



— BUREAU OF —
RECLAMATION



WY Conditions & Outlooks:

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

June 16, 2022



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Presentation Outline

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



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RECLAMATION



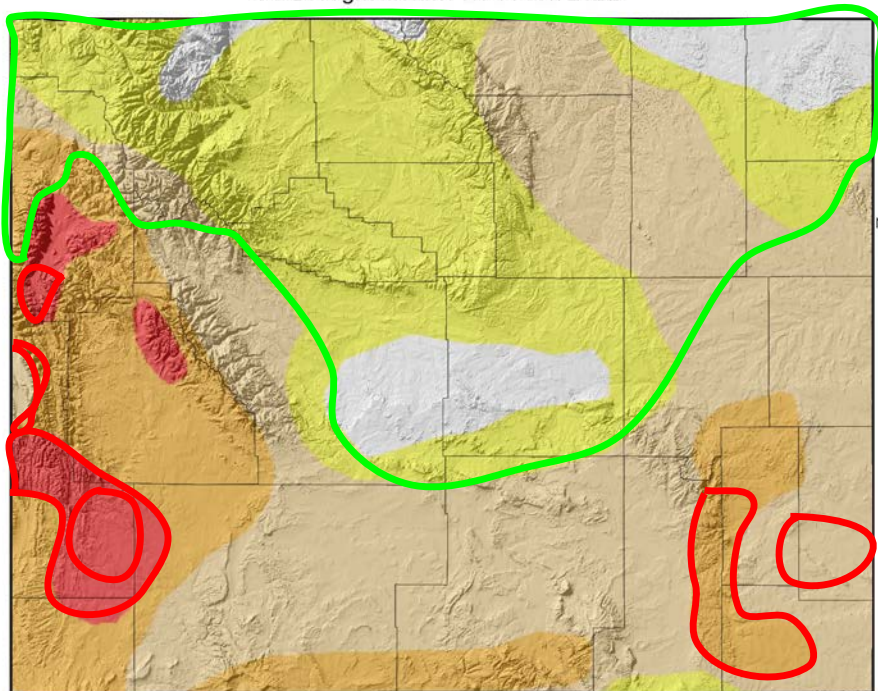
Current Conditions

US Drought Monitor for June 14, 2022

(Released Thursday, June 16, 2022)

Valid 8 a.m. EDT

US Drought Monitor for 14 Jun 2022



US Drought Monitor	
26.75%	D0 Abnormally Dry
45.50%	D1 Moderate Drought
18.80%	D2 Severe Drought
5.11%	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>

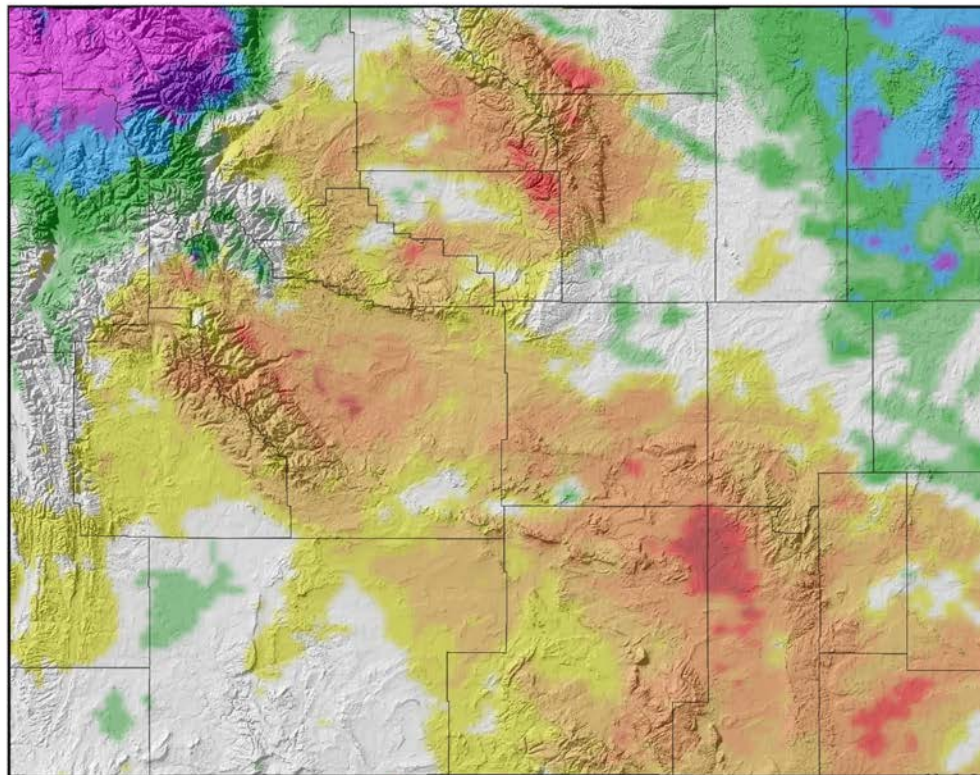
Improvements and **degradations** in the last month. Recent precipitation is starting to erode some of the areas but longer term dryness is filling in others.

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 16 Jun 2022 <http://www.wrds.uwyo.edu>

14-Day Precipitation Percentile (02 Jun 2022 to 15 Jun 2022)

14-Day Precipitation (Percentile) for 02 Jun 2022 to 15 Jun 2022



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

Daily precipitation data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>
Map Created 16 Jun 2022 <http://www.wrds.uwyo.edu>
Daily percentiles created from PRISM daily precipitation grids

Above Median:

- Northwest
- Northeast

Below Median (Areas of Concern):

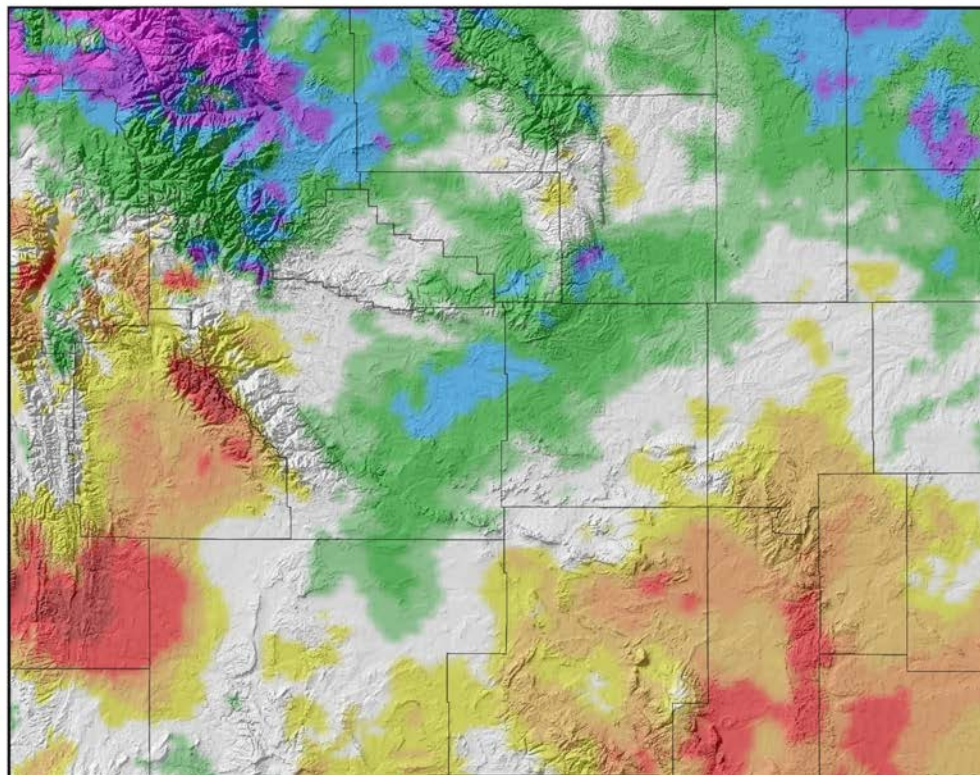
- Southeast
- Bighorns and Bighorn Basin
- Fremont County

Above Median (Areas of Concern):

- Northwest

90-Day Precipitation Percentile (18 Mar 2022 to 15 Jun 2022)

90-Day Precipitation (Percentile) for 18 Mar 2022 to 15 Jun 2022



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

Daily precipitation data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>
Map Created 16 Jun 2022 <http://www.wrds.uwyo.edu>
Daily percentiles created from PRISM daily precipitation grids

Above Median:

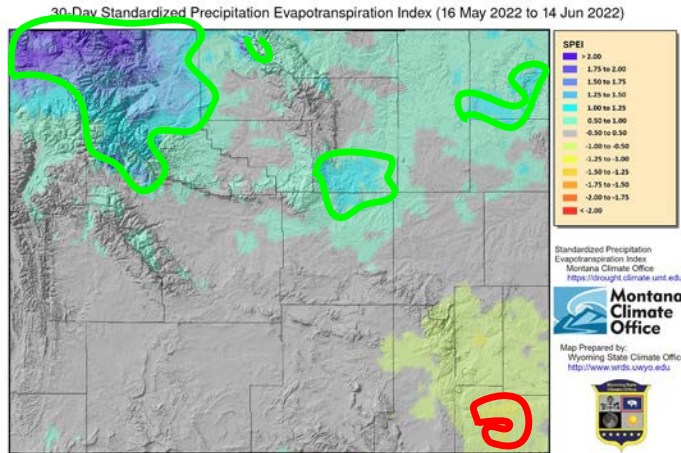
- Much of north and central Wyoming

Below Median (Areas of Concern):

- Tetons
- Sublette County (esp Winds)
- Southern Lincoln County
- Western Sweetwater County
- Southeast

Above Median (Areas of Concern):

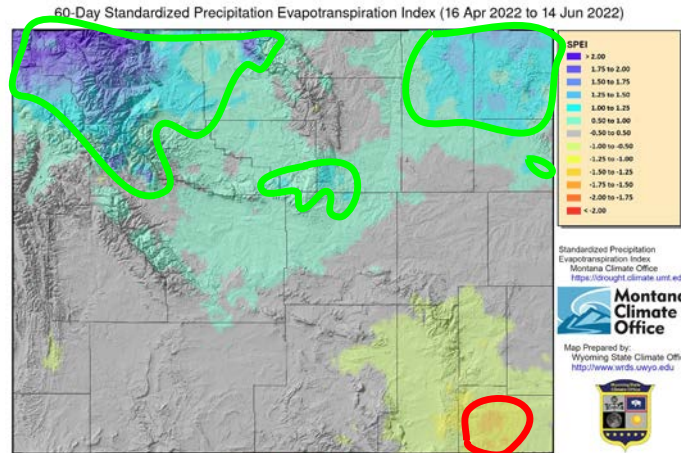
- Northwest



30-Day



60-Day



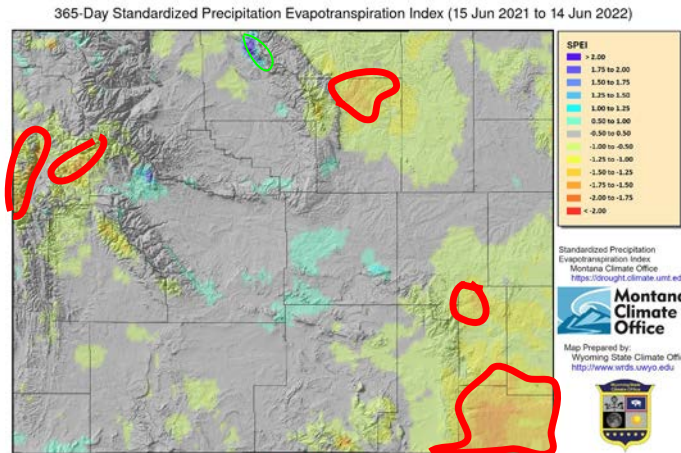
Provisional data, subject to revision
Standardized Precipitation Evapotranspiration Index Created by Montana Climate Office <https://drought.climate.umt.edu>
Map Created 16 Jun 2022 <http://www.wrds.uwyo.edu>

Provisional data, subject to revision
Standardized Precipitation Evapotranspiration Index Created by Montana Climate Office <https://drought.climate.umt.edu>
Map Created 16 Jun 2022 <http://www.wrds.uwyo.edu>

Standardized Precipitation Evapotranspiration Index (SPEI)

Medium-term wetness, longer-term dryness with areas improving in the southeast.

1-Year

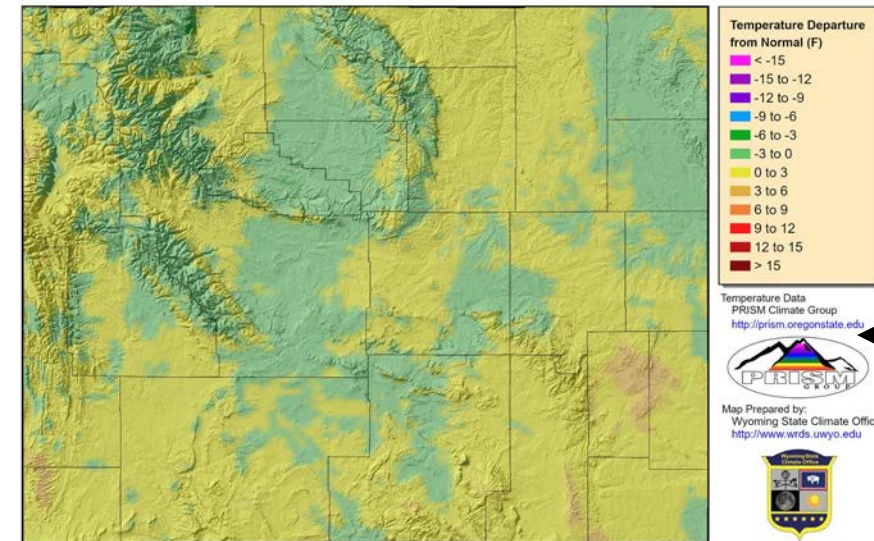


Provisional data, subject to revision
Standardized Precipitation Evapotranspiration Index Created by Montana Climate Office <https://drought.climate.umt.edu>
Map Created 16 Jun 2022 <http://www.wrds.uwyo.edu>

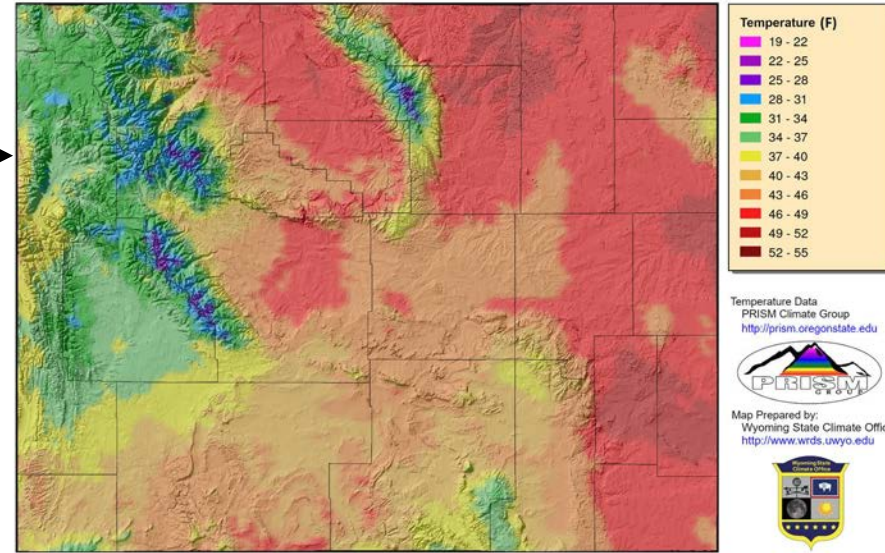
14-Day Average Minimum Temperature (02 Jun to 15 Jun)

- Lows still below 32F at Higher Elevs
- Upper 40s parts of north and east

14-Day Average Minimum Temperature (Departure from 1991-2020 Average) for 02 Jun 2022 to 15 Jun 2022



Provisional data, subject to revision



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 16 Jun 2022 <http://www.wrds.uwyo.edu>
Temperature averages created from PRISM daily temperature grids

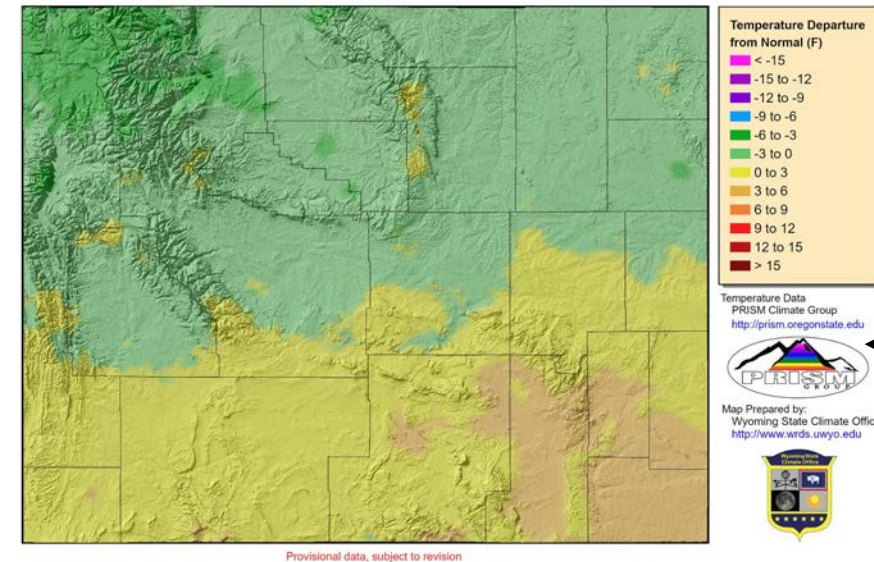
14-Day *Departure from Normal* Average Minimum Temperature

- +/- 3F Statewide with few areas as much as 6F above average

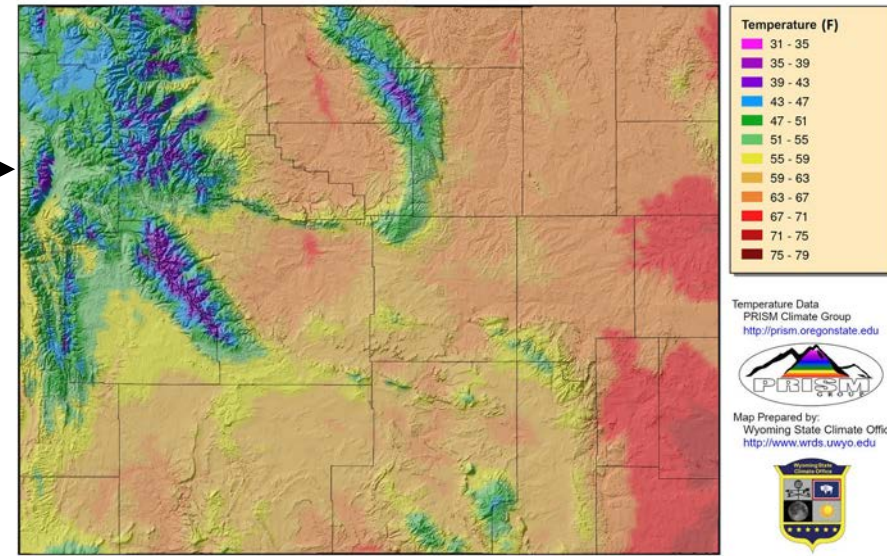
14-Day Average **Maximum** Temperature (02 Jun to 15 Jun)

- Average Max above mid-30sF statewide
- Low to Mid 70sF Southeast

14-Day Average Maximum Temperature (Departure from 1991-2020 Average) for 02 Jun 2022 to 15 Jun 2022



14-Day Average Maximum Temperature for 05 May 2022 to 18 May 2022

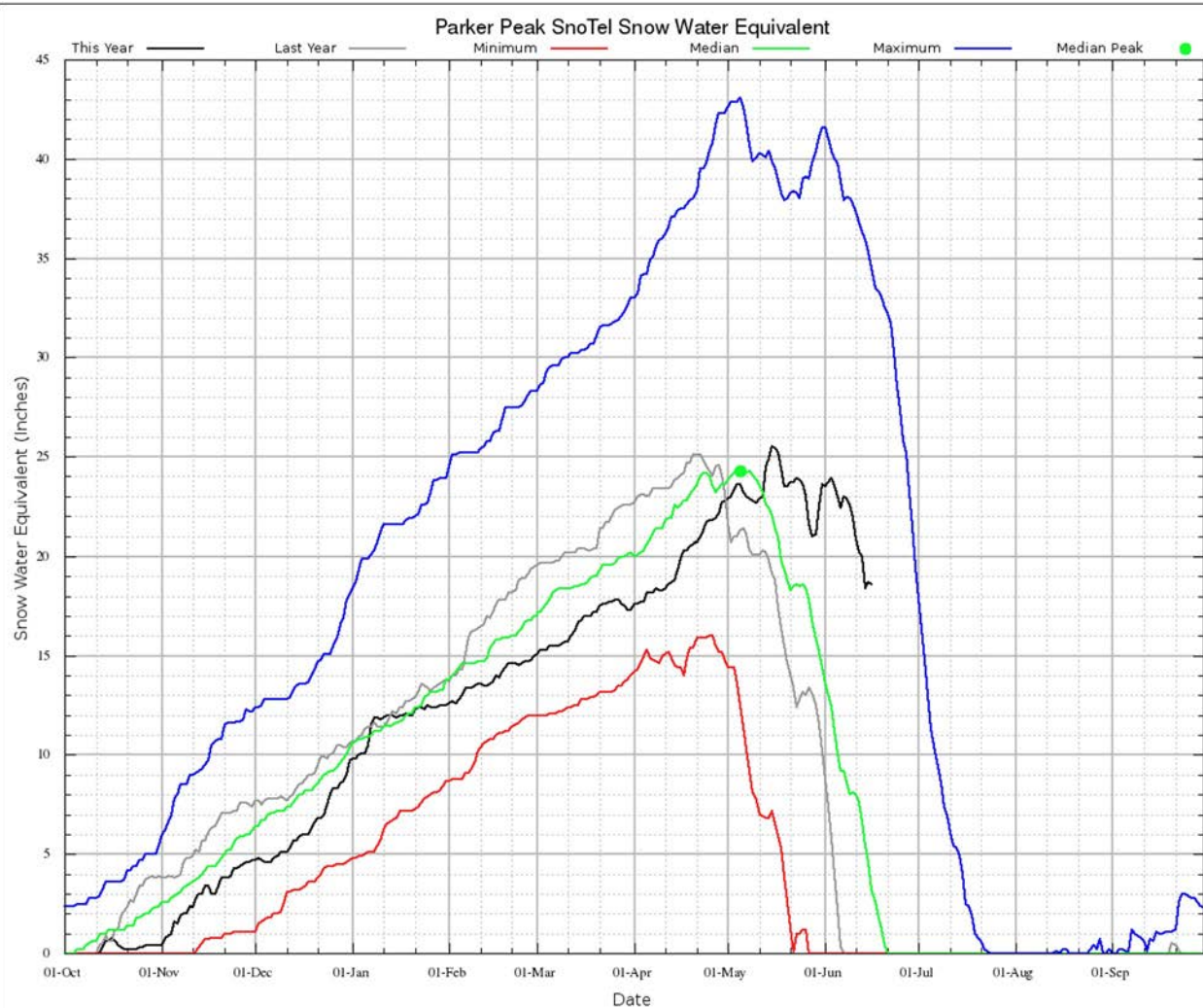


Daily Temperature data from PRISM Climate Group, Copyright ©2021, PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>
Map Created 19 May 2022 <http://www.wrds.uwyo.edu>
Temperature averages created from PRISM daily temperature grids

14- Day *Departure from Normal* Average **Maximum** Temperature

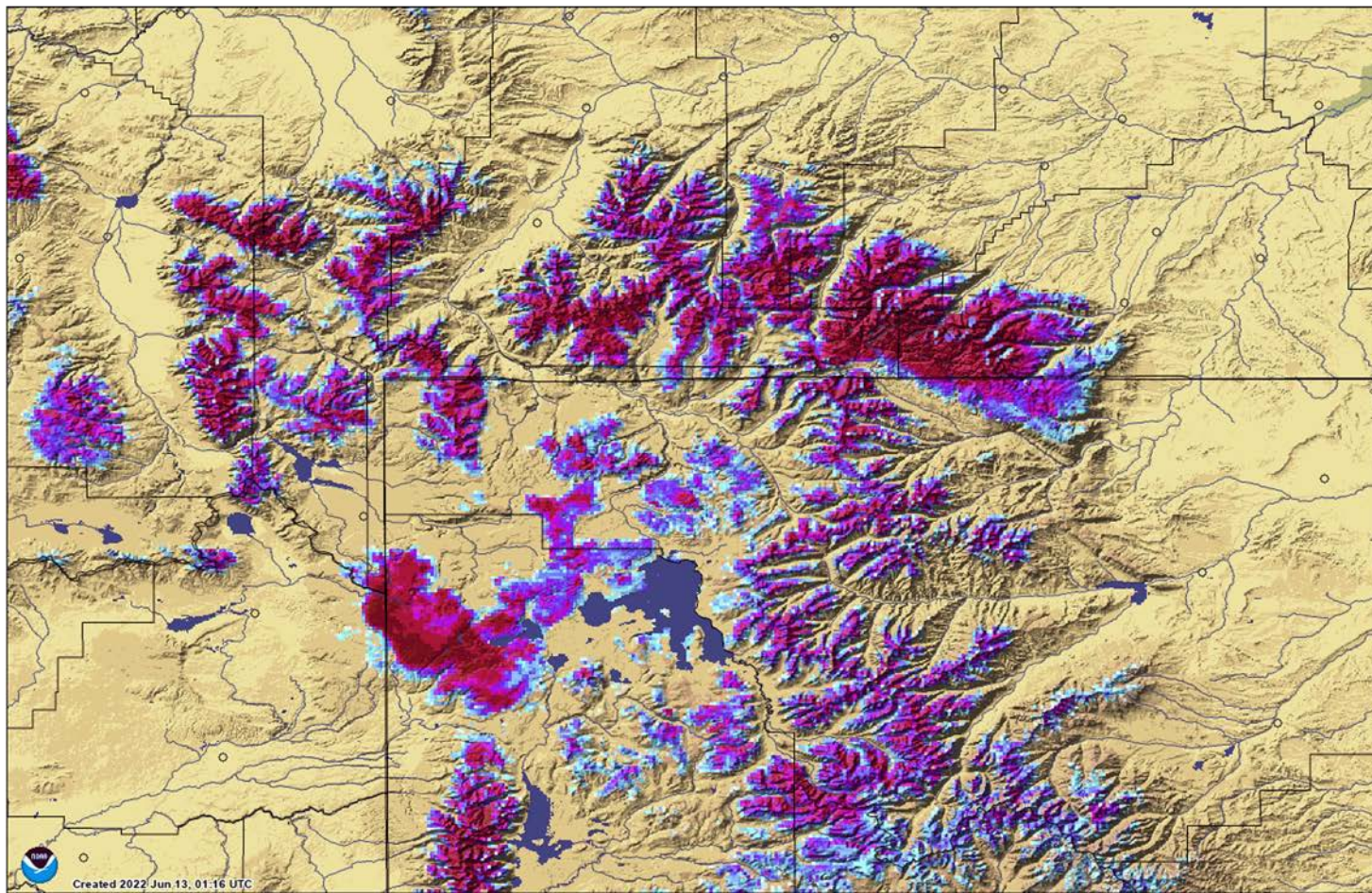
- North 0F to 6F below average
- South 0F to 3F above average
- Southeast 3F to 6F above average

- Though lower than normal basinwide, snowpack stayed longer in season..
- Some Snotels did reach or exceed median snowpack.

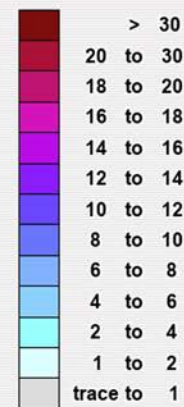


Snow Water Equivalent at 0900 MDT on 12 June 2022

National Operational Hydrologic Remote Sensing Center Analysis

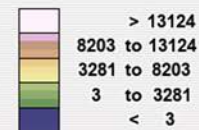


Inches of water equivalent



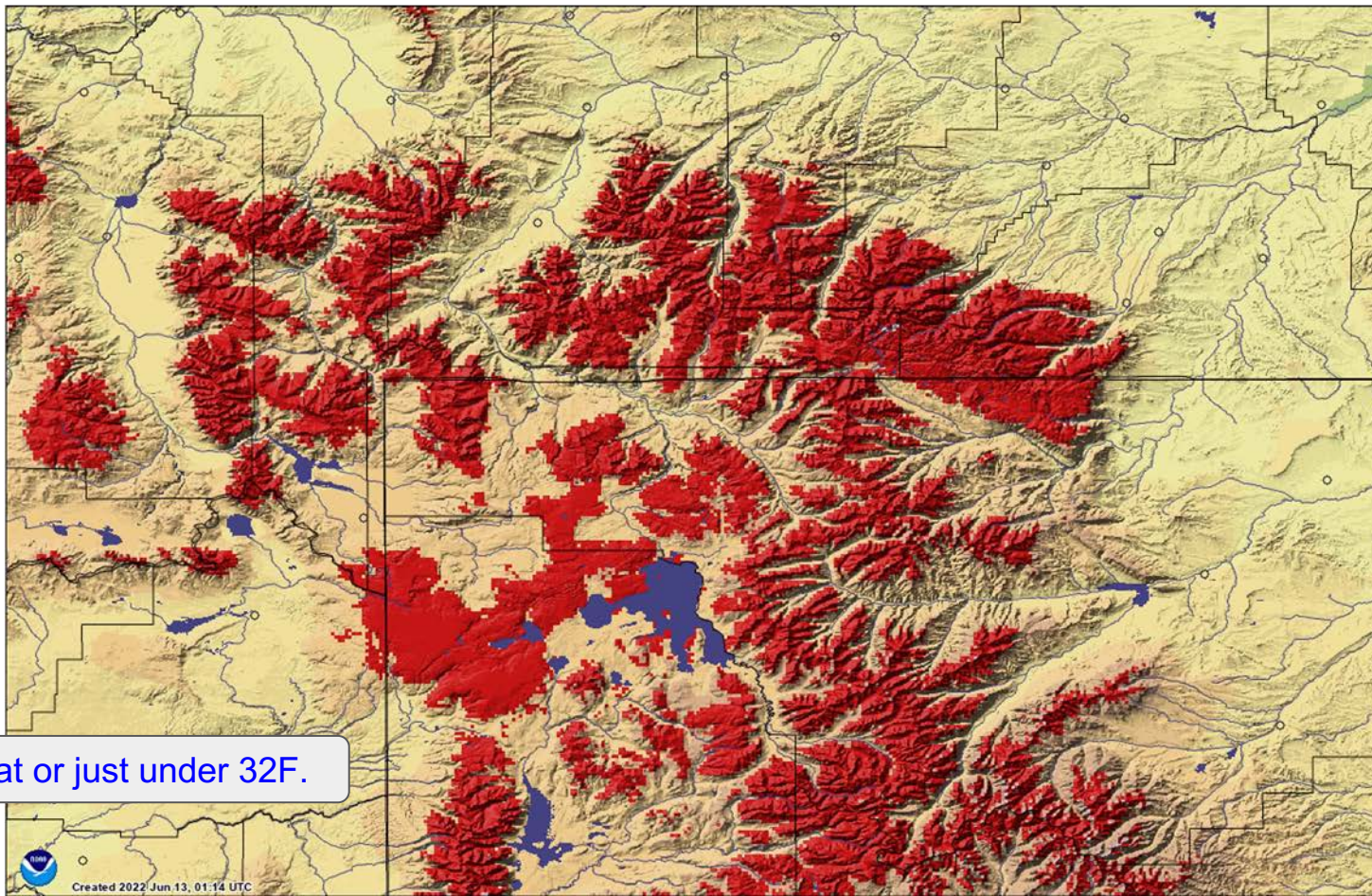
 Not Estimated

Elevation in feet

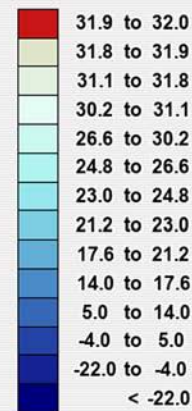


Snow Temperature at 0900 MDT on 12 June 2022

National Operational Hydrologic Remote Sensing Center Analysis

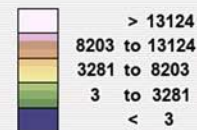


Degrees Fahrenheit



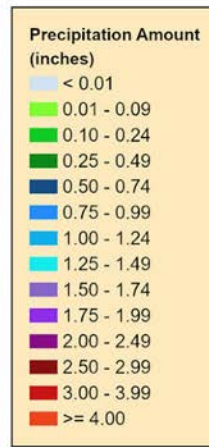
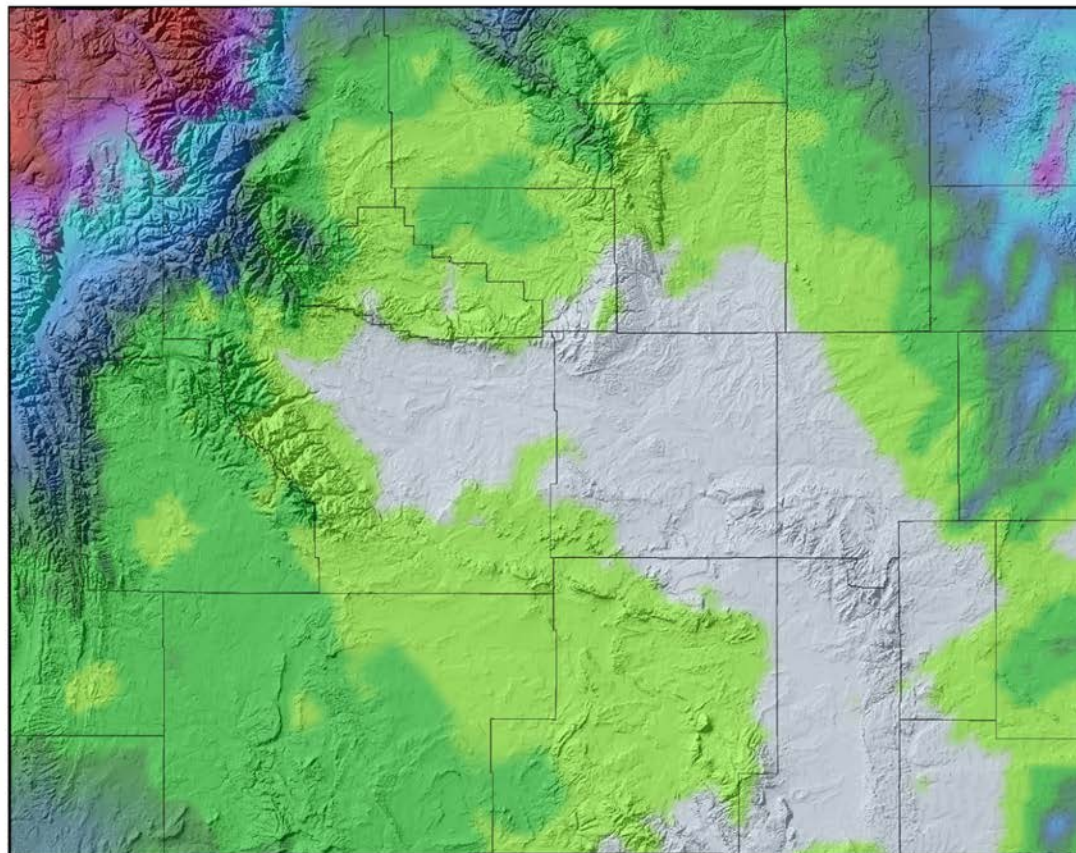
Not Estimated

Elevation in feet



Snowpack at or just under 32F.

- Warmer temperatures especially at night quickly melting snow.
- Streams already filling with snowmelt.
- Melting snow and rain the previous week led to increased soil moisture.
- Heavy rains 11-13 June fell on melting snowpack and saturating ground.



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



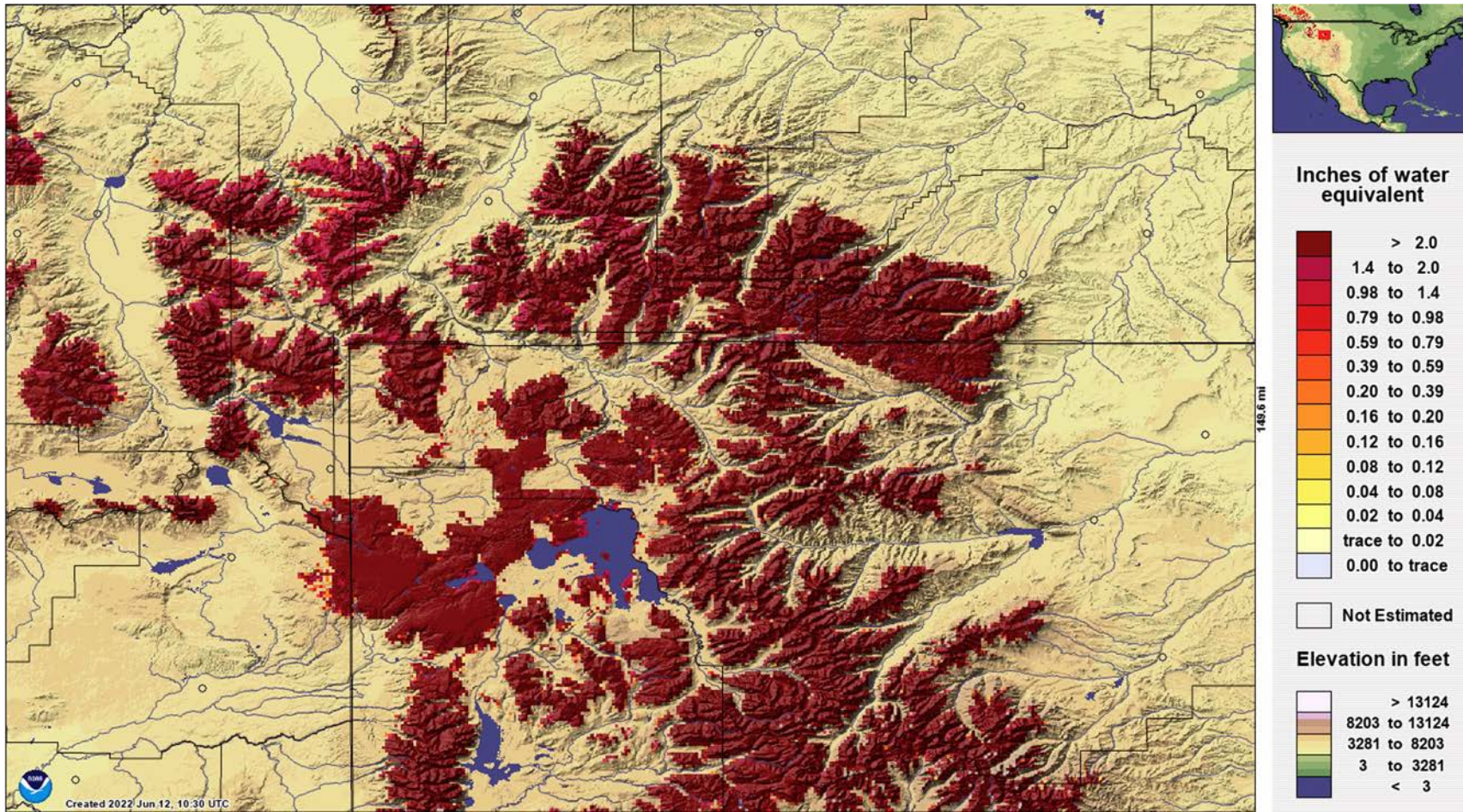
Map Prepared by:
Wyoming State Climate Office
<http://www.wrds.uwyo.edu>



Provisional data, subject to revision

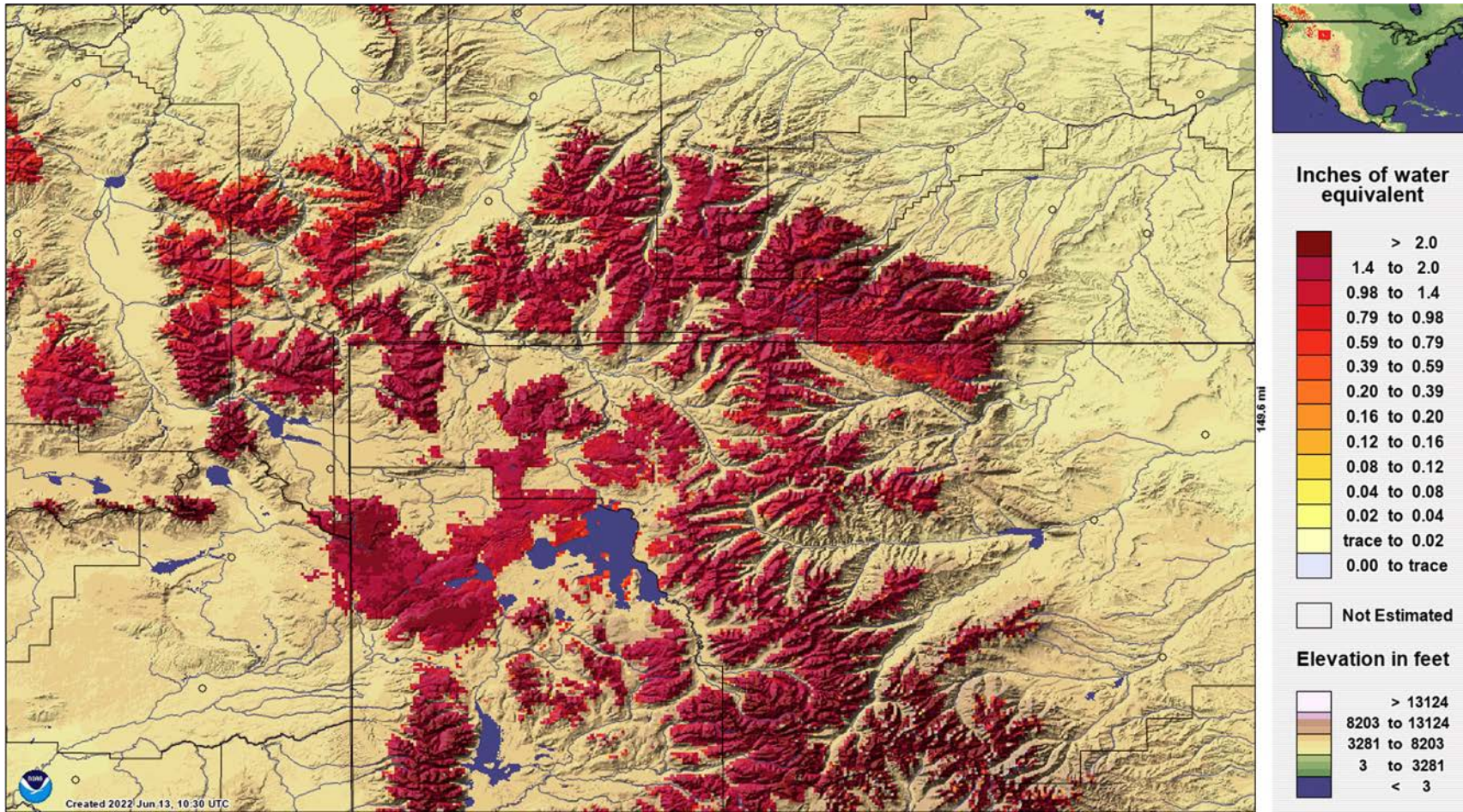
Snow Melt in inches during 11 June 2022

National Operational Hydrologic Remote Sensing Center Analysis



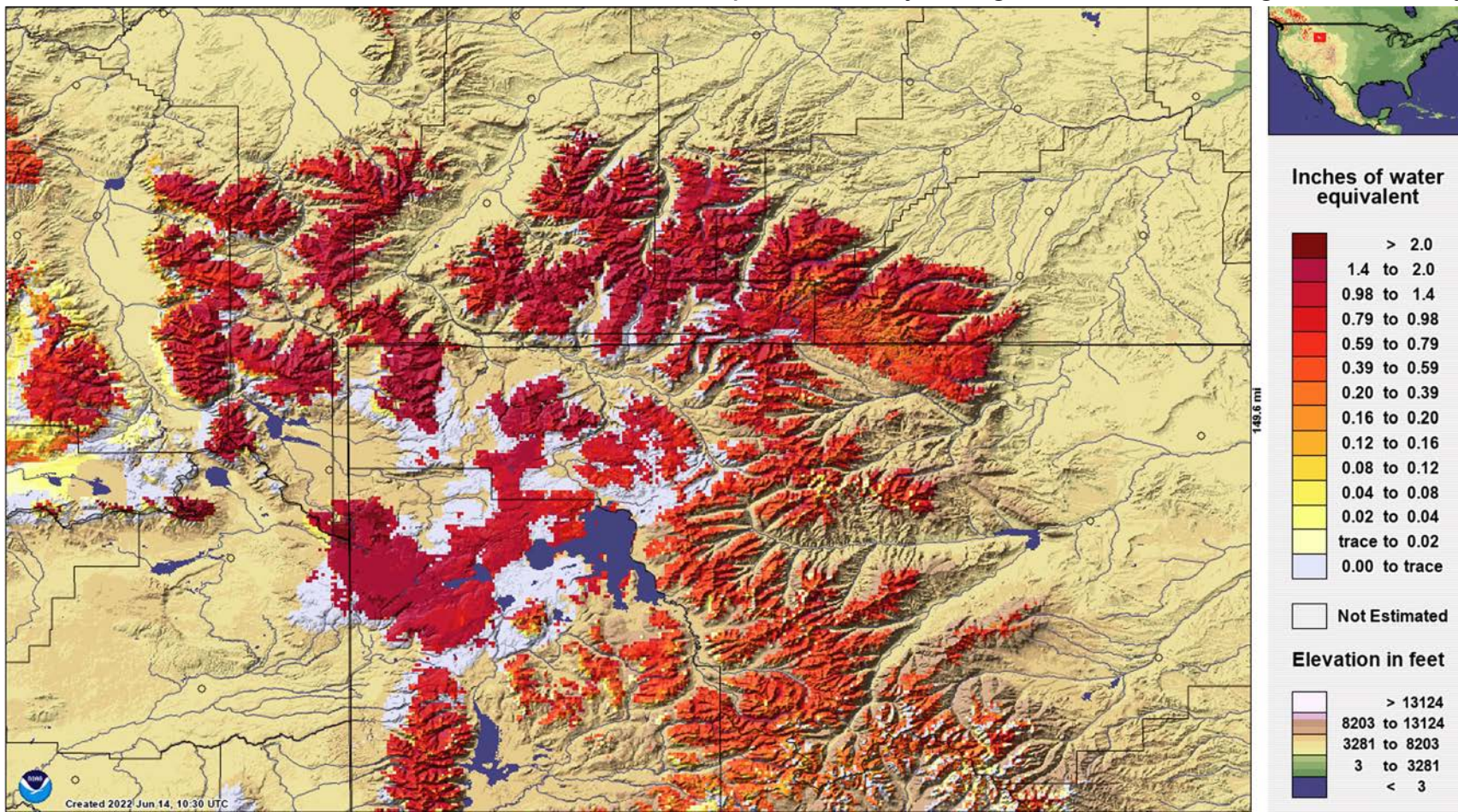
Snow Melt in inches during 12 June 2022

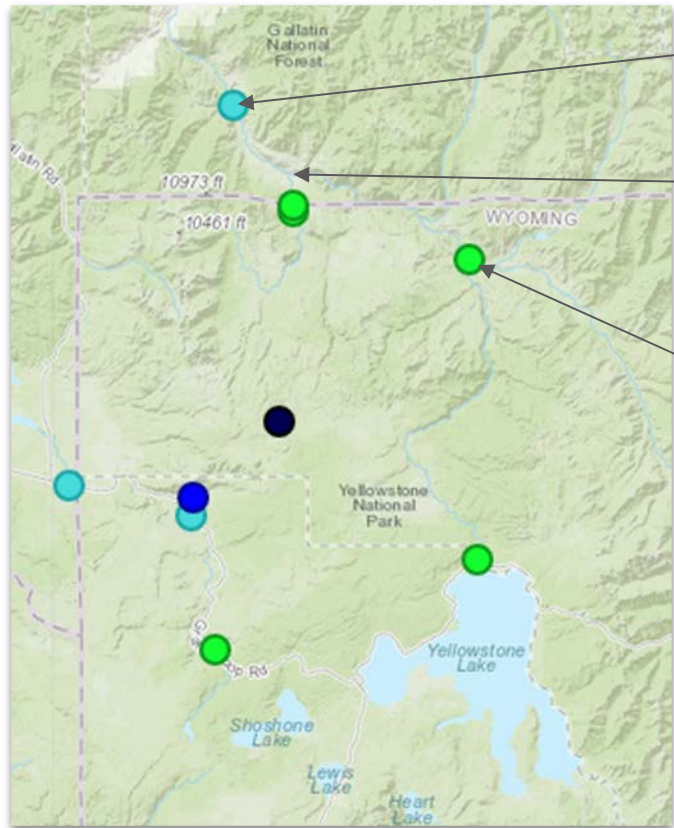
National Operational Hydrologic Remote Sensing Center Analysis



Snow Melt in inches during 13 June 2022

National Operational Hydrologic Remote Sensing Center Analysis





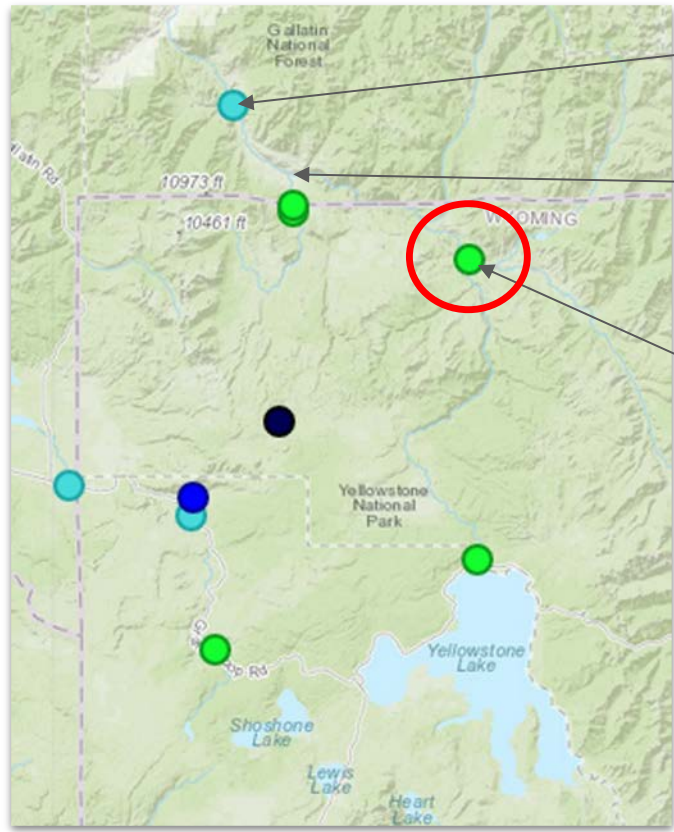
Yellowstone River at
Corwin Springs, MT (USGS
Gauge 06191500)

Gardiner, MT

Lamar River near Tower
Ranger Station (USGS
Gauge 06188000)

- All-time high for this day
- Much above normal
- Above normal
- Normal
- Below normal
- Much below normal
- All-time low for this day

Several long-term stream gauges saw record high flows



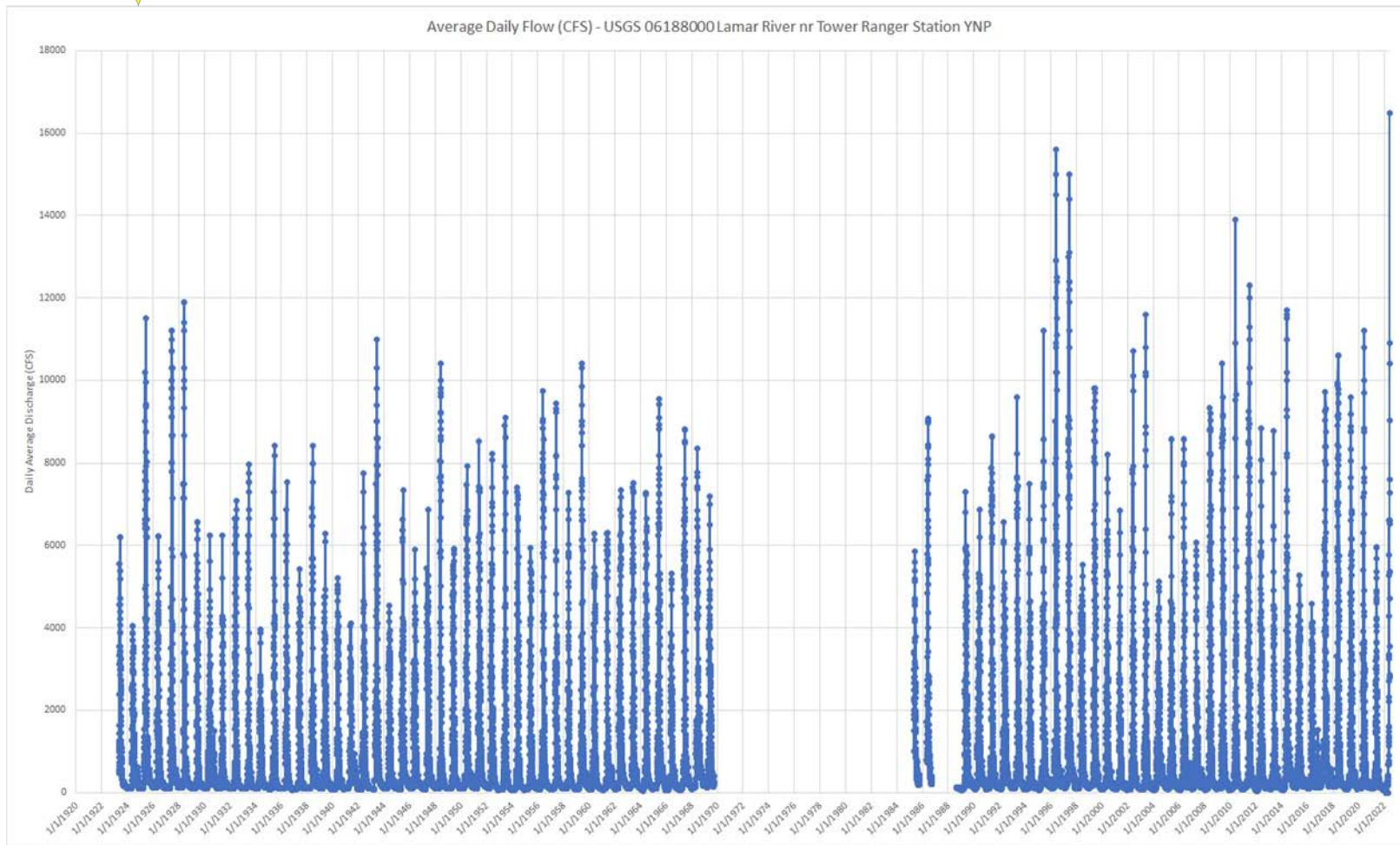
Yellowstone River at
Corwin Springs, MT (USGS
Gauge 06191500)

Gardiner, MT

Lamar River near Tower
Ranger Station (USGS
Gauge 06188000)

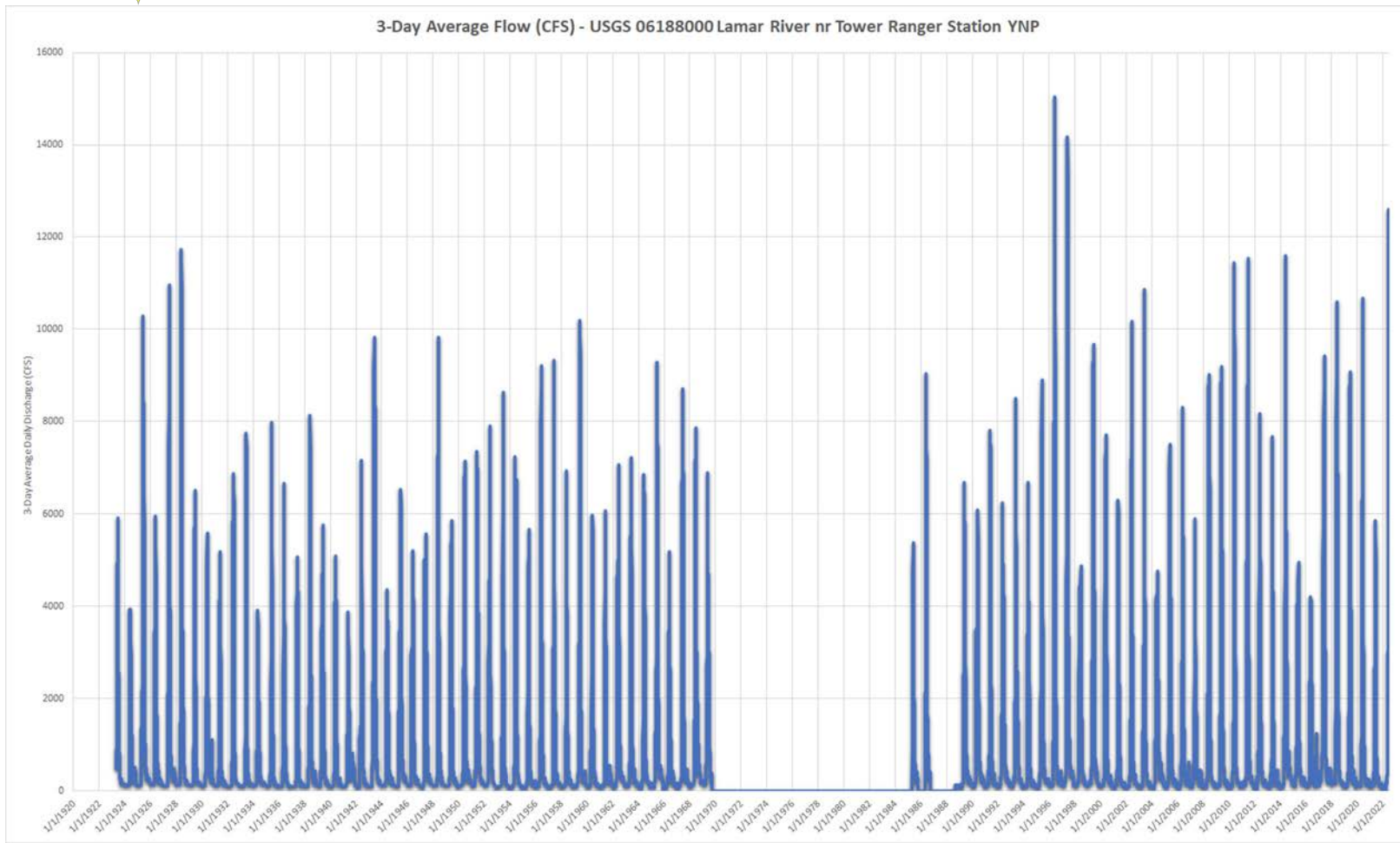
- All-time high for this day
- Much above normal
- Above normal
- Normal
- Below normal
- Much below normal
- All-time low for this day

Average Daily Flows in Cubic Feet per Second - Lamar River near Tower Ranger Station

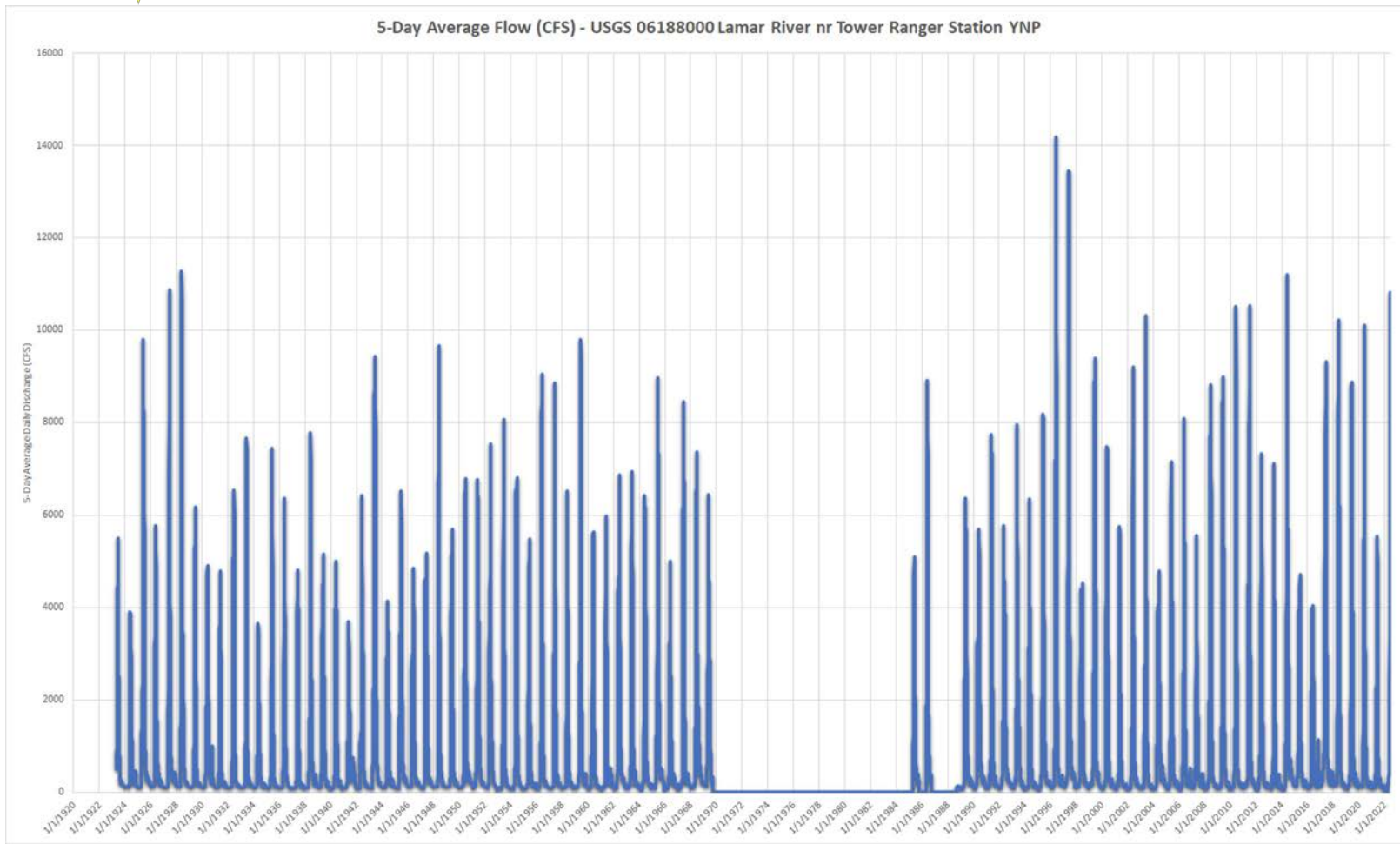


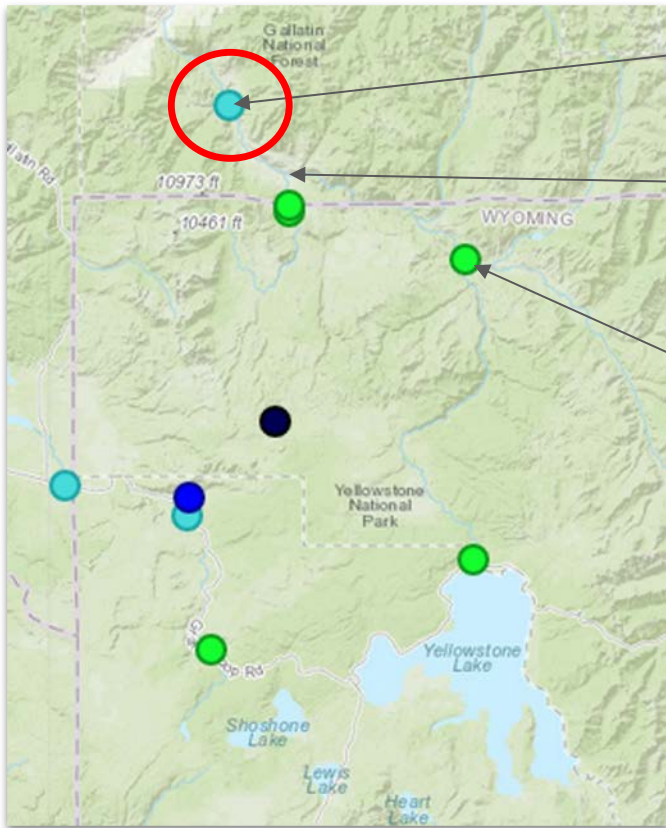


Flows (3-Day Average) in Cubic Feet per Second - Lamar River near Tower Ranger Station



Flows (5-Day Average) in Cubic Feet per Second - Lamar River near Tower Ranger Station



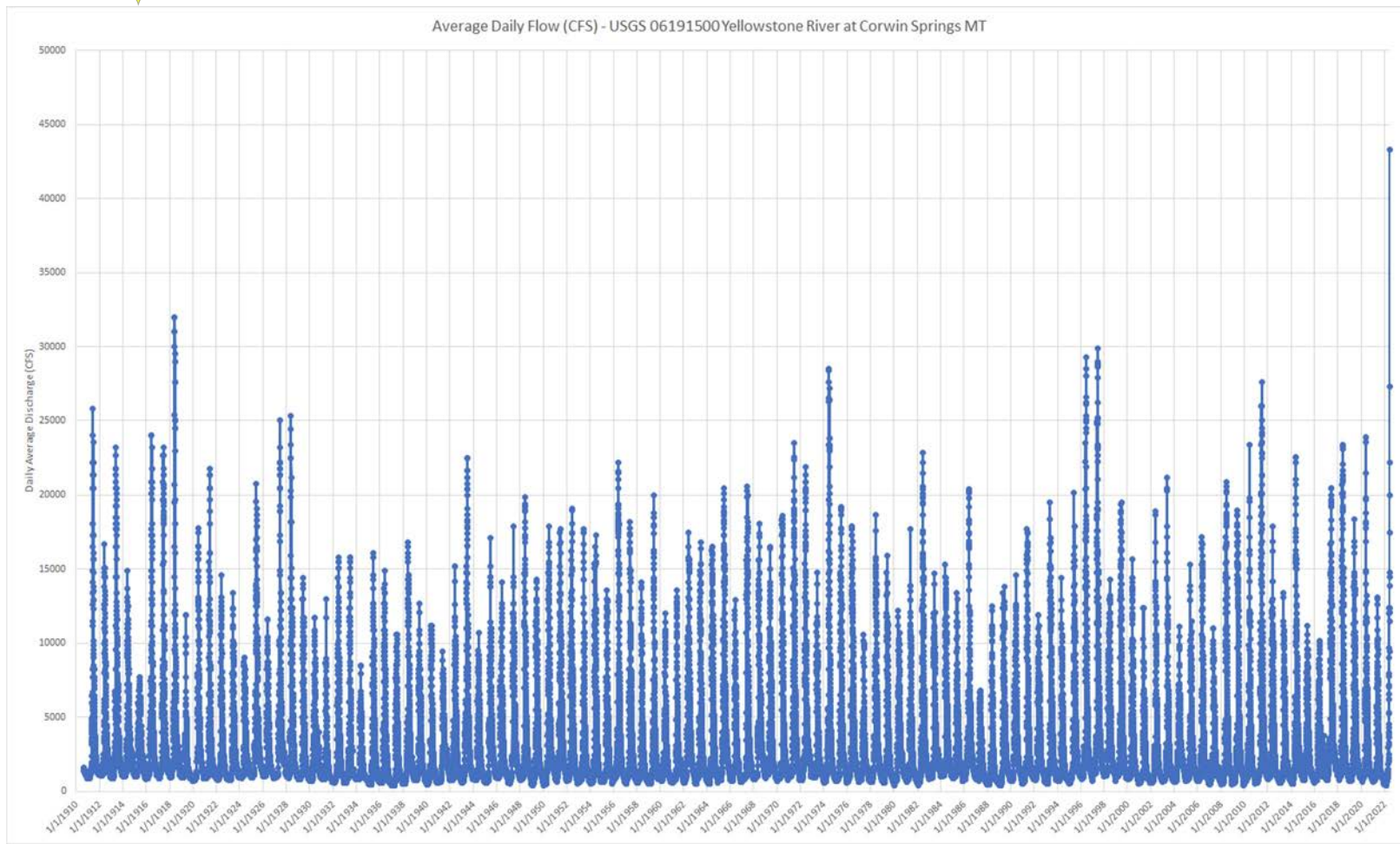


Yellowstone River at
Corwin Springs, MT (USGS
Gauge 06191500)

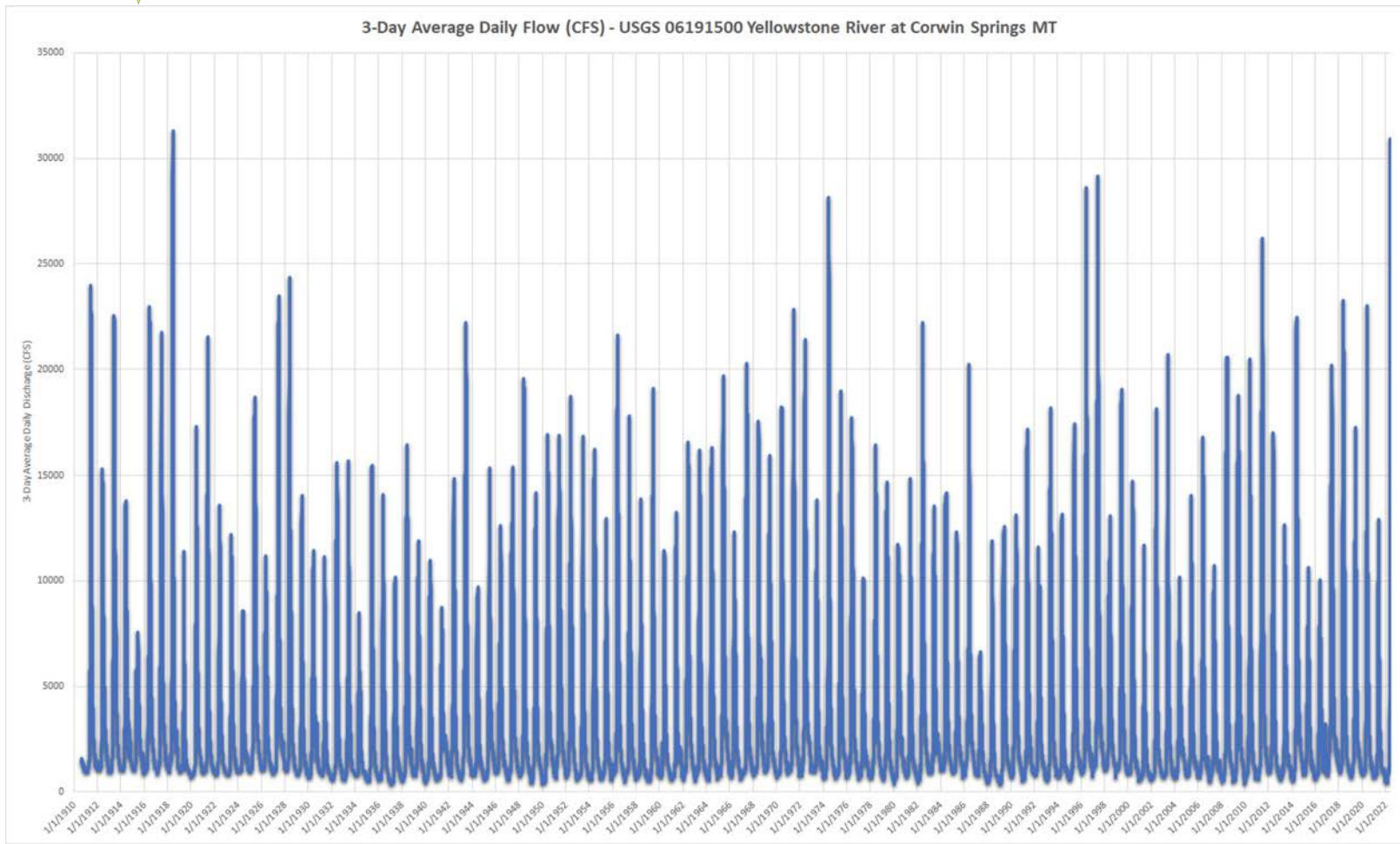
Gardiner, MT

Lamar River near Tower
Ranger Station (USGS
Gauge 06188000)

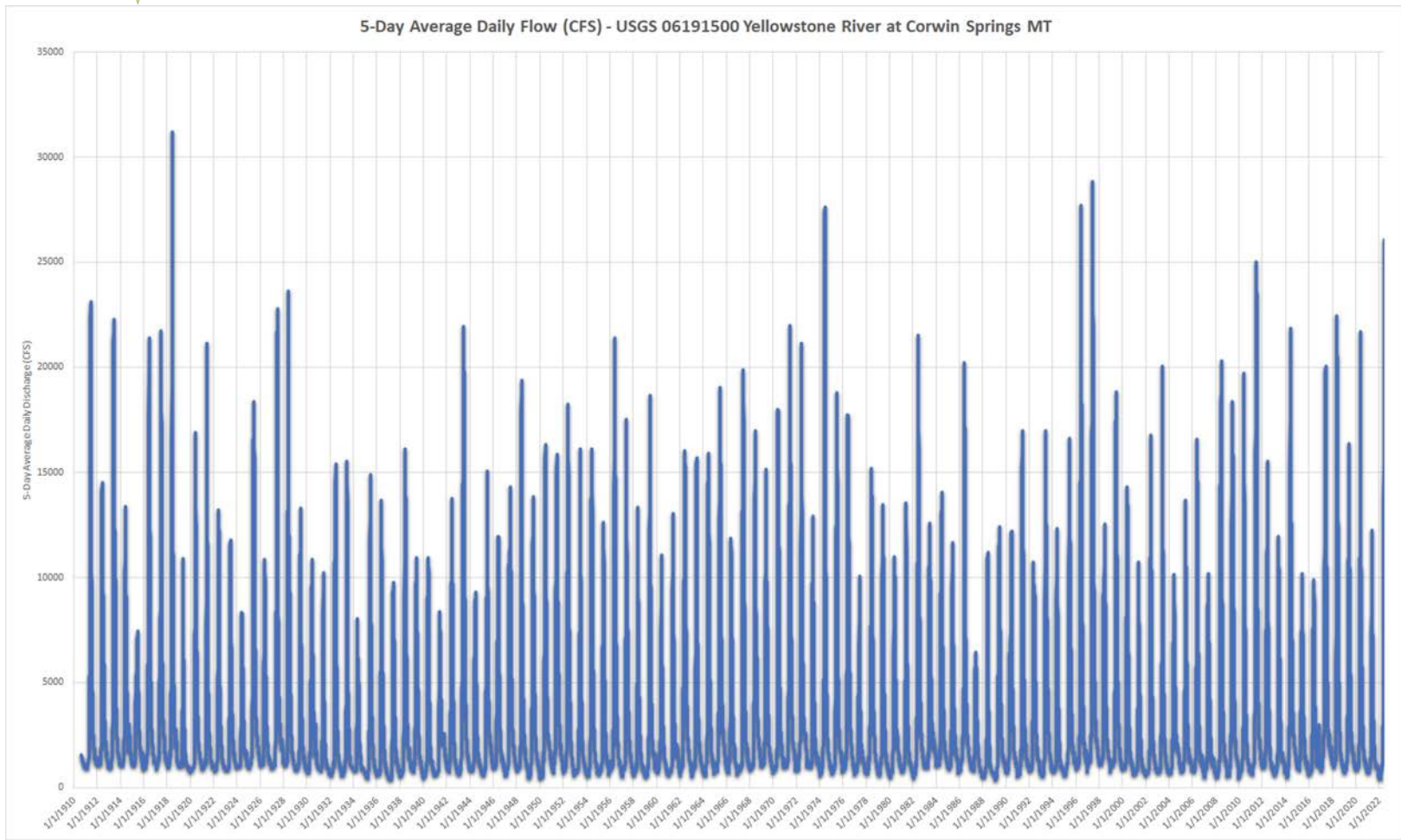
- All-time high for this day
- Much above normal
- Above normal
- Normal
- Below normal
- Much below normal
- All-time low for this day



Flows (3-Day Average) in Cubic Feet per Second - Yellowstone River at Corwin Springs MT



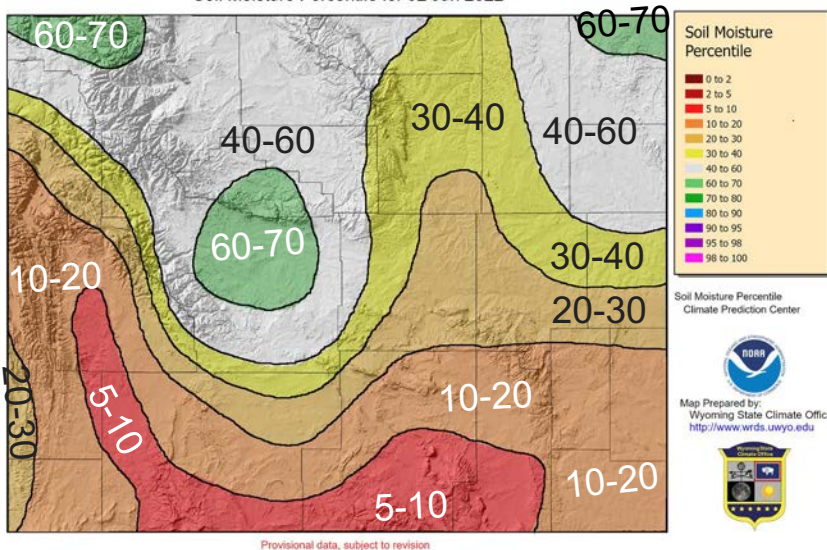
Flows (5-Day Average) in Cubic Feet per Second - Yellowstone River at Corwin Springs MT



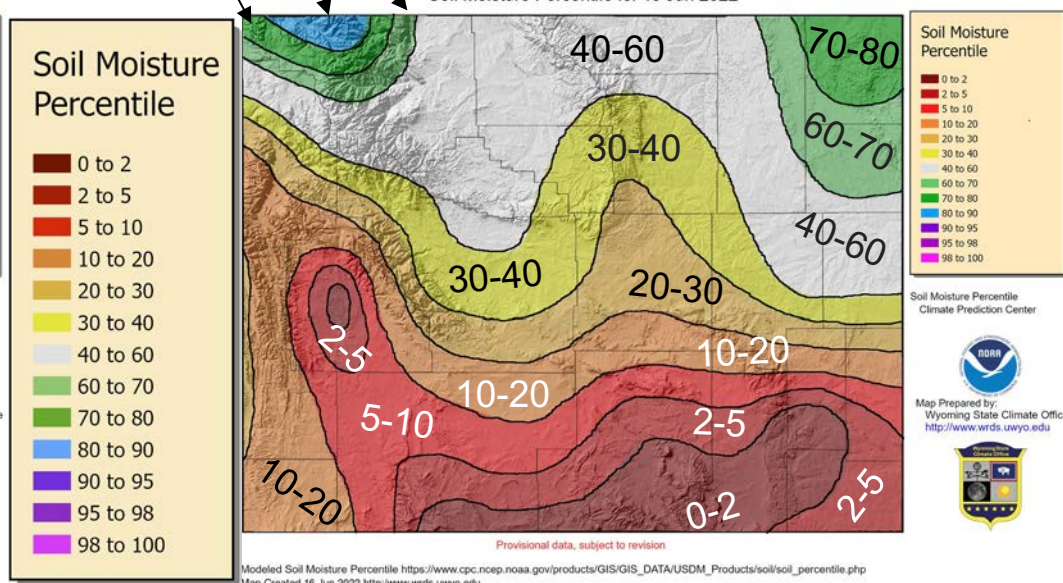
Soil Moisture Percentile

Two Weeks Ago
02 Jun 2022

Soil Moisture Percentile for 02 Jun 2022



80-90
70-80
60-70
15 Jun 2022
Soil Moisture Percentile for 15 Jun 2022

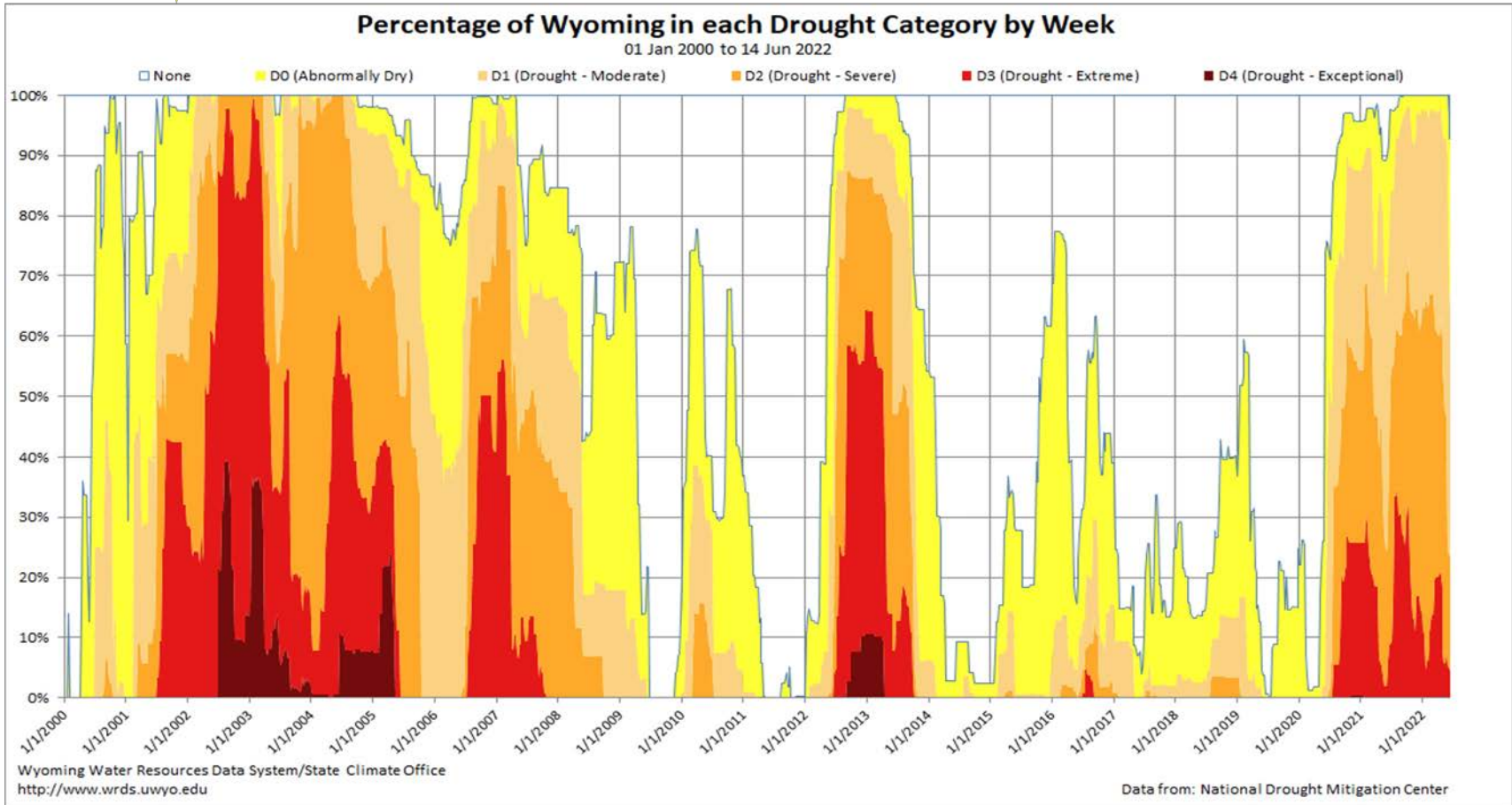


Conditions better compared to one month ago except Uinta, Lincoln, southern Teton Counties

Deteriorating, though, having reached a peak around 05-06 May.

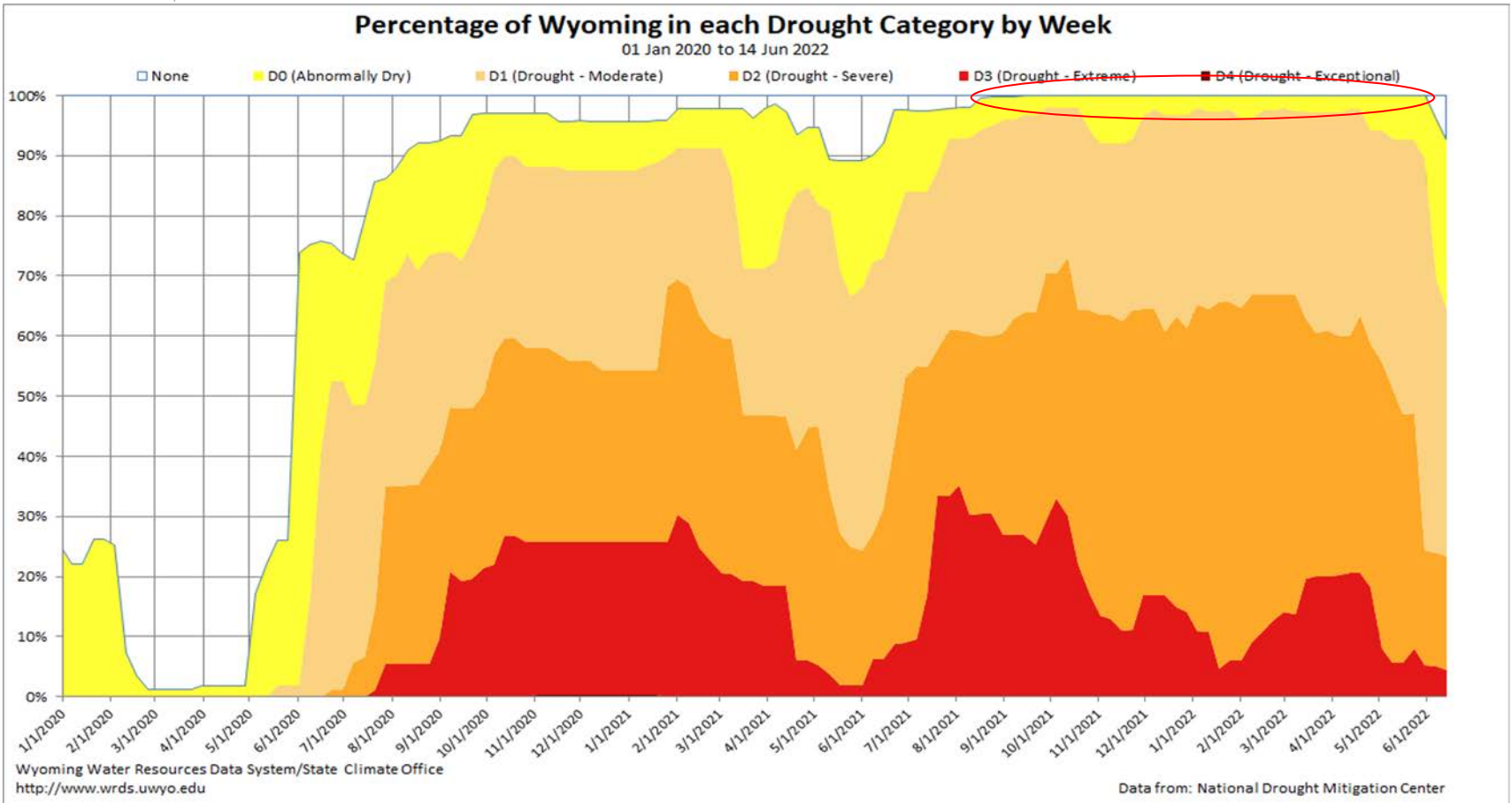
Same or Worse compared to 05-06 May except Park and Northeast

Wyoming Area Affected: 92.69% D0-D4 ; 64.56% D1-D4





38-week period with entire state in a "D" category ended 07 Jun 2022

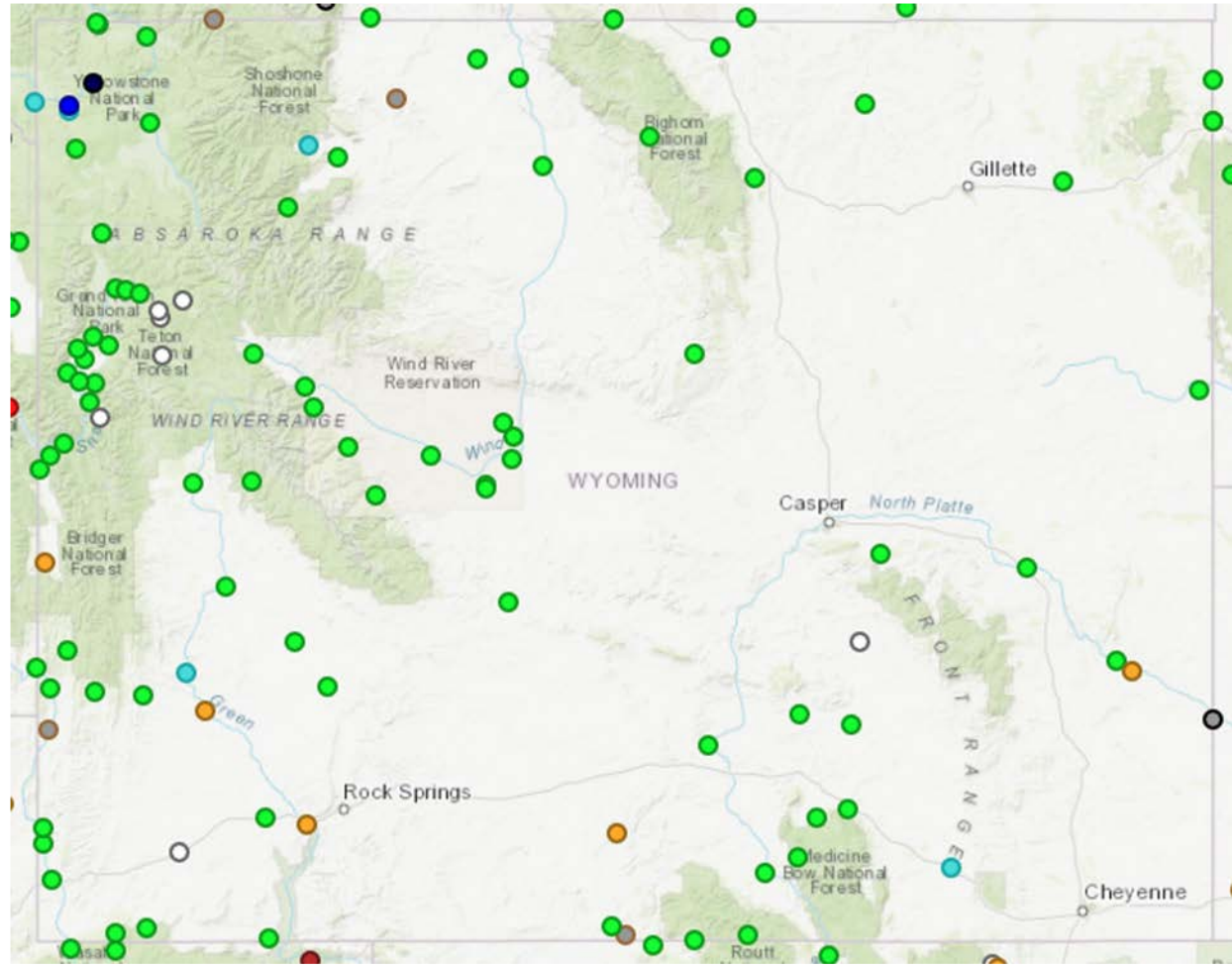


Current Streamflow Conditions (16 June 2022)

Streamflow Status

Streamflow: Status

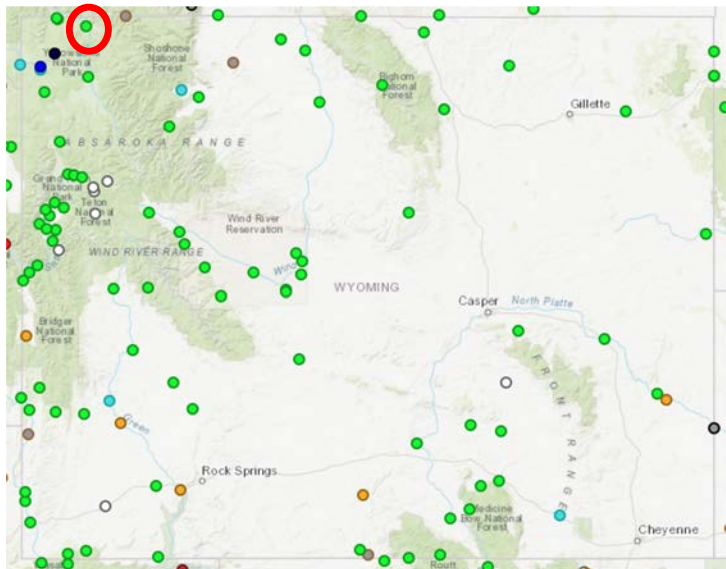
- Above flood stage
- All-time high for this day
- Much above normal
- Above normal
- Normal
- Below normal
- Much below normal
- All-time low for this day
- Not flowing
- Not ranked
- Measurement flag
- Recent measurement unavailable



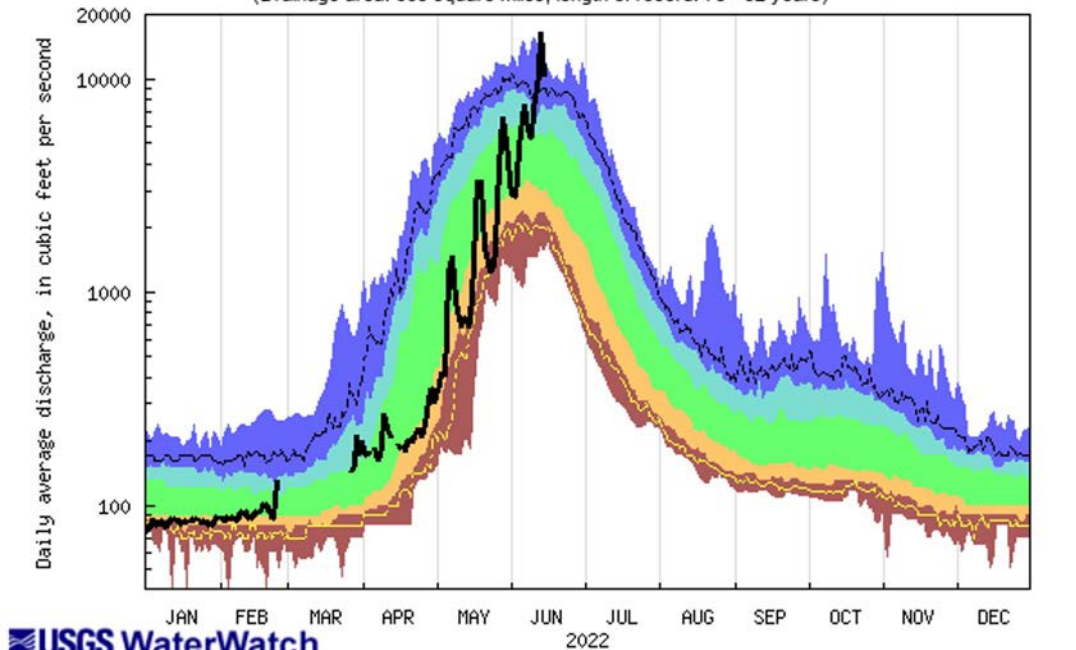
Lamar River near Tower Ranger Station YNP

Last updated June 16, 2022

Select WY Streamflows



USGS 06188000 Lamar River nr Tower Ranger Station YNP
(Drainage area: 668 square miles, length of record: 78 - 82 years)



USGS WaterWatch

Last updated: 2022-06-16

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

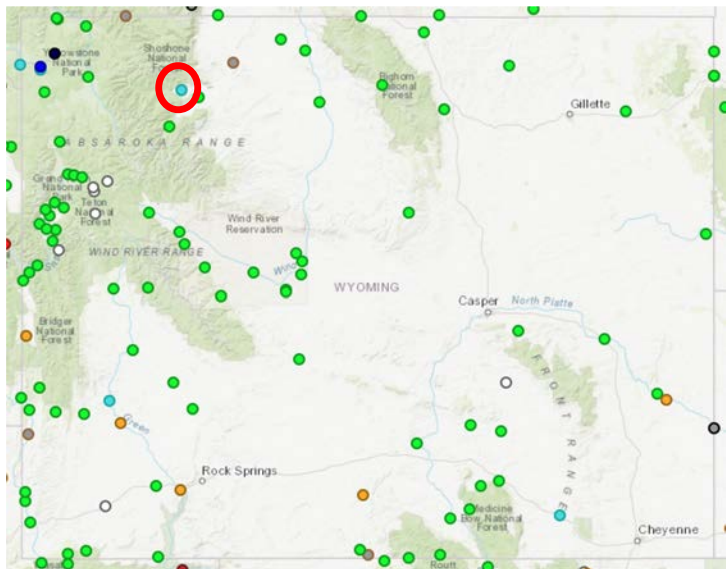
<https://waterdata.usgs.gov/>

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

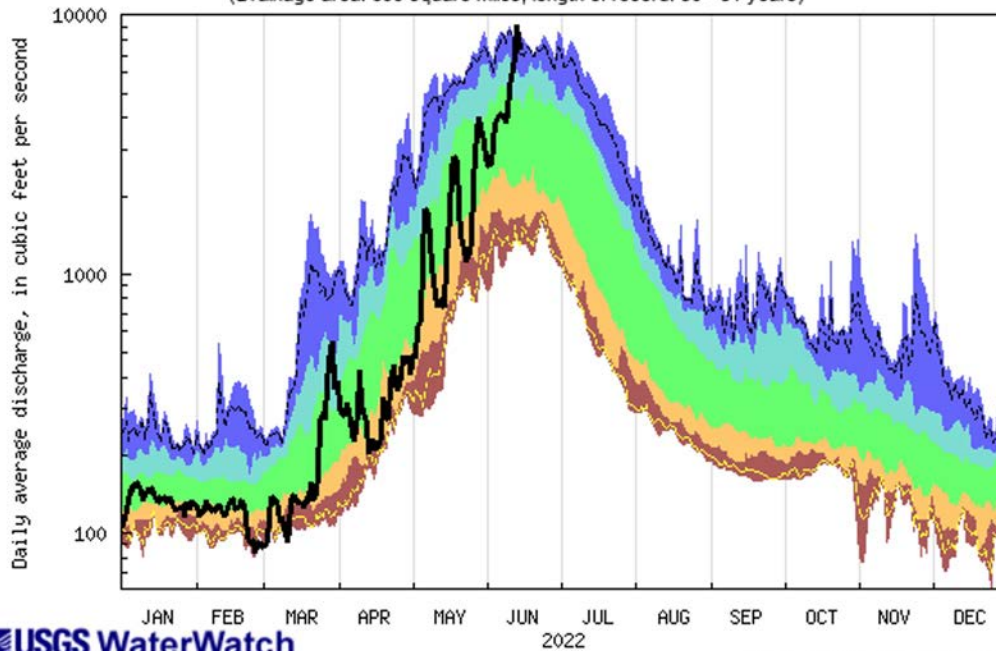
North Fork Shoshone River at Wapiti, WY

Last updated June 16, 2022

Select WY Streamflows



USGS 06279940 NORTH FORK SHOSHONE RIVER AT WAPITI, WY
(Drainage area: 699 square miles, length of record: 30 - 31 years)



USGS WaterWatch

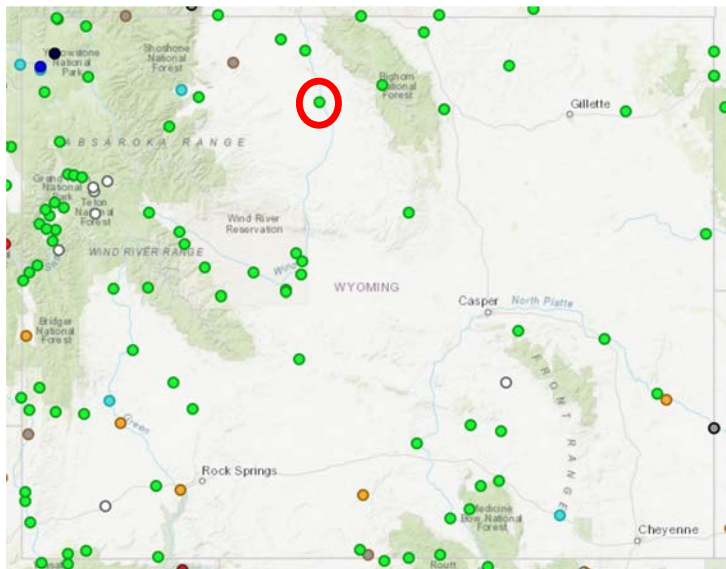
Last updated: 2022-06-16

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

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

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

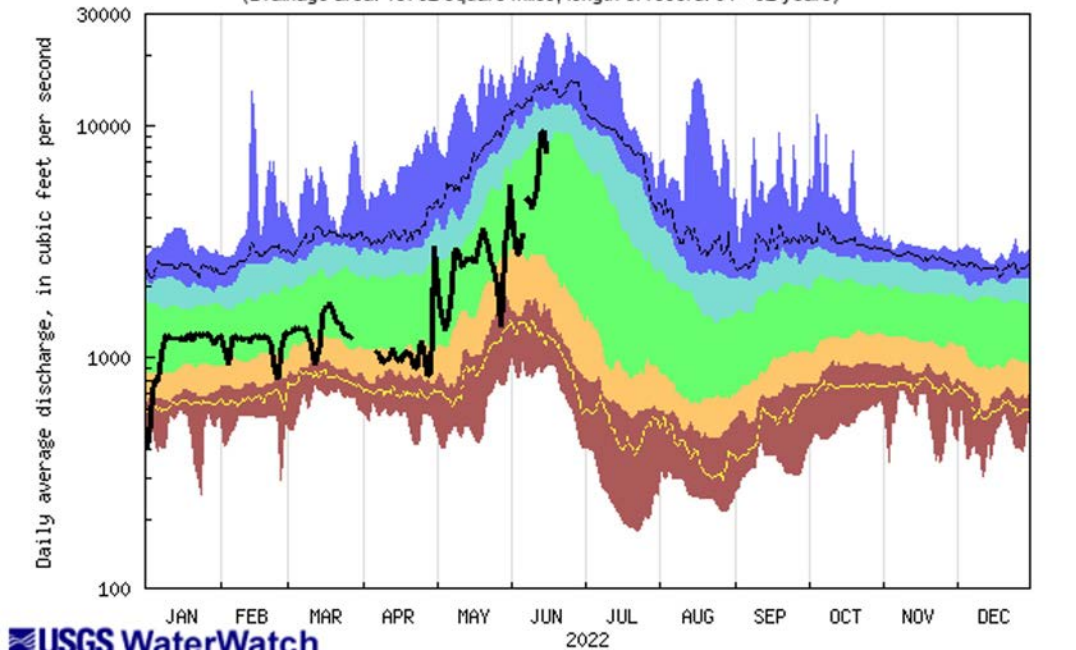
Select WY Streamflows



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

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

USGS 06279500 BIGHORN RIVER AT KANE, WY
(Drainage area: 15762 square miles, length of record: 91 - 92 years)



USGS WaterWatch

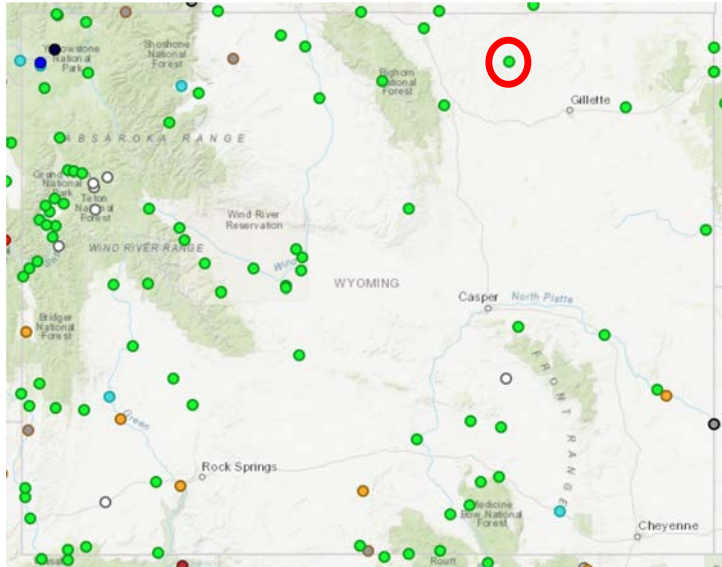
Last updated: 2022-06-16

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	

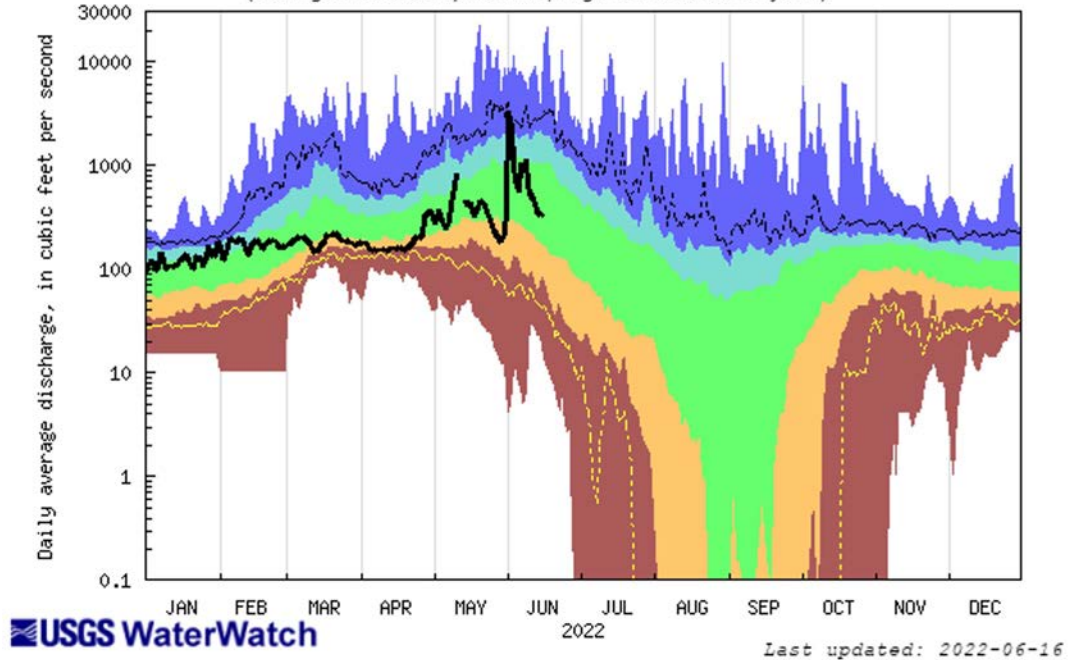
Powder River at Arvada, WY

Last updated June 16, 2022

Select WY Streamflows



USGS 06317000 POWDER RIVER AT ARVADA, WY
(Drainage area: 6050 square miles, length of record: 89 - 90 years)



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

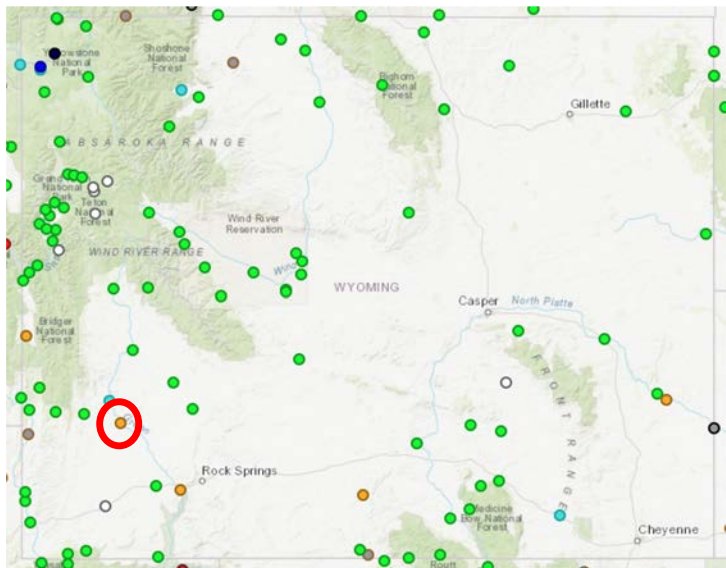
<https://waterdata.usgs.gov/>

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

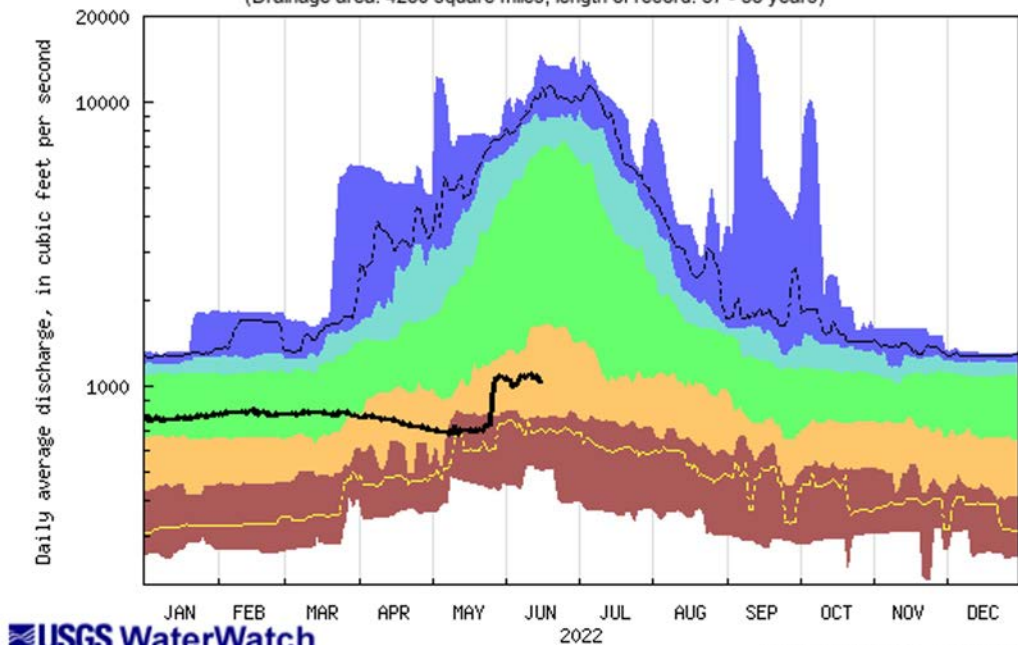
Green River at Below Fontenelle Reservoir, WY

Last updated June 16, 2022

Select WY Streamflows



USGS 09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY
(Drainage area: 4280 square miles, length of record: 57 - 58 years)



USGS WaterWatch

Last updated: 2022-06-16

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

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

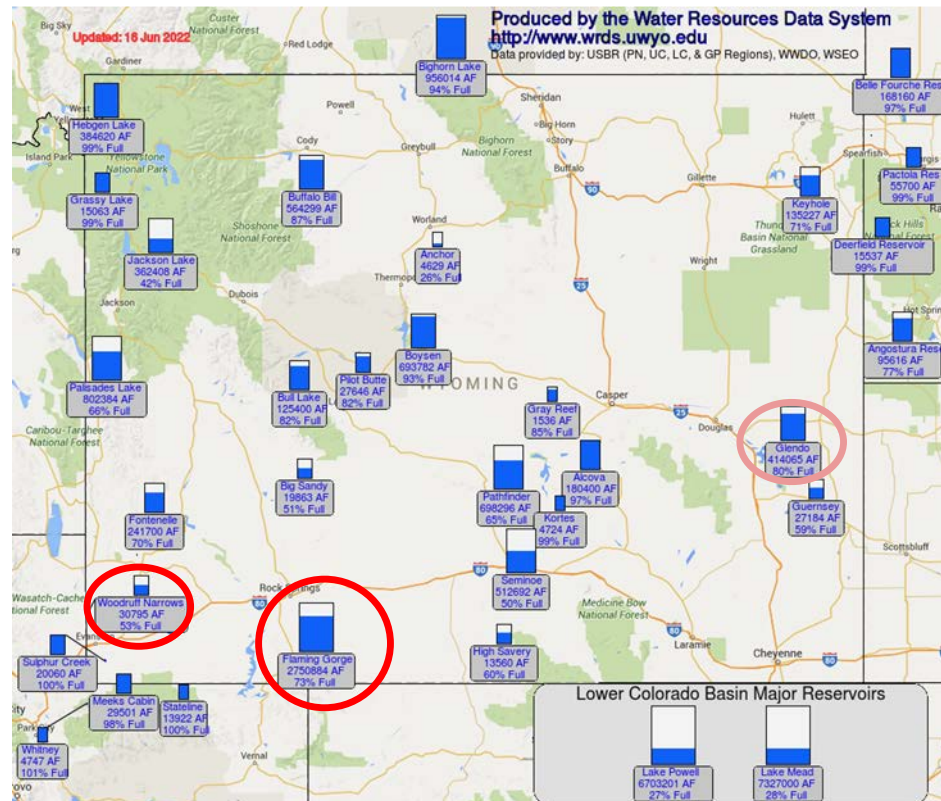
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest
Much below Normal		Below normal	Normal	Above normal	Much above normal	Flow

WY Reservoirs (Update 16 Jun 2022)

16 Jun 2022

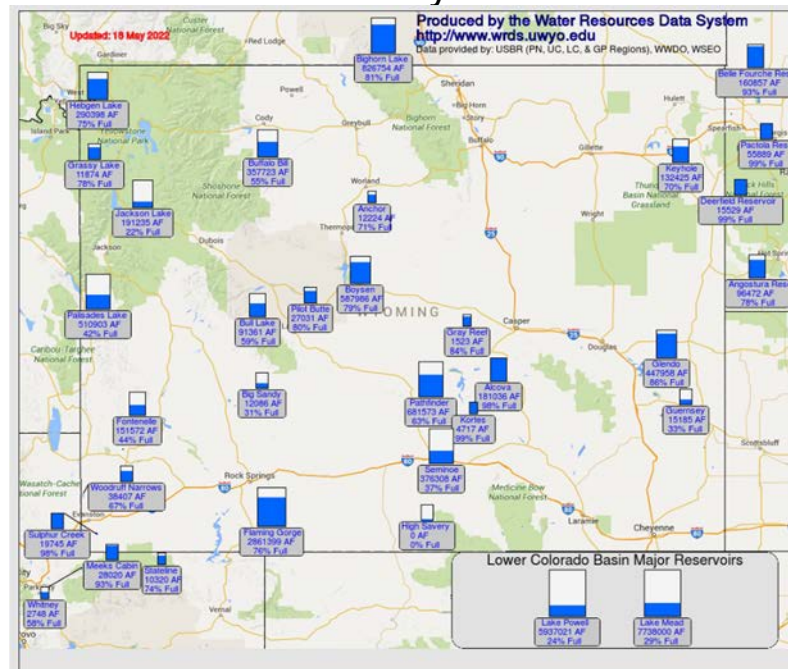
Compared to May

- Increase in storage in most reservoirs



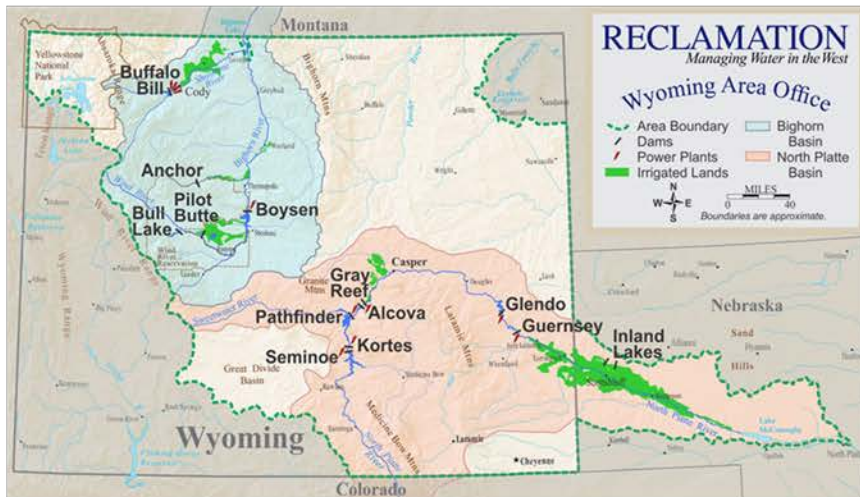
http://www.wrds.uwyo.edu/surface_water/teacups.html

18 May 2022





Current Reservoir Conditions: North Platte System

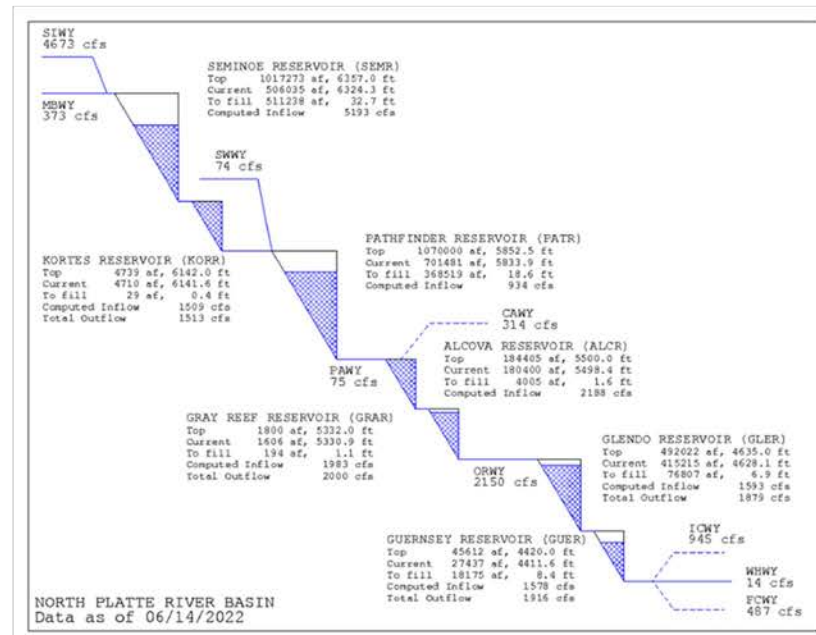


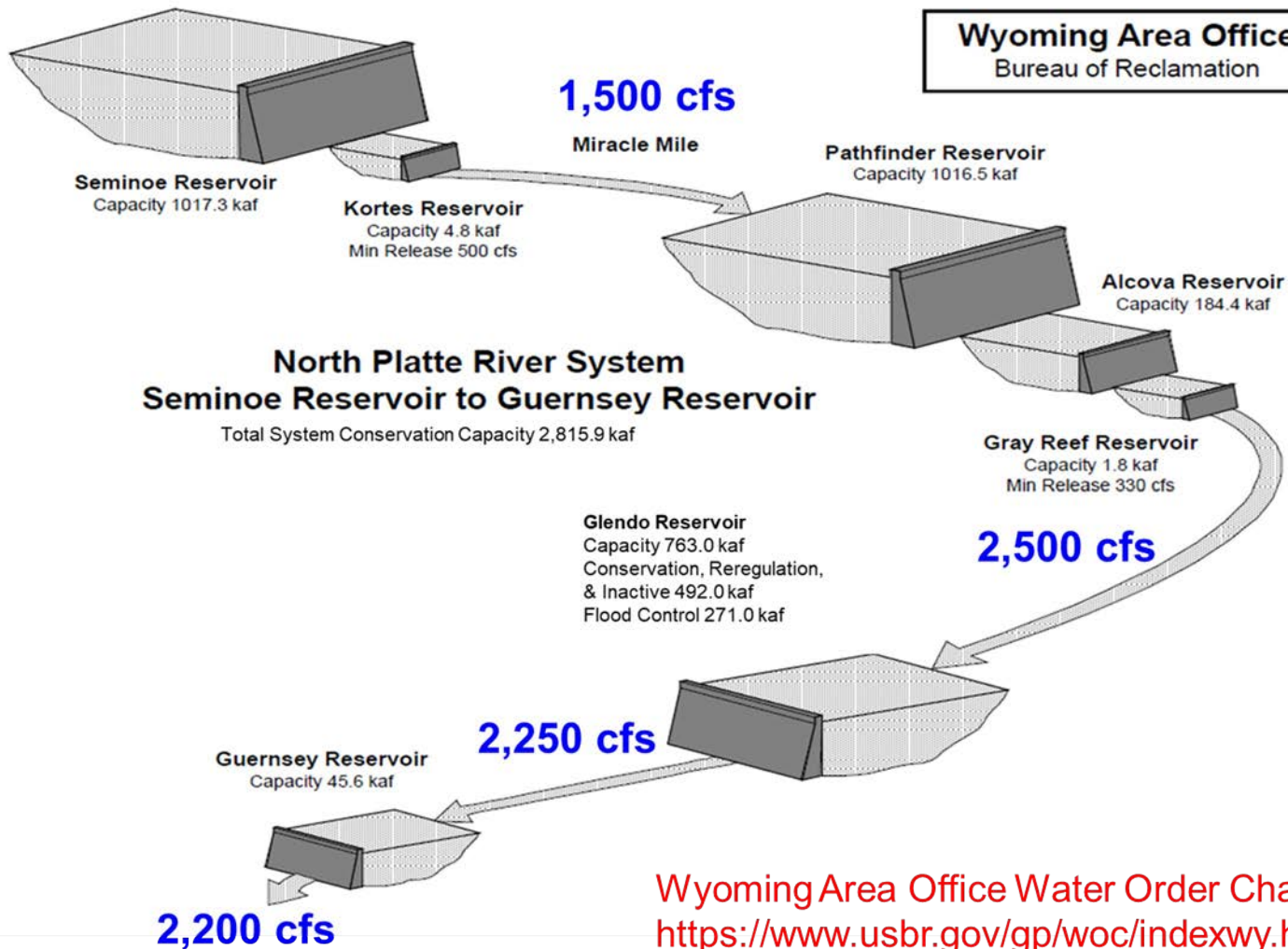
Forecast April – July Runoff:

Forecast Point	Runoff (AF)	% of Avg
Seminoe	510,000	72
Sweetwater above Pathfinder	35,000	66
Alcova to Glendo	95,000	66

**As of June 14, North Platte System:
61% of Full, 90% of Average**

Reservoir	Content (AF)	Capacity	% of Full	% of Avg
Seminoe	506,000	1,017,300	50%	71%
Pathfinder	701,500	1,070,000	66%	107%
Glendo	415,200	492,000	84%	84%
Guernsey	27,400	45,600	60%	87%

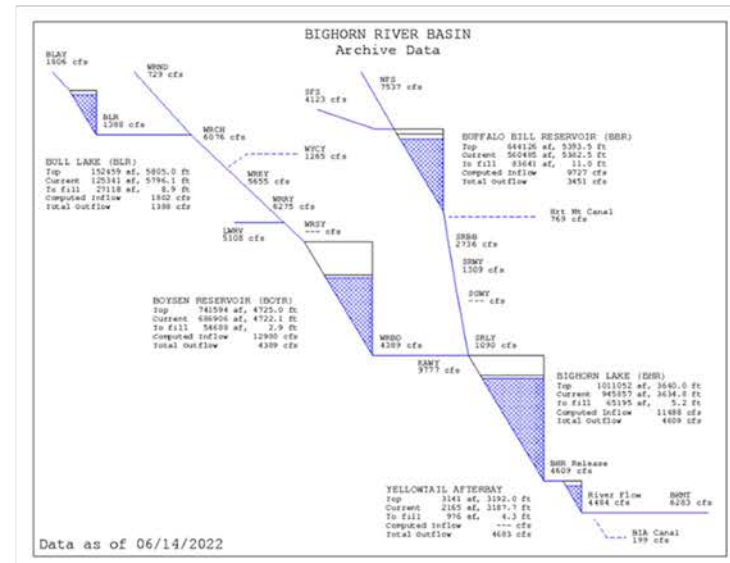
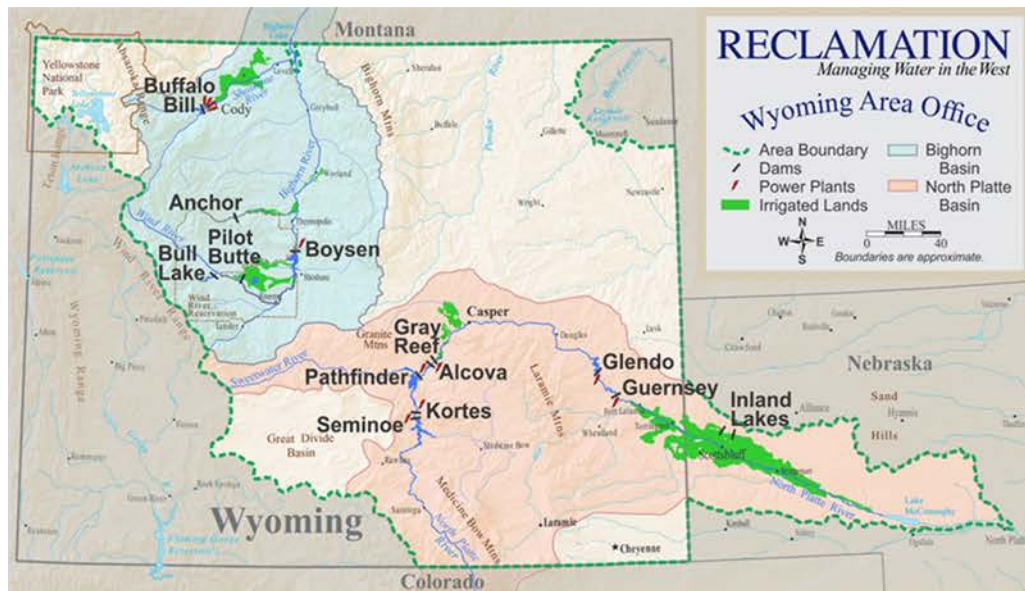




Wyoming Area Office Water Order Changes –
<https://www.usbr.gov/gp/woc/indexwy.html>



Current Reservoir Conditions: Bighorn System



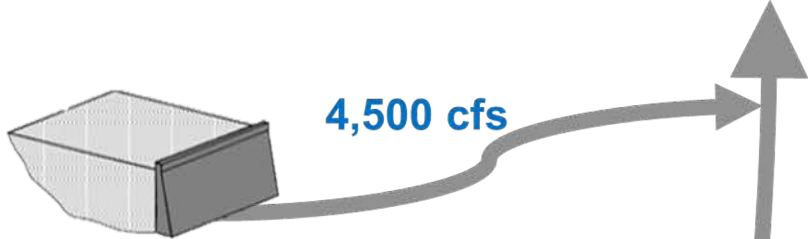
https://www.usbr.gov/gp-bin/hydromet_tecup.pl

As of June 14, Bighorn System: 89% of Full, 96% of Average

<u>Reservoir</u>	<u>Content</u>	<u>Capacity</u>	<u>% of Full</u>	<u>% of Avg</u>
Bull Lake	125,300	152,500	82%	109%
Buffalo Bill	560,500	646,600	87%	106%
Boysen	686,900	741,600	93%	111%



BUFFALO BILL RESERVOIR (BBR)	
Top	644126 af, 5393.5 ft
Current	564299 af, 5383.0 ft
To fill	79827 af, 10.5 ft
Computed Inflow	6529 cfs
Total Outflow	4606 cfs

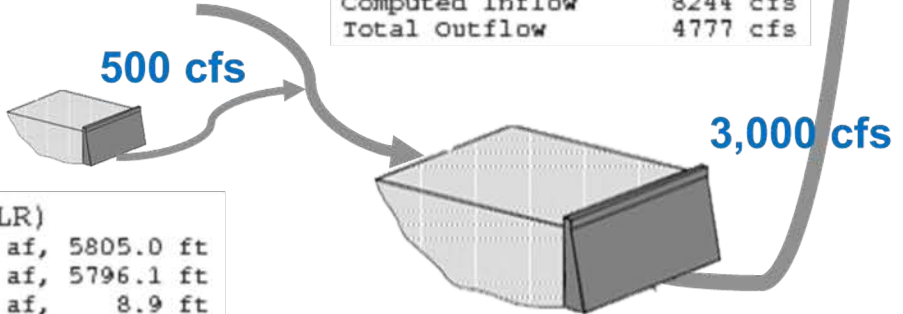


Forecast April – July Runoff:

Buffalo Bill: 660,000 AF 89% of average
(April – June 14 Runoff: 378,300 AF)

Boysen: 525,000 AF 87% of average
(April – June 14 Runoff: 286,600 AF)

BOYSEN RESERVOIR (BOYR)	
Top	741594 af, 4725.0 ft
Current	693782 af, 4722.5 ft
To fill	47812 af, 2.5 ft
Computed Inflow	8244 cfs
Total Outflow	4777 cfs



BULL LAKE (BLR)	
Top	152459 af, 5805.0 ft
Current	125400 af, 5796.1 ft
To fill	27059 af, 8.9 ft
Computed Inflow	1080 cfs
Total Outflow	1051 cfs



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Boat Ramps

HydroMet

- Map of Stations by Type
- Map of Stations by State
- 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 Plots
- 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

- 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)

Analysis and Models

- Inflow Computations and Plots
- Daily Data Analysis
- Annual Cumulative and Historical Average Plots (QNAPLT)

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HydroMet

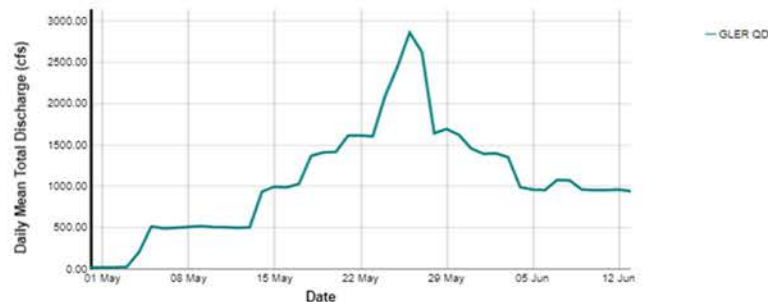
- Map of Stations by Type
- Map of Stations by State
- Instant Data Requests
- Daily Data Requests
- Monthly Data Requests
- TEACUP Reservoir Models
- Automated Retrieval Documentation
- Inflow Computations and Plots

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):
- End Date (YYYY-MM-DD):
- Station Code (start typing to search for a station):
- List of parameters at the selected site:
- Parameter:

Submit





WY SEO Divisions and Superintendents

Contact information for calls and administration

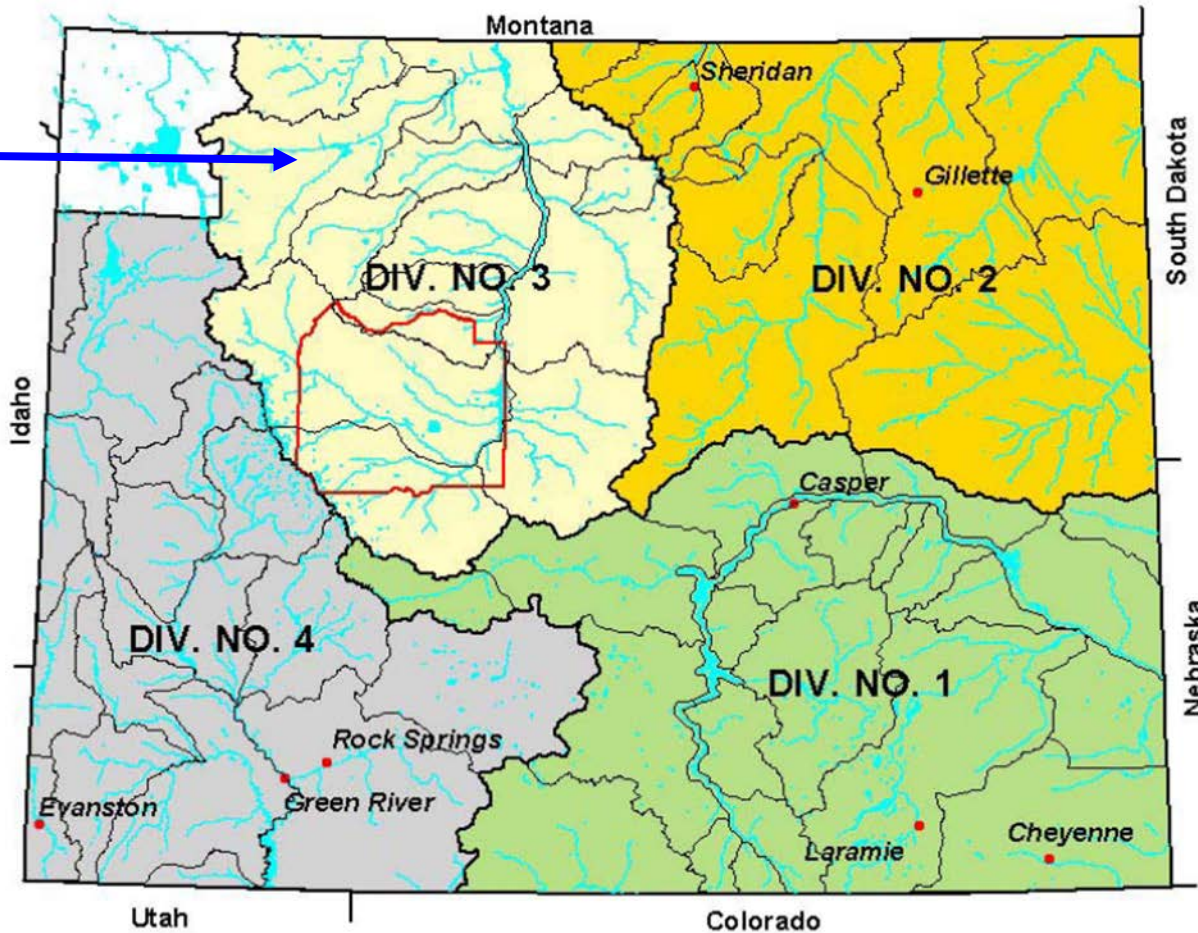
Division 3

Joshua
Fredrickson,
307-856-0747



Division 4

Kevin Payne,
307-279-3441

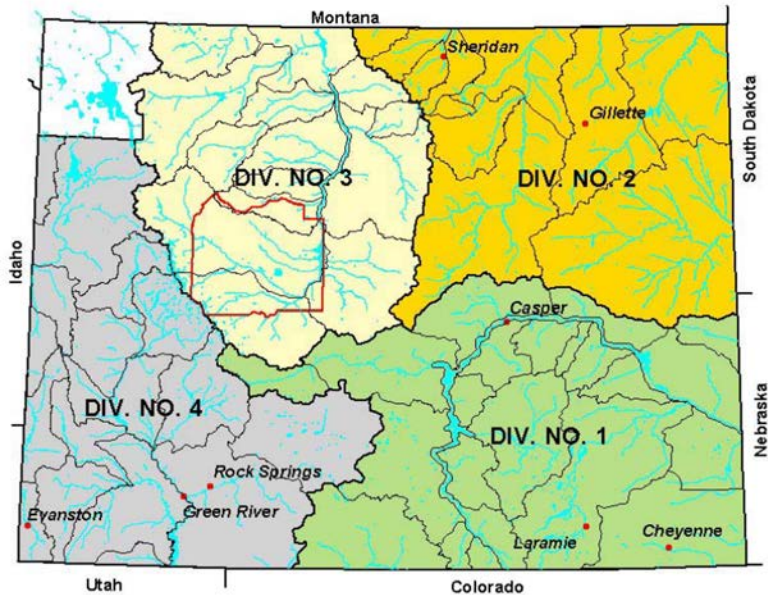


Division 2

David
Schroeder,
307-674-7012

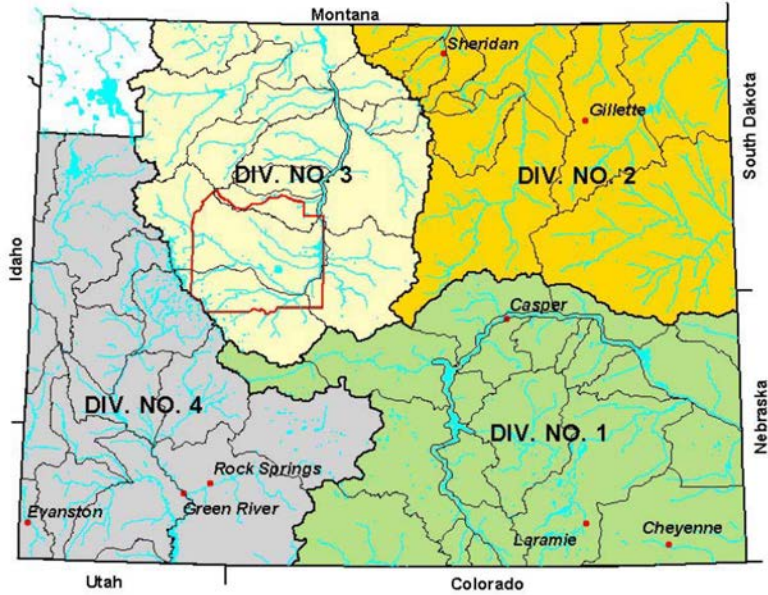
Division 1

Cory Rinehart,
307-532-2248



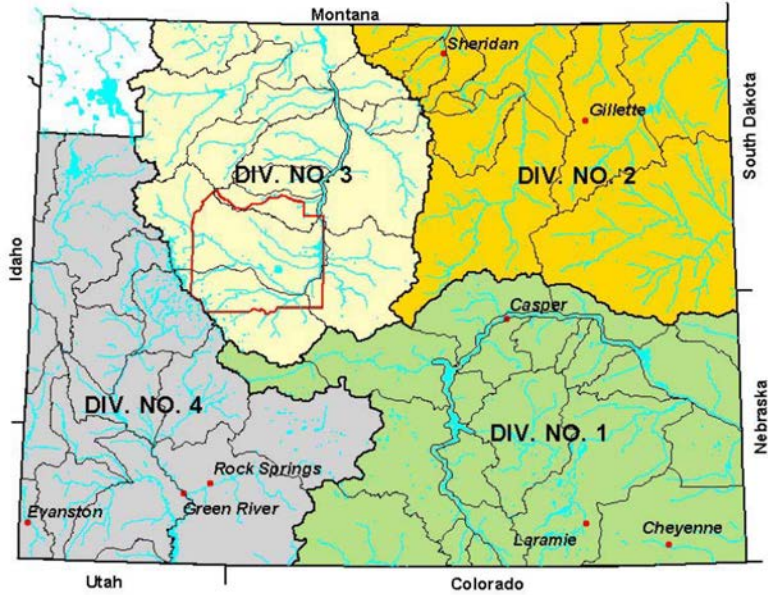
Division 1

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. May 6, 2022 call on Jack Creek and tribs, District 6, to a priority date of Spring 1882.
1. May 23, 2022 call on Bates Creek, District 11, to a priority date of 8/9/1886.
1. June 2, 2022 call on Bear Creek and tribs, District 2, to a priority date of 7/7/1891



Division 2

1. May 14, 2022 Call on Big Goose Creek, District 4
1. Some flooding near Sheridan and Buffalo

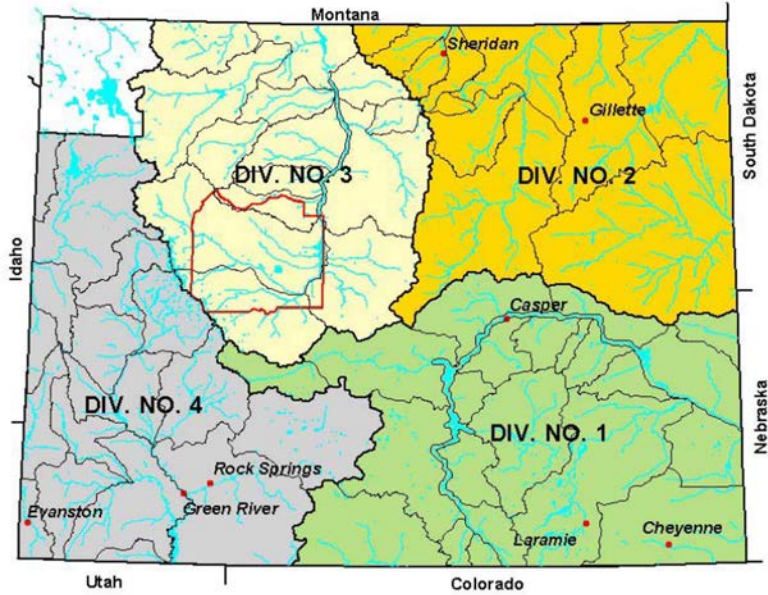


Division 3

1. All calls suspended at this time.



Division 4



1. April 29, 2022, call on North Piney Creek, District 10, to a priority date of 5/1/1888
1. May 9, 2022, call onf Central Bear River, District 2, multiple dates for interstate call
1. May 16, 2022, call on Fish Creek, District 10, to a priority date of 7/13/1889
1. May 17, 2022, call on Blacks Fork River, District 15, to a priority date of 6/20/1910
1. May 27, 2022, call on South Piney Creek, District 10, to a priority date of 12/31/1886
1. June 8, 2022, call on Smith's Fork, District 3, to a priority date of 3/2/1935



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



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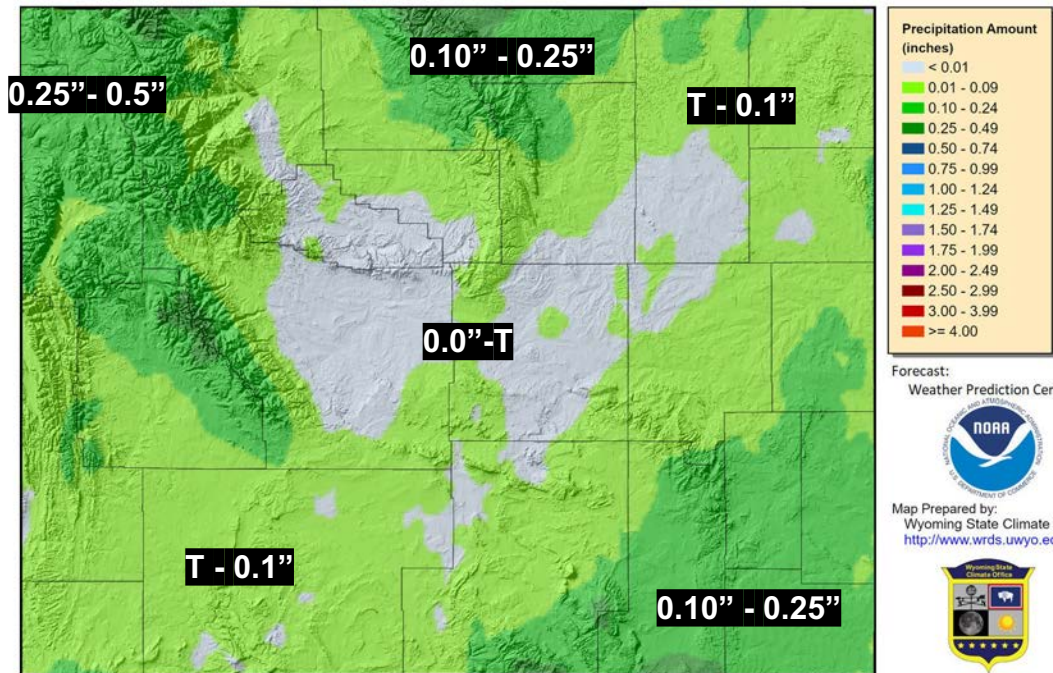
Forecasts & Outlooks



7-Day Total Precipitation Forecast

June 16 - June 23

7-Day Quantitative Precipitation Forecast 16 Jun 2022



Provisional data, subject to revision

Forecast:
Weather Prediction Center



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



- Warm to near Record Temperatures Friday and Saturday with slight cool down Sunday.
- Scattered showers Friday - Sunday across portions of the state.
- Slightly below average temperatures Monday behind cool front.
- Warming again through mid-next week.

Note: Forecast includes "Snow Water Equivalent" ≈ Rain + Melted Snow

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 16 Jun 2022 <http://www.wrds.uwyo.edu>

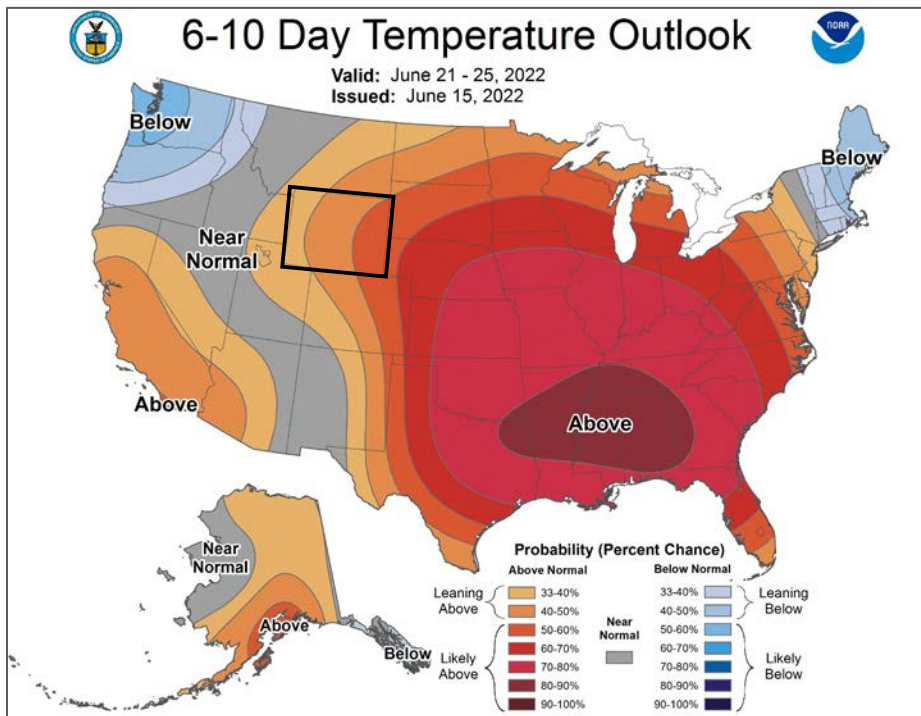
https://bit.ly/7_dayQPForecast



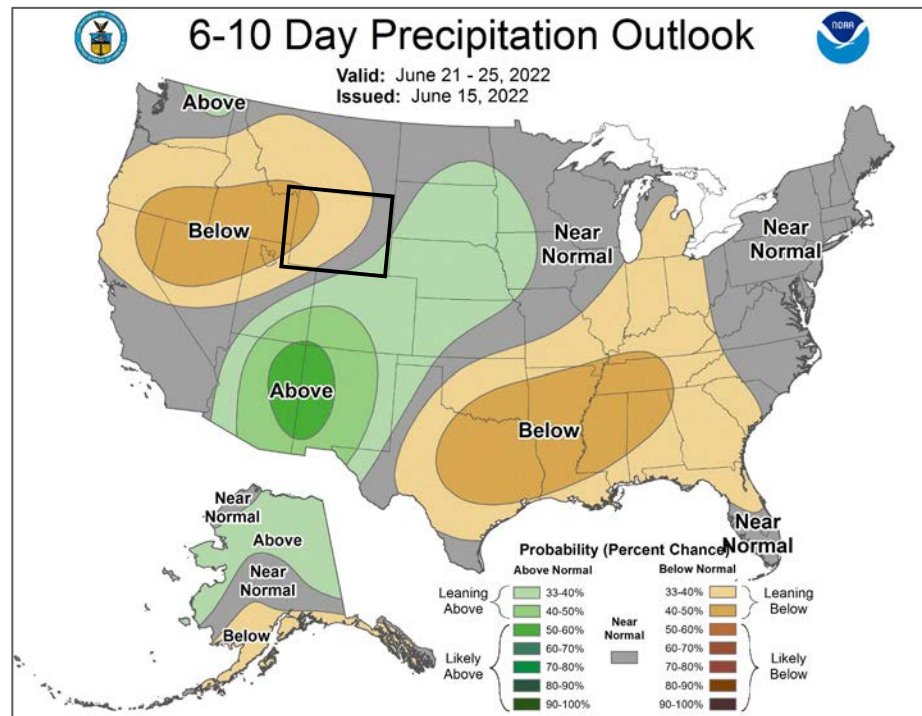
6-10 Day Temp & Precip Outlook

https://bit.ly/CPC6_10Day

June 21 - June 25



Above normal temperatures favored, especially east WY



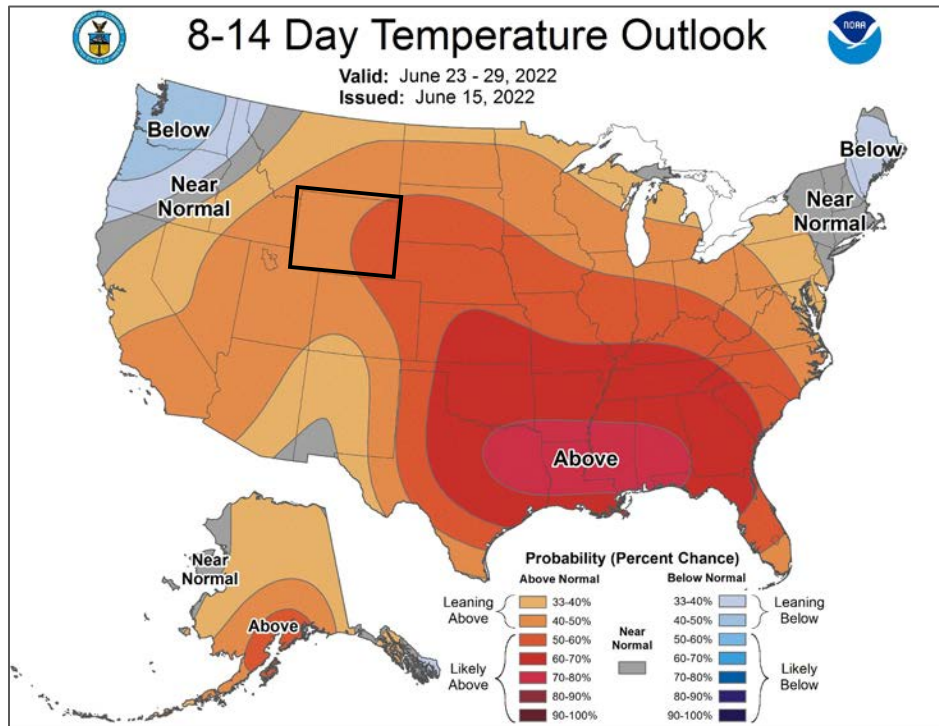
Favored Slightly below normal central & west to near normal east



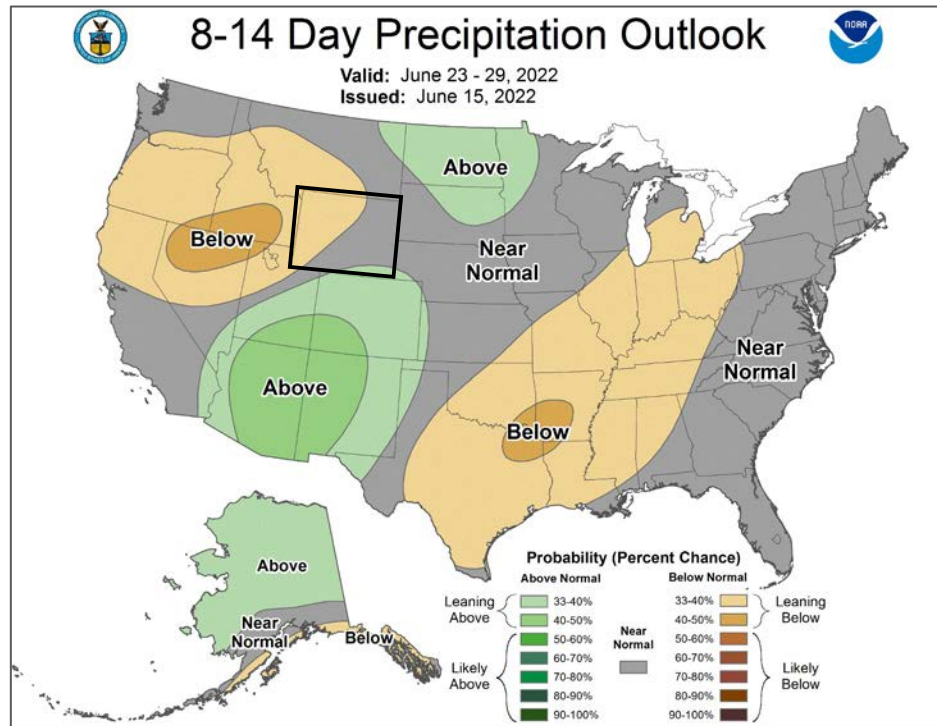
8-14 Day Temp & Precip Outlook

June 23 - June 29

https://bit.ly/CPC8_14Day



Above normal temperatures favored, especially east WY



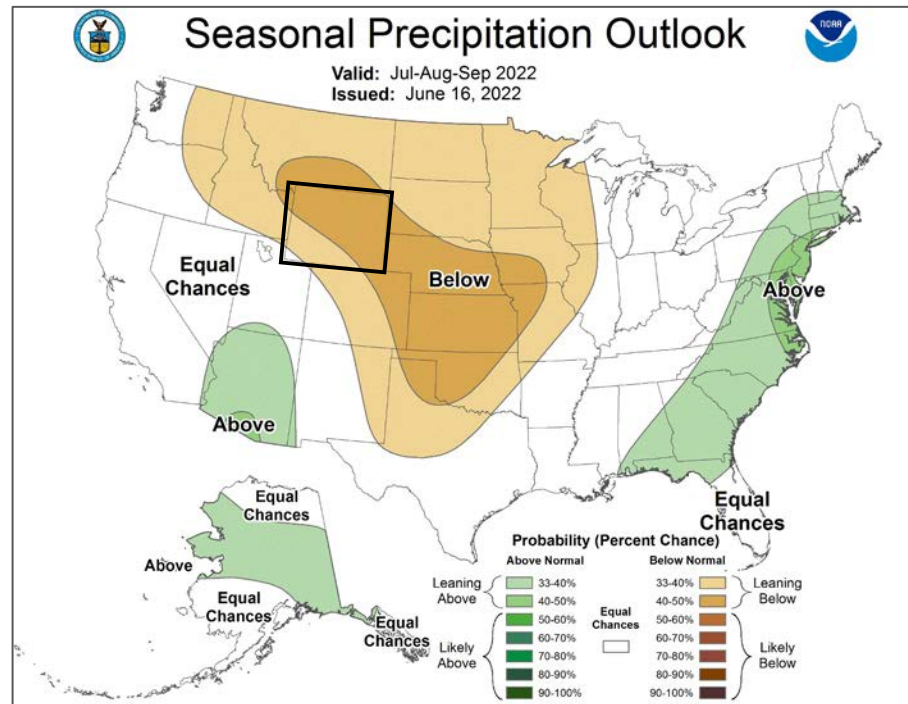
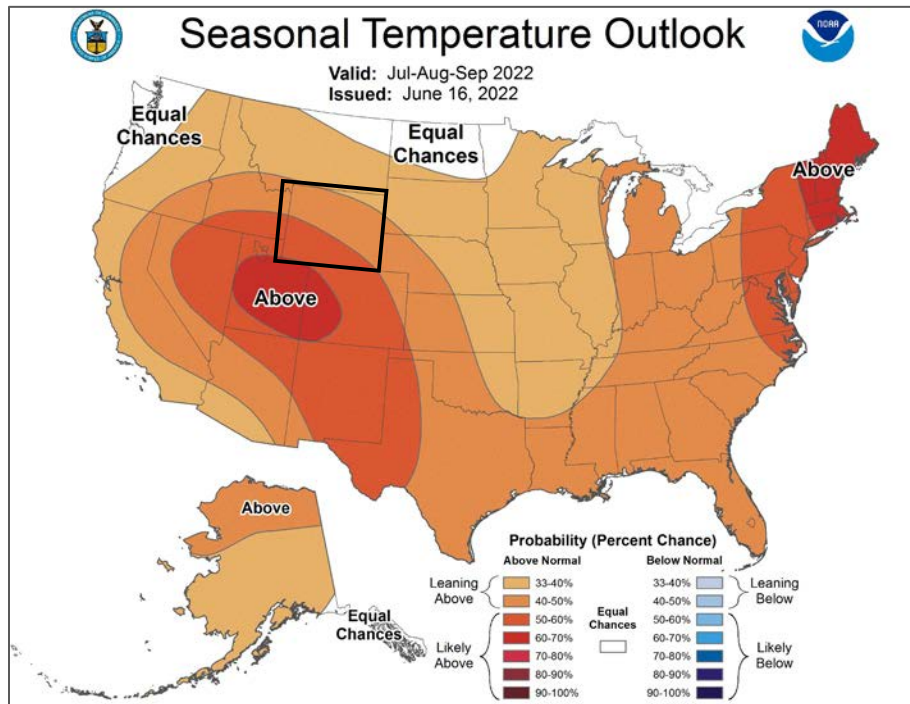
Favored Slightly below normal central & west to near normal east



3-Month Temp & Precip Outlook

https://bit.ly/CPC_Seasonal

June - August 2022



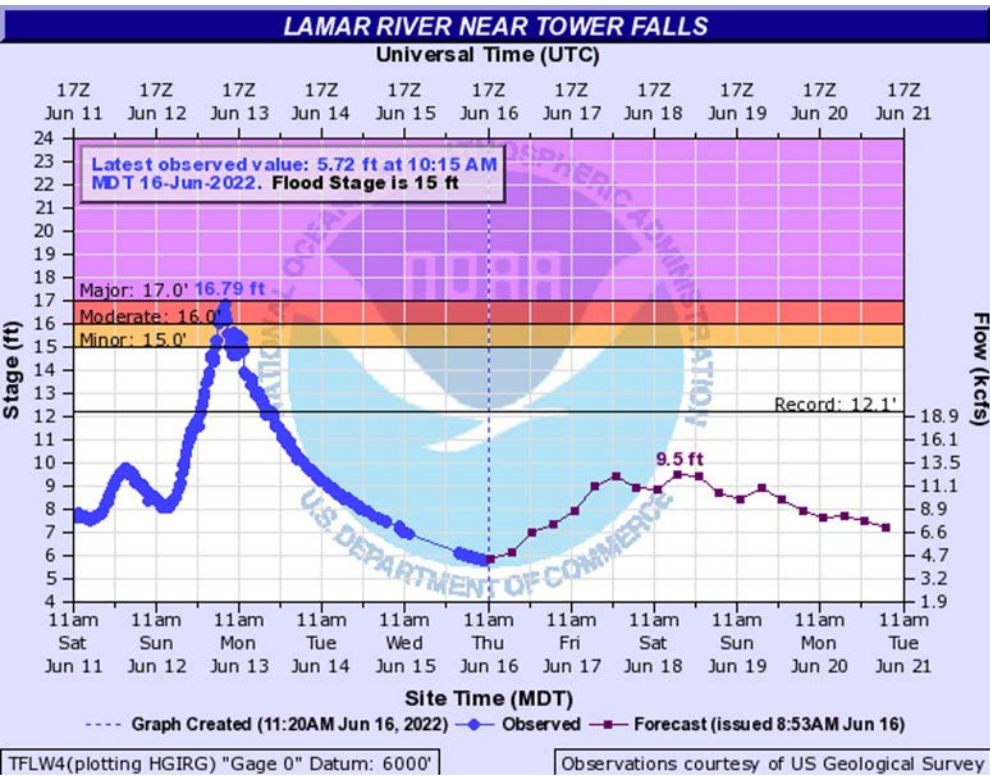
Above normal temperatures favored, especially south/southwest WY

Favored Slightly below normal central & west to near normal east



Lamar River Near Tower Falls

June 9 - June 19 Observations & Forecast



- Heavy rains on a rich snowpack resulted in record flooding in the Lamar and Yellowstone Rivers.
- 2 to 6 inches of rain were recorded in the area. High temps elsewhere brought high river levels across western WY.
- All entrances to Yellowstone closed 6/14 and 6/15, at least.
- Another round of rainfall, near record warmth aiding snowmelt, will likely result in additional rise/streamflow.



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)- ¼" to 1" Dead Fuels

1-Hour Fuel Moisture (1-hr FM)- 0" to ¼" 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.

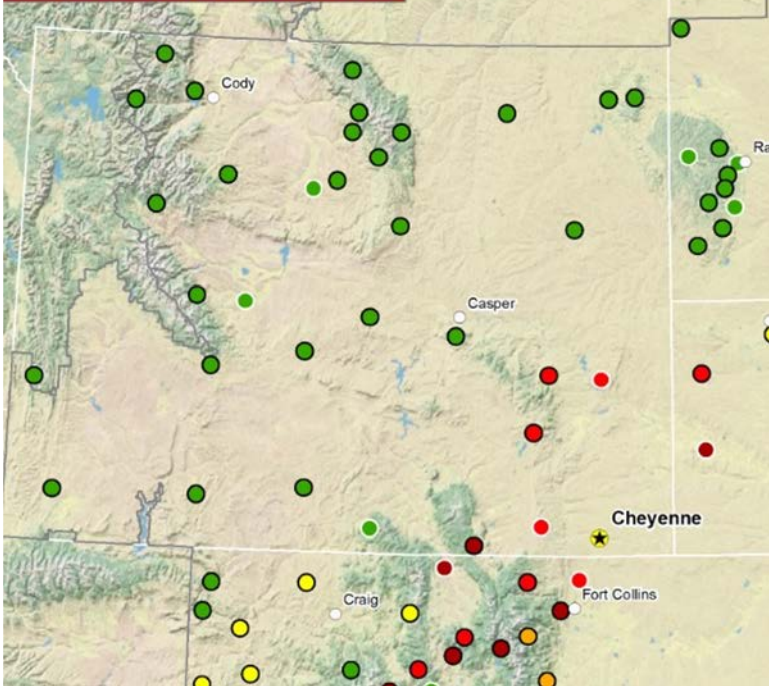


Energy Release Component

Current Status as of 06/15/2022

ERC-Y Percentiles

RAWS Observations From:
Wed 06/15/2022 @ 1300 Hrs



*This map is based on
RAWS ERC values
taken directly from WIMS.
The percentile break-
points are derived from a
15 year database (May-
Sep 2006-2020).

- Green : below 50th
- Yellow : 50th to 69th
- Orange : 70th to 79th
- Red : 80th to 89th
- Dark Red : 90th to 96th
- Purple : 97th and above

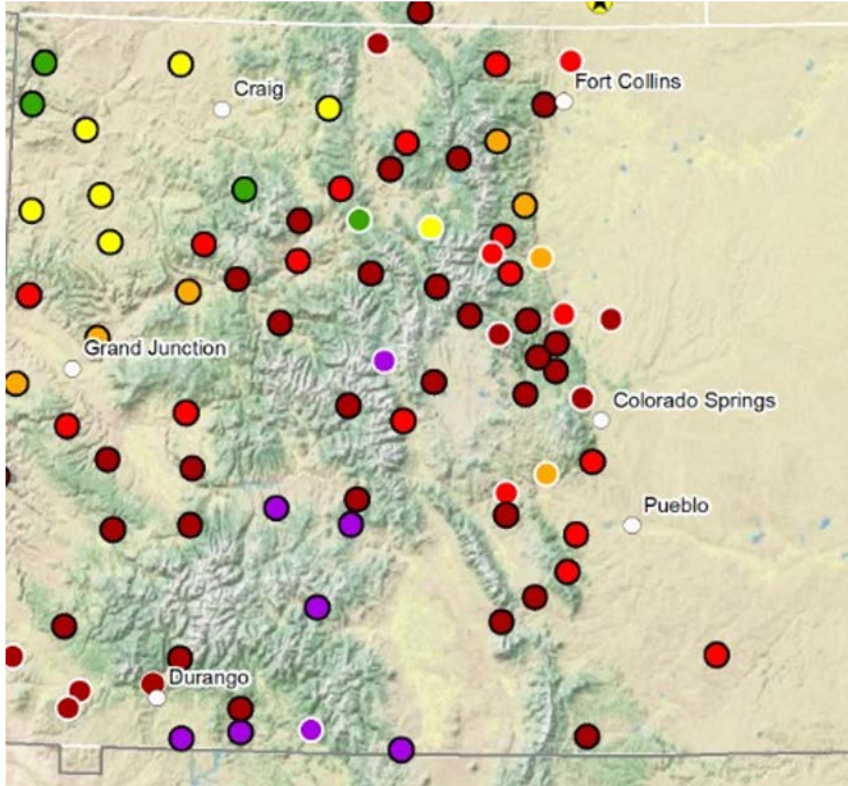
+ Above Record
High (2006-2020)
for this Date

- Values are relative to this date in history.
- South-East Wyoming 80th+ Percentiles
- Rest of Wyoming still quite green. Lower ERCs due to live fuel component.



Energy Release Component

Current Status as of 06/16/2022



*This map is based on
RAWS ERC values
taken directly from WIMS.
The percentile break-
points are derived from a
15 year database (May-
Sep 2006-2020).

Green	: below 50 th
Yellow	: 50 th to 69 th
Orange	: 70 th to 79 th
Red	: 80 th to 89 th
Dark Red	: 90 th to 96 th
Purple	: 97 th and above

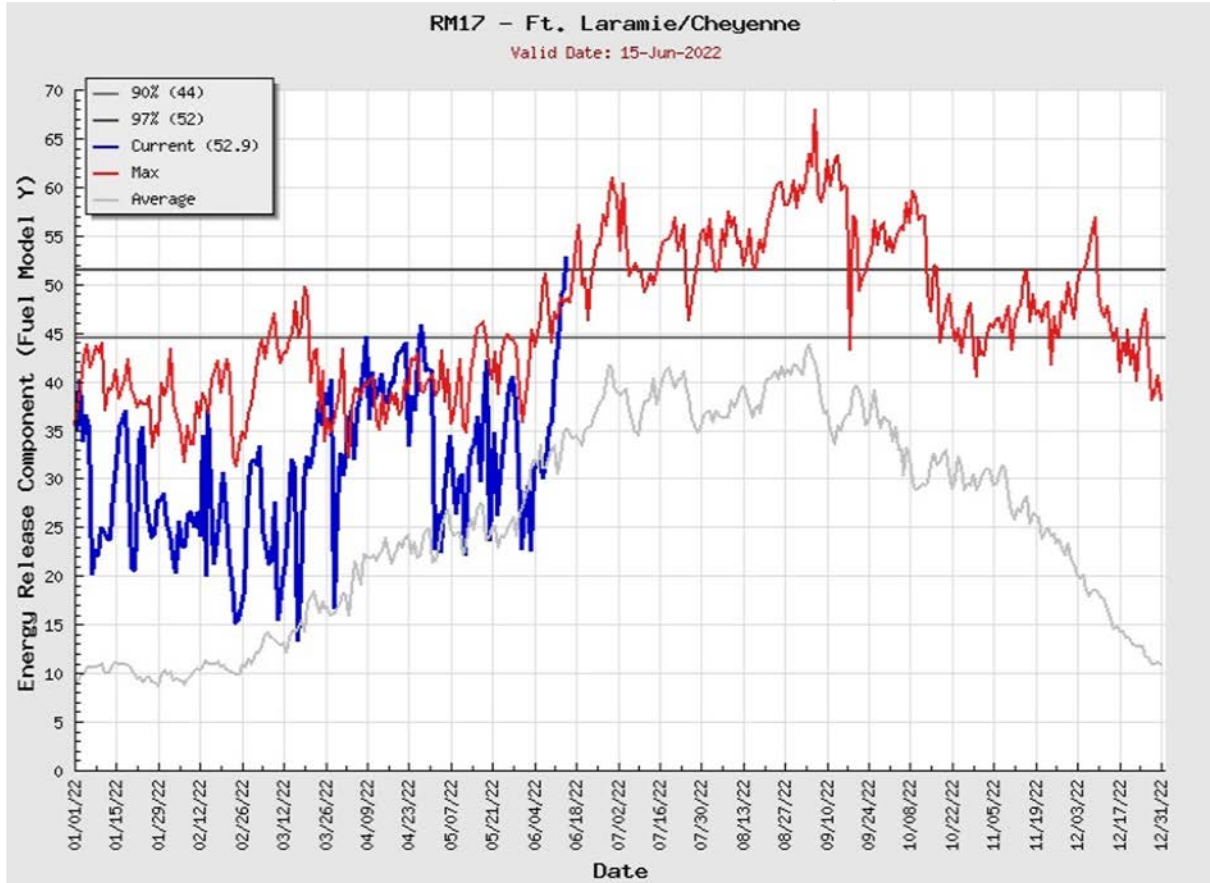
+ Above Record
High (2006-2020)
for this Date

- Values are relative to this date in history.
- Colorado ERC Values- Many areas above 90th and other areas 97th+



Energy Release Component

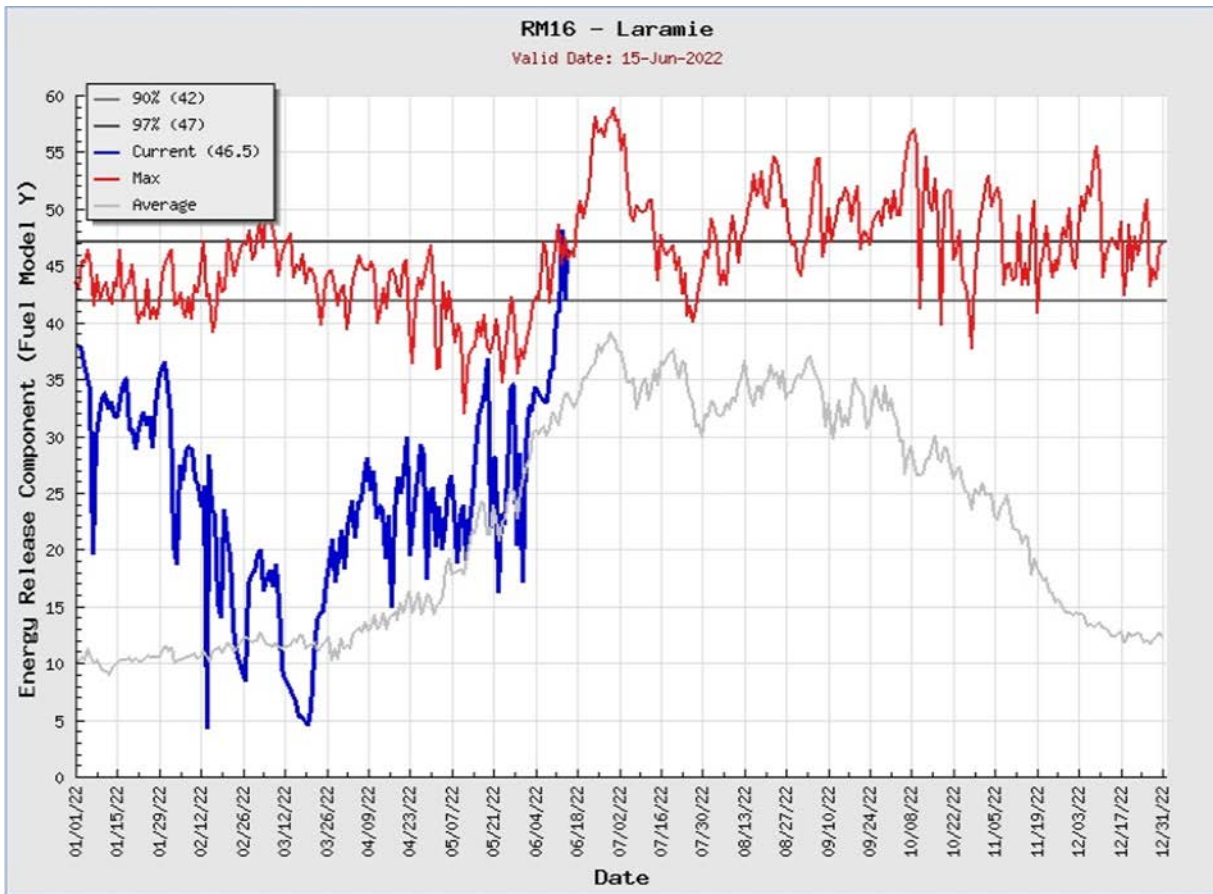
Current Status: Ft. Laramie/Cheyenne (valid 6/15/22)





Energy Release Component

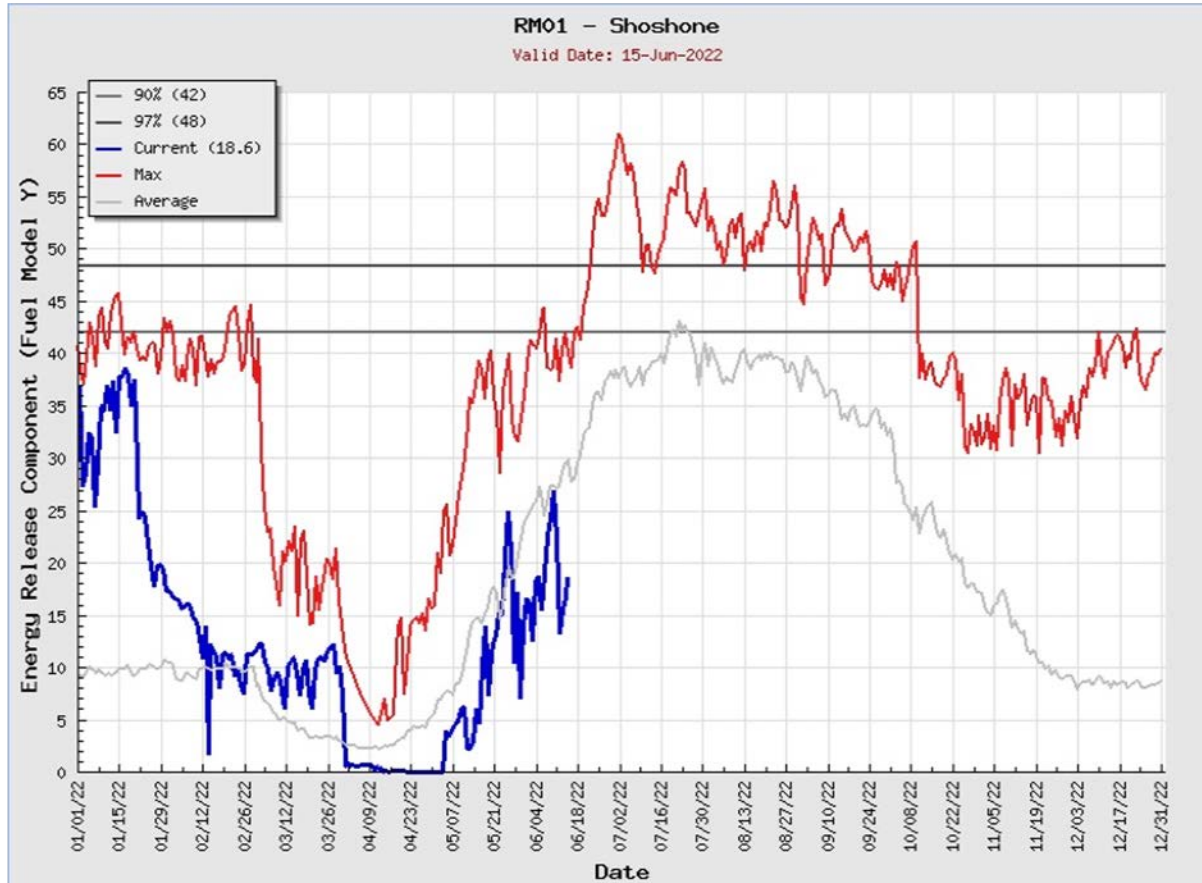
Current Status: Laramie (valid 6/15/22)





Energy Release Component

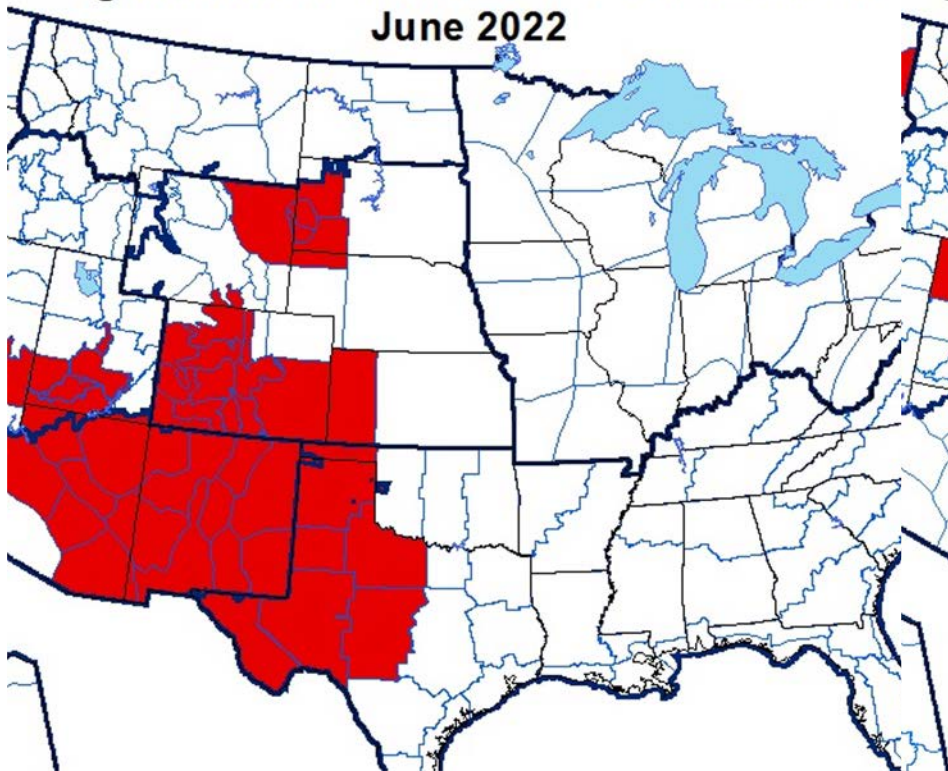
Current Status: Shoshone (valid 6/15/22)



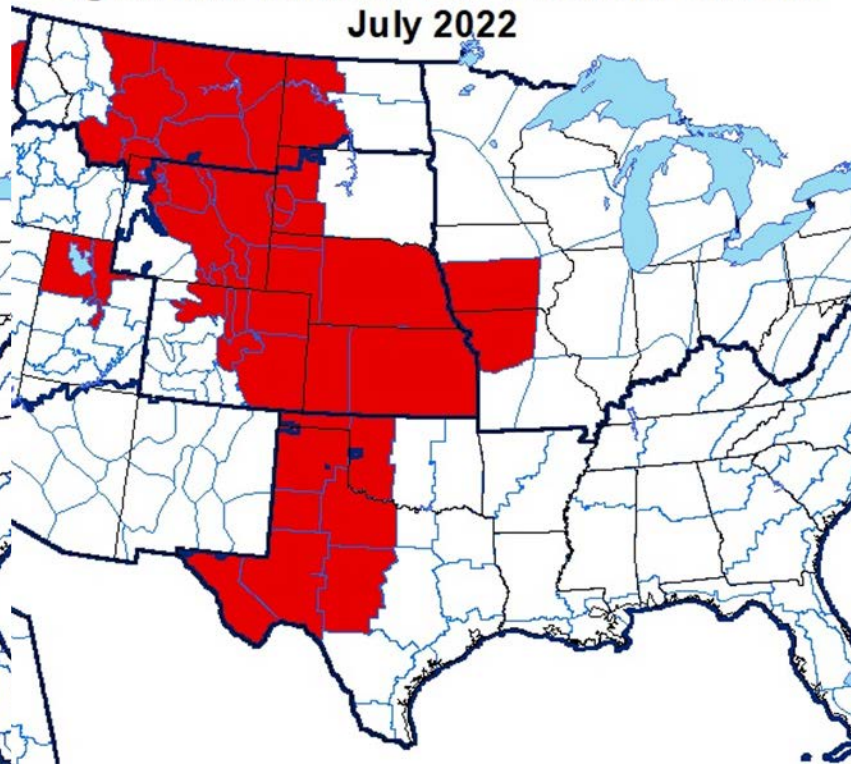


Seasonal Outlooks

**Significant Wildland Fire Potential Outlook
June 2022**

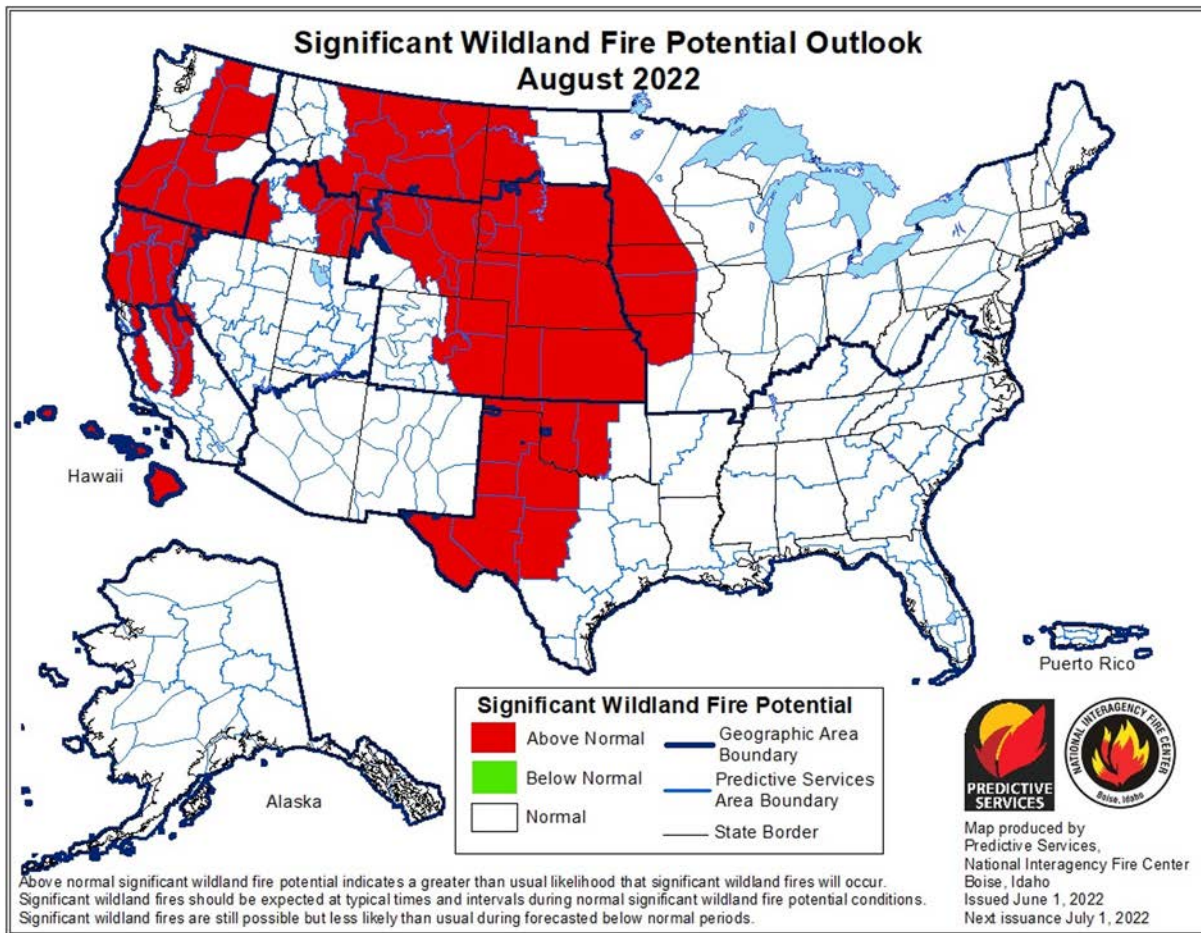


**Significant Wildland Fire Potential Outlook
July 2022**





Seasonal Outlooks





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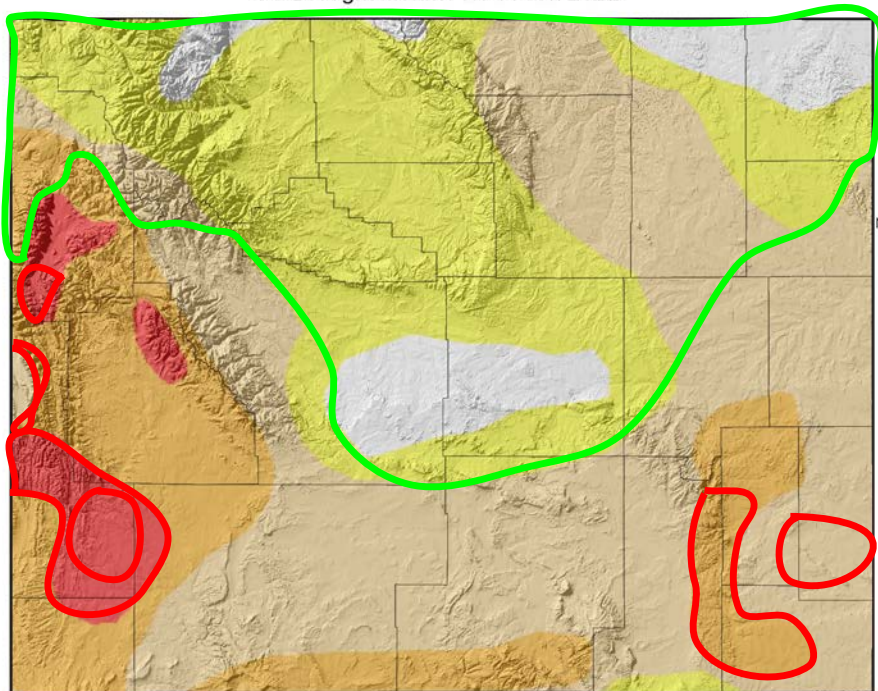
How to get involved ...

US Drought Monitor for June 14, 2022

(Released Thursday, June 16, 2022)

Valid 8 a.m. EDT

US Drought Monitor for 14 Jun 2022



US Drought Monitor	
26.75%	D0 Abnormally Dry
45.50%	D1 Moderate Drought
18.80%	D2 Severe Drought
5.11%	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 and **degradations** in the last month. Recent precipitation is starting to erode some of the areas but longer term dryness is filling in others.

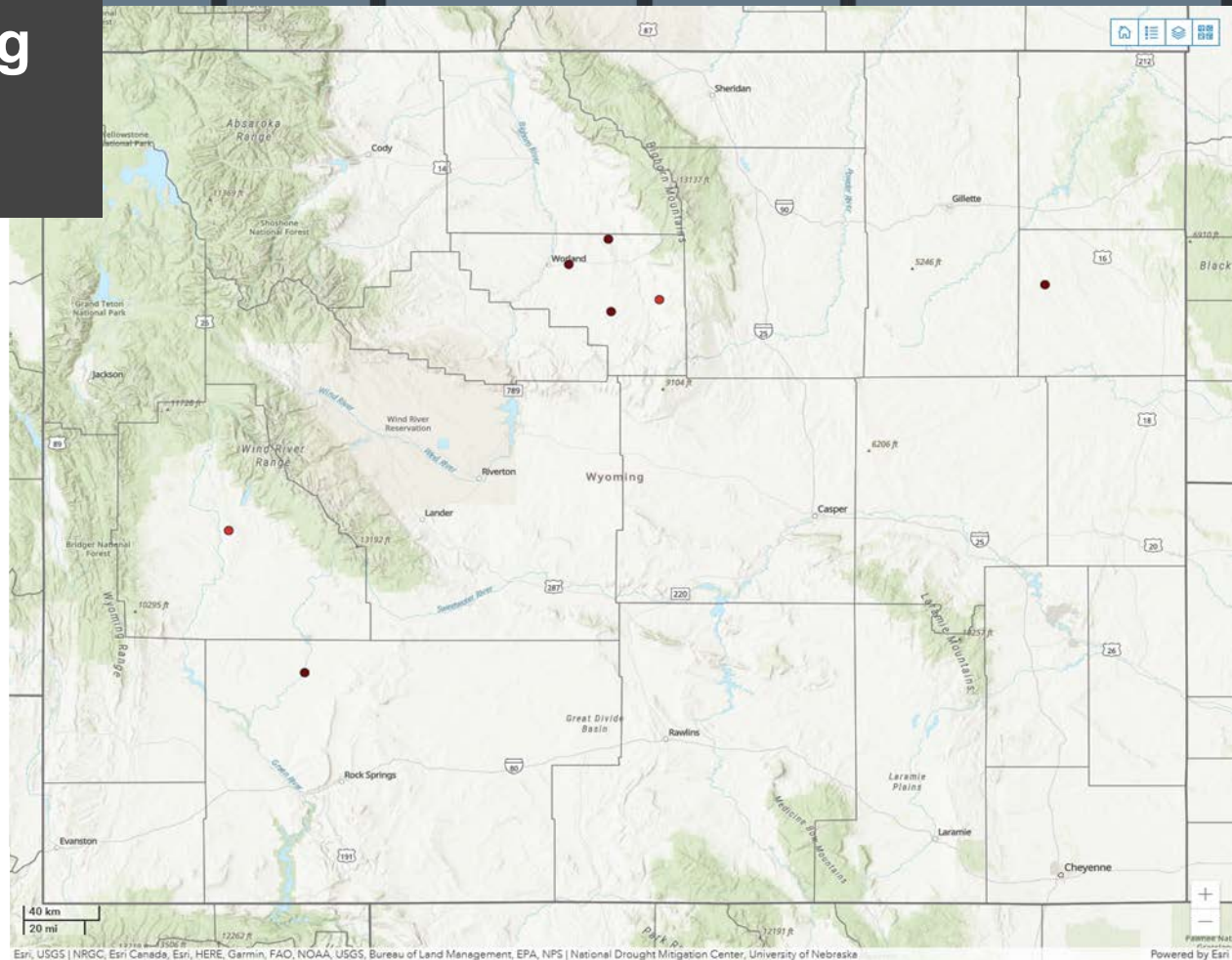
The U.S. Drought Monitor, is a weekly map of drought conditions produced jointly by the National Oceanic and Atmospheric Administration, the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC) at the University of Nebraska-Lincoln. The U.S. Drought Monitor website is hosted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

Map Layout Created 16 Jun 2022 <http://www.wrds.uwyo.edu>

Condition Monitoring Observer Reports

<https://bit.ly/CMOReports>

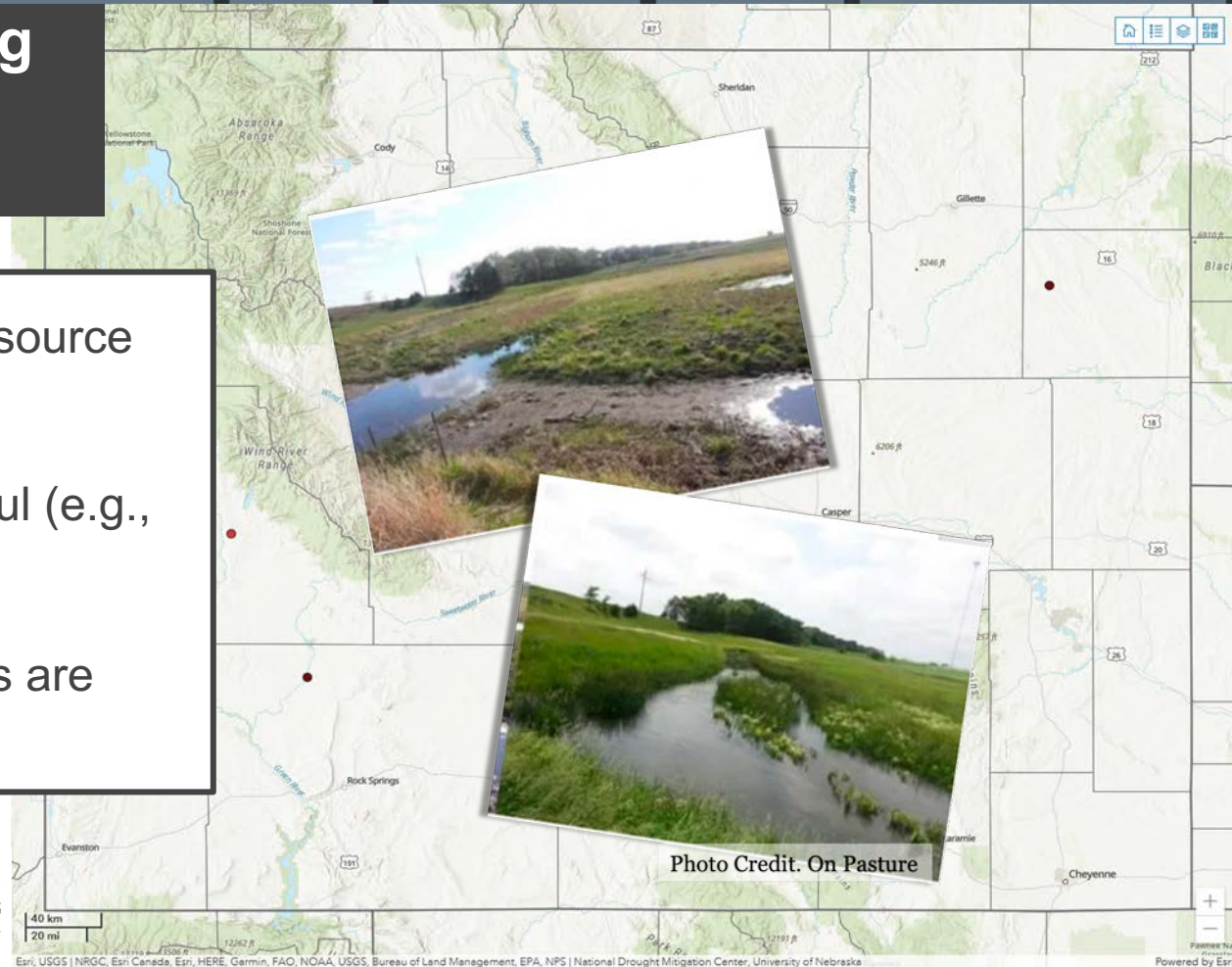
- Severely Dry
- Moderately Dry
- Mildly Dry
- Near Normal
- Mildly Wet
- Moderately Wet
- Severely Wet



Condition Monitoring Observer Reports

<https://bit.ly/CMOReports>

- Comparison photos → resource conditions
- Regular reporting is helpful (e.g., monthly)
- **Note:** Reports and photos are available to the public.

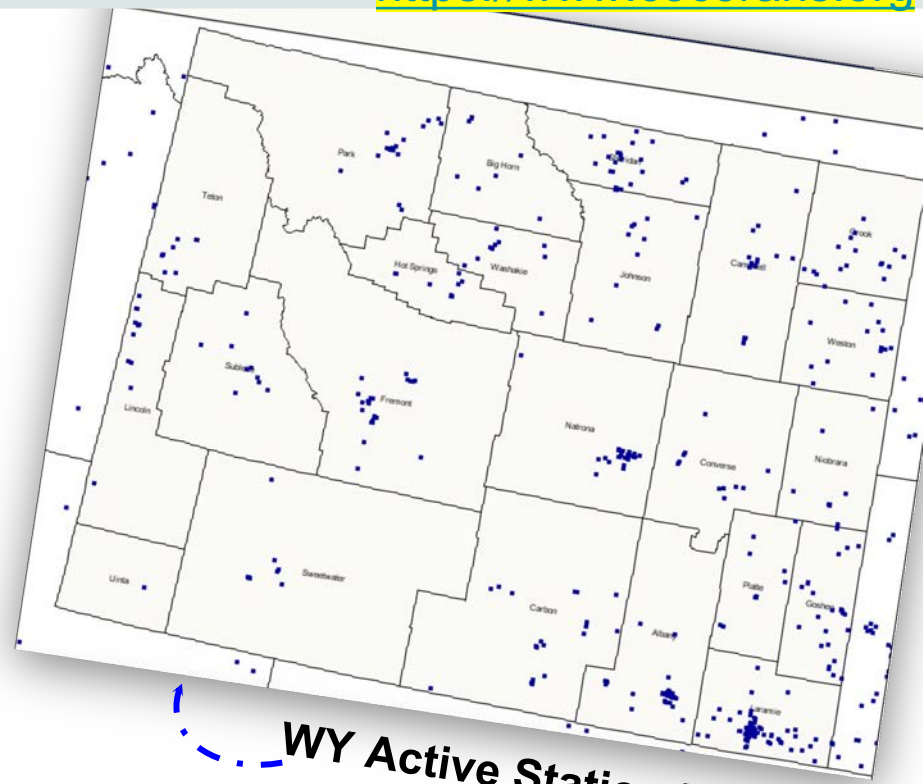
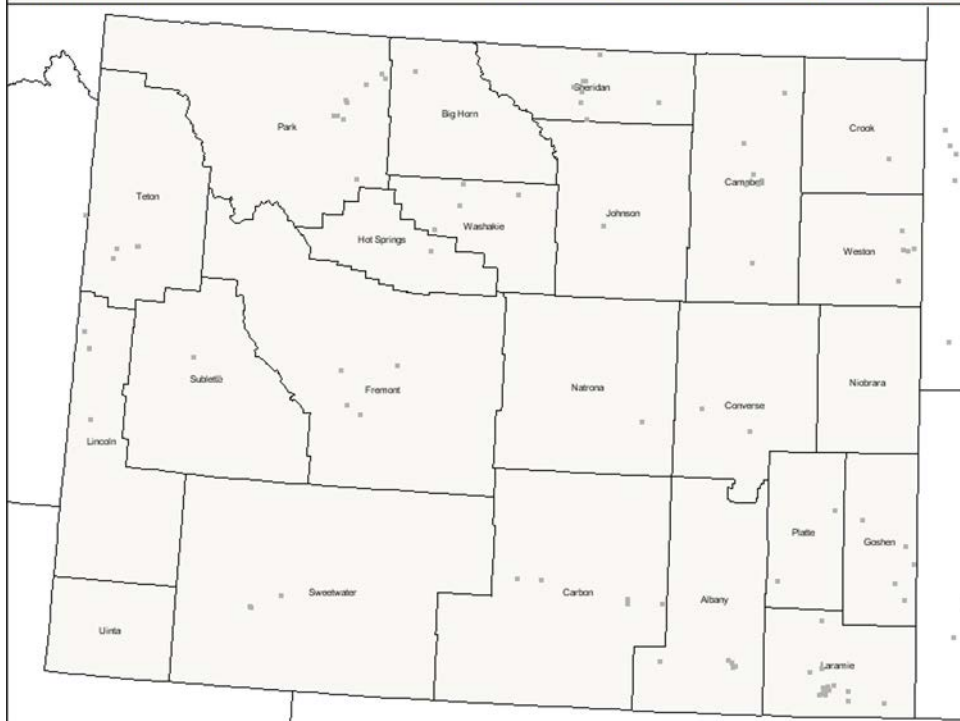


June 16, 2022:
24-hour precip as of ~ 7 am

Daily Precipitation (inches x.xx), for the 24 hour period ending ~7:00 am

Wyoming 6/16/2022

0.0 Trace 0.01-0.01 0.02-0.02 0.03-0.03 0.04-0.04 0.05-0.05 0.06-0.06



WY Active Station Locations

0.0 Trace 0.01-0.01 0.01-0.02 0.02-0.03 0.03-0.04 0.04-0.05 0.05-0.06





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UNIVERSITY
of WYOMING

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Bureau of Land Management

jjpeters@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>

Thank you! Questions?