

NWS FORM E-5 U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS TO: NATIONAL WEATHER SERVICE (W/OH12x1) HYDROMETEOROLOGICAL INFO CENTER 1325 EAST-WEST HIGHWAY, RM 7116 SILVER SPRING, MD 20910	HSA OFFICE: Marquette, MI
	REPORT FOR (MONTH / YEAR): July 2021
	DATE: July 9th, 2021
	SIGNATURE: Taylor Prislovsky Robin J. Turner, MIC
When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).	

X

An X inside this box indicates no flooding occurred within this Hydrologic Service Area.

Summary

Near-normal precipitation occurred across much of the area, with some sites near Wisconsin seeing above normal rainfall for the month. Areas out in the east, however, saw near or slightly below normal rainfall amounts. Therefore, abnormally dry conditions persist in the central U.P., and moderate drought conditions remain over the east. There was no really big widespread soaking rain event this past month across the area, as the convective nature of the precipitation made rain amounts sporadic for the most part.

Location	Precipitation	% of normal	Snowfall
WFO Marquette	3.36"	103%	0.0"
Marquette City	3.04"	100%	0.0"
Quincy Hill	2.79"	M	0.0"
Ironwood	4.25"	109%	0.0"
Iron Mountain	4.76"	128%	0.0"
Manistique	2.74"	85%	0.0"
Munising	3.39"	105%	0.0"
Stambaugh	4.86"	122%	0.0"

NOTE: Precipitation after 8am EDT May 30th was counted in June stats for all but the WFO Marquette site due to the reporting structure of our cooperative observers.

Flooding Conditions

There were no river flooding concerns during the month of June.

River Conditions

Monthly average streamflows across Upper Michigan ranged from near to well below normal for the month of June. This is primarily due to the persistent abnormally dry to moderate drought conditions across parts of the area, particularly in the east.

June 2021

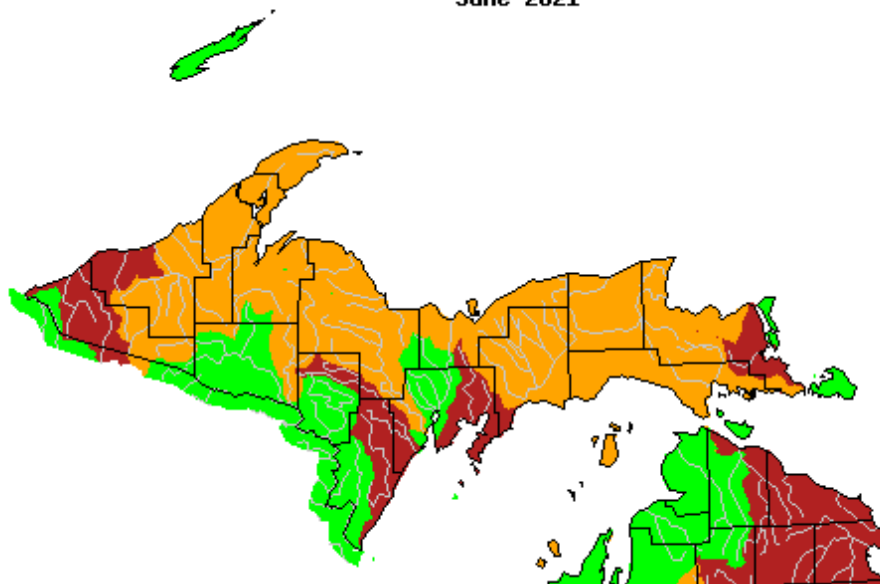


Figure 1: USGS monthly average streamflow in June 2021 across Upper Michigan.

Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Snowpack Conditions

The next snowpack discussion will start at the beginning of the 2021-2022 winter season.

Drought Discussion

While more normal rainfall amounts may have helped ease drought concerns a little bit, near to below normal streamflow across the area has allowed moderate drought conditions to persist in eastern Upper Michigan, as it remains in a D1 status on the U.S. Drought Monitor. For the latest drought status, please visit <http://www.drought.gov>.

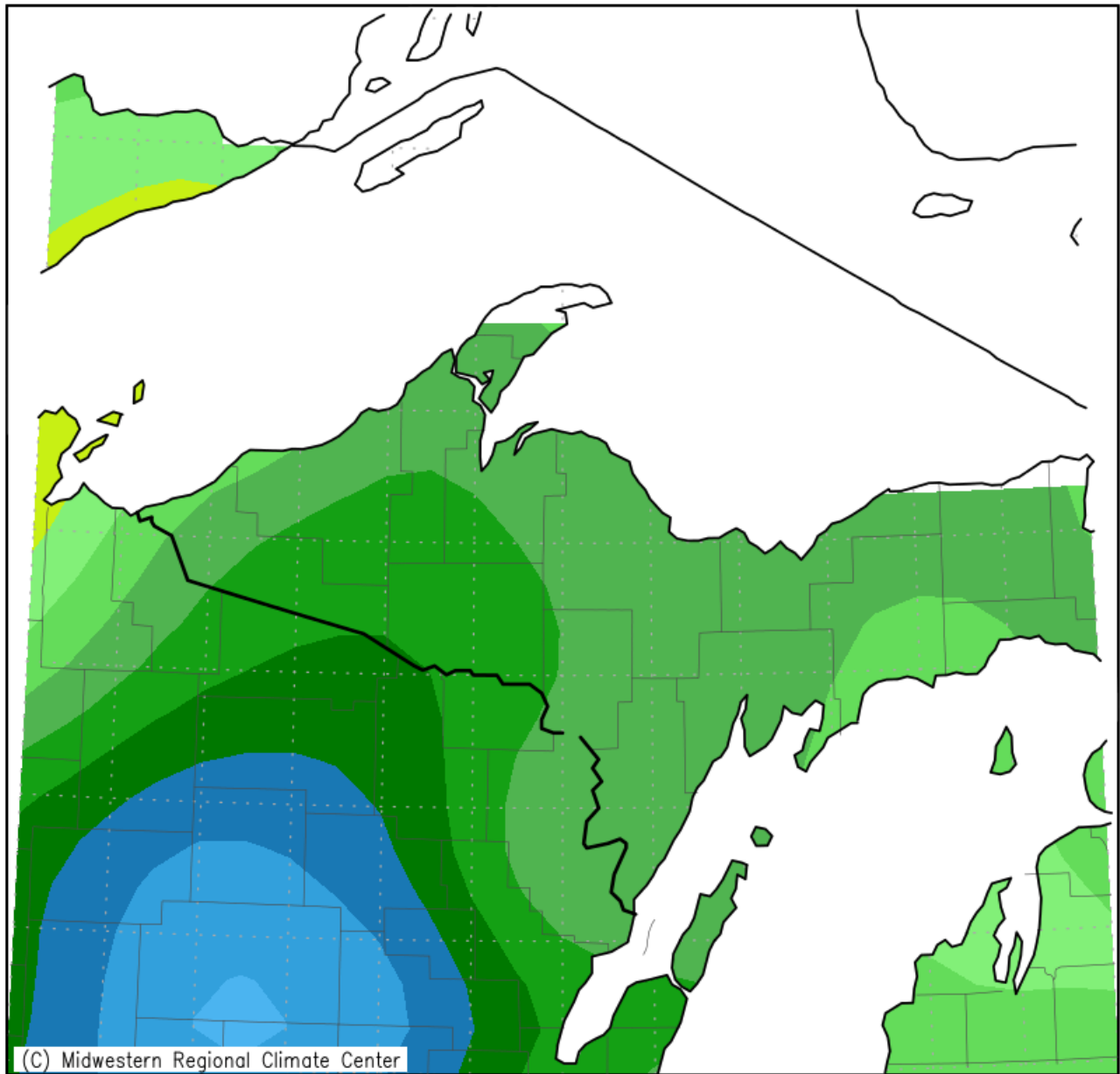
Media Links

None.

Hydro Products Issued

- 0 – Hydrologic Outlook (ESF)
- 0 – Flood Watch (FFA)
- 0 – Flood Warning (FLW)
- 2 – Flood Advisories and Statements (FLS)
- 0 – Flash Flood Warning (FFW)
- 0 – Flash Flood Statement (FFS)
- 30 – Hydrologic Summary (RVA)
- 31 – Daily River Forecasts (RVD)

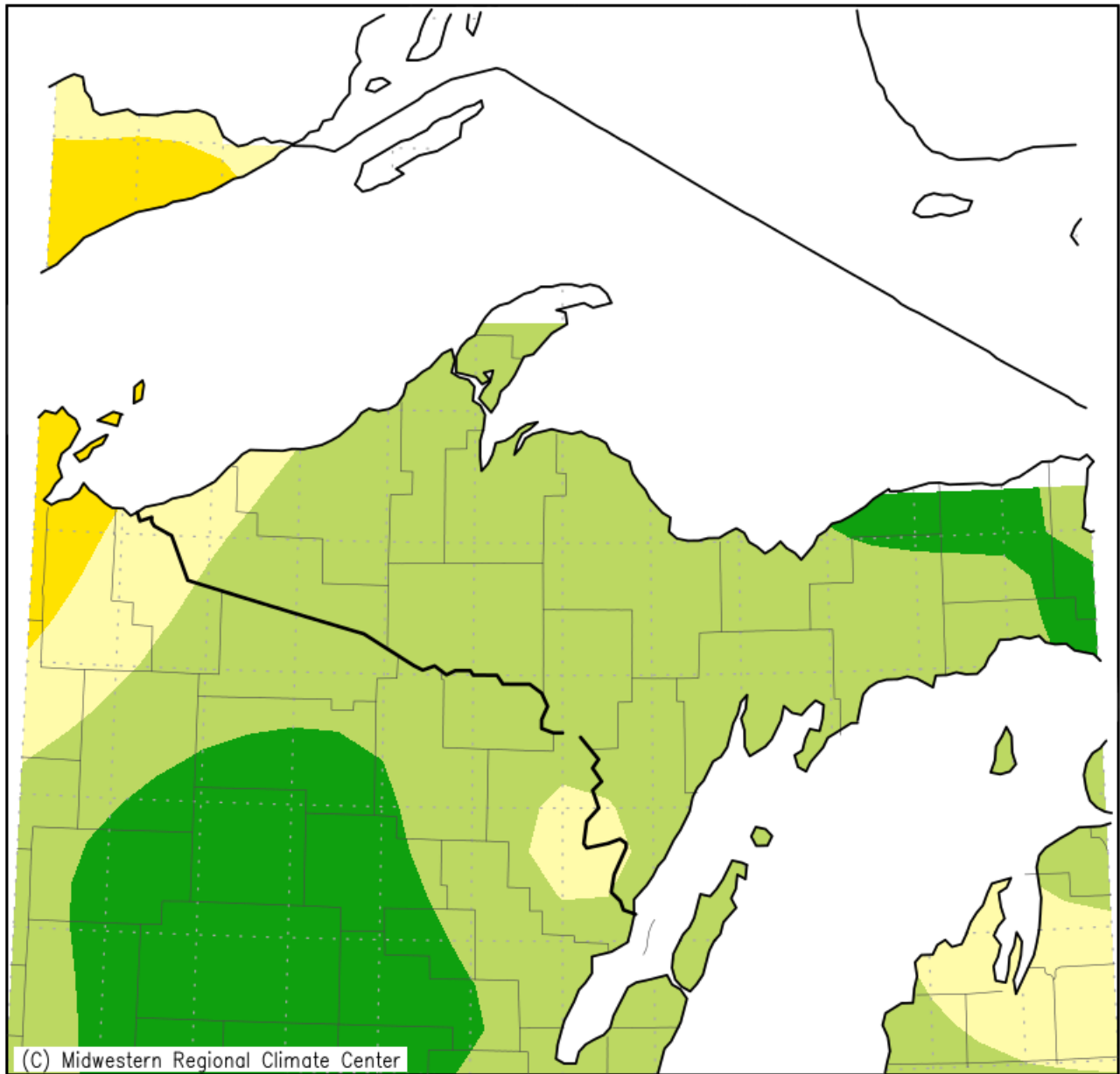
Accumulated Precipitation (in)
June 1, 2021 to June 30, 2021



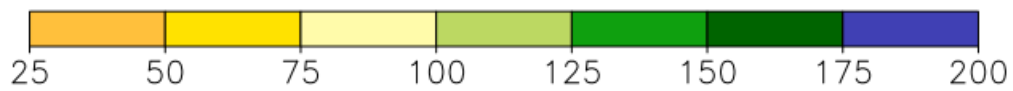
Midwestern Regional Climate Center
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Figure 3: June 2021 Monthly Precipitation Totals.

Accumulated Precipitation: Percent of Mean June 1, 2021 to June 30, 2021



Mean period is 1991–2020.



Midwestern Regional Climate Center
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Figure 4: June 2021 Percent of Normal of Accumulated Precipitation

Calculated Soil Moisture Anomaly (mm)
JUN, 2021

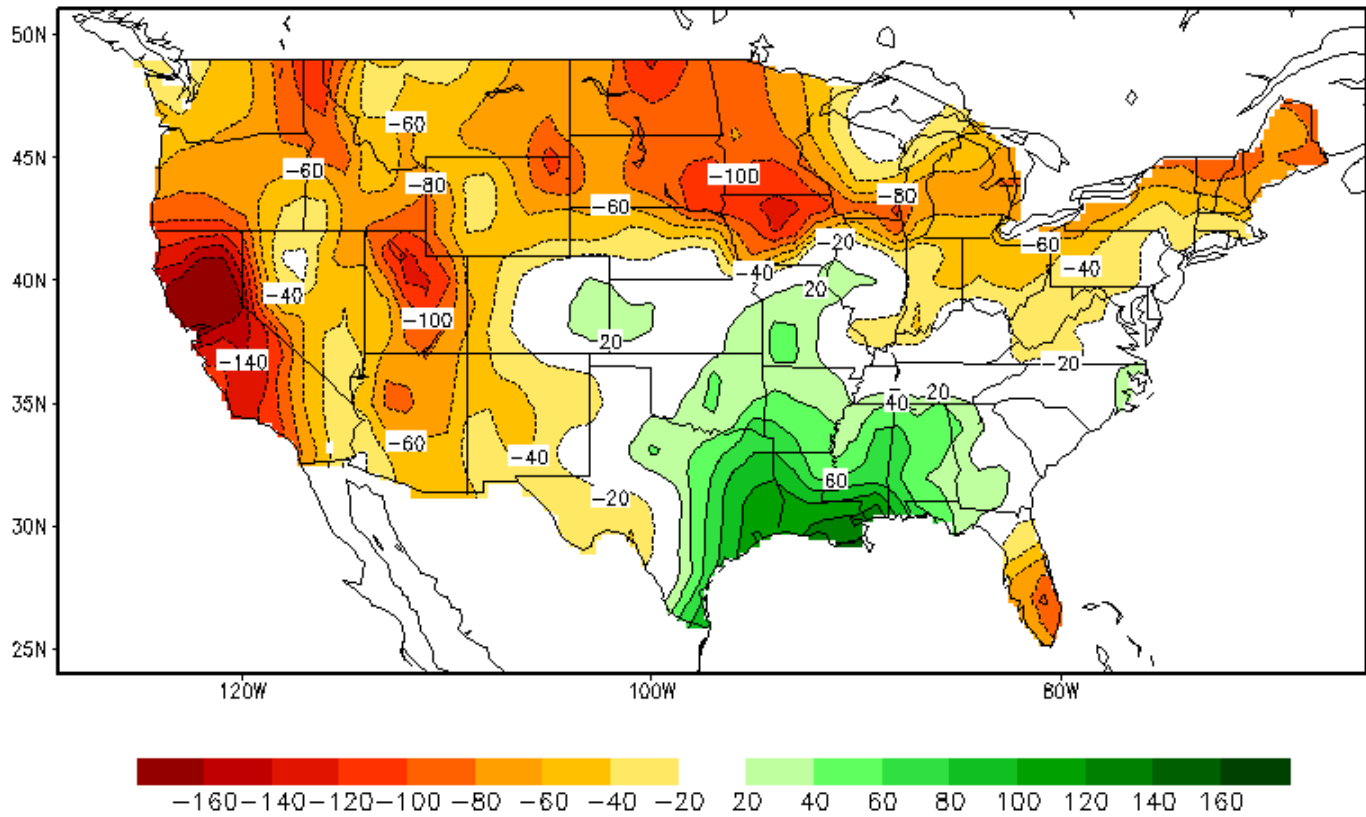


Figure 5: Climate Prediction Center's monthly average soil moisture anomaly for June 2021.