

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):
August 2020

DATE: **September 15th, 2020**

SIGNATURE:
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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.

August Summary

Another month with above normal precipitation across the west half of Upper Michigan, slowly becoming near- and below-normal across the south and eastern portions of the UP. Despite the larger amounts of rain, it still remained hydrologically quiet for the most part, with a few heavy rainfall events causing nuisance ponding of water in low-lying and poor drainage areas.

Location	Precipitation	% of normal	Snowfall
WFO Marquette	5.24"	172%	0.0"
Marquette City	3.35"	127%	0.0"
Quincy Hill	5.69"	M	0.0"
Ironwood	4.65"	138%	0.0"
Iron Mountain	3.57"	110%	0.0"
Manistique	2.79"	86%	0.0"
Munising	4.03"	116%	0.0"
Stambaugh	5.59"	180%	0.0"

NOTE: Rainfall after 8am EST July 31st was counted in August stats for all but the WFO Marquette site due to the reporting structure of our cooperative observers.

August Flooding Conditions

No river flooding concerns occurred during the month of August across Upper Michigan. Above normal precipitation and a few heavy rainfall events across the west half did lead to localized ponding of water and a few areal flood advisories at times.

August River Conditions

Due to above normal precipitation across the west half of Upper Michigan (Figures 2 & 3), river levels in the NWS Marquette Hydrologic Service Area were above-normal in most basins and near-normal across the Tahquamenon Basin (Figure 1).

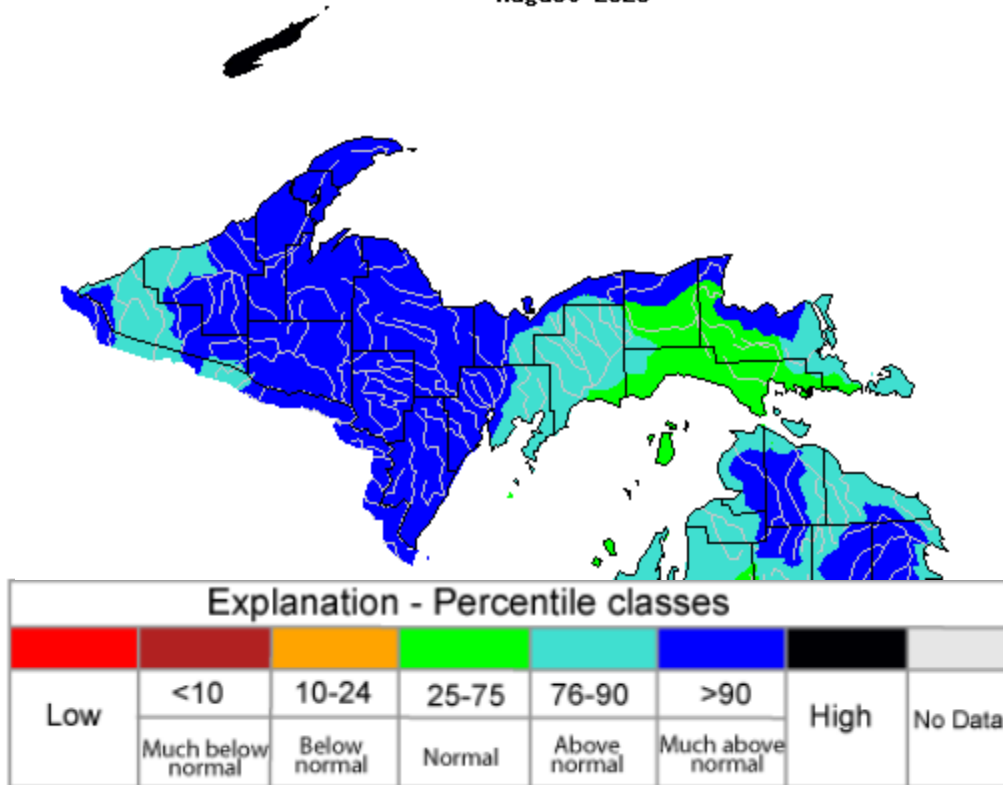


Figure 1: USGS monthly average streamflow in August 2020 across Upper Michigan

Snowpack Discussion

Snowpack across Upper Michigan has ended for the season.

Drought Discussion

There are no areas of drought across Upper Michigan at this time. The last portion of D0 across the Keweenaw Peninsula was eliminated. For the latest drought status, please go to <http://www.drought.gov>.

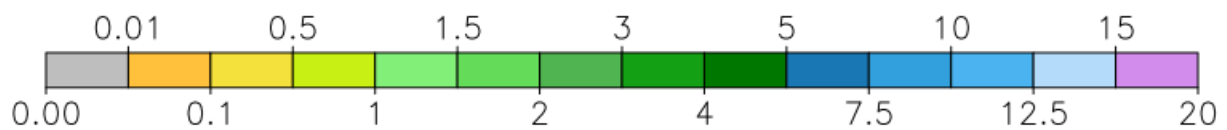
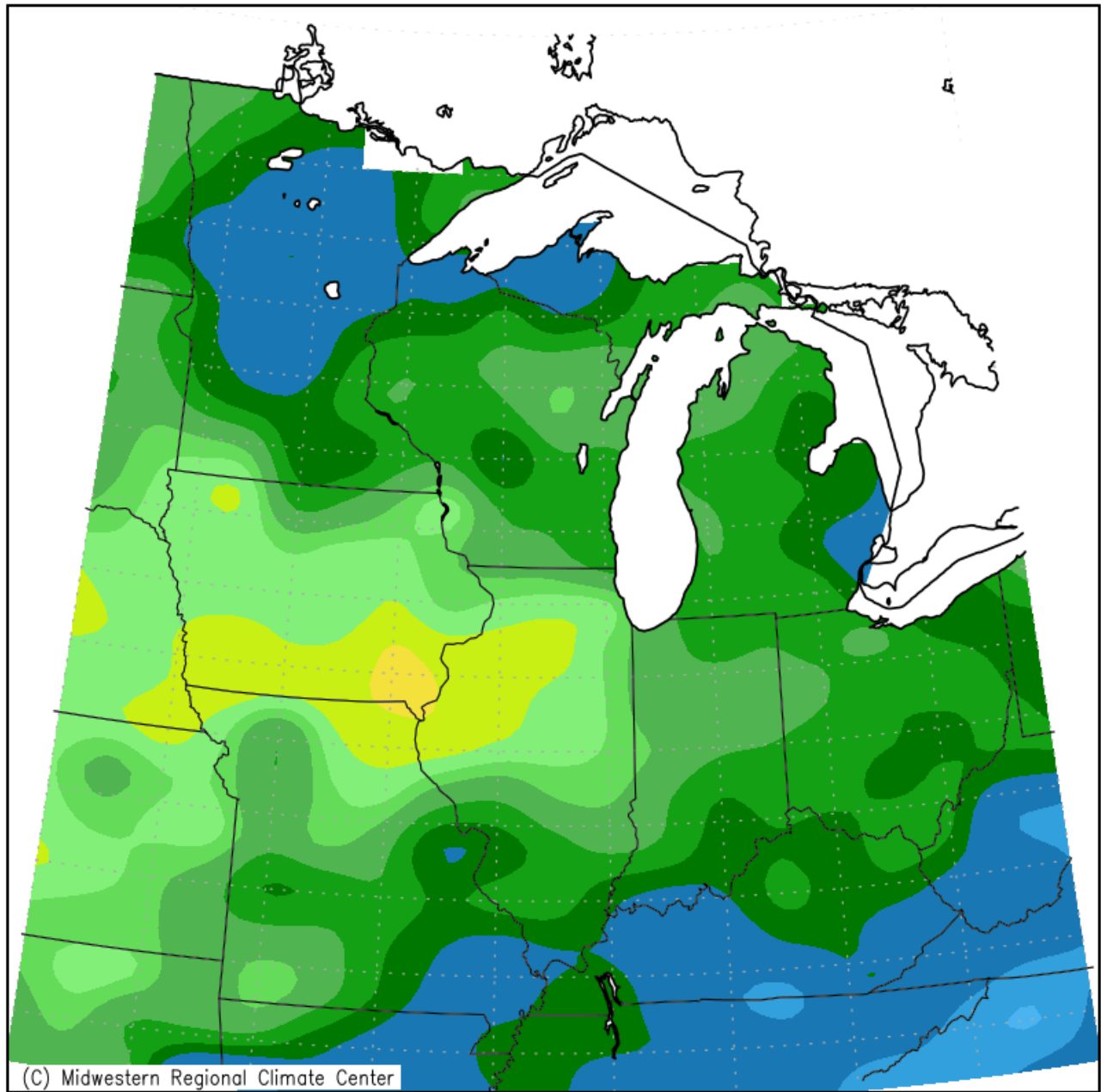
Media Links

None.

August Hydro Products Issued

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

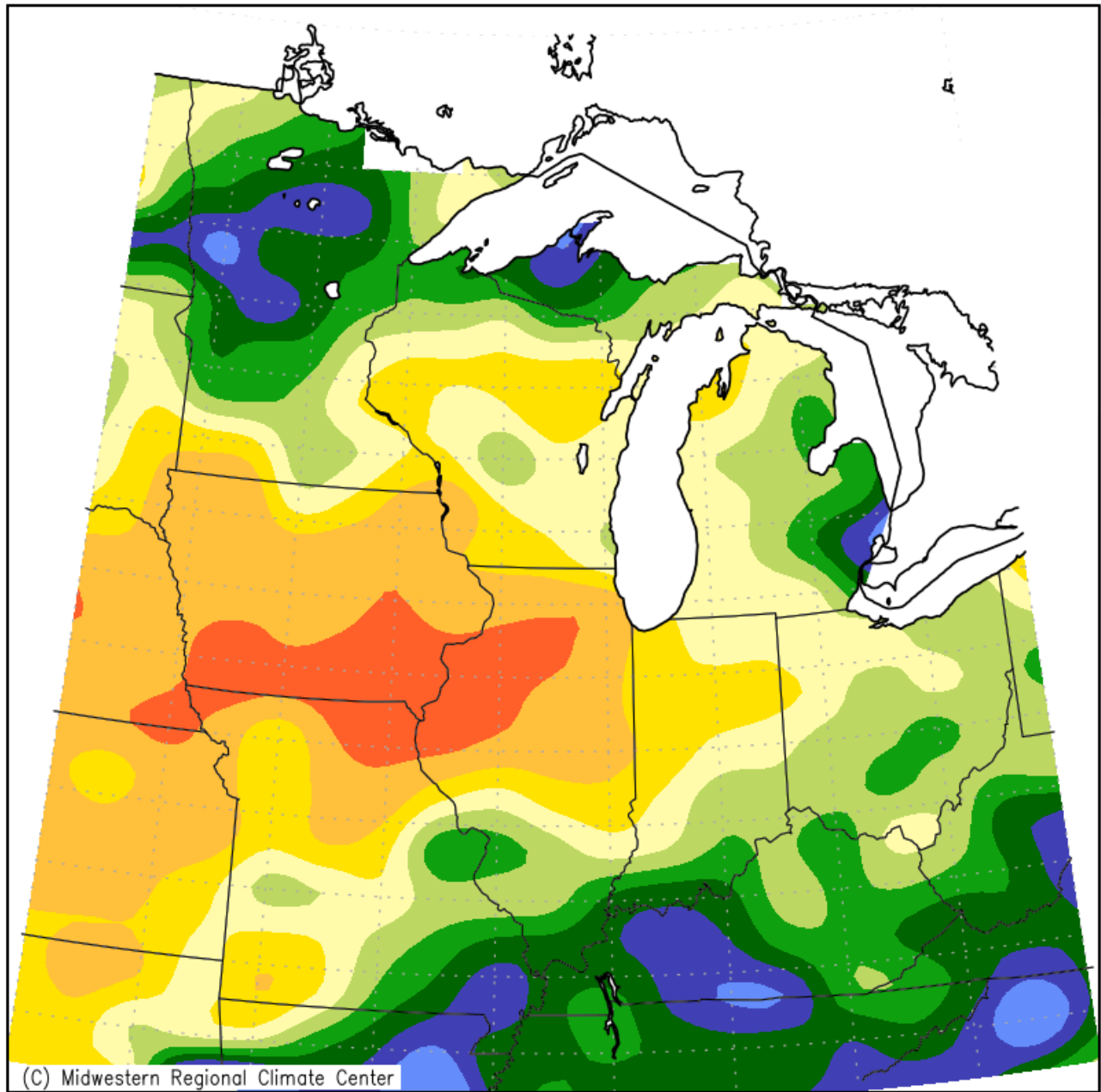
Accumulated Precipitation (in)
August 1, 2020 to August 31, 2020



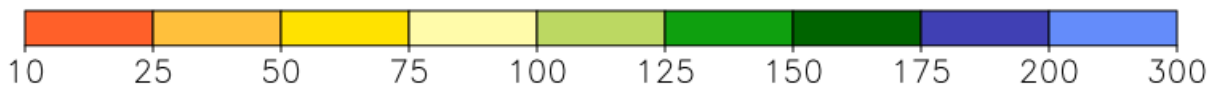
Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana–Champaign

Figure 2. August 2020 Monthly Precipitation Totals.

Accumulated Precipitation: Percent of Mean August 1, 2020 to August 31, 2020



Mean period is 1981–2010.



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Figure 3. August 2020 Percent of Normal of Accumulated Precipitation

Calculated Soil Moisture Anomaly (mm) AUG, 2020

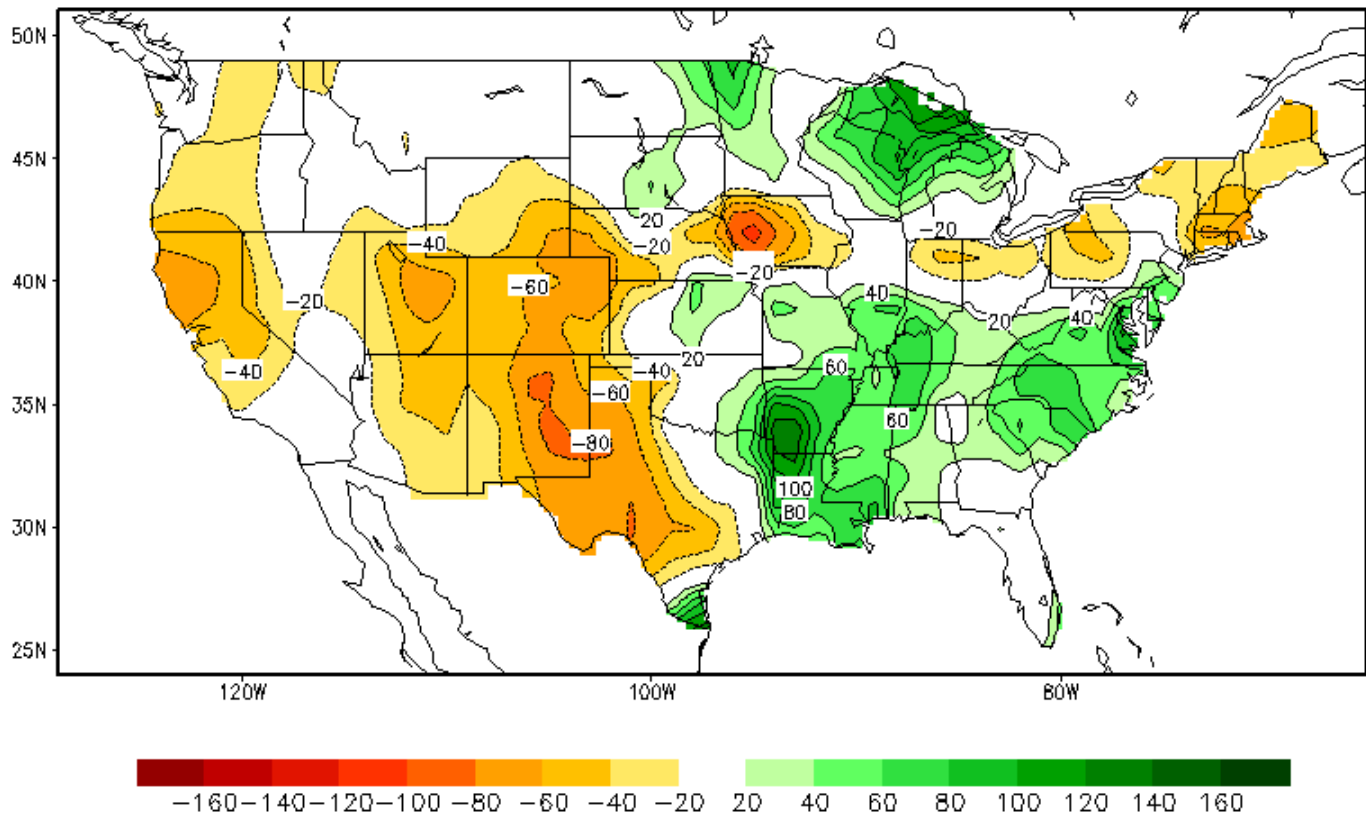


Figure 4: Climate Prediction Center monthly average soil moisture anomaly for August 2020