

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): October 2014
	DATE: November 17, 2014
	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.

October Flooding

No flooding was reported to the National Weather Service.

October Precipitation

October liquid precipitation was well above normal over north central and eastern Upper Michigan, while south central and western Upper Michigan saw closer to normal precipitation. Snowfall was below normal.

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	Snow	Above/Below	Rank
WFO Marquette	6.49	2.65	4 th	3.2	-2.8	
Marquette City	5.81	2.68	5 th	0.0	-1.0	
Houghton Airport	3.67	0.68		No Data	No Data	
Ironwood	3.75	-0.23		2.0	-4.6	
Iron Mountain	3.41	0.27		Trace	-0.3	
Manistique	6.50	3.02	1 st	0.0	No Data	
Munising	7.07	2.84	5 th	0.2	-1.2	
Newberry	6.79	No Data	1 st	0.0	No Data	
Ontonagon 6SE	4.08	0.58		Trace	-2.5	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)	Snow (Inches)
Alberta (Baraga County)	6.23	0.0
Amasa (Iron County)	3.63	1.0
Atlantic Mine (Houghton County)	4.97	1.5
Baraga 7NW (Baraga County)	M	M
Big Bay (Marquette County)	5.77	0.9
Chatham (Alger County)	6.98	2.0
Clarksburg (Marquette County)	3.16	3.0
Cooks (Schoolcraft County)	3.57	1.9
Copper Harbor (Keweenaw County)	3.01	Trace
Garden Corners (Delta County)	5.57	1.1
Gladstone (Delta County)	4.63	Trace
Greenland 6N (Ontonagon County)	5.38	Trace
Gwinn (Marquette County)	4.00	0.0
Harvey (Marquette County)	4.50	0.0
Herman (Baraga County)	6.02	3.6
Jacobsville (Houghton County)	3.68	0.8
Mohawk (Keweenaw County)	4.78	1.8
Menominee (Menominee County)	3.25	0.0
Norway (Dickinson County)	4.51	Trace
Paulding (Ontonagon County)	3.93	2.9
Stambaugh (Iron County)	3.99	Trace
Watton (Baraga County)	3.44	2.0

Drought Discussion

The October 28, 2014 release of the U.S. Drought Monitor indicated that drought conditions did not exist across Upper Michigan. For the latest drought status, please go to <http://www.crh.noaa.gov/mqt/?n=drought>.

October 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	41.9	-1.3	
Marquette City	45.8	-1.5	
Houghton Airport	43.5	0.1	
Ironwood	43.4	0.0	
Iron Mountain	44.5	-0.5	
Manistique	45.6	0.1	
Munising	43.9	-1.7	
Newberry	44.1	0.3	
Ontonagon 6SE	46.6	-0.2	

October River Levels

According to the United States Geological Survey, October average streamflow across Upper Michigan was generally normal (25-75 percentile) in most Lake Superior drainage basins and above normal (76-90 percentile) in most Lake Michigan drainage basins.

October Products Issued

31 - Hydrologic Summary

1 - Hydrologic Outlook

CC:

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