

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

REPORT FOR (MONTH & YEAR):
April 2005

DATE:
May 4, 2005

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 flooding occurred within this Hydrologic Service Area.

Only minor flooding occurred in the Grand Rapids Hydrologic Service Area (HSA) during the month of April.

April Flooding

Severe thunderstorms with heavy rainfall at the end of March resulted in high river levels the first part of April on the Flat River near Smyrna, Michigan. A river flood warning was issued on April 1st for the Flat River near Smyrna with a forecast to crest near flood stage the following day. The river crested near flood stage on the morning of the 2nd and fell back below flood stage late that evening. No significant property damage was reported and no lives were lost during the minor flooding that occurred in April.

April Precipitation

April precipitation totals were below normal at Grand Rapids, Muskegon and Lansing, Michigan. Monthly precipitation totals at Grand Rapids, Lansing, and Muskegon, were 0.77, 1.05, and 0.43 of an inch, respectively. Precipitation for the month was 2.71 inches below normal at Grand Rapids, 2.04 inches below normal at Lansing, and 2.48 inches below normal at Muskegon, Michigan. For the year, precipitation totals at Grand Rapids, Lansing, and Muskegon were near to below normal, with Grand Rapids 0.25 of an inch below normal, Lansing 0.33 of an inch above normal, and Muskegon 0.67 of an inch below normal for the year. This was the second driest April on record for Grand Rapids and Muskegon and the ninth driest April on record for Lansing.

Snowfall for the month was 1.0 inch at Grand Rapids, 4.3 inches at Lansing, and 0.1 of an inch at Muskegon. Snowfall totals for the month at these three sites were 1.8 inches below normal at Grand Rapids, 1.8 inches above normal for Lansing, and 3.0 inches below normal for Muskegon. By the end of the month, the snow had all melted across our entire HSA.

April Temperatures

Temperatures for the month of April were well above normal at Grand Rapids, Lansing, and Muskegon, averaging 4.2, 4.7, and 4.8 degrees above normal, respectively.

April River Levels

River levels across Grand Rapids HSA by the end of April were below normal. 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	88
Whitehall	White	72
Evert	Muskegon	72
Mt. Pleasant	Chippewa	71
Lansing	Grand	75
Grand Rapids	Grand	72
East Lansing	Red Cedar	81
Hastings	Thornapple	55
Battle Creek	Battle Creek	68
Comstock	Kalamazoo	80

Hydrologic Products issued this month:

- 1 Flood Warning (ARBFLWGRR) was issued
- 3 Flood Statements (ARBFLSGRR) were issued
- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 15 Hydrologic Statements (ARBRVSGRR) were issued
- 30 Hydrologic Summary's (ARBRVAGRR) were issued
- 30 Daily River and Lake Summary's (ARBRVDGRR) were issued