

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

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

SIGNATURE:
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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

No significant flooding occurred during the month of October in our Hydrologic Service Area (HSA).

Flood Conditions

No flooding occurred during the month of October.

Flood Stage Report

No rivers exceeded flood stage during the month of October.

River Conditions

River levels by the end of October were near to below normal for our HSA.

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	92
Whitehall	White	82
Evart	Muskegon	67
Mt. Pleasant	Chippewa	75
Lansing	Grand	95
Grand Rapids	Grand	91
East Lansing	Red Cedar	95
Hastings	Thornapple	93
Battle Creek	Battle Creek	104
Comstock	Kalamazoo	95

General Hydrologic Information

For the month of October, precipitation totals were near to above normal and temperatures were significantly above normal for Grand Rapids, Lansing, and Muskegon, Michigan.

October precipitation totals at Grand Rapids, Lansing, and Muskegon, were 3.13, 3.36, and 2.42 inches, respectively. Precipitation for the month at these three sites was 0.33 of an inch above normal at Grand Rapids, 1.07 inches above normal at Lansing, and 0.38 of an inch below normal at Muskegon, Michigan. For the year, precipitation totals were near to below normal at Grand Rapids, Lansing, and Muskegon, Michigan. Yearly precipitation totals were 2.39 inches below normal for Grand Rapids, 0.86 of an inch above normal for Lansing, and 1.63 inches below normal for Muskegon, Michigan.

Temperatures for the month of October were significantly above normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of +8.2, +7.2 and +7.3 degrees Fahrenheit, respectively.

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 4 Hydrologic Statements (ARBRVSGRR) were issued
- 31 Hydrologic Summary's (ARBRVAGRR) were issued
- 31 Daily River and Lake Summary's (ABRRVDGRR) were issued