

NWS FORM E-5

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

HSA OFFICE:  
**Grand Rapids, MI**

REPORT FOR (MONTH & YEAR):  
June 2004

**MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS**

DATE:  
July 19, 2004

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.

The significant river flooding that occurred in May was winding down at the beginning of June, with the final river flood statement, canceling the flood warning for the Grand River at Robinson Township, issued June 3<sup>rd</sup>. No significant river flooding occurred in the Grand Rapids Hydrologic Service Area (HSA) during the month of June. However, areal flooding and minor street flooding occurred in our HSA during the month of June. A Flood Warning was issued for Oceana and Mason Counties, and Urban and Small Stream Flood Advisories were issued for Ingham, Kalamazoo, Van Buren, Gratiot, Newaygo, Oceana, and Mason counties.

June Flooding

On Wednesday, June 9<sup>th</sup>, Urban and Small Stream Flood Advisories were issued for Mason, Newaygo, and Oceana counties early in the morning. The radar was indicating very intense precipitation over the advisory area, with radar estimated rainfall amounts of two to four inches over a six hour period. The intense rainfall continued over Mason and Oceana counties and the Urban and Small Stream Flood Advisory was upgraded to a Flood Warning for these two counties at 5:01 AM EDT. Significant flooding occurred in Mason and Oceana Counties, and resulted in a significant number of flooded and washed out roads later that morning. The most significant damage was on Chauvez Road, in Mason County's Pere Marquette Township, which caved in over a culvert causing a 40 foot gap in the Road. At around 6 AM EDT one person was injured when they drove their minivan into the gap in Chauvez Road. Later that day a local state of emergency was declared for Riverton, Pere Marquette, Amber, and Summit townships in Mason County due to flooded roads. Damages to roads in Mason County were estimated to be \$250,000 to \$300,000.

Wednesday afternoon, June 9<sup>th</sup>, an Urban and Small Stream Flood Advisory was issued for Gratiot County. Only minor inconvenience flooding was reported in the Urban and Small Stream Flood Advisory areas.

On Saturday, June 12<sup>th</sup>, an Urban and Small Stream Flood Advisory was issued in the early morning for Kalamazoo and Van Buren Counties. The radar was indicating very intense precipitation over the advisory area, with radar estimated rainfall rates in excess of

an inch per hour and rainfall amounts of over two inches in three hours. Later that morning a Flood Watch was issued for 12 counties in Southwest Lower Michigan. The Flood Watch and Urban and Small Stream Flood Advisory were cancelled later that day. No significant flooding was reported.

On Monday, June 14<sup>th</sup>, an Urban and Small Stream Flood Advisory was issued in the afternoon for Ingham County. The radar was indicating very intense precipitation over the advisory area, with radar estimated rainfall rates in excess of an inch per hour and rainfall amounts of one to two inches in two hours. Only minor inconvenience flooding was reported on the streets in the city of Lansing.

### June Precipitation

June precipitation totals were slightly below normal at Grand Rapids and Lansing, and above normal at Muskegon, Michigan. Monthly precipitation totals at Grand Rapids, Lansing, and Muskegon, were 3.09, 3.08, and 4.26 inches, respectively. Precipitation for the month at these three sites were 0.58 of an inch below normal at Grand Rapids, 0.52 of an inch below normal at Lansing, and 1.68 inches above normal at Muskegon, Michigan. For the year, precipitation totals at Grand Rapids, Lansing, and Muskegon were above normal, with Grand Rapids 5.63 inches above normal, Lansing 4.22 inches above normal, and Muskegon 7.75 inches above normal for the year.

### June Temperatures

Temperatures for the month of June were below normal at Grand Rapids, Lansing, and Muskegon, averaging 0.8, 1.2, and 1.9 degrees below normal, respectively.

### June River Levels

River levels were high at the beginning of June due to a very wet May. The lower portions of the Grand River finally fell below flood stage June 3<sup>rd</sup>. During June, river levels continued to fall and by the end of the month ranged from near to slightly above normal across Grand Rapids 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	152
Whitehall	White	143
Ewart	Muskegon	141
Mt. Pleasant	Chippewa	155
Lansing	Grand	149
Grand Rapids	Grand	158
East Lansing	Red Cedar	119
Hastings	Thornapple	122
Battle Creek	Battle Creek	136
Comstock	Kalamazoo	91

Hydrologic Products issued this month:

- 2 Hydrologic Outlooks (ARBESFGRR) were issued
- 5 Flood Watches (ARBFFAGRR) were issued
- 3 Flood Warnings (ARBFLWGRR) were issued
- 20 Flood Statements (ARBFLSGRR) were issued
- 28 Hydrologic Statements (ARBRVSGRR) were issued
- 30 Hydrologic Summary's (ARBRVAGRR) were issued
- 30 Daily River and Lake Summary's (ARBRVDGRR) were issued

cc:

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Paula Guarino - W/CR1  
Kris Sniedze - NCRFC  
Dan Houser - WFO GRR MIC  
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