

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): September 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).	



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

September Flooding

Urban street flooding was reported on September 4th in Iron Mountain and Norway. The area received 2 to 4 inches of rain in a relatively short period of time, which caused flooding of a few roads and some business basements. Additionally, up to 2.5 feet of water was reported over portions of U.S. Highway 2 in Iron Mountain, which caused several cars to stall.

September Precipitation

September precipitation was generally near to below normal in locations that normally start to see lake effect precipitation from a northwest wind (the Keweenaw Peninsula and east of Marquette near Lake Superior). Elsewhere, storm systems brought near to well above 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	Above/Below	Rank
WFO Marquette	4.10	0.38	
Marquette City	4.35	1.19	
Houghton Airport	2.91	-0.54	
Ironwood	5.20	1.14	
Iron Mountain	6.54	2.92	4 th
Manistique	3.79	0.03	
Munising	3.39	-0.68	
Newberry	3.58	No Data	
Ontonagon 6SE	3.41	0.13	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)
Alberta (Baraga County)	4.07
Amasa (Iron County)	3.45
Atlantic Mine (Houghton County)	3.61
Baraga 7NW (Baraga County)	3.27
Big Bay (Marquette County)	4.76
Chatham (Alger County)	3.53
Clarksburg (Marquette County)	3.26
Cooks (Schoolcraft County)	4.36
Copper Harbor (Keweenaw County)	2.95
Garden Corners (Delta County)	3.78
Gladstone (Delta County)	4.64
Greenland 6N (Ontonagon County)	4.12
Gwinn (Marquette County)	3.70
Harvey (Marquette County)	6.72
Herman (Baraga County)	4.39
Jacobsville (Houghton County)	3.89
Mohawk (Keweenaw County)	3.00
Menominee (Menominee County)	5.98
Norway (Dickinson County)	M
Paulding (Ontonagon County)	5.03
Stambaugh (Iron County)	4.59
Watton (Baraga County)	4.30

Drought Discussion

The September 30, 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>.

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	55.6	-0.2	
Marquette City	58.6	-0.8	
Houghton Airport	54.8	-0.6	
Ironwood	54.9	-0.8	
Iron Mountain	57.5	-0.1	
Manistique	56.4	-0.6	
Munising	56.2	-1.1	
Newberry	57.9	2.1	
Ontonagon 6SE	58.6	0.1	

September River Levels

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

September Products Issued

30 - Hydrologic Summary

1 - Hydrologic Outlook

CC:

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