

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 2012
	DATE: October 23, 2012
	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

No flooding was reported to the National Weather Service (NWS).

September Precipitation

September precipitation was generally above normal across much of Upper Michigan, with the exception of areas near the Wisconsin border away from Lake Superior where precipitation was below normal. The highest precipitation amounts were observed near Lake Superior east of Marquette where northwest winds brought lake effect/enhanced 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	4.21	3.92	0.29	
Marquette City	4.33	3.84	0.49	
Houghton Airport	3.12	3.39	0.27	
Ironwood	3.09	4.08	0.99	
Iron Mountain	1.97	3.55	-1.58	
Manistique	3.63	3.27	0.36	
Munising	6.41	4.22	2.19	7 th
Newberry	3.54	3.56	-0.02	
Ontonagon 6SE	3.55	3.30	0.25	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)
Amasa (Iron County)	M
Atlantic Mine (Houghton County)	4.35
Baraga 7NW (Baraga County)	2.04
Bergland Dam (Ontonagon County)	3.32
Big Bay (Marquette County)	4.37
Big Bay 9SW (Marquette County)	M
Chatham (Alger County)	5.13
Clarksburg (Marquette County)	3.82
Cooks (Schoolcraft County)	2.88
Copper Harbor (Keweenaw County)	M
Garden Corners (Delta County)	3.16
Gladstone (Delta County)	3.01
Greenland 6N (Ontonagon County)	4.36
Gwinn (Marquette County)	M
Harvey (Marquette County)	5.10
Herman (Baraga County)	3.45
Ishpeming 7NNE (Marquette County)	4.68
Jacobsville (Houghton County)	2.81
Mohawk (Keweenaw County)	4.23
Menominee (Menominee County)	1.70
Norway (Dickinson County)	2.16
Painesdale (Houghton County)	M
Stambaugh (Iron County)	2.34
Twin Lakes (Houghton County)	4.35
Watersmeet (Gogebic County)	M
Watton (Baraga County)	3.33

Drought Discussion

According to the October 2nd, 2012 release of the U.S. Drought Monitor, areas of south central Upper Michigan generally covering Menominee, Dickinson and Iron Counties were classified under Abnormally Dry (D0) drought. Elsewhere, no drought was indicated. For the latest drought status, please go to <http://droughtmonitor.unl.edu>.

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	53.2	-2.2	
Marquette City	58.6	-0.2	
Houghton Airport	53.0	-2.8	
Ironwood	53.8	-1.8	
Iron Mountain	56.0	-1.6	
Manistique	56.2	-0.8	
Munising	55.5	-1.8	
Ontonagon	56.7	-1.5	
Newberry	55.3	-1.2	

September River Levels

According to the United States Geological Survey, September streamflow was much below normal (<10 percentile) over all but the Escanaba River Basin, which was listed at normal (25-75 percentile), in the WFO Marquette Hydrologic Service Area in Upper Michigan.

September Products Issued

Flood Warnings (FLW): 0
Flood Advisories (FLS): 0
River Statements (RVS): 0
Flash Flood Watches (FFA): 0
Flash Flood Warnings (FFW): 0
Flash Flood Statements (FFS): 0

CC:
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