

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 2012
	DATE: September 25, 2012
	SIGNATURE: Robin J. Turner, MIC Justin Titus, Meteorologist
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).	



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

August Flooding

No flooding was reported to the National Weather Service (NWS).

August Precipitation

August precipitation was generally below to well below normal across much of Upper Michigan. Overall precipitation was 25-80% of normal, highest over portions of Marquette and southern Houghton Counties and lowest over the northern Keweenaw Peninsula and along the Wisconsin border.

Below is a chart of some of the larger cities in the Upper Peninsula, with monthly precipitation in inches, the amount of inches above or below normal for the month and any applicable record high or low rank.

Location	Precipitation	Normal	Above/Below	Rank
WFO Marquette	2.42	2.99	-0.57	
Marquette City	1.90	2.54	-0.64	
Houghton Airport	1.69	2.40	-0.71	
Ironwood	1.84	3.43	-1.59	
Iron Mountain	1.19	3.39	-2.20	7 th
Manistique	No Data	2.84		
Munising	2.04	2.97	-0.93	
Newberry	2.12	3.21	-1.09	
Ontonagon	1.04	2.92	-1.88	4 th

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)
Amasa (Iron County)	M
Atlantic Mine (Houghton County)	2.36
Baraga 7NW (Baraga County)	1.58
Bergland Dam (Ontonagon County)	2.16
Big Bay (Marquette County)	1.31
Big Bay 9SW (Marquette County)	M
Chatham (Alger County)	2.12
Clarksburg (Marquette County)	2.81
Cooks (Schoolcraft County)	1.62
Copper Harbor (Keweenaw County)	0.61
Garden Corners (Delta County)	1.81
Gladstone (Delta County)	1.57
Greenland 6N (Ontonagon County)	2.07
Gwinn (Marquette County)	2.05
Harvey (Marquette County)	2.19
Herman (Baraga County)	2.03
Ishpeming 7NNE (Marquette County)	1.69
Jacobsville (Houghton County)	2.05
Mohawk (Keweenaw County)	0.96
Menominee (Menominee County)	2.07
Norway (Dickinson County)	0.90
Painesdale (Houghton County)	2.67
Stambaugh (Iron County)	1.12
Twin Lakes (Houghton County)	2.29
Watersmeet (Gogebic County)	1.03
Watton (Baraga County)	1.17

Drought Discussion

According to the September 4th, 2012 release of the U.S. Drought Monitor, areas of Upper Michigan generally west of a line from Munising to Manistique were classified under Abnormally Dry (D0) drought. East of this line, no drought was indicated. For the latest drought status, please go to <http://droughtmonitor.unl.edu>.

August Temperatures

Below is a table of some of the larger cities in the Upper Peninsula, with average monthly temperature and number of degrees above or below normal for the month, and the rank of an all-time warmest or coldest month, where applicable.

Location	Temperature (degrees)	Above/Below	Rank
WFO Marquette	64.5	0.7	
Marquette City	68.8	2.1	
Houghton Airport	64.7	0.0	
Ironwood	63.8	0.4	
Iron Mountain	66.8	0.3	
Manistique	No Data		
Munising	65.5	0.7	
Ontonagon	66.7	0.3	
Newberry	65.5	1.1	

August River Levels

According to the United States Geological Survey, August streamflow was below (10-24 percentile) to much below normal (<10 percentile).

August Products Issued

Flood Warnings (FLW): 0
Flood Advisories (FLS): 0
River Statements (RVS): 0
Flash Flood Watches (FFA): 0
Flash Flood Warnings (FFW): 0
Flash Flood Statements (FFS): 0

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