

<b>NWS FORM E-5</b> U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE  <b>MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS</b>  TO: NATIONAL WEATHER SERVICE (W/OH12x1) HYDROMETEOROLOGICAL INFO CENTER 1325 EAST-WEST HIGHWAY, RM 7116 SILVER SPRING, MD 20910	HSA OFFICE: <b>Marquette, MI</b>
	REPORT FOR (MONTH / YEAR): <b>November 2016</b>
	DATE: <b>December 13, 2016</b>
	SIGNATURE: <b>Robin J. Turner, MIC</b> <b>Justin Titus, Meteorologist</b>
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.

**November Flooding**

No flooding was reported to the National Weather Service.

**November Precipitation**

With record warm temperatures in November, lake effect precipitation was cut back substantially from normal. This, along with fewer than normal storms systems, led to near to well below normal liquid equivalent precipitation and snowfall for November.

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	Snowfall	Above/Below	Rank
WFO Marquette	1.78	-1.40		14.2	-10.2	
Marquette City	1.74	-0.88		9.0	-1.9	
Houghton Airport	1.88	-0.25		6.8	-15.4	
Ironwood	2.57	-0.13		16.9	-7.6	
Iron Mountain	1.86	-0.08		2.2	-3.7	
Manistique	2.44	-0.07		Trace	No Data	
Munising	1.84	-1.90		0.7	-12.3	
Newberry	1.79	No Data		0.4		

**Drought Discussion**

The December 6, 2016 release of the U.S. Drought Monitor did not indicate drought conditions across Upper Michigan. For the latest drought status, please go to <http://www.drought.gov>.

**November River Levels**

According to the United States Geological Survey, Upper Michigan November average streamflow generally ranged from below normal (10-24 percentile) in the Lake Superior drainage basins east of Marquette to normal (25-75 percentile) elsewhere.

**November Products Issued**

- 30 – Hydrologic Summary
- 1 – Hydrologic Outlook