

NWS FORM E-5

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

HSA OFFICE:
Grand Rapids, MI

REPORT FOR (MONTH & YEAR):
August 2005

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

DATE:
September 2, 2005

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

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 August. However, Urban and Small Stream Flood Advisories were issued in our HSA during the month of August for Mason and Kalamazoo Counties.

August Flooding

Urban and small stream flood advisories were issued for nuisance flooding for Mason and Kalamazoo 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 August.

August Precipitation

August precipitation totals were below normal at Grand Rapids, Lansing, and Muskegon, Michigan. Monthly precipitation totals at Grand Rapids, Lansing, and Muskegon, were 1.42, 0.74, and 2.15 inches, respectively. Precipitation for the month at these three sites were 2.36 inches below normal at Grand Rapids, 2.72 inches below normal at Lansing, and 1.62 inches below normal at Muskegon, Michigan. For the year, precipitation totals at Grand Rapids were 0.28 of an inch above normal, 1.59 inches above normal at Lansing, and 4.96 inches below normal at Muskegon.

August Temperatures

Temperatures averaged above normal during the month of August across southwest Lower Michigan. Temperatures for the month of August at Grand Rapids, Lansing, and Muskegon, averaged 2.7, 4.4, and 2.0 degrees above normal, respectively.

Drought Conditions

Around the middle of the month a Hydrologic Outlook was issued covering drought conditions across our HSA. Abnormally dry conditions impacted portions of Central Lower Michigan, along and west of U.S. 131, which included the counties of Lake, Newaygo, Kent, Barry, and Kalamazoo Counties. Moderate drought conditions impacted our more Northern lake shore counties, which included Mason, Oceana, and Muskegon

Counties. Severe drought conditions impacted lake shore counties in extreme Southwest Lower Michigan which included Ottawa, Allegan, and Van Buren Counties.

August River Levels

River levels were near to below normal during the month of August. All rivers stayed below flood stage during the month of August. 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 | 91 |
| Whitehall | White | 65 |
| Ewart | Muskegon | 85 |
| Mt. Pleasant | Chippewa | 93 |
| Lansing | Grand | 61 |
| Grand Rapids | Grand | 65 |
| East Lansing | Red Cedar | 53 |
| Hastings | Thornapple | 68 |
| Battle Creek | Battle Creek | 78 |
| Comstock | Kalamazoo | 92 |

Hydrologic Products issued this month:

- 2 Hydrologic Outlooks (ARBESFGRR) were issued
- 6 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