

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): June 2013
	DATE: August 17, 2013
	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).	

X

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

June Flooding

No flooding was reported to the National Weather Service.

June Precipitation

June precipitation was generally above normal over much of central and western Upper Michigan, while east central Upper Michigan was generally near or below normal. Most of the precipitation was due to multiple bands of showers and thunderstorms moving over parts of the area.

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	Above/Below	Rank
WFO Marquette	3.31	0.47	
Marquette City	3.65	0.97	
Houghton Airport	3.48	0.90	
Ironwood	5.44	1.78	
Iron Mountain	4.68	1.20	
Manistique	2.20	-0.75	
Munising	2.81	-0.49	
Newberry	2.61	No Data	
Ontonagon 6SE	4.09	1.06	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)
Alberta (Baraga County)	3.70
Amasa (Iron County)	2.96
Atlantic Mine (Houghton County)	6.67
Baraga 7NW (Baraga County)	4.54
Big Bay (Marquette County)	3.72
Chatham (Alger County)	2.65
Clarksburg (Marquette County)	4.96
Cooks (Schoolcraft County)	Missing
Copper Harbor (Keweenaw County)	2.33
Garden Corners (Delta County)	1.94
Gladstone (Delta County)	3.46
Greenland 6N (Ontonagon County)	5.63
Gwinn (Marquette County)	4.60
Harvey (Marquette County)	4.32
Herman (Baraga County)	3.39
Jacobsville (Houghton County)	4.65
Mohawk (Keweenaw County)	4.26
Menominee (Menominee County)	4.53
Norway (Dickinson County)	2.24
Stambaugh (Iron County)	5.10
Twin Lakes (Houghton County)	4.62
Watersmeet (Gogebic County)	6.29
Watton (Baraga County)	3.69

Drought Discussion

The July 2nd, 2013 release of the U.S. Drought Monitor indicated no drought conditions across Upper Michigan. For the latest drought status, please go to <http://www.crh.noaa.gov/mqt/?n=drought>.

June 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	59.4	-1.2	
Marquette City	58.0	-1.9	
Houghton Airport	58.4	-0.9	
Ironwood	59.9	-1.4	
Iron Mountain	63.0	-0.6	
Manistique	57.0	-1.9	
Munising	57.4	-1.7	
Newberry	60.9	No Data	
Ontonagon 6SE	60.6	-1.7	

June River Levels

According to the United States Geological Survey, June streamflow was near normal (25-75 percentile) throughout much of Upper Michigan.

June Products Issued

0 Areal Flash Flood Watch (ARBFFAMQT)
0 Areal Flood Watches (ARBFFAMQT)
0 Areal Flood Warnings (ARBFLWMQT)
0 Areal Flood Advisories (ARBFLSMQT)
0 Areal Flood Statements (ARBFLSMQT)
0 River Flood Watches (ARBFFAMQT)
0 River Flood Warnings (ARBFLWMQT)
0 River Flood Advisories (ARBFLSMQT)
0 River Flood Statements (ARBFLSMQT)
0 Hydrologic Statements (ARBRVSMQT)
0 Hydrologic Outlook (ARBESFMQT)

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