

NWS FORM E-5

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

HSA OFFICE:

Grand Rapids, MI

REPORT FOR (MONTH & YEAR):

October 2015

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

DATE:

November 3, 2015

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

SIGNATURE:

Daniel K. Cobb, MIC
Mark Sekelsky, Lead Forecaster

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

October continued the warm and dry period for much of the region. As a result, no hydrologic impacts were observed. A rainfall event at the end of the month caused rivers levels to rise to above normal values. No forecast points, exceeded bankfull levels during the month of October.

Flood Conditions

No forecast points reached action stage.

The following river exceeded bankfull during the month of October 2015:

- None

Flood Stage Report

No gage exceeded flood stage in October thus 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:

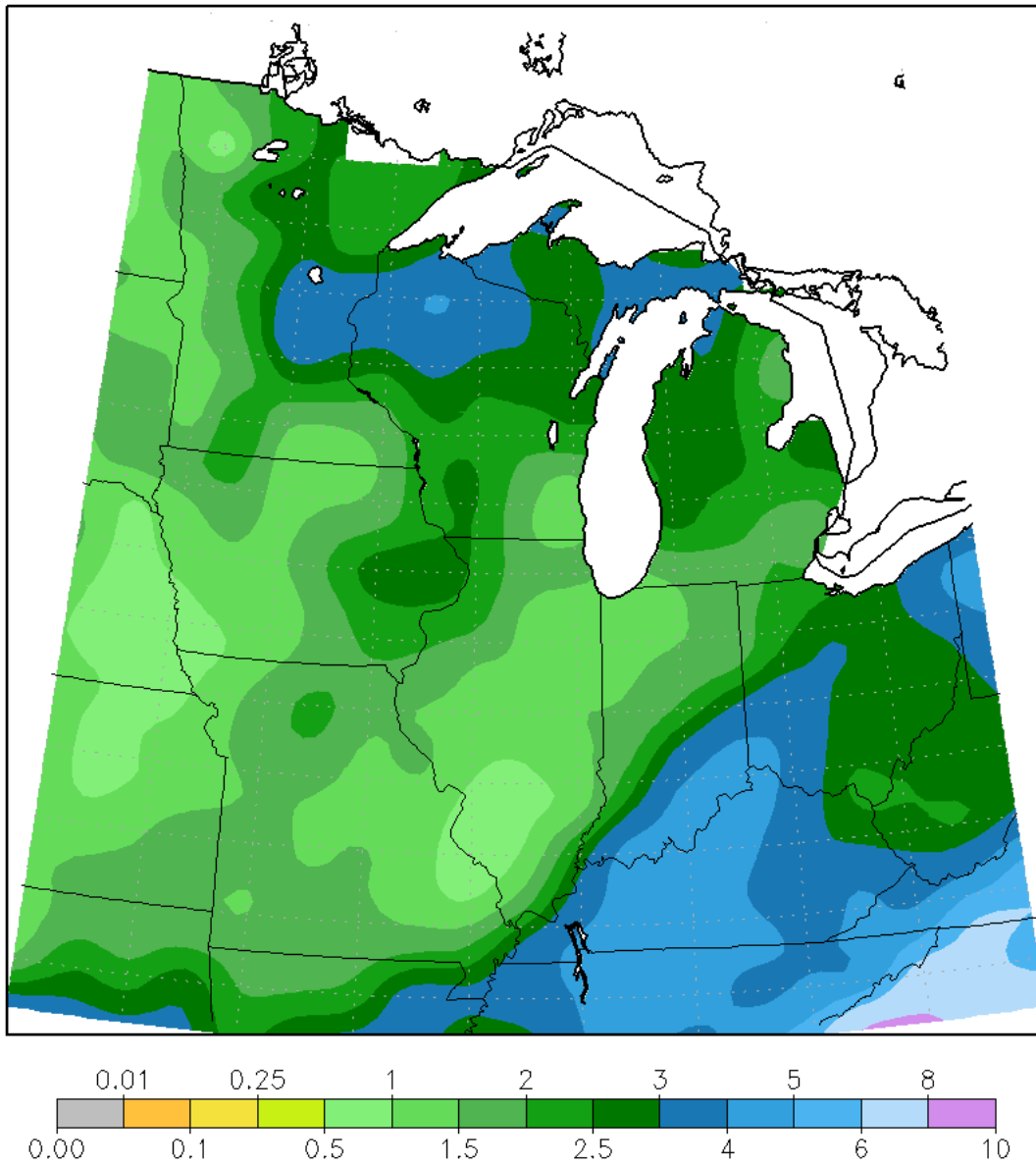
<u>Location</u>	<u>River</u>	<u>% of Normal</u>
Scottville	Pere Marquette	131
Whitehall	White	135
Ewart	Muskegon	115
Mt. Pleasant	Chippewa	144
Lansing	Grand	152
Grand Rapids	Grand	140
East Lansing	Red Cedar	123
Hastings	Thornapple	131
Battle Creek	Battle Creek	156
Battle Creek	Kalamazoo	104

General Hydrologic Information

October precipitation totals at Grand Rapids, Lansing, and Muskegon, Michigan, were 3.27, 2.20, and 2.55 inches, respectively (Figure 1). Precipitation departures for the month at these three sites were 0.01 inches above normal at Grand Rapids, 0.33 inches below normal at Lansing, and 0.56 inches below normal at Muskegon. Percent of mean precipitation for October 2015 is shown in Figure 2. Yearly precipitation departures were 5.09 inches below normal for Grand Rapids, 2.75 inches above normal for Lansing, and 0.69 inches above normal for Muskegon.

Temperatures for the month of October were above normal at Grand Rapids, Lansing, and Muskegon. The average monthly temperature departures were, 1.1, 1.6, and 1.2 degrees Fahrenheit respectively.

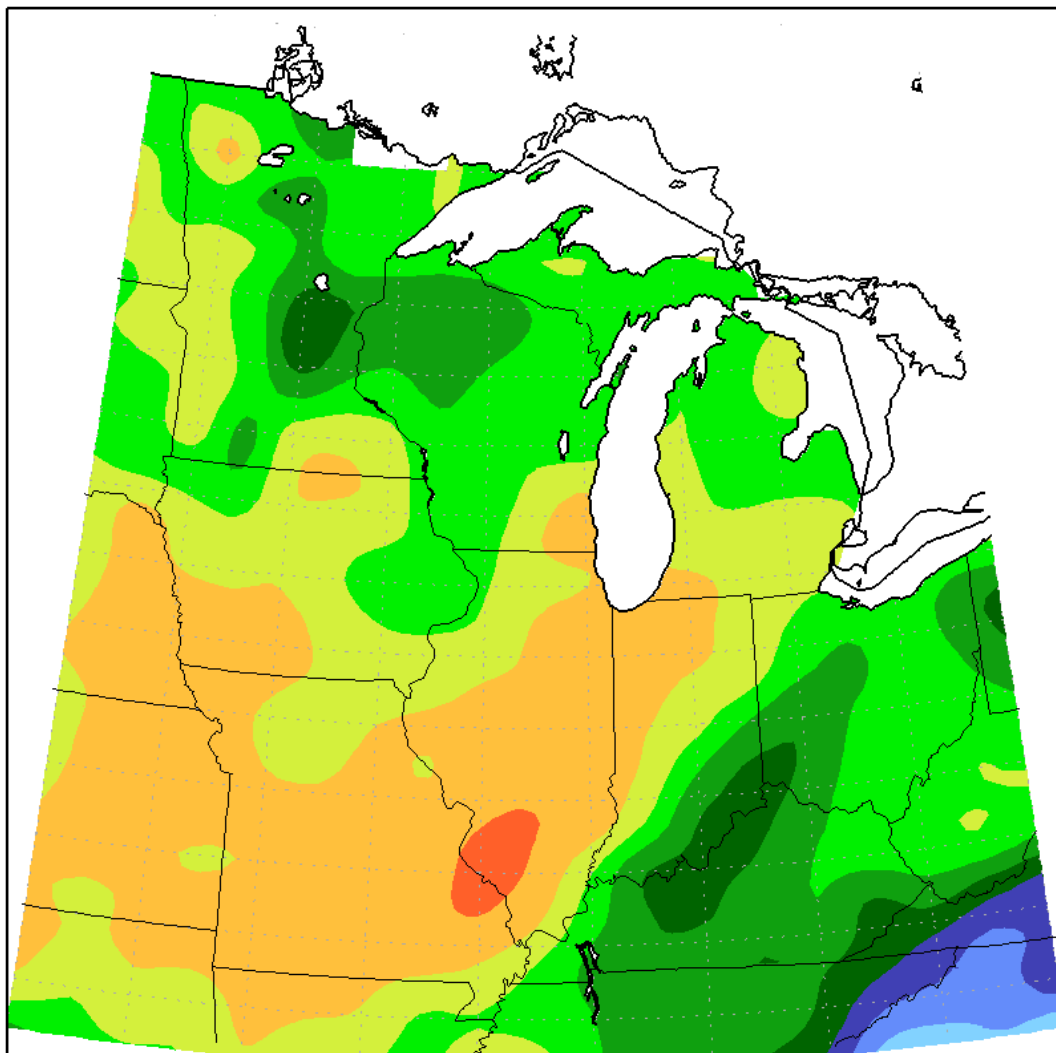
Accumulated Precipitation (in)
October 1, 2015 to October 31, 2015



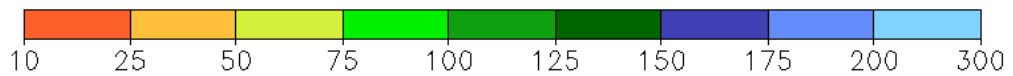
Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign

Figure 1. October Monthly Precipitation Totals

Accumulated Precipitation: Percent of Mean
October 1, 2015 to October 31, 2015



Mean period is 1981–2010.



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Figure 2. October Percent of Mean of Accumulated Precipitation

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR)
- 31 Hydrologic Summaries (ARBRVAGRR)
- 31 Daily River and Lake Summaries (ARBRVDGRR)

News Articles and Related Documentation

None