

NWS FORM E-5

U.S. DEPARTMENT OF COMMERCE
NOAA, NATIONAL WEATHER SERVICE

HSA OFFICE:

Grand Rapids, MI

REPORT FOR (MONTH & YEAR):

October 2014

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

DATE:

November 20, 2014

SIGNATURE:

Daniel K. Cobb, MIC
Mark Sekelsky

TO: NATIONAL WEATHER SERVICE (W/OS31)
HYDROMETEOROLOGICAL INFO CENTER
1325 EAST-WEST HIGHWAY, RM 13468
SILVER SPRING, MD 20910

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 that no significant flooding occurred within this Hydrologic Service Area.

Summary

Overall October was a quiet month in terms of hydrologic impacts. While precipitation was generally above normal, the rain events were spread out, resulting in little or no impacts.

Flood Conditions

Wednesday, October 1st

At 9:25 PM EDT the Hazardous Weather Outlook mentions that a widespread soaking rain is expected for Friday.

Friday, October 3rd

At 3:30 AM EDT the Hydrology section of the AFD mentions that Advisories may be needed if the heavier showers persist over the same area.

At 10:56 AM EDT a flood advisory was issued for parts of Allegan, Ottawa, Kent, Van Buren and Kalamazoo counties valid through 5 pm. Local rainfall amounts in excess of 2 inches caused ponding of the water which resulted in some impassable roads.

At 1:08 PM EDT the flood advisory was updated mentioning the locations experiencing nuisance flooding.

At 4:06 PM EDT the flood advisory was cancelled.

No rivers exceeded bankfull during the month of October 2014:

Flood Stage Report

No forecast points exceeded flood stage in our HSA during the month of October 2014. As a result, no NWS Form E-3 "Flood Stage Report" was sent.

River Conditions

The end of the month percentage of normal flow for selected rivers is listed below:

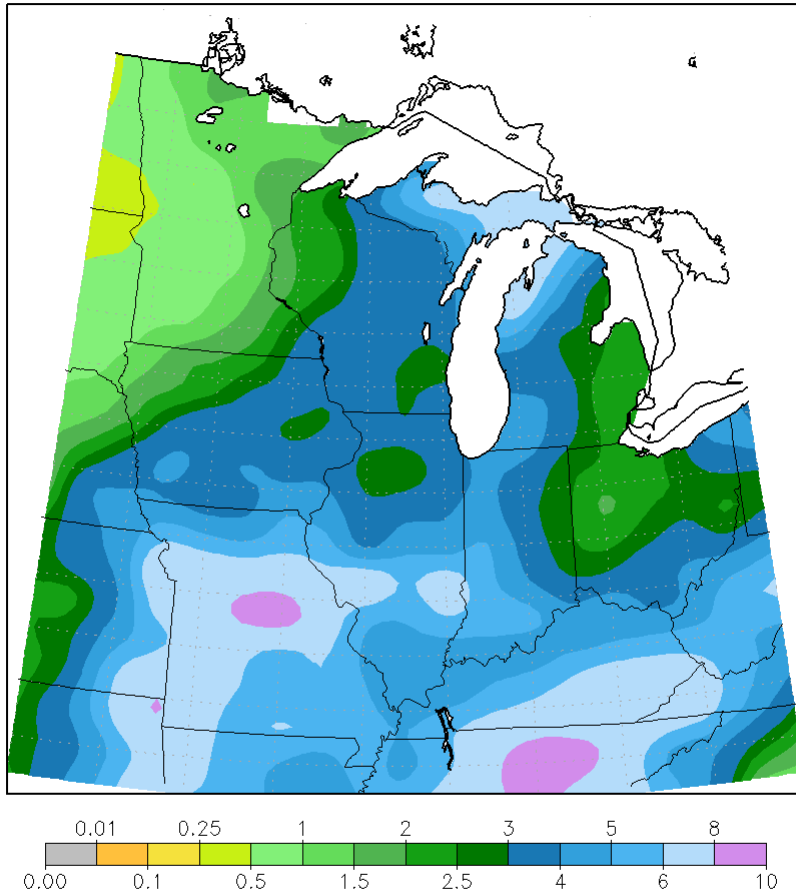
<u>Location</u>	<u>River</u>	<u>% of Normal</u>
Scottville	Pere Marquette	97
Whitehall	White	107
Ewart	Muskegon	108
Mt. Pleasant	Chippewa	127
Lansing	Grand	100
Grand Rapids	Grand	130
East Lansing	Red Cedar	139
Hastings	Thornapple	122
Battle Creek	Battle Creek	146
Battle Creek	Kalamazoo	99

General Hydrologic Information

October 2014 featured near normal temperatures and generally above normal precipitation. October precipitation totals at Grand Rapids, Lansing, and Muskegon, Michigan, were 4.98, 3.55, and 2.90 inches, respectively (Figure 1). Precipitation departures for the month at these three sites were 1.72 of an inch above normal at Grand Rapids, 1.02 inches above normal at Lansing, and 0.21 of an inch below normal at Muskegon. Percent of mean precipitation for October 2014 is shown in Figure 2. Yearly precipitation departures were 2.34 of an inch above normal for Grand Rapids, 6.19 inches above normal for Lansing, and 5.13 inches above normal for Muskegon, Michigan.

Temperatures for the month of October were near normal at Grand Rapids, Lansing, and Muskegon. The average monthly departures were -0.2, -0.7 and +0.5 degrees Fahrenheit respectively.

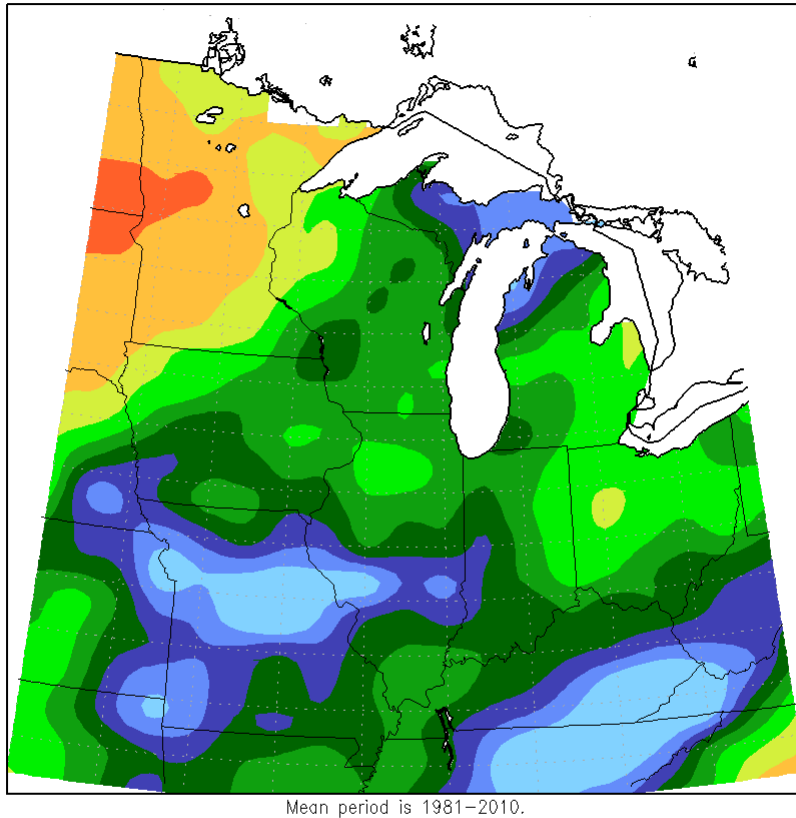
Accumulated Precipitation (in)
October 1, 2014 to October 31, 2014



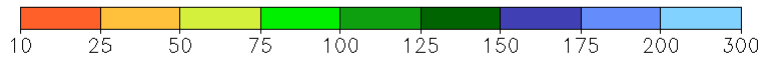
Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign

Figure 1. October Monthly Precipitation Totals

Accumulated Precipitation: Percent of Mean
October 1, 2014 to October 31, 2014



Mean period is 1981–2010.



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Figure 2. October Percent of Mean of Accumulated Precipitation

Hydrologic Products issued this month:

- 3 Areal Flood Statements (ARBFLSGRR)
- 1 Hydrologic Outlook (ARBESFGRR)
- 3 River Statements (ARBRVSGRR)
- 31 Hydrologic Summaries (ARBRVAGRR)
- 31 Daily River and Lake Summary (ARBRVDGRR)

News Articles and Related Documentation

None