



# **Utah Drought Monitor Feedback Webinar**

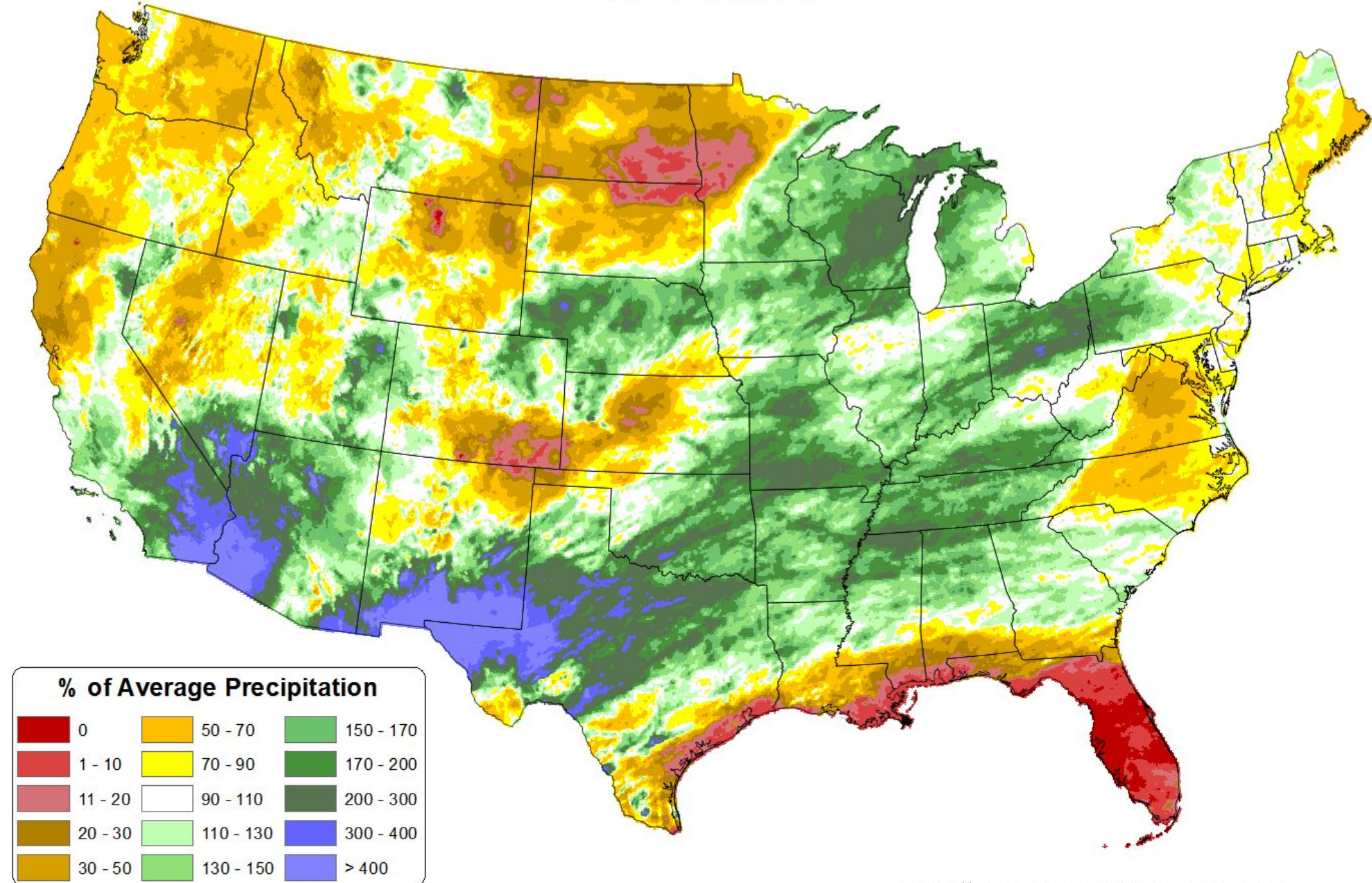
**May 7, 2020**

# Total Precipitation Anomaly: Mar 2020

Period ending 31 Mar 2020

Base period: 1981-2010

(Map created 17 Apr 2020)



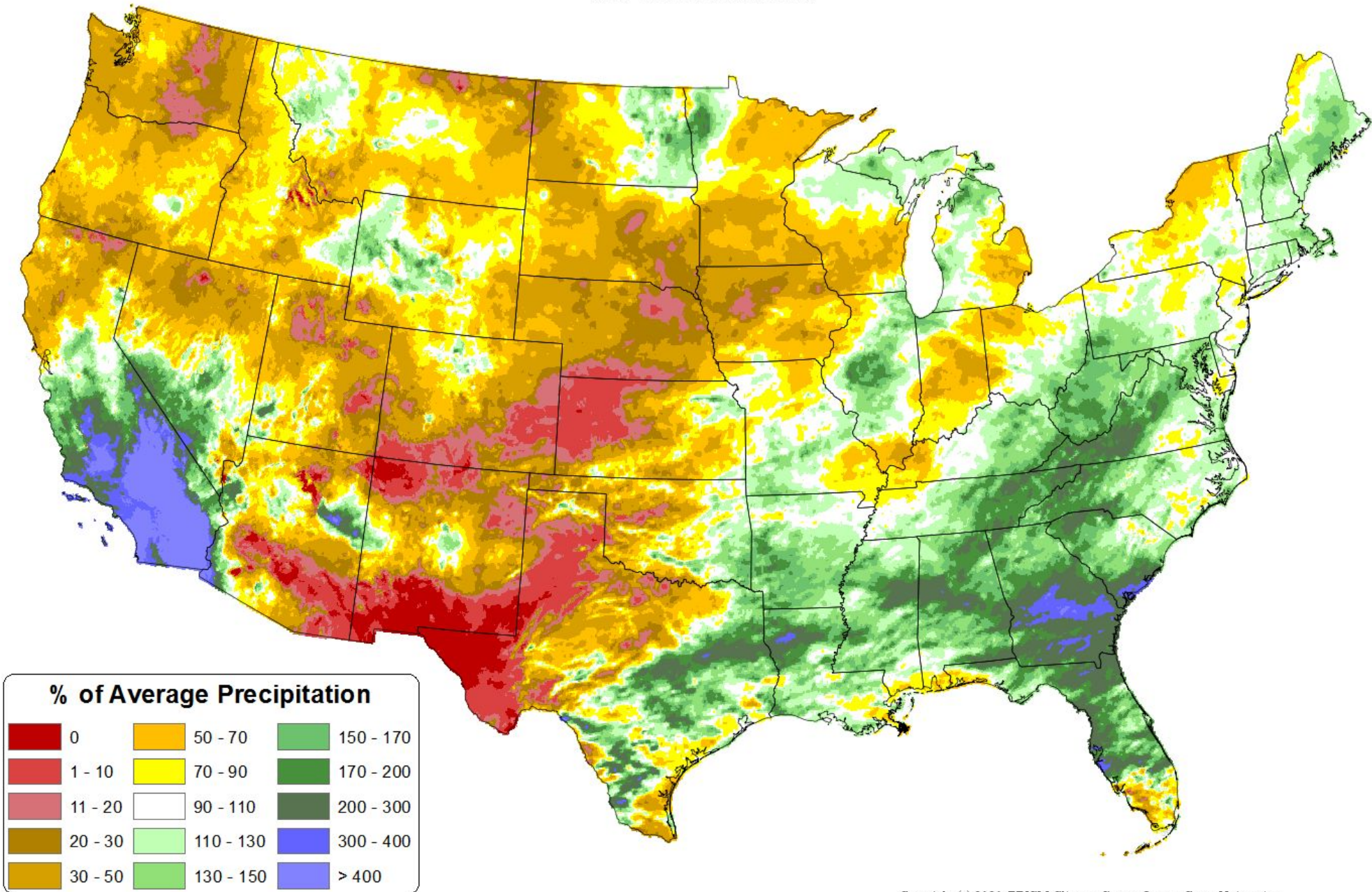


# Total Precipitation Anomaly: Apr 2020

Period ending 30 Apr 2020

Base period: 1981-2010

(Map created 02 May 2020)



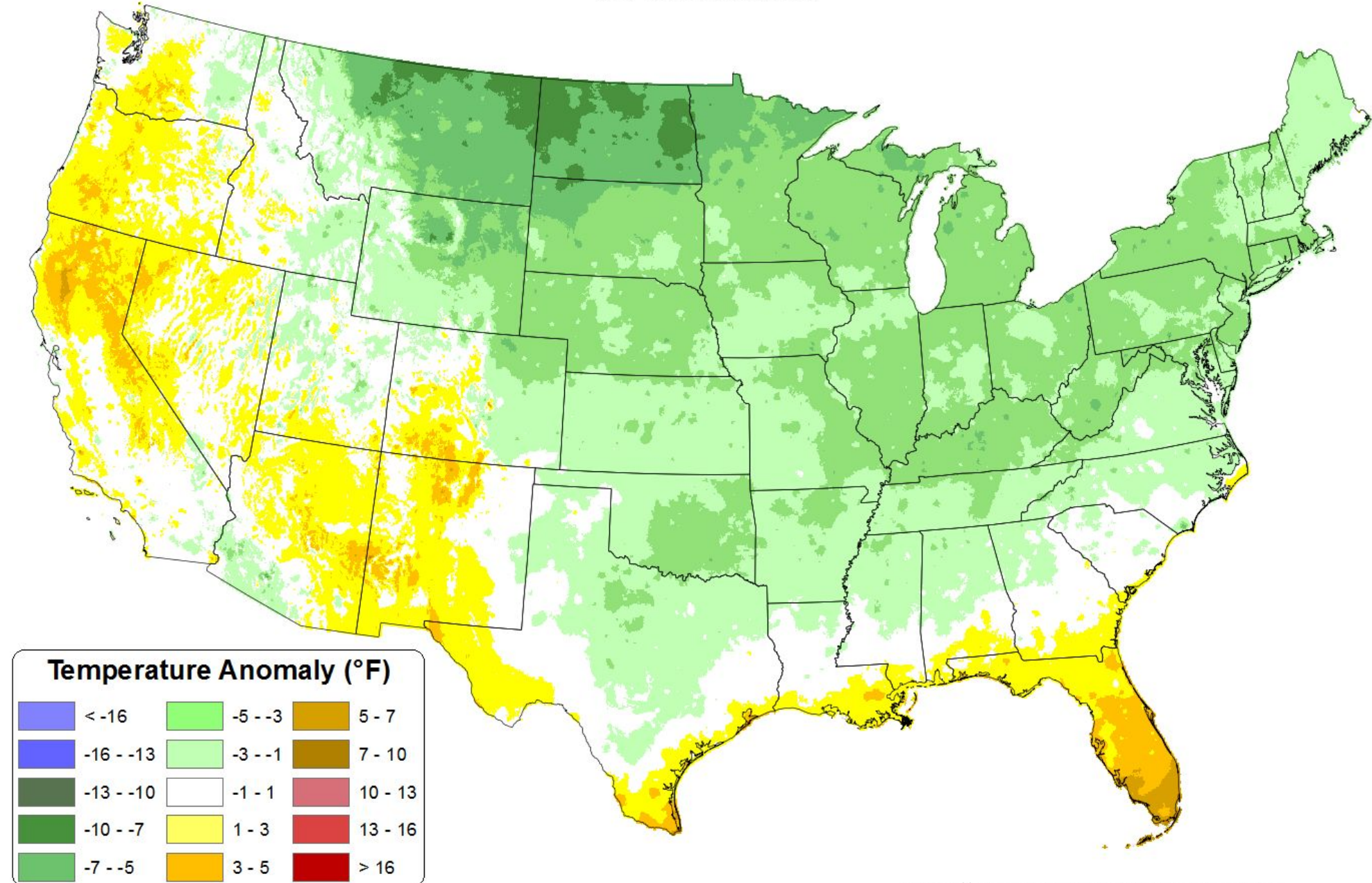


# Daily Mean Temperature Anomaly: Apr 2020

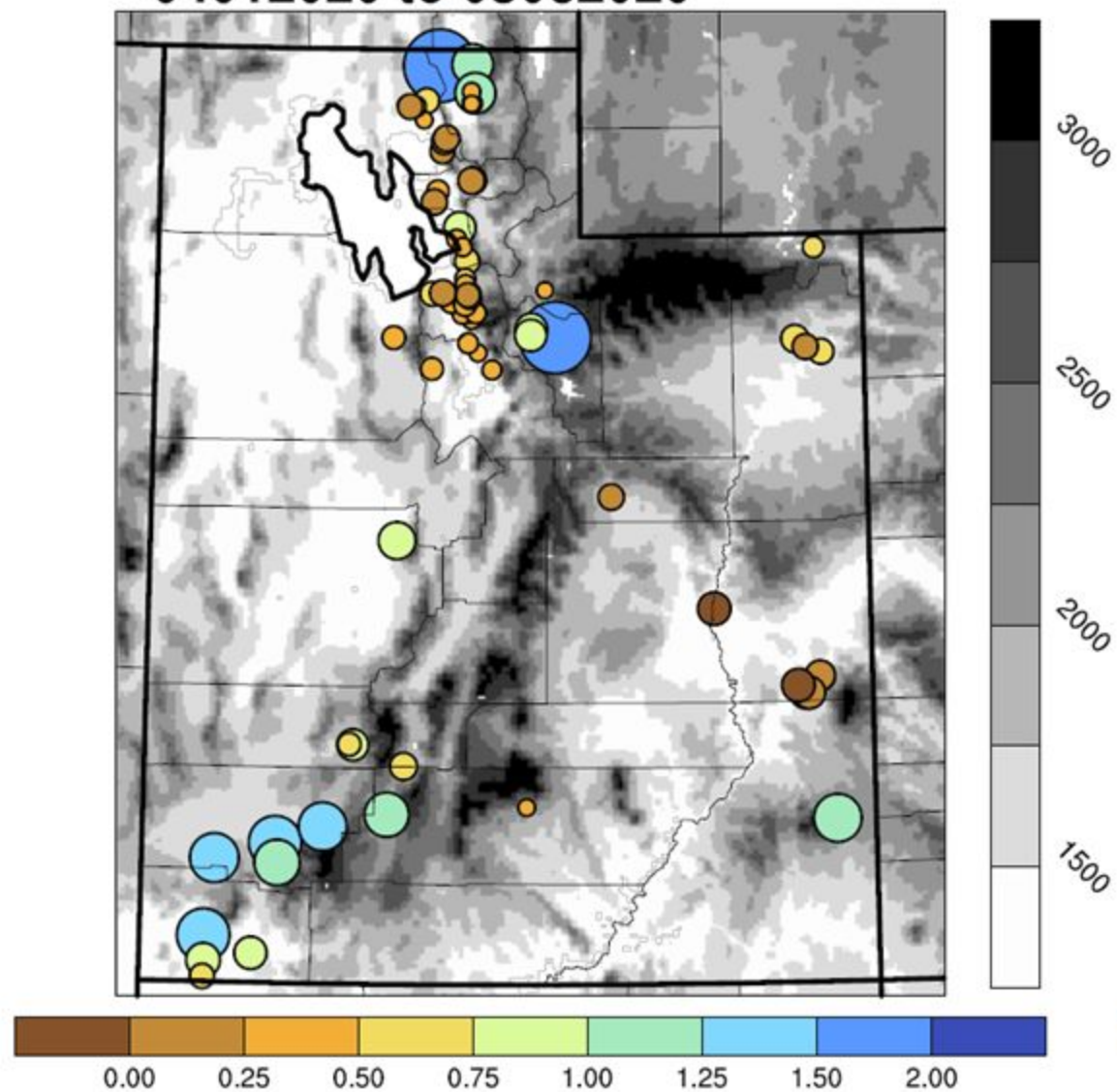
Period ending 7 AM EST 30 Apr 2020

Base period: 1981-2010

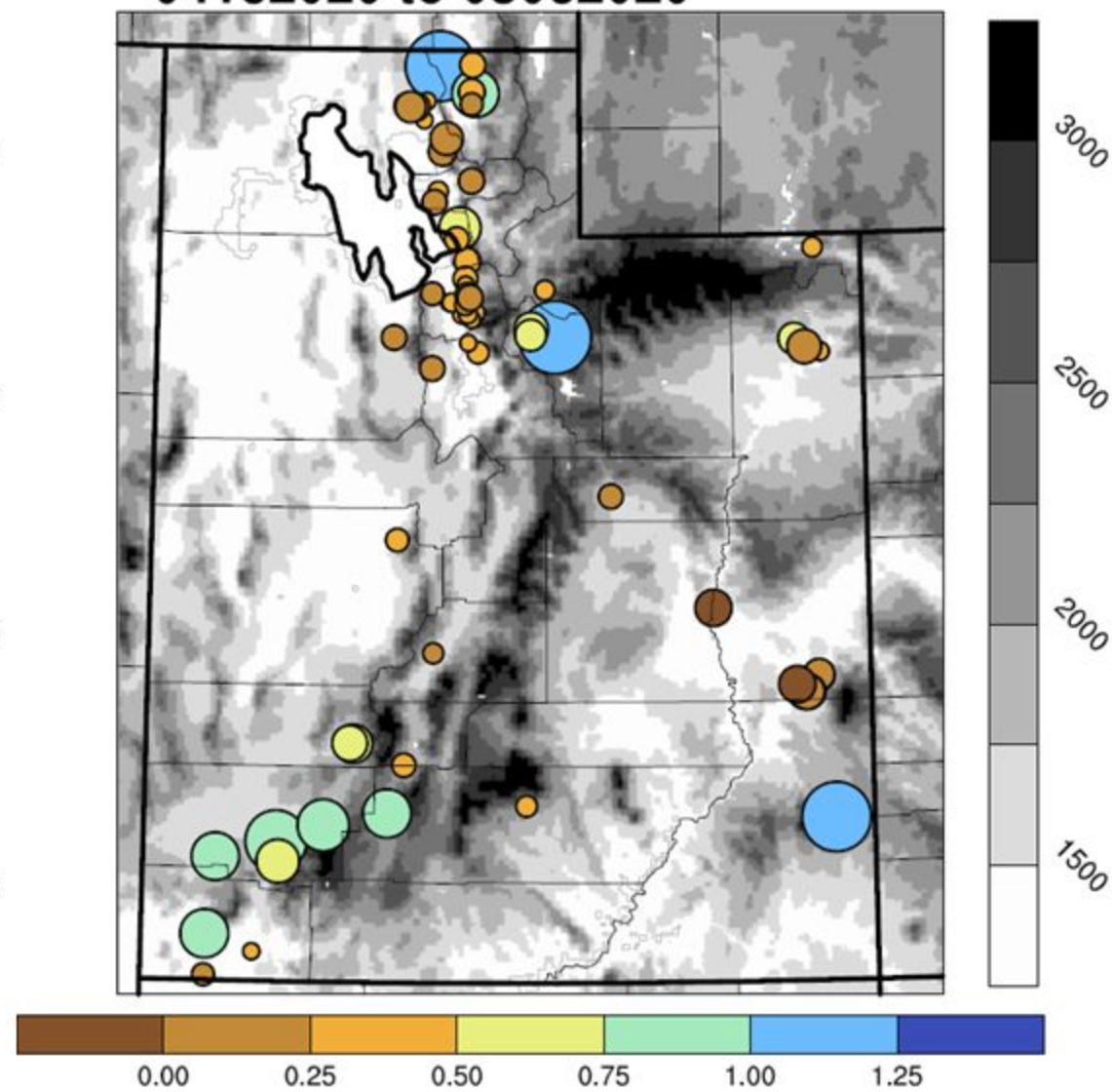
(Map created 02 May 2020)



**CoCoRaHS Total Liquid Precip:  
04012020 to 05062020**



**CoCoRaHS Total Liquid Precip:  
04162020 to 05062020**



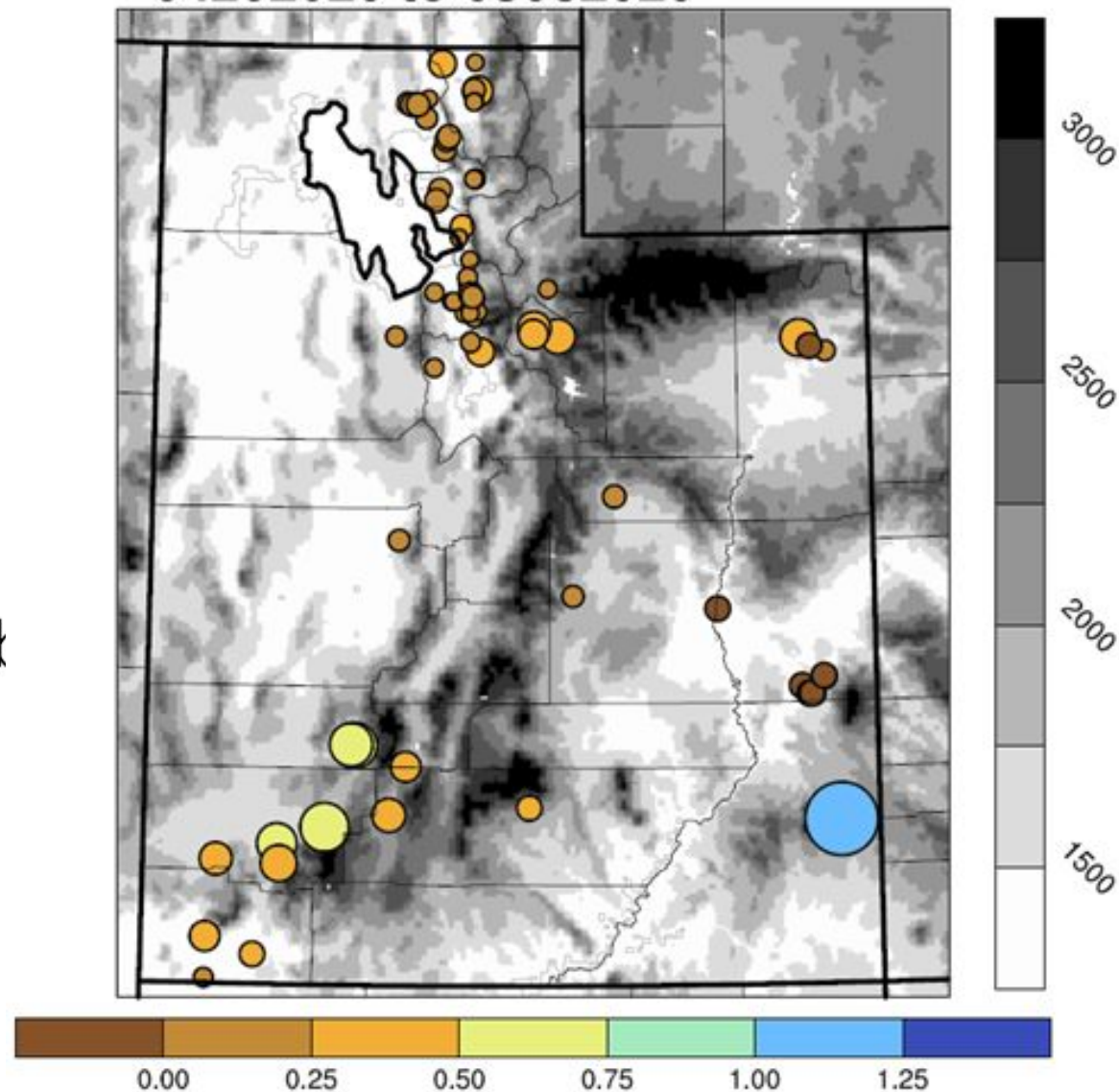


# CoCoRaHS Summary

- Overall a drier last few weeks than early April
- Continued dry conditions for northern Utah
- Southwest Utah has benefited from several rain events k drier in recent weeks.

- ❑ Software to query and process all Utah weather stations for precip 90% complete and tested.
- ❑ Software to create daily 1km soil moisture maps is on deck.

**CoCoRaHS Total Liquid Precip:  
04202020 to 05062020**

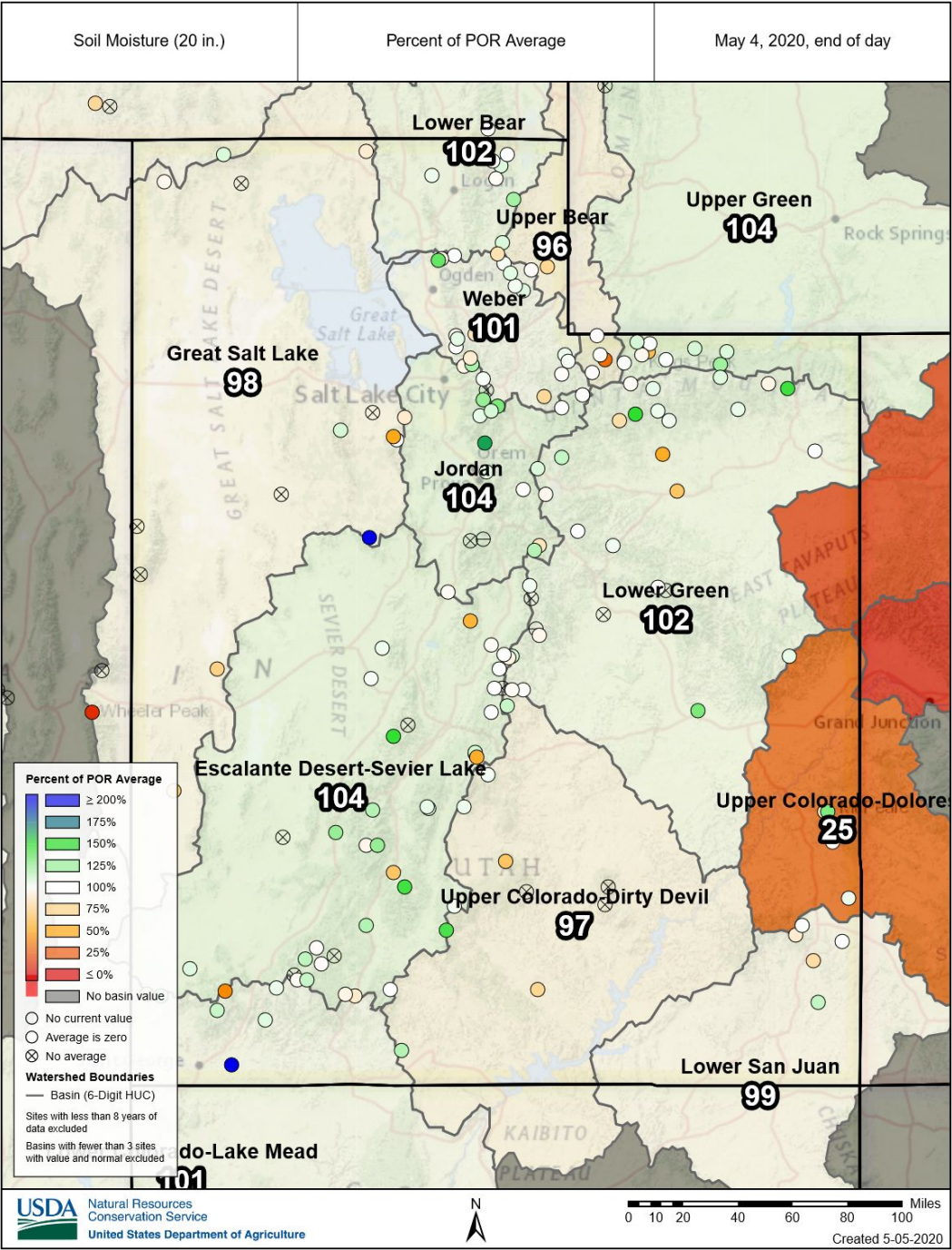


# Soil Moisture (Current)

## 20" SM sensor

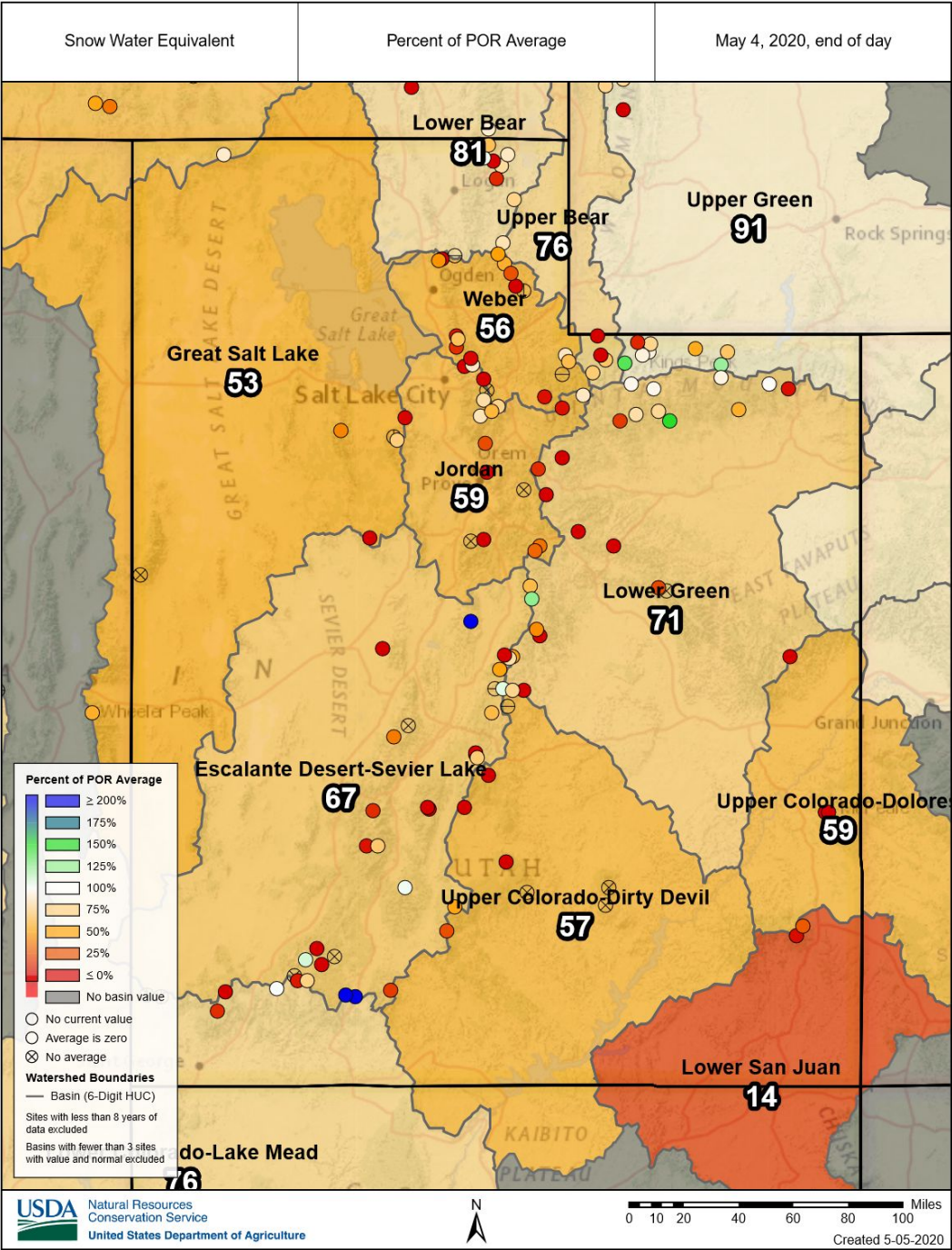
## station & basin conditions

## NRCS



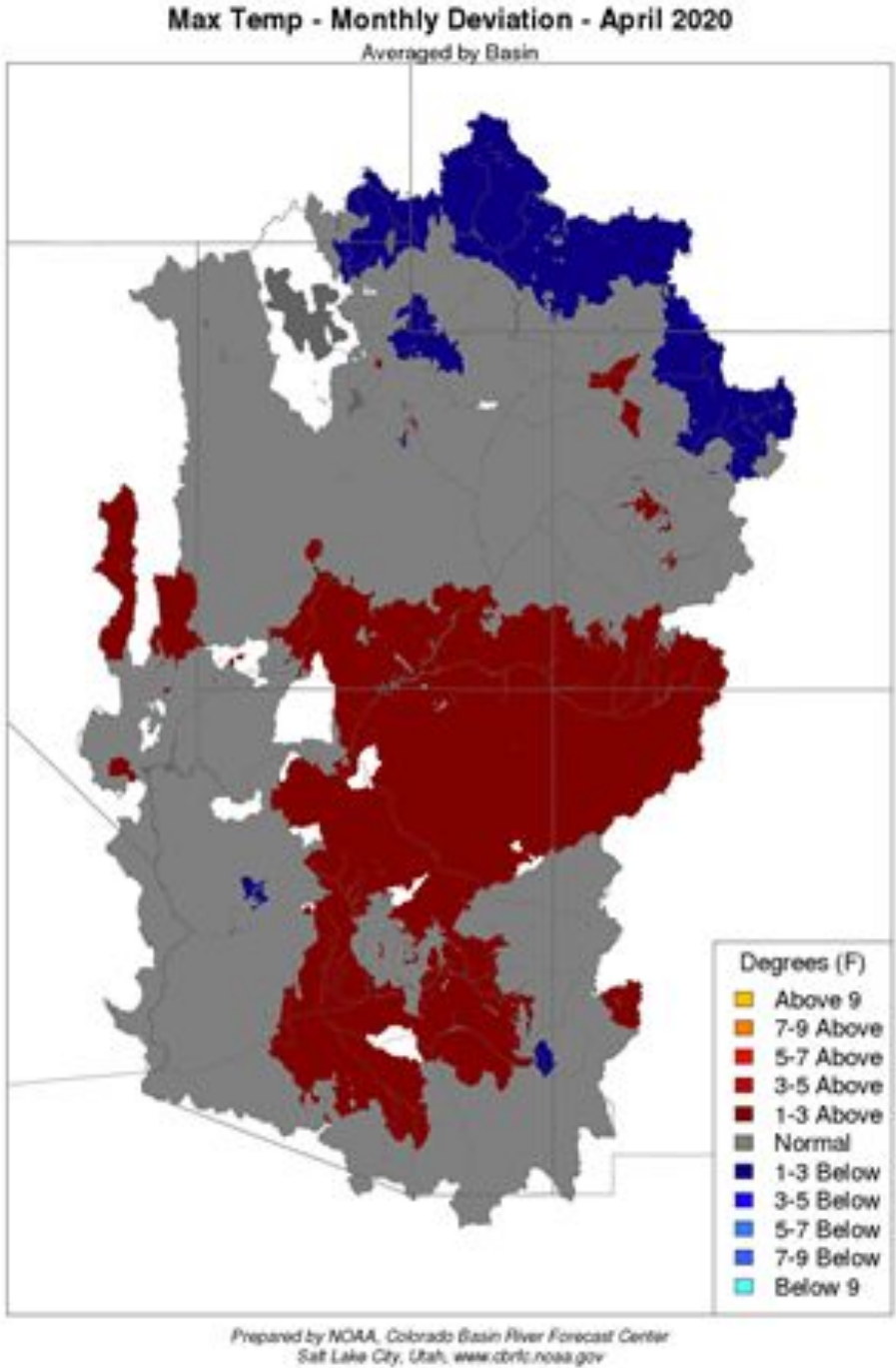


# Snowpack (WYTD, % Average) Station & basin conditions NRCS





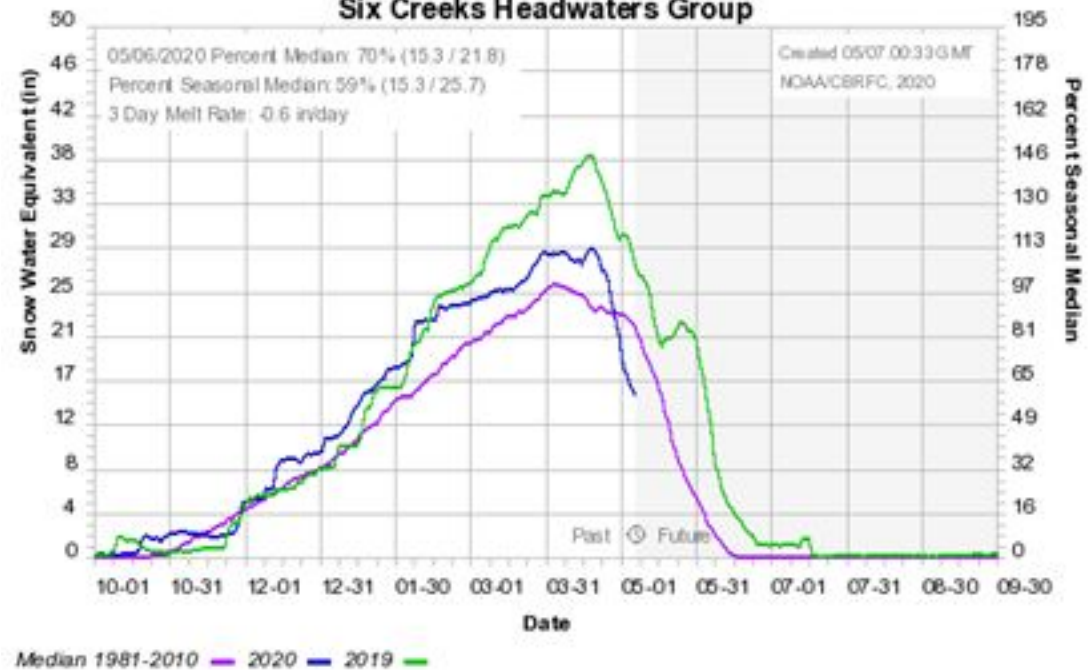
# Temperature 30 day (Related to Average)



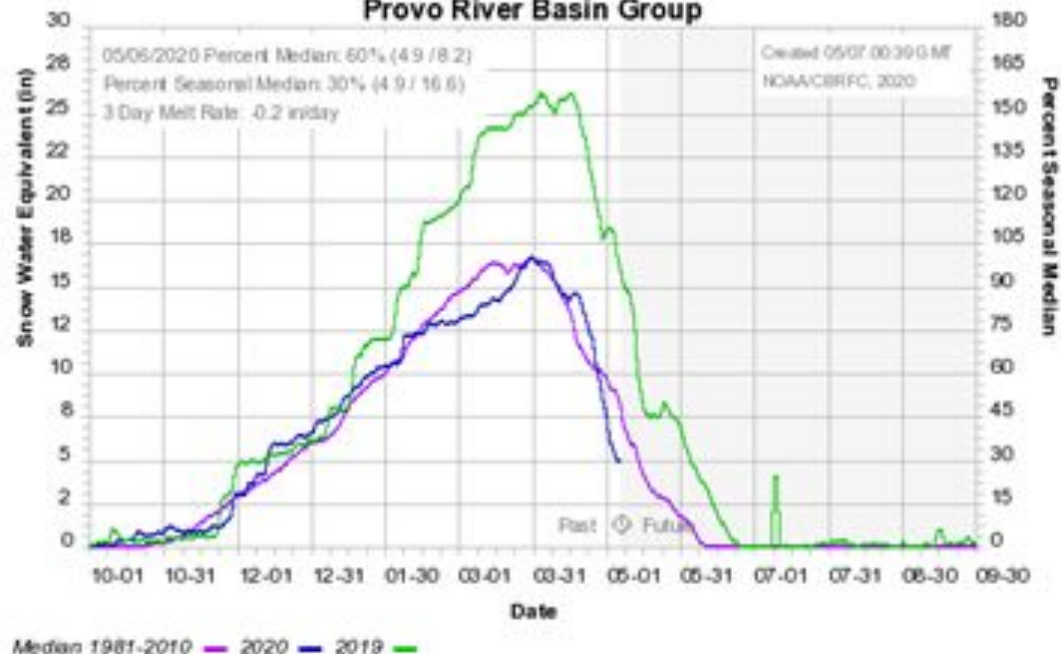
### Colorado Basin River Forecast Center Logan BlacksFork Little Bear Basins Group



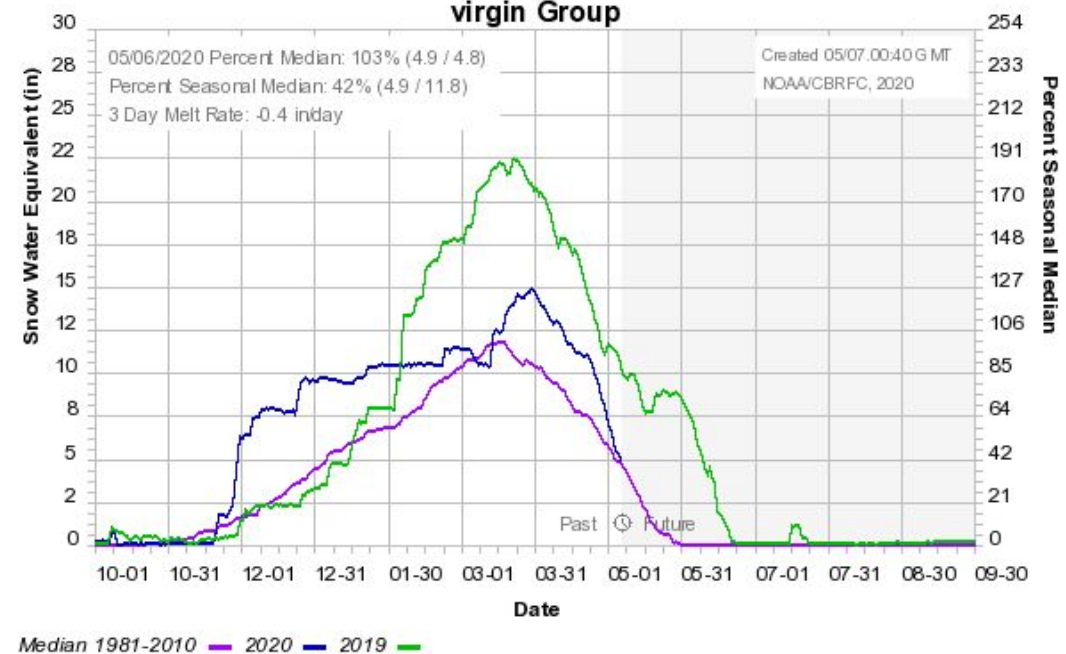
### Colorado Basin River Forecast Center Six Creeks Headwaters Group



### Colorado Basin River Forecast Center Provo River Basin Group



### Colorado Basin River Forecast Center virgin Group

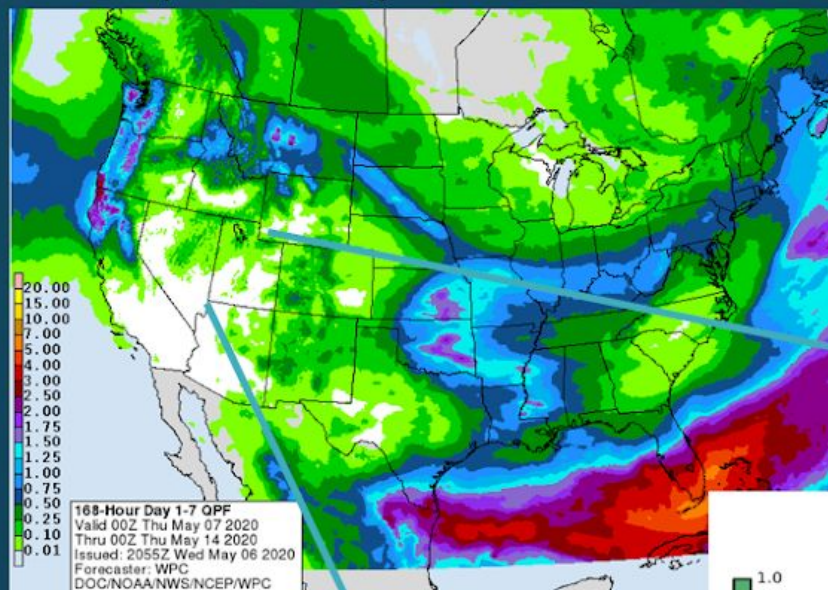




## Days 1-7 Precipitation Forecast

### Through Sunday

- Dry, high pressure dominating.
- Near normal temps today, climbing back to 10-15 degrees above average this weekend.

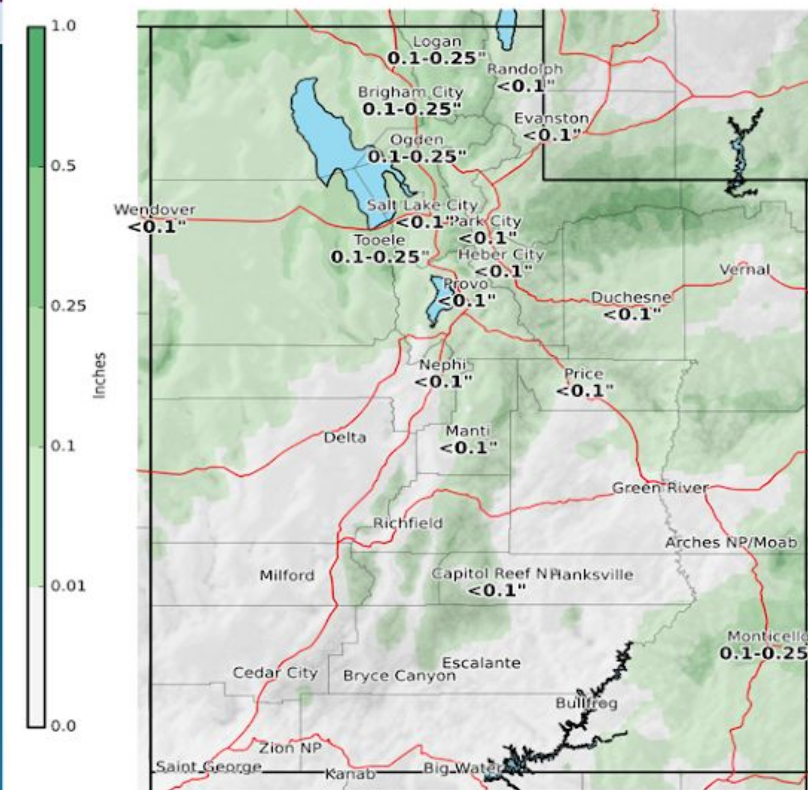


### Monday Through Midweek

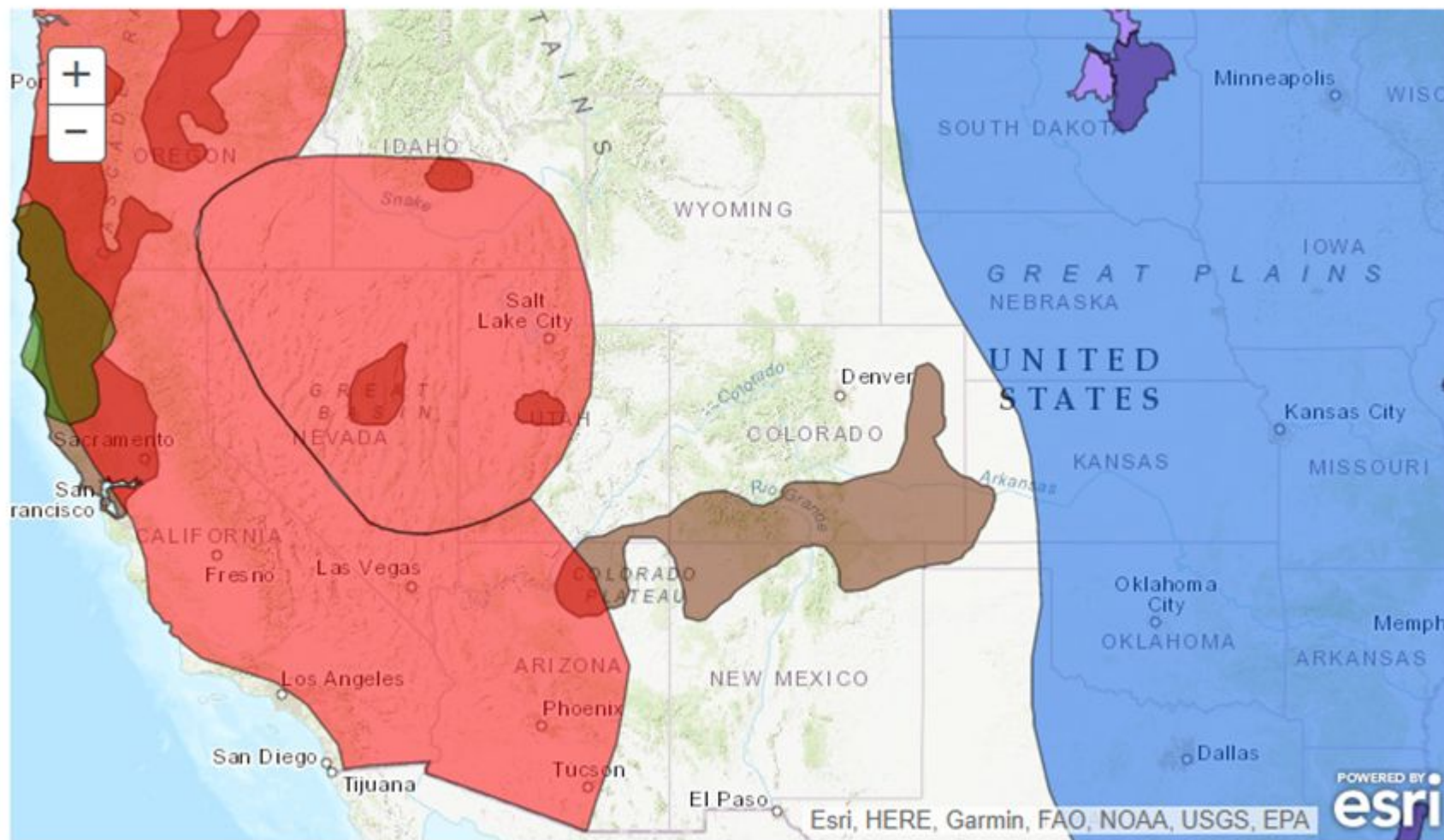
- Isolated to widely scattered showers and thunderstorms developing each day. Largely diurnal. Most likely over the north/west.
- Light rainfall totals expected
- Temperatures 10 degrees above normal through Tuesday, cooling back to seasonal norms Wednesday.

### Storm Total Rain







Valid: 05/10/2020 06:00 PM - 05/13/2020 06:00 PM MDT



# Weather Prediction Center U.S. Day 3-7 Hazards Outlook

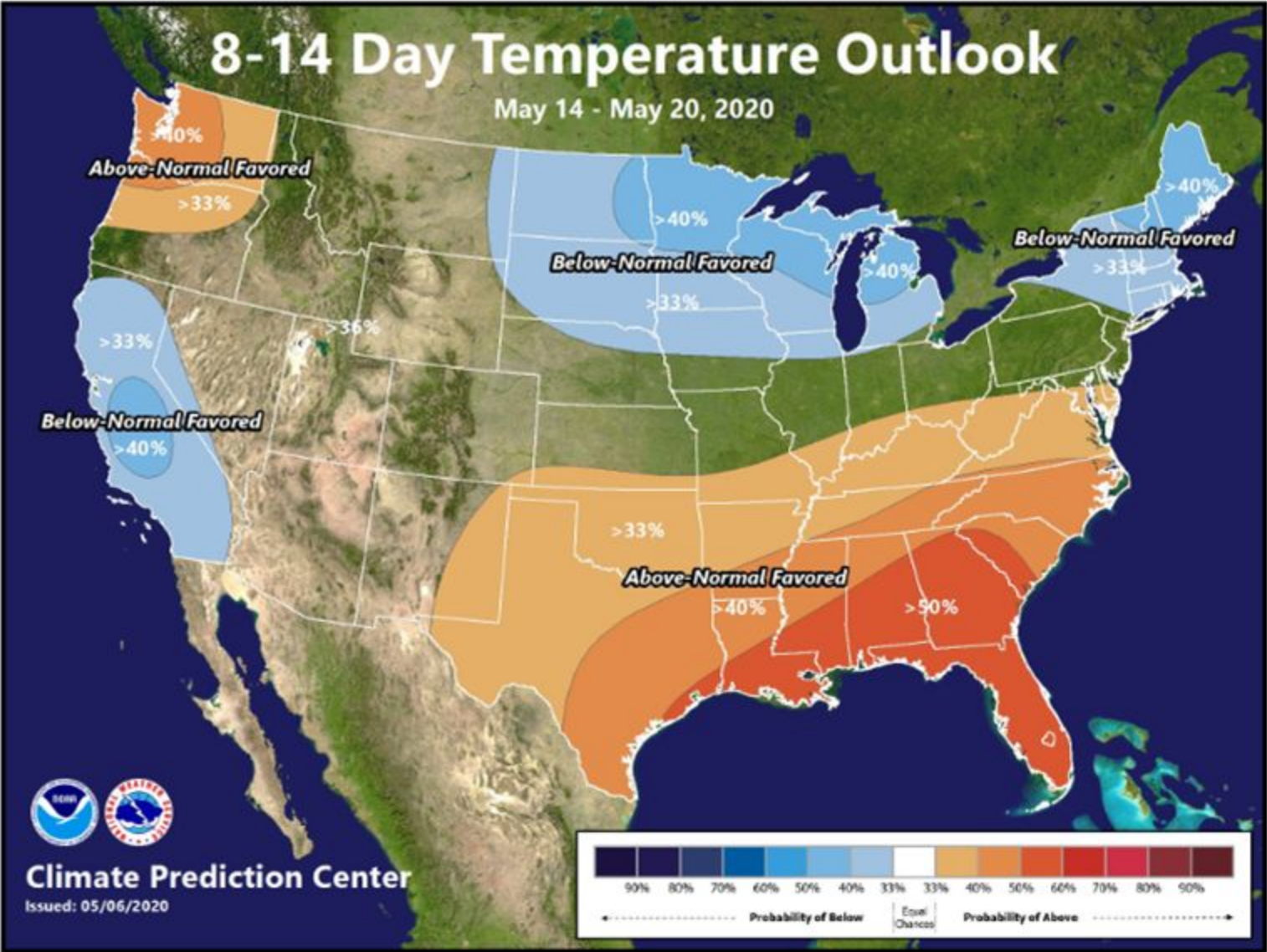


**Legend**

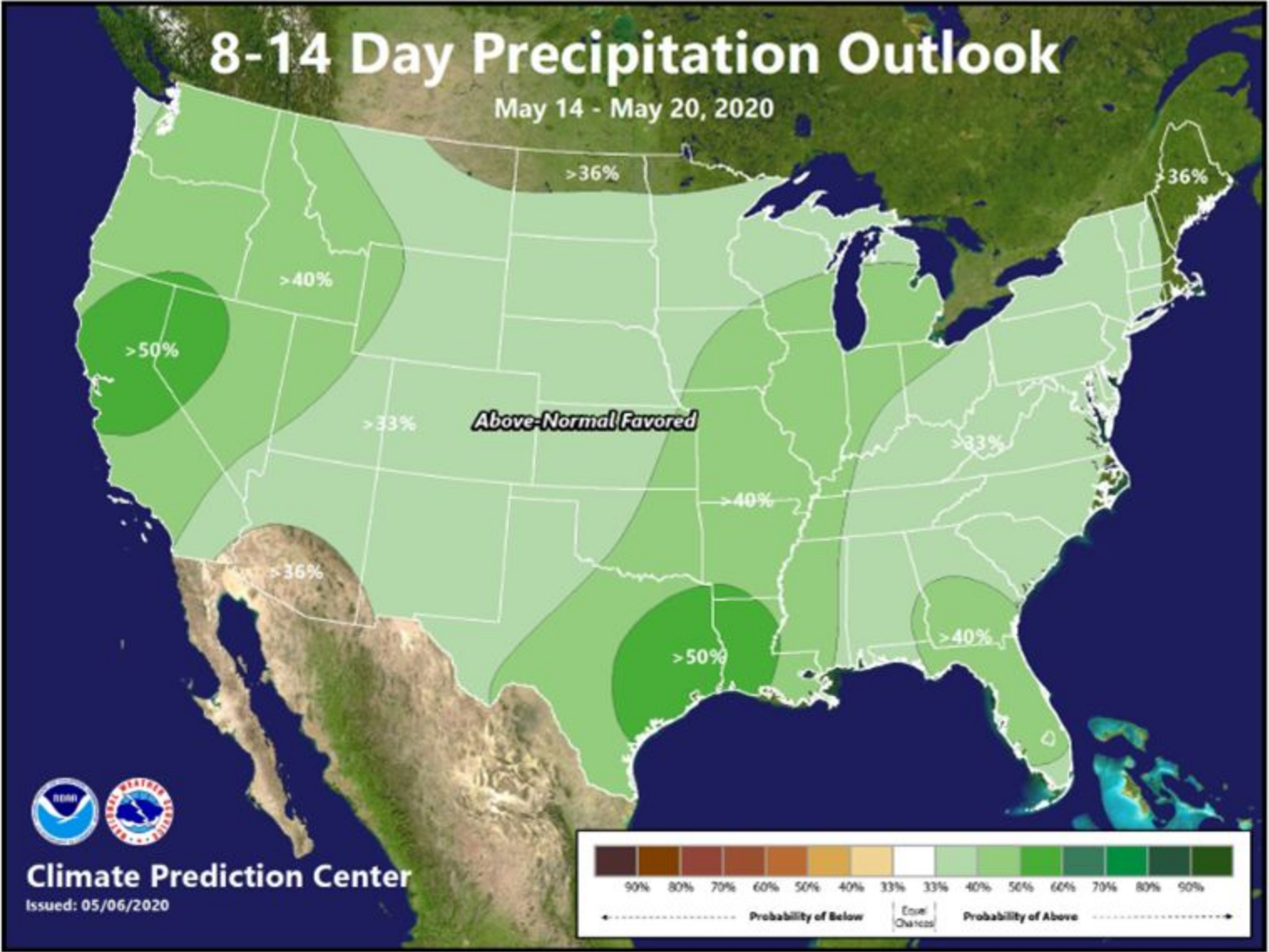
	Flooding Likely		Excessive Heat
	Flooding Occurring or Imminent		High Winds
	Flooding Possible		Much Above Normal Temperatures
	Freezing Rain		Much Below Normal Temperatures
	Heavy Ice		Significant Waves
	Heavy Precipitation		Enhanced Wildfire Risk
	Heavy Rain		Severe Drought
	Heavy Snow		
	Severe Weather		



# Climate Prediction Center 8 to 14 Day Outlooks - Temperature

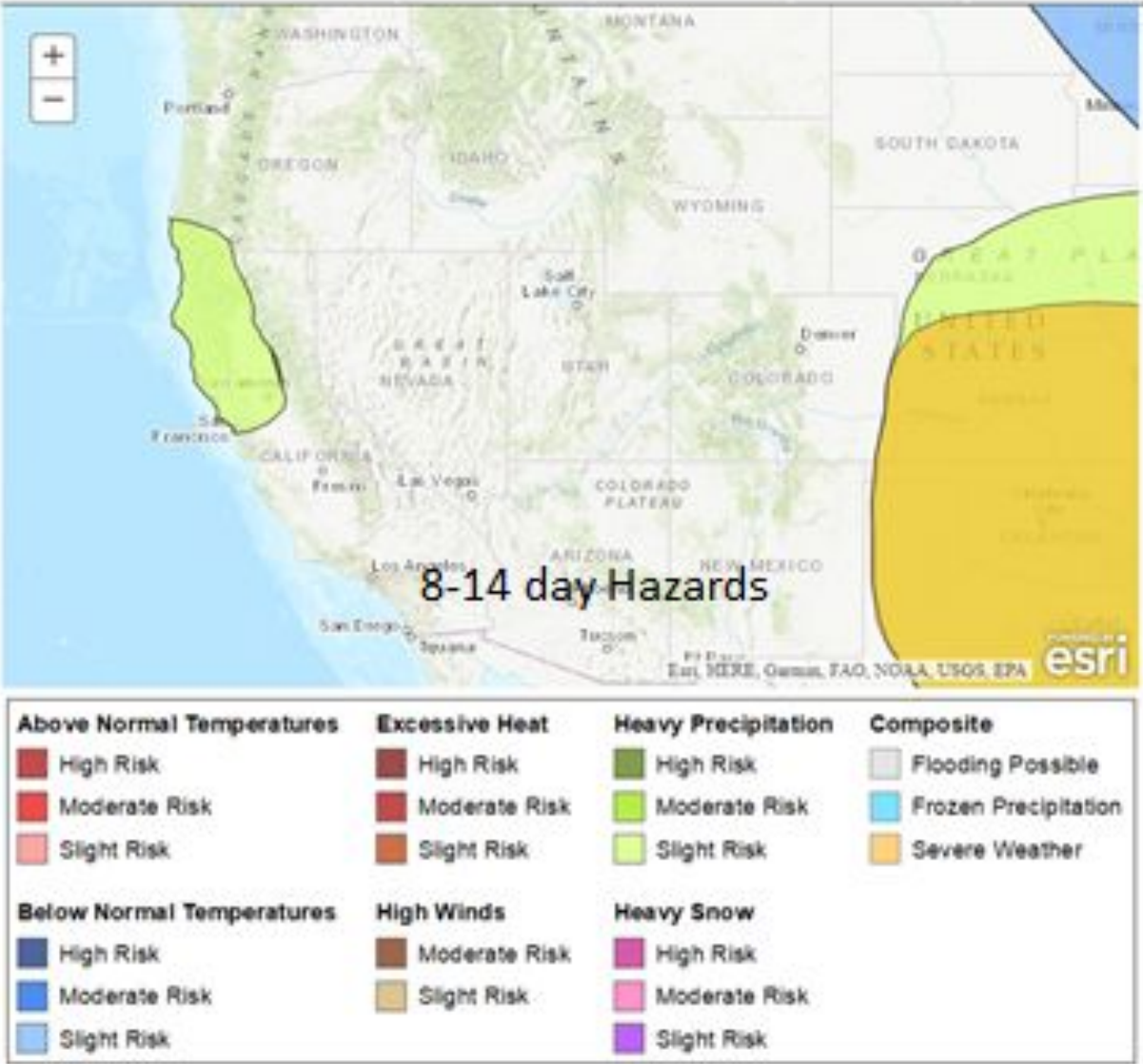


# Climate Prediction Center 8 to 14 Day Outlooks - Precipitation

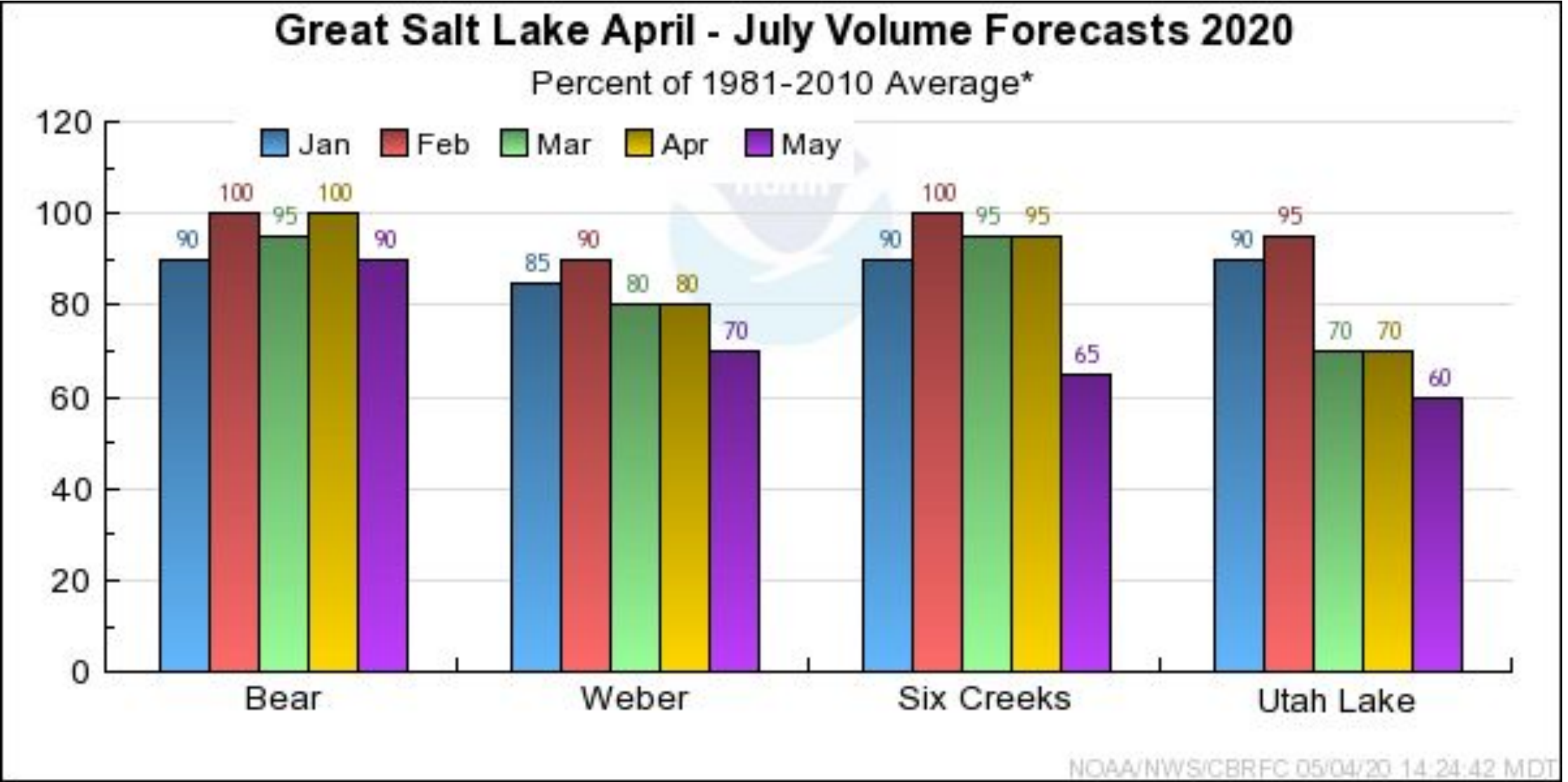




# Climate Prediction Center U.S. Week-2 Hazards Outlook



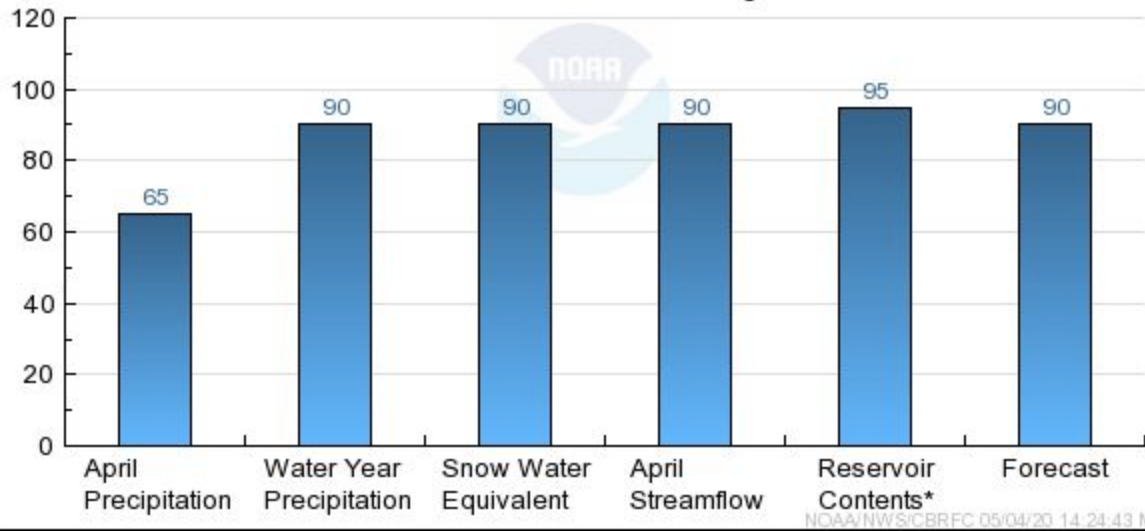
# Water Supply Forecasts / Runoff (Percent of Average)





### Bear Basin Conditions

Percent of 1981-2010 Average



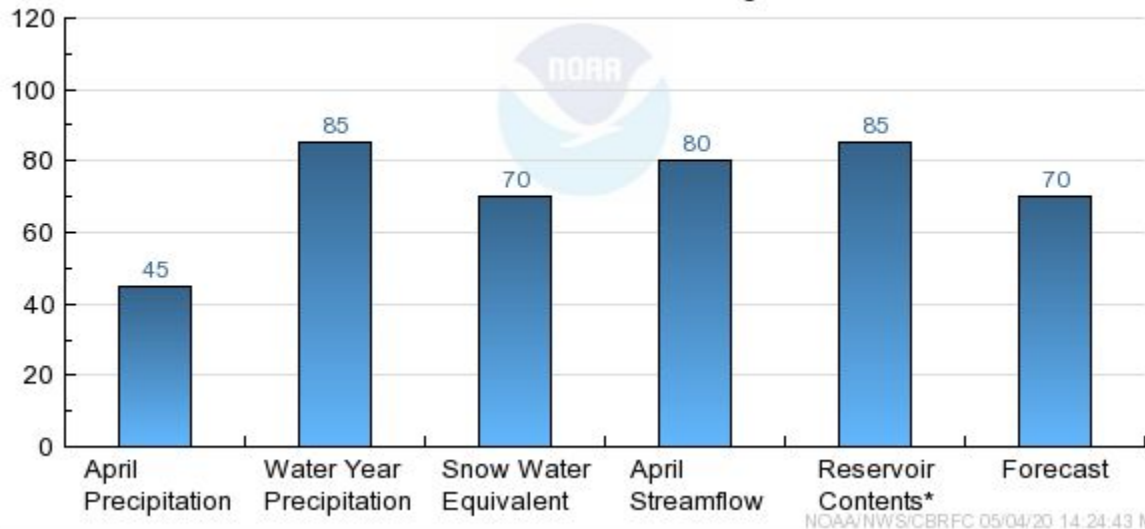
### Bear - Utah-Wyoming State Line, Nr (BERU1)

Period: Apr-Jul, Official 50% Forecast (2020-05-01): 105 kaf (94% Average, 99% Median)  
ESP is Unregulated and No Precipitation Forecast Included



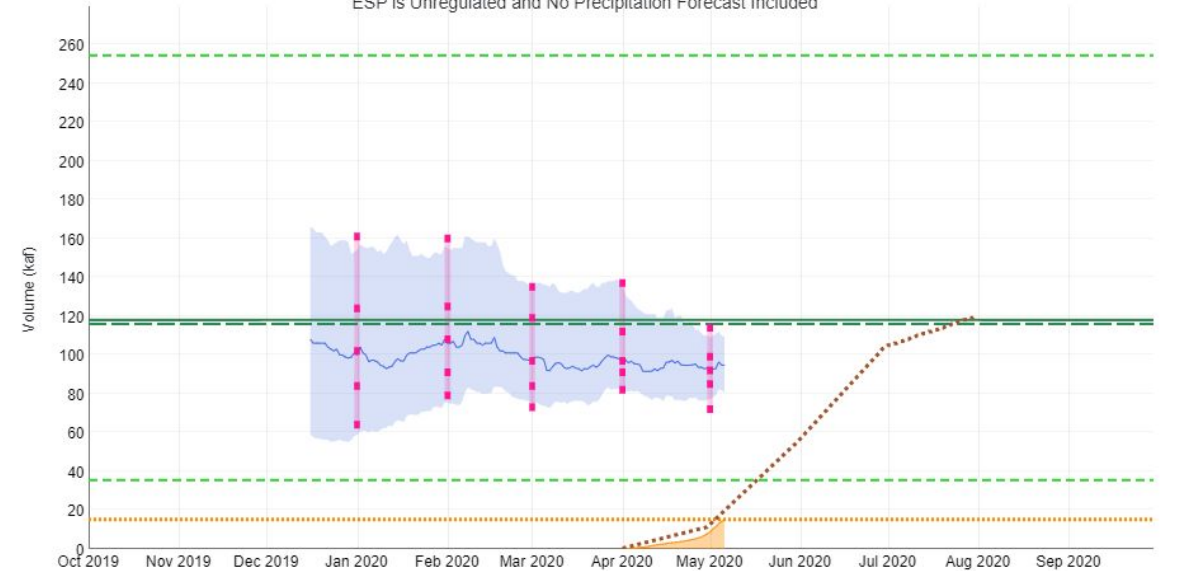
### Weber Basin Conditions

Percent of 1981-2010 Average



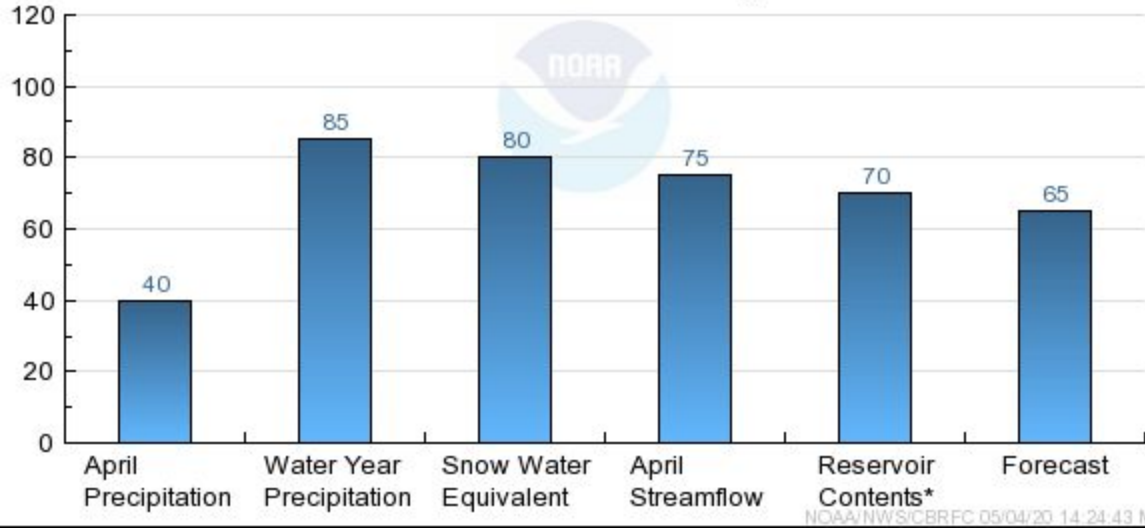
### Weber - Oakley, Nr (OAWU1)

Period: Apr-Jul, Official 50% Forecast (2020-05-01): 92 kaf (78% Average, 79% Median)  
ESP is Unregulated and No Precipitation Forecast Included



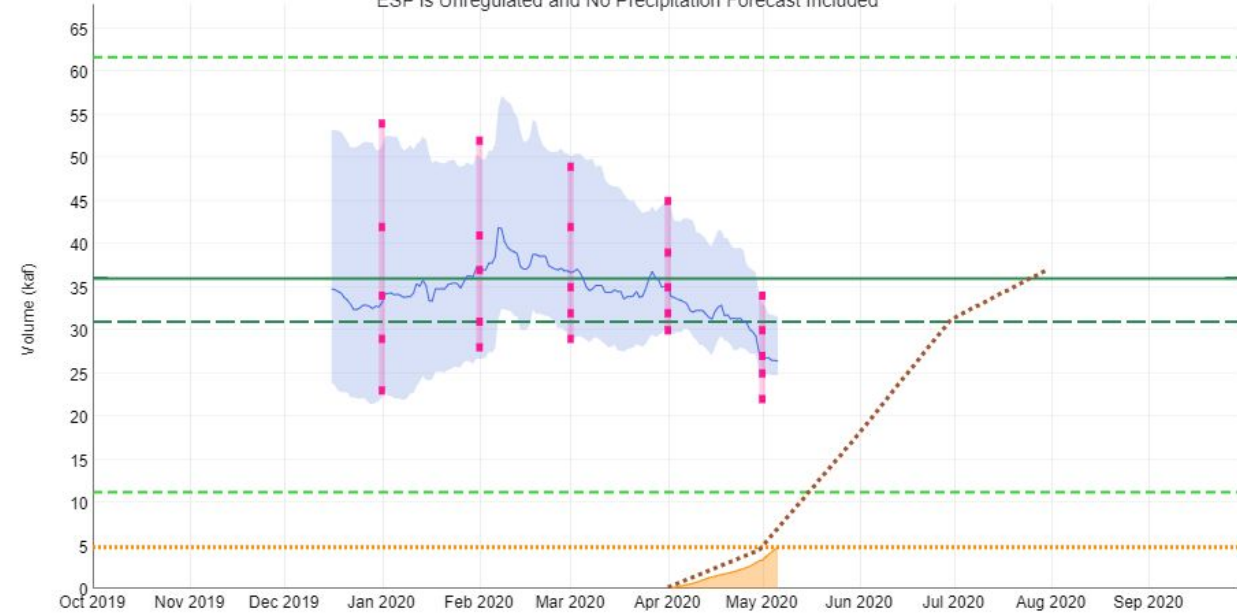
### Six Creeks Basin Conditions

Percent of 1981-2010 Average



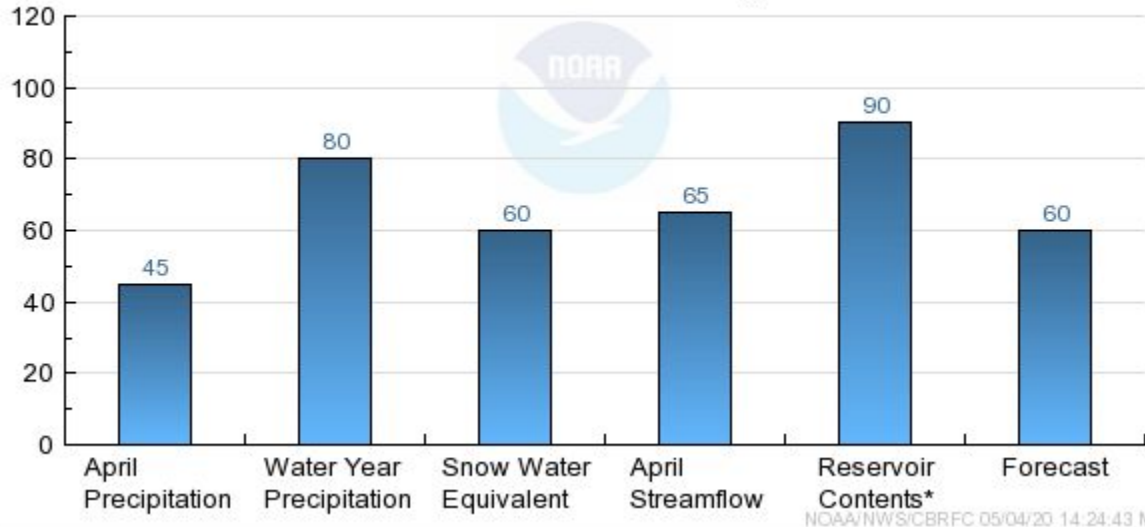
### Big Cottonwood Ck - Salt Lake City, Nr (BCTU1)

Period: Apr-Jul, Official 50% Forecast (2020-05-01): 27 kaf (75% Average, 87% Median)  
ESP is Unregulated and No Precipitation Forecast Included



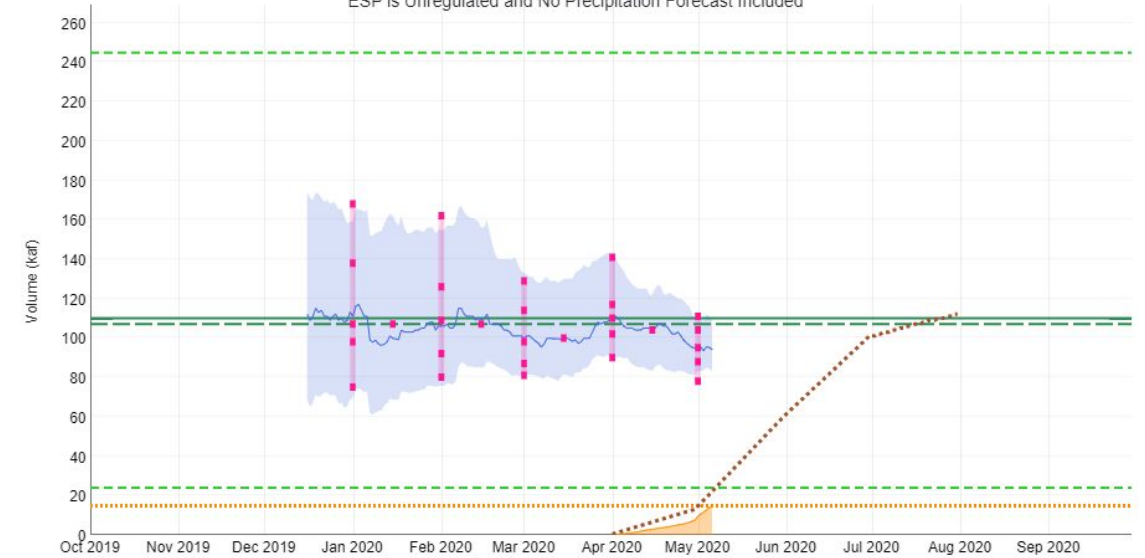
### Utah Lake Basin Conditions

Percent of 1981-2010 Average



### Provo - Hailstone, Nr (PVHU1)

Period: Apr-Jul, Official 50% Forecast (2020-05-01): 95 kaf (86% Average, 89% Median)  
ESP is Unregulated and No Precipitation Forecast Included

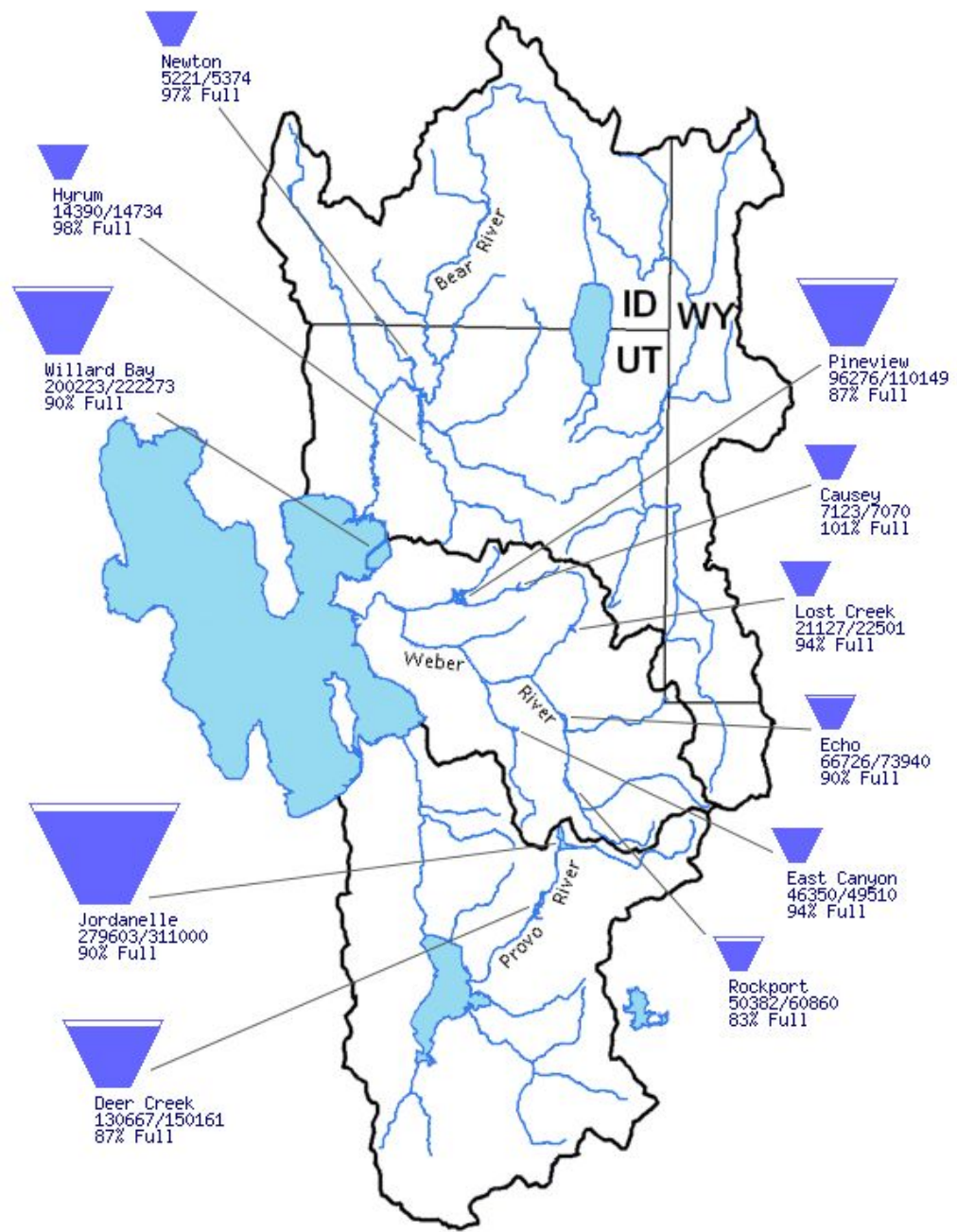




# Bureau of Reclamation

Data Current as of:  
05/05/2020

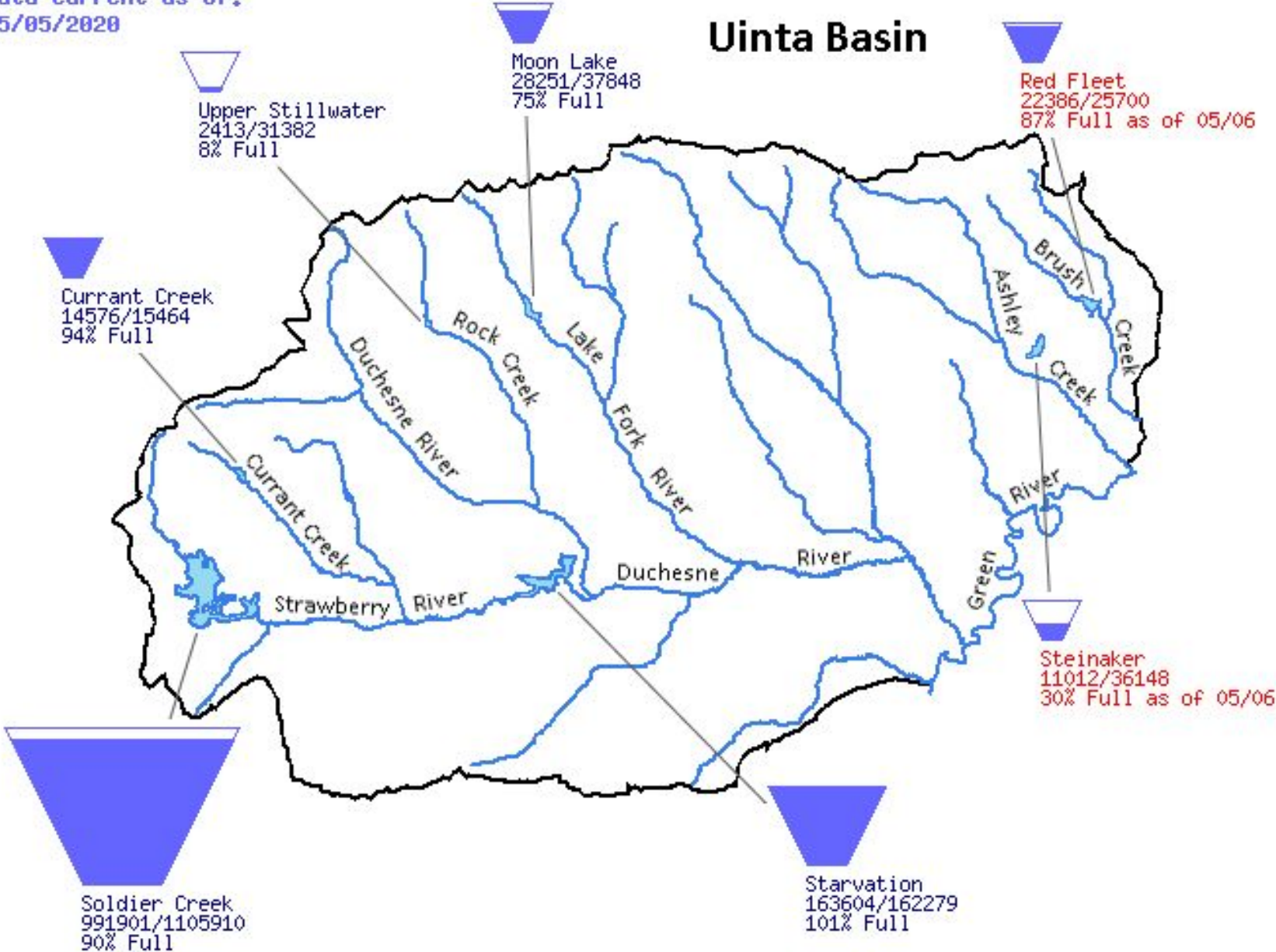
## Bear, Weber, and Provo River Basins



# Bureau of Reclamation

Data Current as of:  
05/05/2020

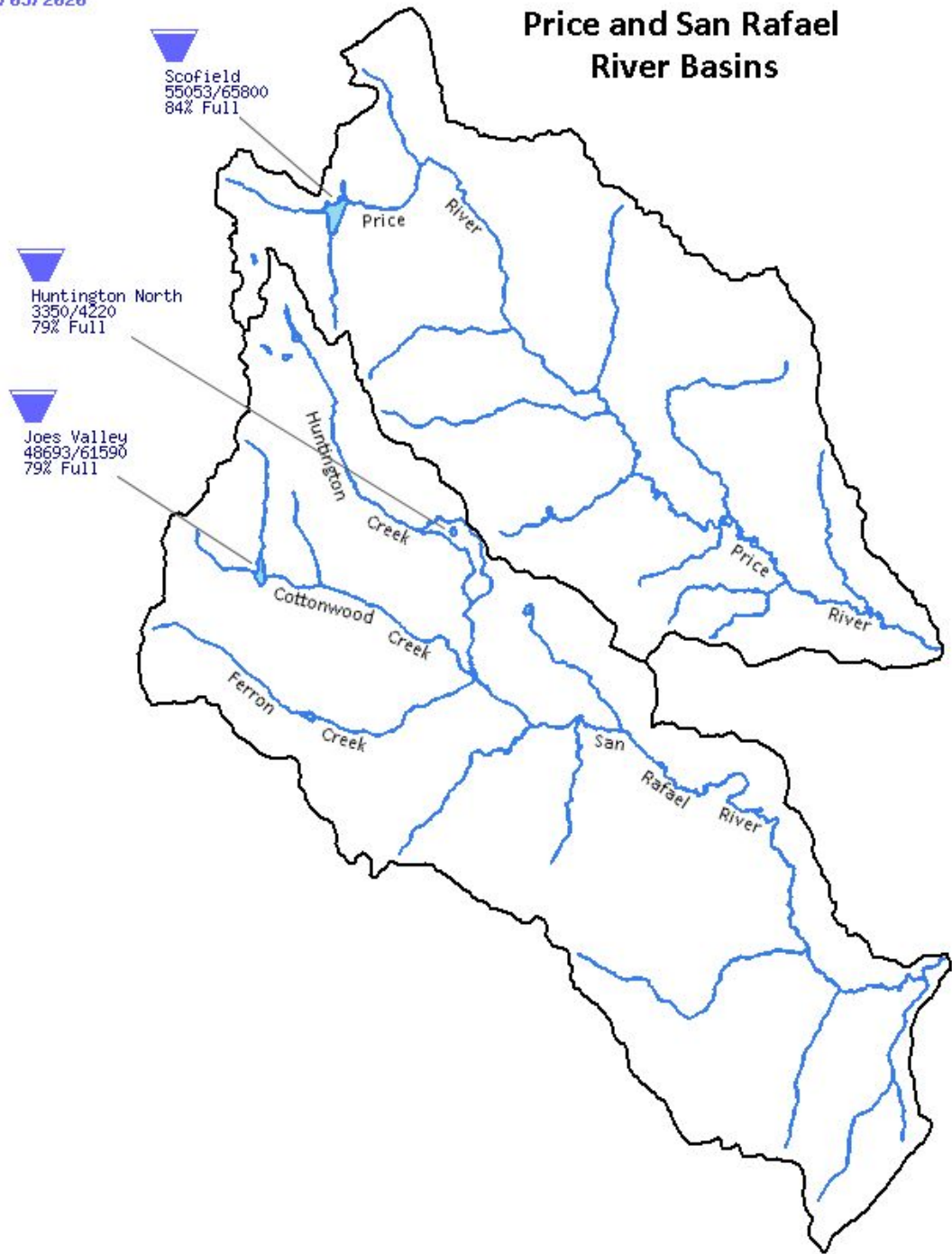
## Uinta Basin





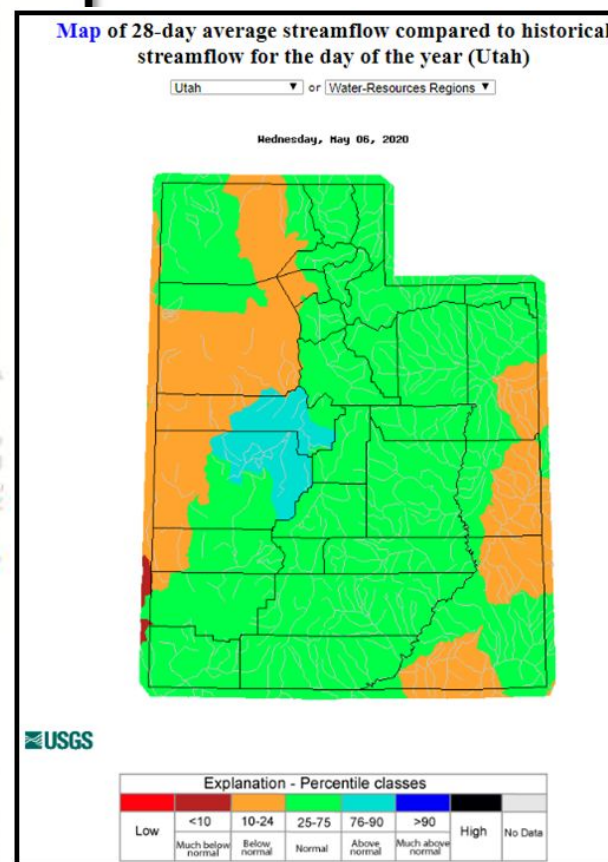
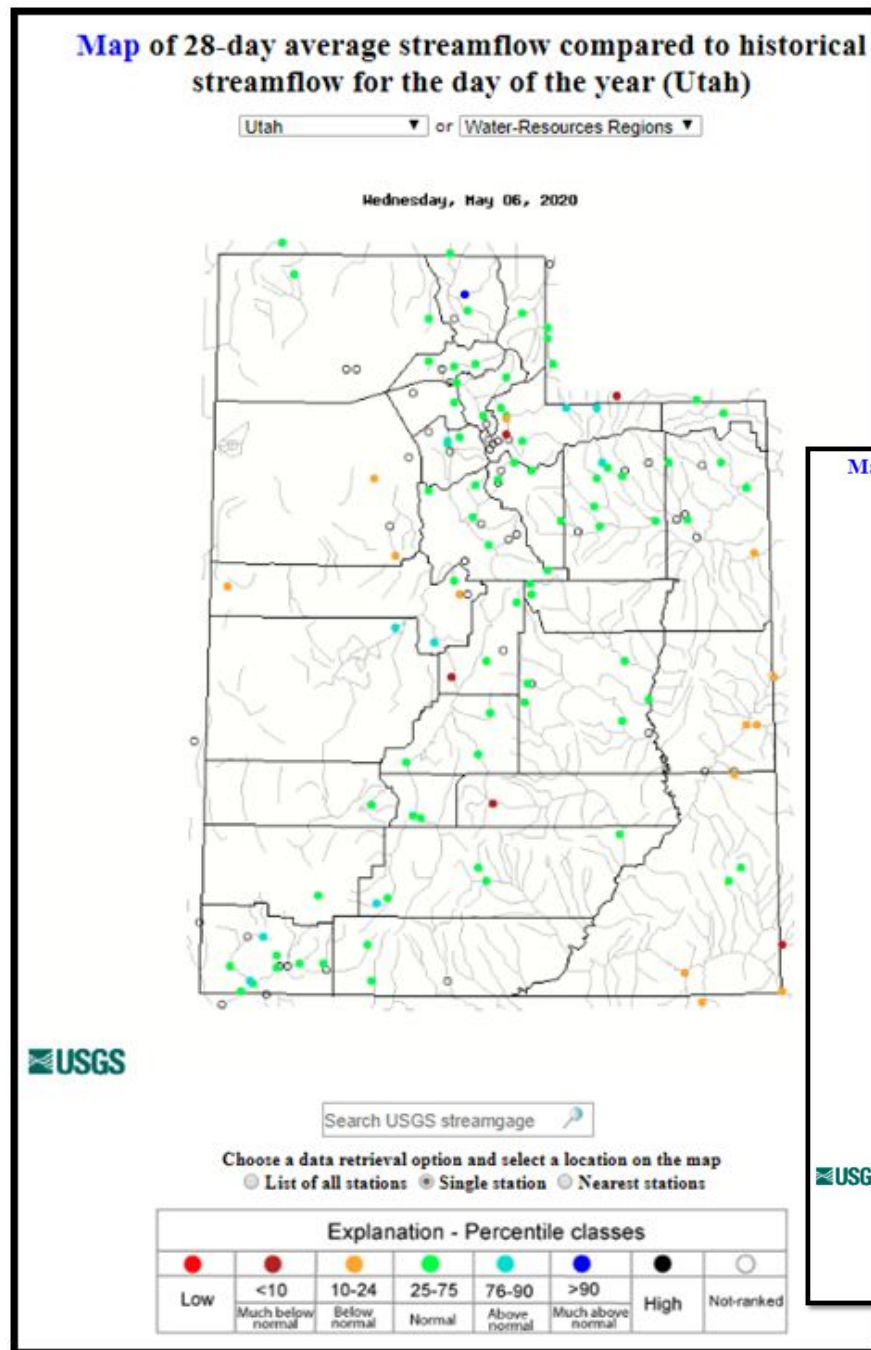
# Bureau of Reclamation

Data Current as of:  
05/05/2020



# USGS Streamflows

Ryan Rowland



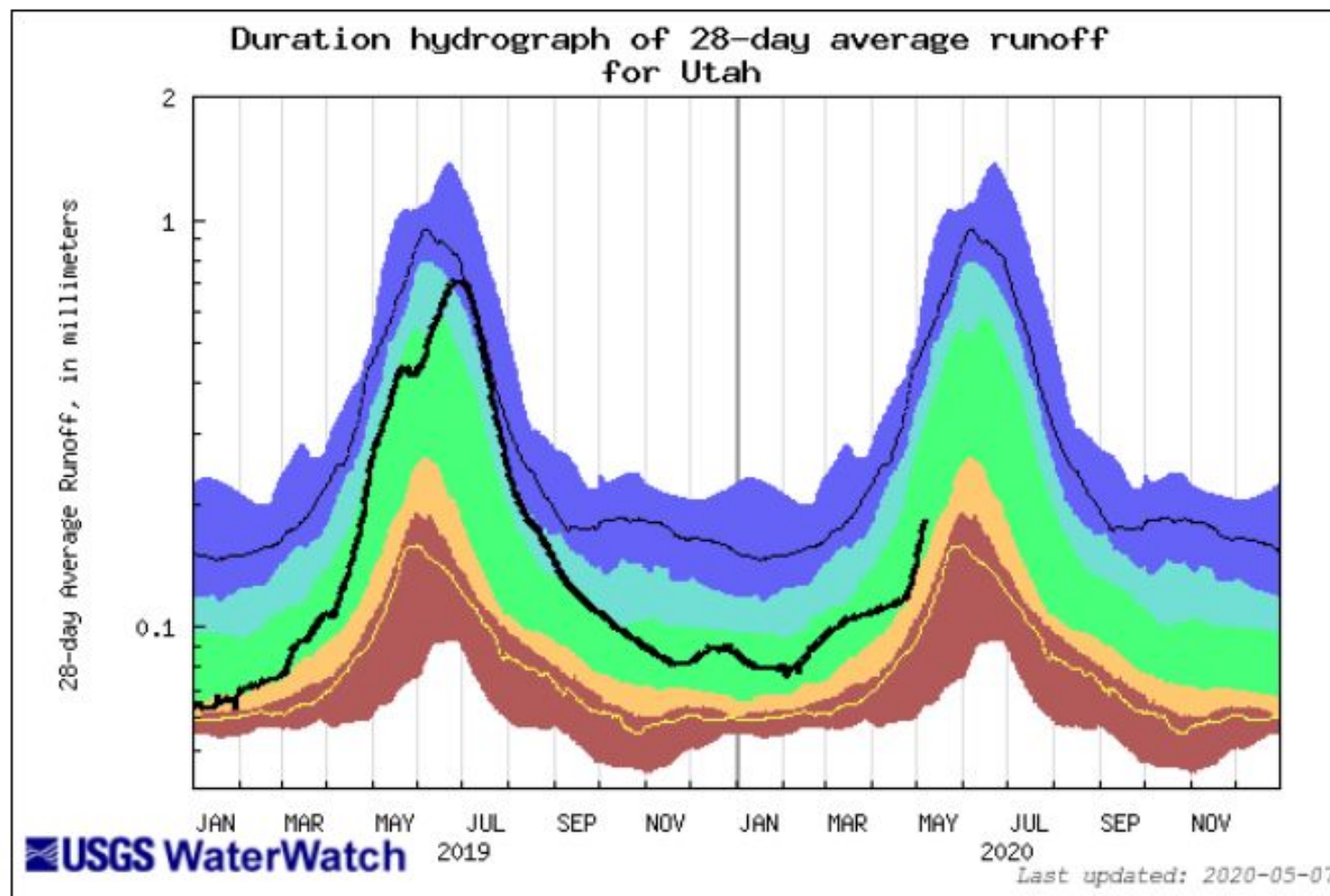
☐ **28-day average stream flows are normal at most USGS stream gages**

☐ **Exceptions include gages indicated with red and yellow circles**



# USGS Streamflows

Ryan Rowland



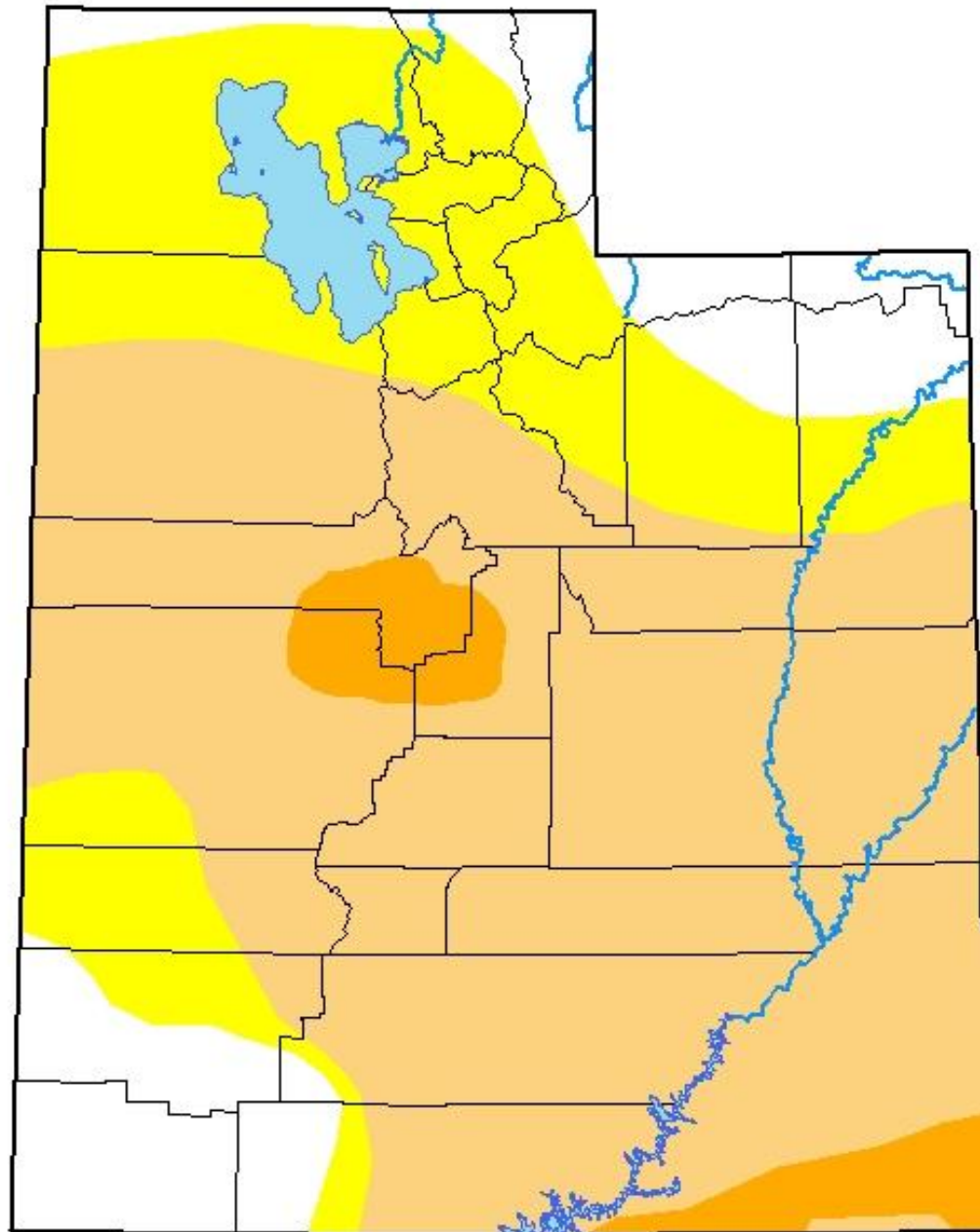
Statewide 28-day average runoff approximately normal

Note percentile classes in scale below

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

# U.S. Drought Monitor

## May 5, 2020



### Intensity:



*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>*

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[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)