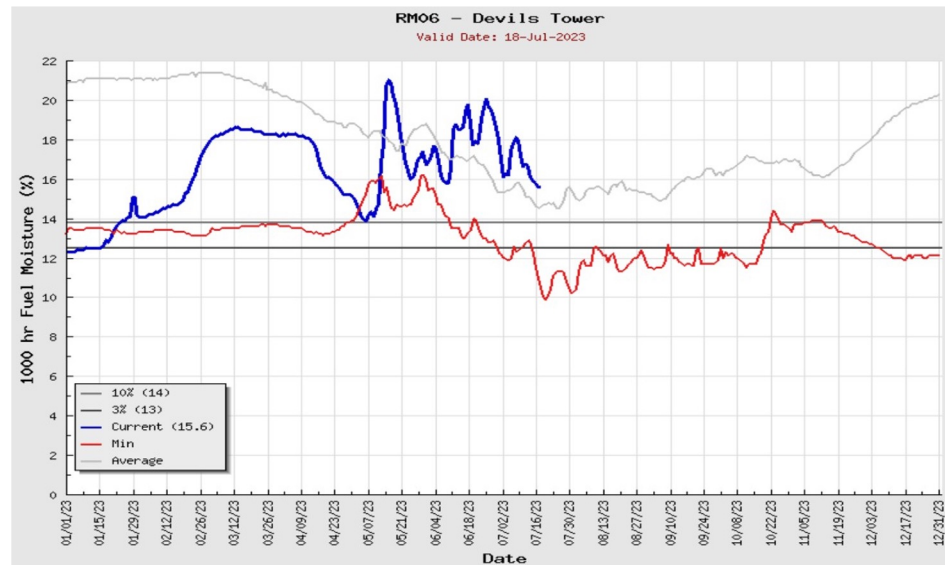
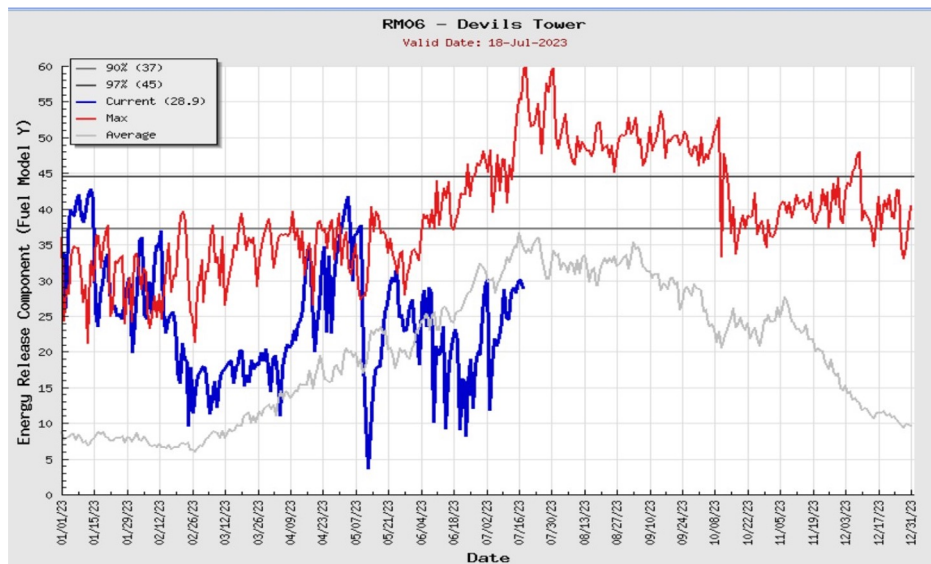
RM04 - Big Horn Mountains

Valid Date: 18-Jul-2023



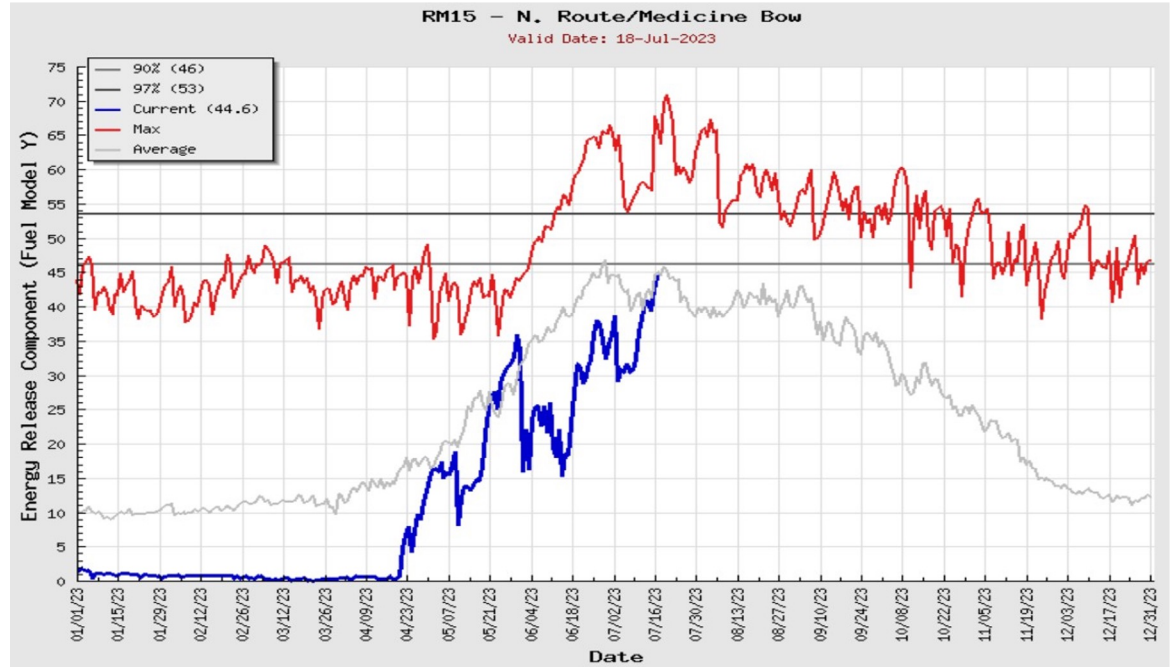
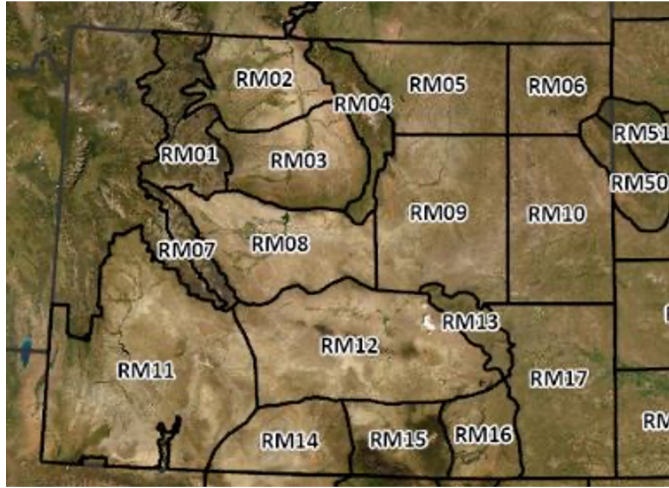


Current Fuels Conditions- 1,000Hr Dead Fuels and ERC



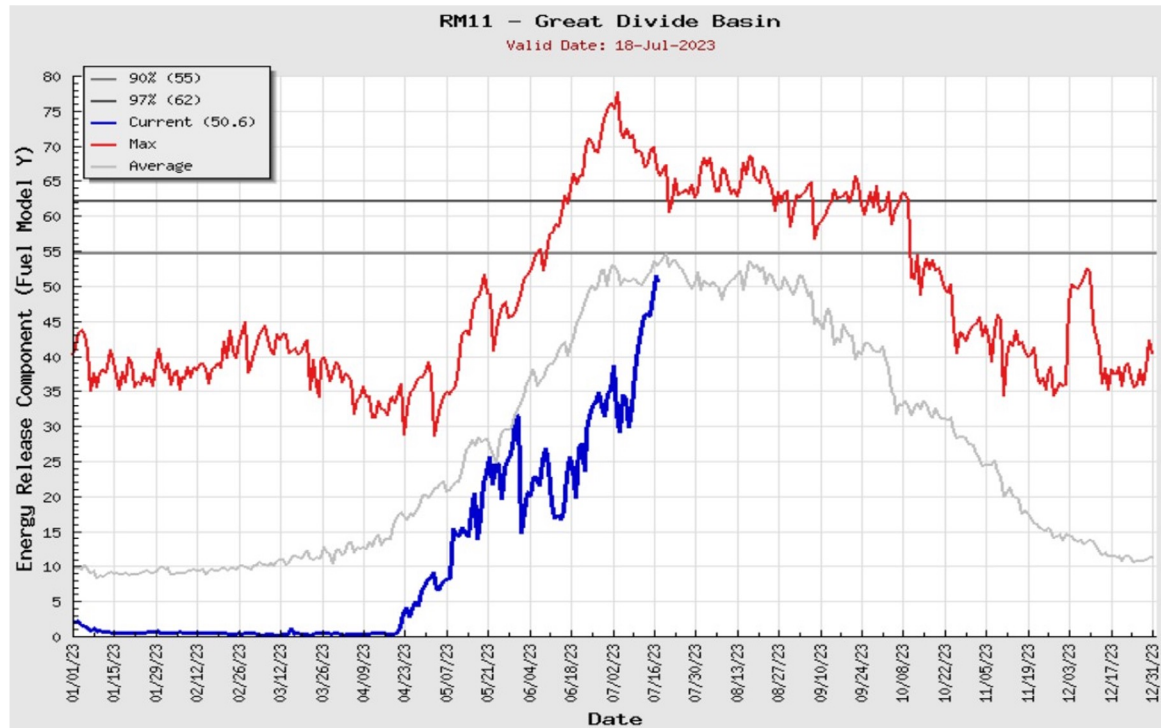
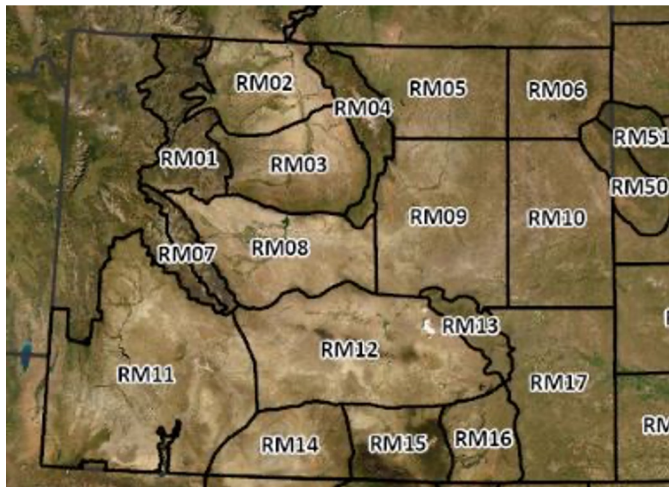


Current Fuels Conditions- 1,000Hr Dead Fuels and ERC





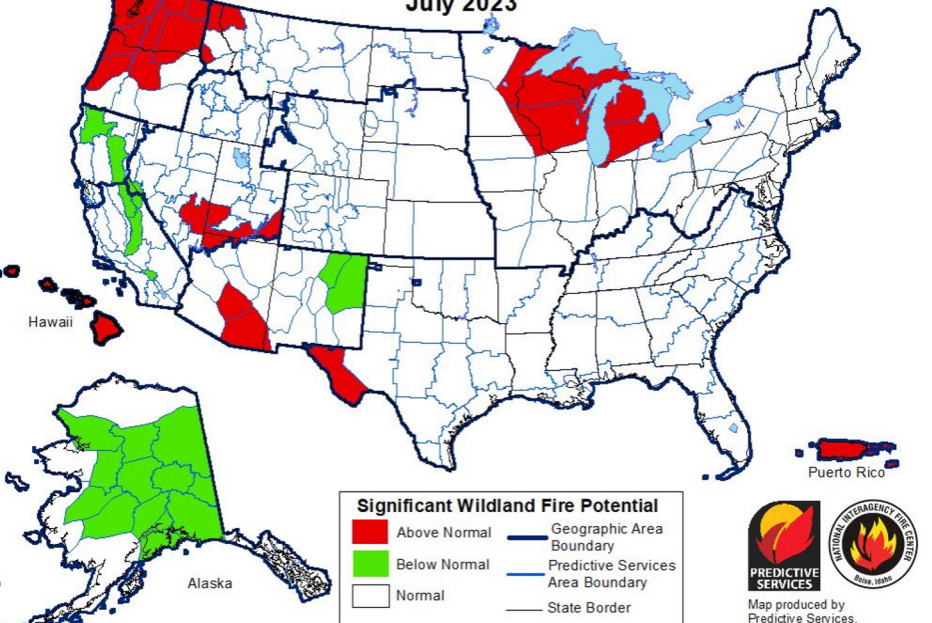
Current Fuels Conditions- 1,000Hr Dead Fuels and ERC





National Fire Danger Outlook

Significant Wildland Fire Potential Outlook July 2023



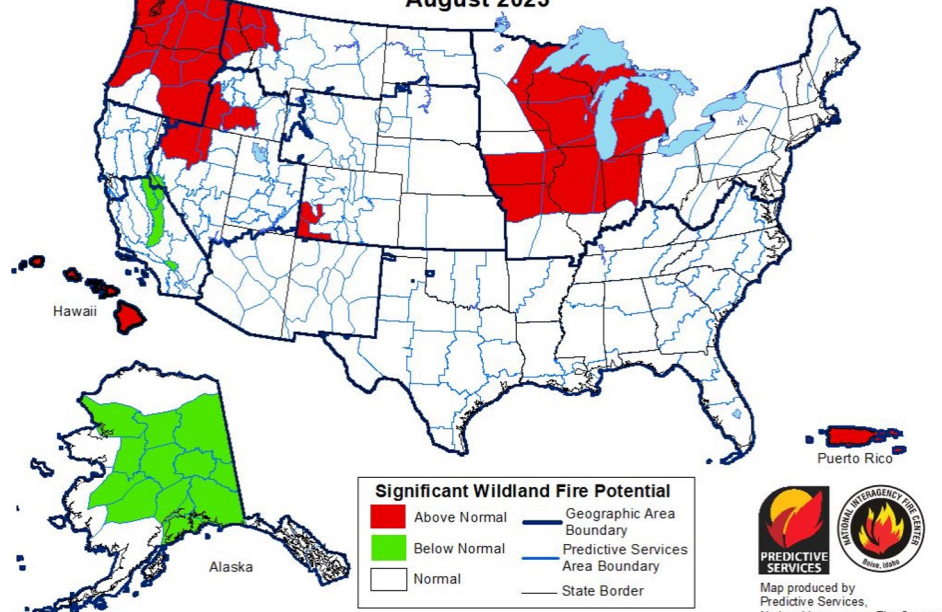
Significant Wildland Fire Potential	
Above Normal	Geographic Area Boundary
Below Normal	Predictive Services Area Boundary
Normal	State Border



Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued July 1, 2023
Next issuance August 1, 2023

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.

Significant Wildland Fire Potential Outlook August 2023



Significant Wildland Fire Potential	
Above Normal	Geographic Area Boundary
Below Normal	Predictive Services Area Boundary
Normal	State Border



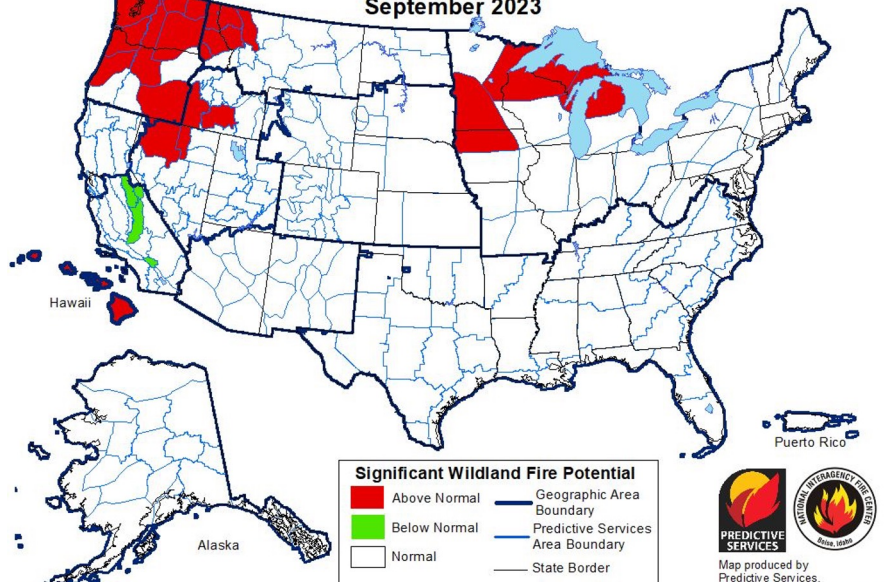
Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued July 1, 2023
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Above normal significant wildland fire potential indicates a greater than usual likelihood that significant wildland fires will occur. Significant 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.



National Fire Danger Outlook

Significant Wildland Fire Potential Outlook September 2023

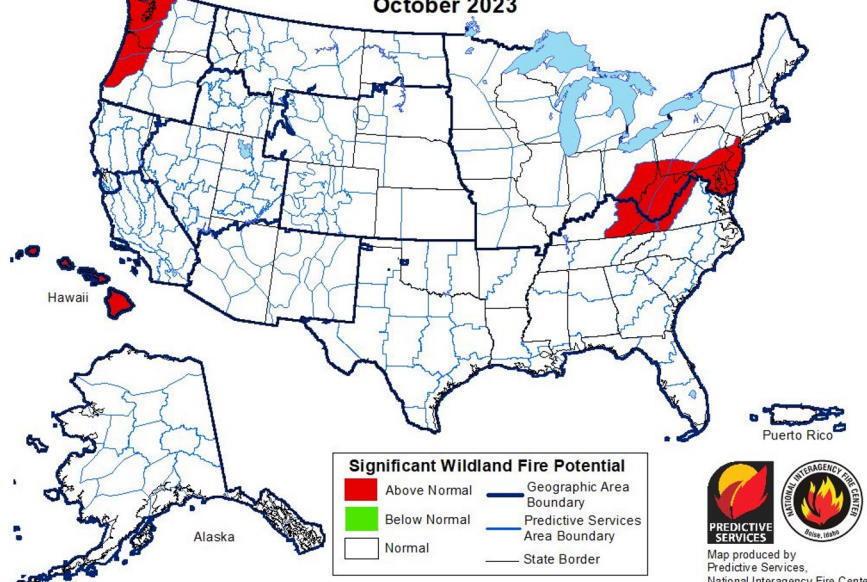


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Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued July 1, 2023
Next issuance August 1, 2023

Significant Wildland Fire Potential Outlook October 2023



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 July 1, 2023
Next issuance August 1, 2023



Highlight of the Month:

Wildland Fire Information and Resources



Wildland Fire Information- Current Incidents

Inciweb

- <https://inciweb.wildfire.gov/>
- Used for large wildfires and some prescribed fires
- Only as good as the people making inputs

Incident Overview

Click on the following words to see related information.

[News](#) [Maps](#) [Closures](#) [Photos](#) [Videos](#) [Announcements](#)

The Spring Creek Fire transitioned from a Type 3 to a Type 4 incident on Monday, July 17th. This change to a smaller organization is possible due to the successful suppression efforts; additional containment; and decreased fire behavior and intensity. Thank you for your support of the teams and firefighters assigned to this fire.

The Spring Creek Fire started on Saturday, June 24. Firefighters and aircraft worked to keep the fire to about 200 acres on a mix of private and Bureau of Land Management-administered land. Hot, dry, windy conditions aligned with terrain on June 26, causing the fire to make a significant run growing to more than 2,500 acres. Rocky Mountain Area Complex Incident Management Team Two assumed command of the fire June 28.

The varied fuels and extreme terrain presented substantial challenges to firefighters during containment efforts. Crews used a variety of tactics including direct handline against the black fire's edge and indirect tactics where terrain would not allow firefighters to safely engage.

Firefighters are now mopping up hotspots, providing suppression repair to disturbed firelines and patrolling firelines. Personnel are removing equipment no longer needed on the fireline. Smoke will be intermittently present for some time both from the smoldering fire and from exposed oil shale.

Spring Creek Road and High Mesa Road are open to restricted traffic only. Please avoid these areas if possible and drive with caution with increase in fire personnel on the roadway.

Closures: There are no closure orders in place at this time.

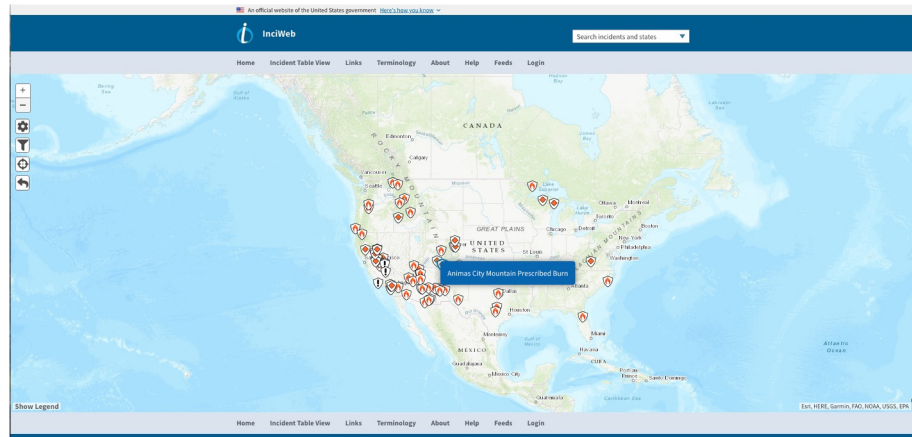
Evacuations: There are no evacuations at this time. Residents are encouraged to register with Garfield County's emergency notification system at: Garfield County Emergency Communications Authority (garco911.com). All evacuation orders will be conducted through the Sheriff's office. Call recorded message line at 970-981-3401 for current evacuation information

Temporary Flight Restrictions: There is a TFR (FDC 03/0215) in place for air space over the Spring Creek Fire to reduce impacts to fire aviation operators. Fire aviation response is halted or delayed if an unauthorized aircraft enters the TFR. Temporary flight restrictions also apply to unmanned aircraft system (UAS) or drones. If you fly, we can't!

Additional information can also be found on the [Upper Colorado River Interagency Fire Management Unit Facebook page](#) and older information on the [Spring Creek Fire Facebook page](#). Additional information may be found on the [Bureau of Land Management website](#) or by calling 970-200-6195.



Expand Image: [Full Size]

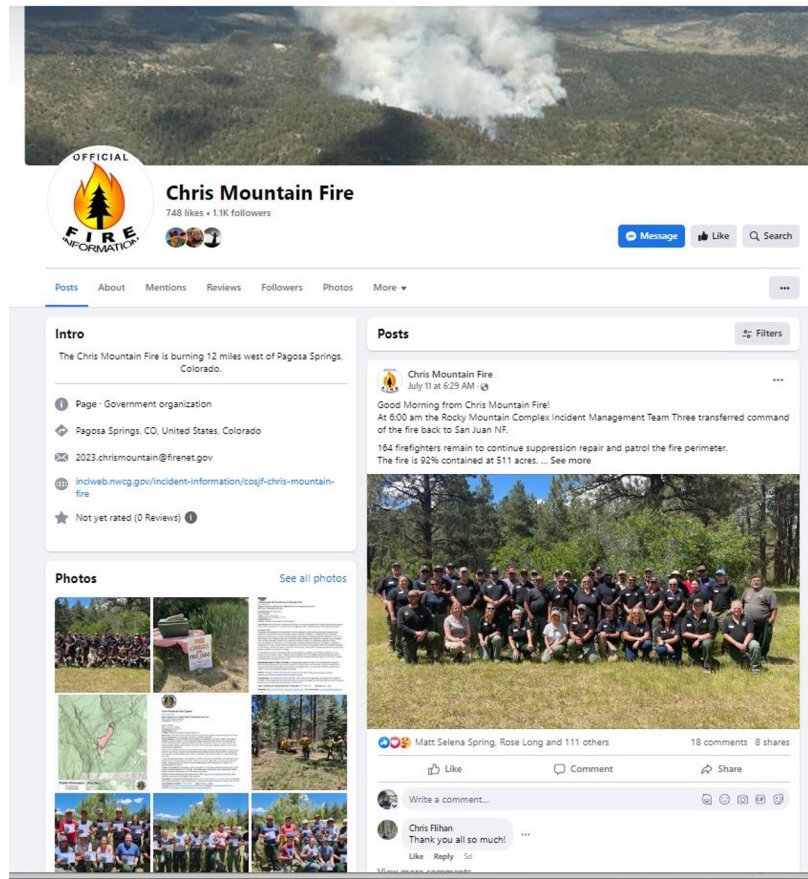
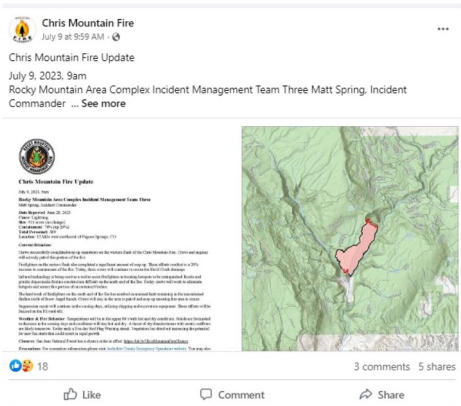




Wildland Fire Information- Current Incidents

Facebook

- Individual profiles for fires
- Easily accessible from mobile devices
- Allows back and forth with Incident Mgmt Team
- Variety of content such as maps, videos, photos etc...
- Notifications of public meetings may be posted here.





Wildland Fire Information- RMACC Predictive Services

Rocky Mountain Area Coordination Center

- Variety of products and outlooks
- Video formats for seasonal and weekly outlooks for Rocky Mtn Area (RMA)
- Heavily focused on fire weather- Fuels Conditions not as much
- Quality and consistency dependent on staffing

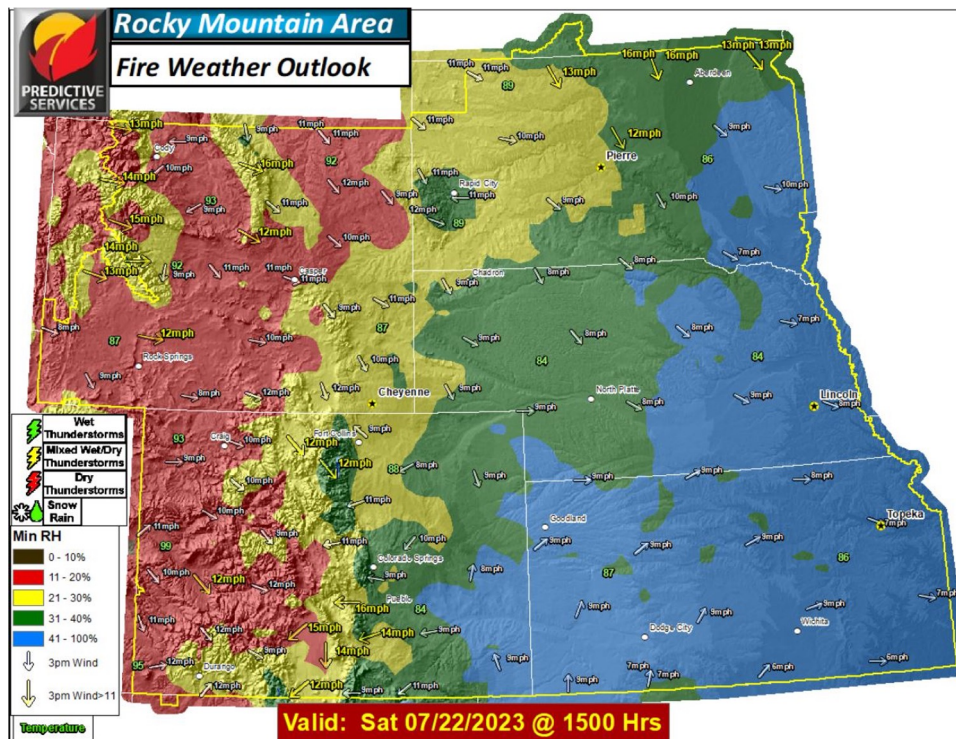
The screenshot displays the website for the Rocky Mountain Area Coordination Center (RMACC). The header includes the BLM logo, the text "Rocky Mountain Area Coordination Center" and "An Interagency Incident Support Website", and contact information for the Denver Federal Center. A navigation menu lists: HOME, INFORMATION, PREDICTIVE SERVICES, LOGISTICS, ADMINISTRATIVE, DISPATCH CENTERS, RELATED LINKS, ABOUT US, and CONTACT US. The main content area is titled "Predictive Services Outlooks" and features four product thumbnails: "RMA Seasonal Briefing Video" (with a PDF Link), "RMA Fire Potential Briefing", "National 7-Day Fire-Potential Outlook (Map and Table)", and "7-Day North American Monsoon Precipitation Outlook". Below this is a section titled "Day 1-7 Fire Weather Outlook Maps" which displays a grid of eight maps showing fire weather outlooks for the Rocky Mountain Area (Loop) for each day from Day 1 to Day 7.



Wildland Fire Information- RMACC Predictive Services

Fire Weather Outlook

- Weather based, must be cross referenced with fuels condition.
- Temperature, Humidity, Wind (HDW)
- Video Briefing



Fire Potential Briefing

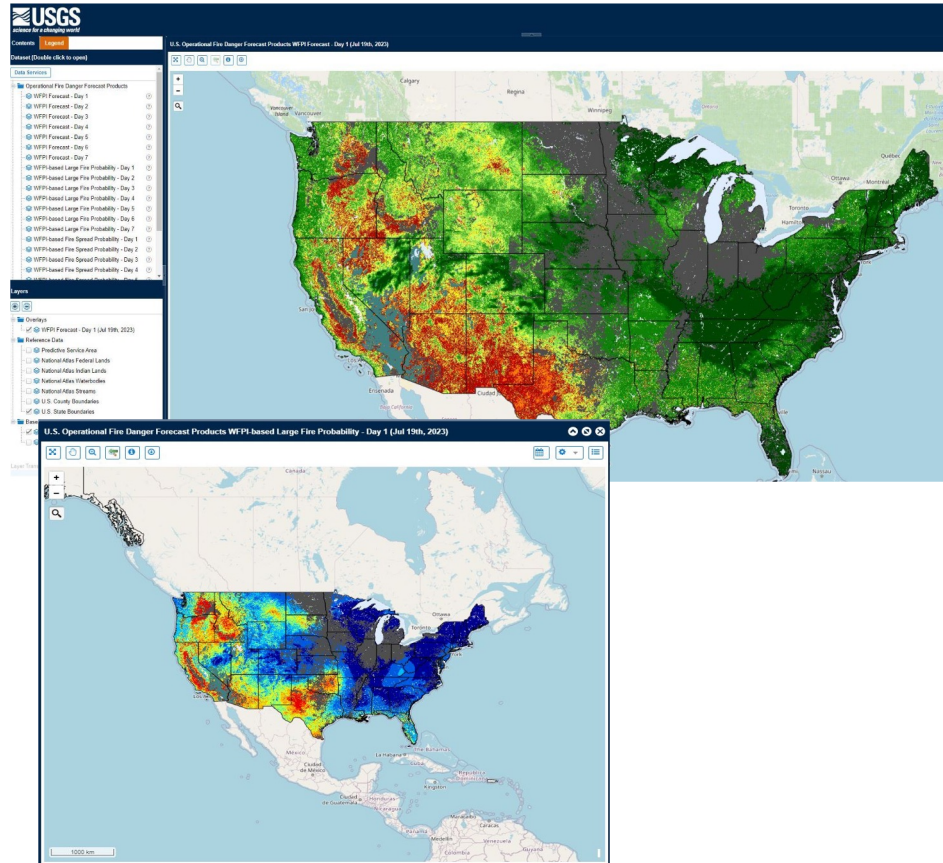
Tuesday, July 18, 2023

Nickolai Reimer
Wildland Fire Meteorologist, RMACC

The graphic features a central circular diagram divided into four quadrants. The top-left and bottom-left quadrants show a fire scene, while the top-right and bottom-right quadrants show a storm scene. The diagram is surrounded by logos of various agencies, including the U.S. Forest Service, U.S. Department of the Interior, Bureau of Land Management, and others. The text 'Fire Potential Briefing' is prominently displayed at the top, and 'Tuesday, July 18, 2023' is below it. At the bottom, the name 'Nickolai Reimer' and title 'Wildland Fire Meteorologist, RMACC' are provided.



Wildland Fire Information- Fire Danger and Outlooks- Newer Products



Wildland Fire Potential Index

- Vegetation greenness, 10-hour dead fuel moisture, wind speed, rain, and temperature
- NDVI- Normalized Difference Vegetation Index
 - Allows comparison between current values and historical values to determine Relative Greenness.

Challenges

- Coupling forecast weather conditions to existing fuels conditions has always been challenging.
- Red Flag Warnings are a good example
- Recent developments in remote sensing and data interpretation are helping reduce human workload.
- Snow Flags, Green-Up, etc... used to be human inputs



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Lance VandenBoogart

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Get Involved!

Submit a *Condition Monitoring Observer Report*



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US Geological Survey

afiaschetti@usgs.gov

Casey Cheesbrough

Bureau of Land Management (BLM)

ccheesbrough@blm.gov

Michelle Gess

WY State Engineer's Office

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Windy Kelley

UW Extension & USDA Northern Plains Climate Hub

wkelly1@uwyo.edu

The WY 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 WY weekly – and communicate this info to the U.S. Drought Monitor & others.

Learn more at:

<https://drought.wyo.gov>

Thank you!

Name of Website	Brief Description + Frequency Updated	URL
NIFC Predictive Services Outlooks	Daily and Monthly dependent on product	https://www.nifc.gov/nicc/predictive-services/outlooks
Rocky Mountain Area Coordination Center- Predictive Services (ERC, and Fuel Moisture Map)	Daily	https://gacc.nifc.gov/rmcc/predictive/erc_bi_100_1000_map.htm
Rocky Mountain Area Coordination Center- Predictive Services (Outlooks)	Daily and Weekly	https://gacc.nifc.gov/rmcc/outlooks1.php
Iowa State University IEM NWS Automated Data Plotter	Daily	https://mesonet.agron.iastate.edu/plotting/auto/?q=44
USGS Fire Danger Forecast Tools	Daily	https://www.usgs.gov/fire-danger-forecast