

NWS FORM E-5

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

HSA OFFICE:
Grand Rapids, MI

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

REPORT FOR (MONTH & YEAR):
October 2004

DATE:
November 8, 2004

SIGNATURE:
Daniel G. Houser, MIC
Mark L. Walton, Service Hydrologist

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 flooding occurred within this Hydrologic Service Area.

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

October Precipitation

Rainfall was above normal from Grand Rapids west to the Lake Michigan shoreline. Inland there was still a significant amount of rain, but not enough to bring the rainfall up to normal for October. October precipitation totals were above normal at Grand Rapids and Muskegon, and below normal at Lansing, Michigan. Monthly precipitation totals at Grand Rapids, Lansing, and Muskegon, were 3.98, 1.92, and 3.80 inches, respectively. Precipitation for the month at these three sites was 1.18 inches above normal at Grand Rapids, 0.37 of an inch below normal at Lansing, and 1.00 inch above normal at Muskegon, Michigan. A trace of snowfall was observed at Grand Rapids and no snow fell during the month at either Muskegon or Lansing, Michigan. For the year, precipitation totals at Grand Rapids, Lansing, and Muskegon were still above normal, with Grand Rapids 1.83 inches above normal, Lansing 2.24 inches above normal, and Muskegon 4.13 inches above normal for the year.

October Temperatures

Average temperatures for the month of October 2004 were slightly above normal across southwest Lower Michigan. Temperatures for the month of October were above normal at Grand Rapids, Lansing, and Muskegon, averaging 0.6, 2.1, and 1.3 degrees above normal, respectively. The first large scale general hard freeze occurred on the morning of the 5th where most areas had lows in the 20s.

October River Levels

River levels were near to slightly above normal by the end of October. All rivers stayed below flood stage during the month of October.

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 1 Hydrologic Statement (ARBRVSGRR) was issued
- 3 Flood Statements for Urban and Small Stream Flood Advisories (ARBFLSGRR) were issued
- 31 Hydrologic Summary's (ARBRVAGRR) were issued
- 31 Daily River and Lake Summary's (ARBRVDGRR) were issued

cc:

Ken King - Regional Hydrologist W/CR2
Wendy Pearson - W/CR2x2
Paula Guarino - W/CR1
Kris Sniedze - NCRFC
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Dan Costello - WFO DTX SH
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Ron LeuVoy - USGS Lansing