

NWS FORM E-5

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

HSA OFFICE:  
**Grand Rapids, MI**

REPORT FOR (MONTH & YEAR):  
July 2005

**MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS**

DATE:  
August 3, 2005

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

SIGNATURE:  
MIC  
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 July. However, numerous Urban and Small Stream Flood Advisories were issued in our HSA during the month of July. Urban and Small Stream Flood Advisories were issued for Mason, Lake, Osceola, Clare, Newaygo, Mecosta, Isabella, Montcalm, Gratiot, Clinton, Allegan, Eaton, Ingham, and Van Buren Counties. Nuisance flooding was reported, but no significant property damage or lives were lost, during the minor urban and small stream flooding events that occurred in July.

July Flooding

Urban and small stream flood advisories were issued for nuisance flooding during the month of July for the following counties: Mason, Lake, Osceola, Clare, Newaygo, Mecosta, Isabella, Montcalm, Gratiot, Clinton, Allegan, Eaton, Ingham, and Van Buren.

July Precipitation

July precipitation totals were above normal at Grand Rapids and Lansing and below normal at Muskegon, Michigan. Monthly precipitation totals at Grand Rapids, Lansing, and Muskegon, were 4.08, 5.76, and 2.05 inches, respectively. Precipitation for the month at these three sites were 0.52 of an inch above normal at Grand Rapids, 3.08 inches above normal at Lansing, and 0.27 of an inch below normal at Muskegon, Michigan. For the year, precipitation totals at Grand Rapids were 2.63 inches above normal, Lansing 4.31 inches above normal, and Muskegon 3.34 inches below normal for the year.

July Temperatures

Temperatures for the month of July were above normal at Grand Rapids, Lansing, and Muskegon, averaging 1.4, 2.5, and 2.2 degrees above normal, respectively.

July River Levels

River levels were near to above normal during the month of July. All rivers stayed below flood stage during the month of July. 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	98
Whitehall	White	78
Ewart	Muskegon	88
Mt. Pleasant	Chippewa	156
Lansing	Grand	170
Grand Rapids	Grand	123
East Lansing	Red Cedar	106
Hastings	Thornapple	100
Battle Creek	Battle Creek	104
Comstock	Kalamazoo	138

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 3 Flood Watches (ARBFFAGRR) were issued
- 4 Flash Flood Warnings (ARBFFWGRR) were issued
- 6 Flash Flood Statements (ARBFFSGRR) were issued
- 15 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