



Damage Assessment and Emergency Status Report

Incident: 2013-04-Statewide-Flooding

Operational Period

Operational Period Begin: 04/20/2013 08:00:00
Operational Period End: 04/20/2013 13:00:00
Situation Report No. #4
SEOC Status: Full
Hours of Operation Begin: 04/20/2013 08:00:00
Hours of Operation End: 04/20/2013 13:00:00

Executive Summary

The State Emergency Operations Center (SEOC) began to actively monitor the flooding conditions across the state at 1130 on April 18, 2013. As of 0830 on Friday, April 19, the SEOC was partially activated. The SEOC went to full activation at 1300 on Friday April 19. For the weekend of April 20-21, the SEOC will be operational from 0800 to 1500 (8:00 AM to 3:00 PM) on Saturday and is anticipated to be operational from 0800 to 2000 (8:00 AM to 8:00 PM) on Sunday. SEOC personnel are monitoring high river levels across Central Lower Michigan. River levels in these areas are either cresting, rising and/or reaching flood or near-flood stages due to several days of heavy rain combined with previously saturated soil conditions. There is an expectation for flooding in the low-lying areas adjacent to these rivers. The Grand River at Grand Rapids, with a flood stage of 18 feet, is currently at 20.92 feet and is expected to crest at 23.3 feet by Monday (April 22) afternoon. The Tittabawassee River at Midland, with a flood stage of 24 feet, is currently at 28.07 feet, and is expected to crest at 28.5 feet tonight. The Muskegon River at the Croton Dam, with a flood stage of 9 feet, is currently at 10.48 feet, and will crest at 11.15 feet in the next 24 hours. The Chippewa River at Mt. Pleasant, with a flood stage of 8 feet, is currently at 9.46 feet, and will crest at 11 feet early today, Saturday, April 20.

Road closures due to flooding have been reported in several counties, and include some state-level and interstate highways (see list below from the MDOT). Motorists are being advised by local and state emergency management officials not to attempt to drive around barricades or to drive through flooded areas. Temporary shelters for residents whose homes have been flooded have been opened in several communities, however, several others have been closed due to low shelter populations.

The National Weather Service reports that rainfall totals from Wednesday, April 17 through Thursday April 18 ranged from 1-3 inches in most areas in Central and Southern Lower Michigan. A heavier swath of rain fell from the Lake Michigan shore at Holland and Grand Haven east into the Grand Rapids area. In this area (Allegan, Kent, and Ottawa Counties), 4-5 inch rainfall totals were experienced. Moderate to major flooding will continue on larger rivers such as the Grand River, Muskegon River, Tittabawassee River, and Saginaw River. Minor to moderate flooding is expected along areas adjacent to smaller rivers such as the Cass River, Thread Creek, Lower Rouge River, and the Pine River. Smaller creeks and streams are receding as widespread rainfall has ended.

The April 20 National Weather Service forecast for the Lower Peninsula predicts the next chance for rain will be late Monday night through Tuesday night. Some thunderstorms may be possible - but for the most part an inch or less of additional rainfall is currently anticipated from Monday night through Tuesday night. For the Upper Peninsula the forecast is for rainfall possible next week that would help to quickly melt the remaining snow pack. There is 6-8 inches of available water in that snow pack, so significant rainfall combined with rapid warming would lead to some flooding late next week into the early part of May.

Sandbagging operations are either underway or being discussed in several Michigan counties and local communities. The MSP/EMHSD is coordinating with the U.S. Army Corps of Engineers (USACE) to provide sandbags to communities in need. In addition, the USACE has disseminated instructions to local governments on how to properly design and construct a sandbag wall to hold back flood water. This guidance can be found in the MI CIMS Reference Info menu, Links, under Sandbag Information, USAGE.

The Michigan State Police (MSP) conducted an aerial flyover on Friday, April 19 to assess the scope and magnitude of the flooding in Kent County, Ionia County, Muskegon County, Newaygo County, and Ottawa County. Additional flyovers were conducted on Saturday, April 20 for damage assessment of the flooded areas specifically looking at the towns of Muir, Lyons, Ionia, and Saranac in Ionia County. In addition, MSP aviation will be assessing the downtown areas of Grand Rapids, and Wyoming and other outlying counties of Newaygo and Ottawa.

A representative from the NWS Grand Rapids office is present in the SEOC to provide updates and forecasts on weather and flood conditions, as requested.

The MDOT SEOC representative reports the following road closures involving state highways and trunklines: 1. M-13 just south of Saginaw, Saginaw County, due to water over the roadway. 2. WB M-121 at Port Sheldon, Ottawa County. 3. M-57 west of Carson City, Montcalm County. 4. M-121 (Chicago Drive) at I-196 is flooded at the ramps east of the freeway; down to one lane in each direction east of the freeway; ramps closed. 5. EB I-196 exit to M-121, WB M-121 to WB I-196, M-121 to EB I-196, Ottawa County. 6. The off ramps from eastbound and westbound I-196 to Market Avenue in Grand Rapids (Exit #73) are closed. Market Avenue is flooded between I-196 and Freeman Avenue, Kent County. 7. Eastbound and westbound I-196 BL between Clyde Park and Godfrey, in the cities Wyoming and Grand Rapids, Kent County. 8. M-21 over the Maple River (east of Ionia, between Muir and Pewamo), Ionia County, is closing in the next few hours, due to water levels under the bridge. As of April 20, no changes in road closures were reported.

The MDLARA reported earlier today power outages at 80,000 for DTE with approximately 26,000 still out and expected to have restored by the end of today, Friday, April 19. Consumers Energy reported 7,000 statewide as of 1245. No other utility has reported outages. As of April 20, no changes in power outages were reported or restoration information received.

Ionia County and the City of Ionia noted the possibility that Ionia County may be divided in half due to bridge and road closures caused by the rising Grand River. Attempts were being made to relocate emergency response resources to ensure the ability to provide timely services to all county residents in need.

Evacuations have been reported in Gladwin County, City of Grand Rapids, Gratiot County, Ionia County, City of Ionia, Kent County, Midland County, Newaygo County, Osceola County, and Ottawa County. No firm figures are available at this time regarding numbers of evacuees.

Incident Response/Recovery Priorities/Objectives

Emergency Declarations

Local Declarations

Jurisdiction(s): Newaygo County on April 16, 2013; Midland County on April 17, 2013; Ottawa County on April 17, 2013; Osceola County on April 18, 2013; the City of Ionia on April 18, 2013 (received on April 19, 2013); Ionia County on April 19, 2013; Gratiot County on April 19, 2013; the City of Grand Rapids on April 20, 2013. Date/Time of 04/19/2013 at 16:22:00

County on April 19, 2013; the City of Grand Rapids on April 20, 2013. **Date/Time:** as of 04/19/2013 at 16:30:00
 Midland County also requested a Governor's emergency or disaster declaration under 1976 PA 390, and specifically requested the following state assistance: "Sandbags for protecting publicly owned facilities and National Guard vehicles capable of driving through standing water to rescue and evacuate residents." This request is currently being reviewed by the MSP/EMHSD.

State Declarations

Jurisdiction(s): **Date/Time:** 8/27/2012 3:16:08 PM

Federal Declarations

Jurisdiction: **Date/Time:** 1/1/1900 12:00:00 AM

Weather Conditions

Temperature (°F):

Wind Chill (°F):

Humidity (%):

Heat Index (°F):

Winds (measured at 10 meters):

Direction: Speed (MPH): Conditions:

Cloud Cover:

Cloud Height (feet):

Visibility (miles):

Total Rainfall (inches):

Snow Accumulation (inches):

Ice Accumulation (inches):

Watches/Warnings

River Flood Warnings and Advisories remain in place for many rivers around the lower peninsula. Many Rivers will be above flood stage through most of the next week.

Upcoming Forecast

Lower Peninsula - Next chance for rain late Monday night through Tuesday night. Some thunderstorms may be possible - but for the most part an inch or less of additional rainfall is currently anticipated from Monday night through Tuesday night.

Upper Peninsula - rainfall possible next week than would help to quickly melt the remaining snow pack. There is 6-8 inches of available water in that snow pack, so significant rainfall combined with rapid warming would lead to some flooding late next week into the early part of May.

Other

Expected Rainfall Image for the next 3 days (image will update each day)

http://www.hpc.ncep.noaa.gov/qpf/d13_fill.gif

Expected Rainfall Image for the next 7 days - (image will update each day)

<http://www.hpc.ncep.noaa.gov/qpf/p168i.gif>

Attachment(s):

General Information

River Conditions

Flood warnings have been issued for the following rivers: the Looking Glass River and the Maple River in Clinton County; the Thornapple River in Barry County and Kent County; the Rogue River in Kent County; the Chippewa River in Isabella County; the Pine River in Gratiot County; the Grand River across Ionia, Kent, and Ottawa Counties; the Red Cedar River in Ingham County; the Flat River in Ionia County; the Kalamazoo River in Allegan County; the Portage River in Kalamazoo County; the Pere Marquette River in Mason County; the White River in Muskegon County; the Muskegon River in Osceola and Newaygo Counties; and the Little Muskegon River in Mecosta County.

National Terrorism Advisory System (NTAS) Status

Critical Infrastructure/Key Resources Impacted

Outside Assistance Requested

Fatalities and Injuries

Reports This Period Cumulative Comments

Fatalities

Injuries

Evacuation and Sheltering

Reports This Period Cumulative Comments

Evacuation

Sheltering

Local Damage Summary

Public Damage Totals

Jurisdiction	Category A: Debris Removal \$	Category B: Emer Prot Measure \$	Category C: Roads / Bridges \$	Category D: Water Control \$	Category E: Public Bldgs \$	Category F: Public Utilities \$	Category G: Parks / Rec and Other \$	\$ Estimate for Damage (per jurisdiction; total = for all jurisdictions)
TOTALS PER CATEGORY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Private Damage Totals

Jurisdiction	Residences Destroyed	Residences - Major Damage	Residences - Minor Damage	Residences - Affected	Businesses - Destroyed	Businesses - Major Damage	Businesses - Minor Damage	Businesses - Affected	\$ Estimate for Damage (if available)
County of Benzie	0	0	1	0	0	0	0	0	\$10,000
County of Kent	0	0	0	230	0	0	0	0	\$0
TOTALS:	0	0	1	230	0	0	0	0	\$10,000

Summary

Agency Summaries

On April 19 a news release referencing the SEOC activation and flooding preparedness information was prepared. The news release, flooding photos and situation reports 1 and 2 were posted to the Internet. An on-camera interview was held with Capt. Kelenske and WILX. Three phone interviews were conducted with news media. Talking points were developed with key messages and flooding tips. On April 20, situation reports 3 and 4 were completed and will post to the Internet later in the day.

Agriculture and Rural Development (MDARD)

The MDARD has received some reports from county drain commissioners of intercounty drains experiencing breaches/failures and flooding farm fields. At this point, very few crops have been planted so crop loss is not a big concern (though it will be some time before fields are dry enough to plant which could impact crop production later.) We have guidance for food operations that have flooding / power loss / septic or sewage contamination, and that has been posted on the MI CIMS statewide report.

American Red Cross (ARC)

The American Red Cross has stood up a Disaster Relief Operation Headquarters in Grand Rapids, which will serve as the coordination point for Red Cross relief efforts. Currently there are 6 shelters open across the state. The location of these shelters can be found at redcross.org. Local Red Cross representatives have been asked to reach out to their local EMA to see how they can support local responses with sheltering and feeding. Red Cross volunteers are on standby, awaiting actual need to act.

Open shelters are located in Kent, Ionia, Newaygo, and Ottawa Counties. As of noon on April 20, both shelters in Midland County have now been closed. The released shelter staff and equipment are being moved to the West side of the state.

AuxComm

ARES/RACES standing by until needed.

Kent EOC manned, Kent ARC Headquarters manned, Midland standing by on local repeater.

Community Health (MDCH)

As of 0900, April 20, there have been no requests of MDCH. The Healthcare Coalitions and Local Health Departments stand ready to support any medical requests at the local level. MDCH will continue to monitor the situation and participate in the briefings.

Licensing and Regulatory Affairs (LARA)

MLARA reports DTE with 80,000 customers without power between Thursday, April 18 and Friday April 19. Restoration was expected in the day on Friday. Consumers reports approximately 7,000 without power within their customer region. No other utility has reported outages.

Bureau of Health Care Services has evacuated two nursing home facilities. Specific details are reported in agency documentation.

1. St. Francis of Saginaw - no reported flooding damage
2. Brookcrest of Kent (requested by Kent County EOC) - flooding damage has occurred

National Weather Service (NWS)

The NWS SEOC representative is coordinating with local forecast offices, local EMCs, and SEOC staff on river forecasts and hazardous weather threats. The NWS representative developed a Power Point presentation to provide a quick glance reference at river levels and impacts that occur with the forecast levels for use in SEOC briefings and incident response planning.

Natural Resources (MDNR)

As of Saturday, April 20, MDNR has water rescue resources available for the Lansing and Saginaw areas to respond to flood zone areas for evacuation or rescue operations. Boat teams are currently on the Muskegon River, providing assistance to local authorities.

State Police (MSP)

The Special Operations Division is assisting at the SEOC. The MIOC has been monitoring the flooding conditions and sent out a situational awareness bulletin on the pending weather and flooding on Friday. The MIOC advises that there were no significant events overnight to report due to the current flooding situation. MSP Aviation began its morning mission of flying over the flooded areas for a damage assessment specifically looking at the towns of Muir, Lyons, Ionia, and Saranac in Ionia County. In addition, MSP aviation will be assessing the downtown areas of Grand Rapids, and Wyoming. Aviation will also assess the other outlying counties of Newaygo and Ottawa.

Technology, Management and Budget (MDTMB)

DTMB is monitoring the situation throughout the state and managing the affects of the emergency on state operations. DTMB has processed three weather-related building closures on Friday, April 19. See SEOC Activity Reports for details.

Transportation (MDOT)

MDOT staff continue to monitor flooded roadways. No additional state trunk line closures have been reported since yesterday.

