

<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>September 2015</b>
	DATE: <b>October 6, 2015</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.

**September Flooding**

No flooding was reported to the National Weather Service.

**September Precipitation**

Several rounds of thunderstorms moved across mainly western and southern Upper Michigan in the first week of September, locally dropping several inches of rain in some spots. Minor flooding was expected based on rainfall rates and amounts, but no flooding was reported.

Overall, September precipitation was below to well below normal, except for over far western Upper Michigan and near the Wisconsin Border where heavy rain that fell early in the month led to near normal precipitation.

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	1.60	3.72	-2.12	5 <sup>th</sup>
Marquette City	1.67	3.16	-1.49	
Houghton Airport	0.95	3.45	-2.50	4 <sup>th</sup>
Ironwood	4.90	4.06	0.84	
Iron Mountain	3.54	3.62	-0.08	
Manistique	2.78	3.76	-0.98	
Munising	2.19	4.07	-1.88	
Newberry	3.56	No Data	No data	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)
Ahmeek 1SW	0.60
Amasa (Iron County)	2.10
Atlantic Mine (Houghton County)	4.50
Baraga 7NW (Baraga County)	1.50
Big Bay (Marquette County)	1.60
Chatham (Alger County)	2.41
Clarksburg (Marquette County)	1.35
Cooks (Schoolcraft County)	3.50
Copper Harbor (Keweenaw County)	0.77
Garden Corners (Delta County)	5.93
Gladstone (Delta County)	3.95
Greenland 6N (Ontonagon County)	4.99
Gwinn (Marquette County)	1.99
Harvey (Marquette County)	0.89
Herman (Baraga County)	1.98
Houghton (Houghton County)	1.57
Jacobsville (Houghton County)	2.73
Mohawk (Keweenaw County)	0.38
Menominee (Menominee County)	3.68
Norway (Dickinson County)	Missing
Paulding (Ontonagon County)	1.68
Stambaugh (Iron County)	3.64

### **Drought Discussion**

The September 29, 2015 release of the U.S. Drought Monitor indicated that D0 (abnormally dry) drought conditions existed over northern portions of Upper Michigan. For the latest drought status, please go to <http://www.drought.gov>.

### **September 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	61.4	5.6	2 <sup>nd</sup>
Marquette City	64.5	5.1	2 <sup>nd</sup>
Houghton Airport	62.5	7.1	2 <sup>nd</sup>
Ironwood	61.9	6.2	4 <sup>th</sup>
Iron Mountain	63.9	6.3	3 <sup>rd</sup>
Manistique	61.9	4.9	3 <sup>rd</sup>
Munising	62.3	5.0	2 <sup>nd</sup>
Newberry	63.6	7.8	1 <sup>st</sup>

## **September River Levels**

According to the United States Geological Survey, September average streamflow was normal (25-75 percentile) across Upper Michigan.

## **September Products Issued**

- 30 – Daily River and Lake Summary
- 30 – Hydrologic Summary
- 7 – Flood Advisory
- 1 – Flash Flood Warning
- 1 – Flash Flood Statement
- 1 – Hydrologic Outlook

CC:  
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