



Damage Assessment and Emergency Status Report

Incident: 2013-04-Statewide-Flooding

Operational Period

Operational Period Begin: 04/21/2013 08:00:00
Operational Period End: 04/21/2013 13:00:00
Situation Report No. #5
SEOC Status: Full
Hours of Operation Begin: 04/21/2013 08:00:00
Hours of Operation End: 04/21/2013 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 became operational 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 will be operational from 0800 to 1300 (8:00 AM to 1:00 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 21.76 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 24.92 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 10.05 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 8.8 feet, and will crest at 11 feet early today, Saturday, April 20.

A FEMA Liaison Officer (LNO) is in contact with the state and will be deployed to the MI-SEOC on Monday, April 22, 2013.

Road closures due to flooding have been reported in several counties, and include some state-level and interstate highways (see list below from the Michigan Department of Transportation (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 (NWS) 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 21, 2013 National Weather Service (NWS) forecast for the Lower Peninsula predicts the next chance for rain late Monday night through Tuesday night. Some thunderstorms may be possible - but for the most part less than one inch of additional rainfall is currently anticipated from Monday night through Tuesday night. At this time, significant rises on rivers are NOT EXPECTED from this additional rainfall. This additional rainfall is likely to slow down the receding of water levels.

The April 21, 2013 National Weather Service (NWS) forecast for the Upper Peninsula predicts rain tonight and Monday. A total of 1 to 3 inches of rainfall is possible over the next 7 days 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 could 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 - USACE.

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, Wyoming and other outlying counties of Newaygo and Ottawa.

On Sunday, April 21, 2013, the SEOC received a request for Aviation support from the Kent County Emergency Manager (EM). The request is deemed necessary to coincide with the anticipated cresting of the Grand River in the City of Grand Rapids. The Mayor of Grand Rapids will serve as a spotter on the detail and a Kent County forensic photographer will be photographing the scene. The Michigan Intelligence Operations Center (MIOC) reports that there was no significant activity overnight due to the flooding.

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 21, no changes in road closures were reported MDOT staff are actively monitoring current road closures.

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.

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; Kent County as of 4/19/2013; City of Grand Rapids as of 4/20/2013 at 13:00:00. **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:** 12/31/1899 19:00:00

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 less than one inch of additional rainfall is currently anticipated from Monday night through Tuesday night. At this time, significant rises on rivers are NOT EXPECTED from this additional rainfall. This additional rainfall is likely to slow down the receding of water levels some.

Upper Peninsula - rainfall possible this 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.

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 Ionia	0	0	75	50	0	0	0	0	\$0
County of Kent	0	0	0	230	0	0	0	0	\$0
County of Mecosta	0	0	0	31	0	0	0	0	\$110,000
County of Newaygo	69	16	10	20	0	0	0	0	\$6,440,200
TOTALS:	69	16	86	331	0	0	0	0	\$6,560,200

Summary

Agency Summaries

Joint Information Center / Public Information Officer

04/20/13 two additional situation reports were posted to Internet. City of GR declares state of emergency. Notified Shanon Banner. Completed notes from 11 a.m. briefing.

04/19/13: 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. 3 phone interviews were conducted with news media. Talking points were developed with key messages and flooding tips

Agriculture and Rural Development (MDARD)

Sat 12:10pm. MDARD has gotten anecdotal reports from agri-businesses that transportation (road and rail) closure issues are impacting deliveries of products. We have not gotten reports of flooding impacting livestock operations, including manure lagoons. 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.

Friday 2:20pm. 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 notified staff to relay any news or impacts.

American Red Cross (ARC)

(April 19, 2013) Two Red Cross operated shelters are open in Midland County. One in the City of Midland, the other in Sanford. As of 8am Friday, 4-19-13, no residents had yet been checked into either shelter. Red Cross volunteers are on standby, awaiting actual need to act.

(April 19, 2013) The American Red Cross has stood up a Disaster Relief Operations Headquarters in Grand Rapids, which will serve as the coordination point for Red Cross relief efforts. Currently there are 8 shelters open across the state, locations of shelters can be located 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.

(April 20, 2013) As of 10am, The American Red Cross has 8 shelters open. Open shelters are located in Kent, Ionia, Midland, Newaygo, and Ottawa Counties. Only one had over night residents last night, and the population, as of this morning, is now down to 3 people. We currently anticipate that the 2 shelters in Midland County and the shelter in Ionia County will be closing today.

(April 20, 2013) As of Noon today, we have confirmation that 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.

(April 21, 2013) Saturday evening, The American Red Cross opened a shelter in Saginaw. This morning we closed the shelter in Fremont (Newaygo Co.) and that facility is being transitioned to a bulk distribution site. At present, 6 shelters remain open. Shelter population is very low, but we do anticipate most of these shelters will be kept open until, at least, Monday morning before we can determine that the need has passed.

The American Red Cross has begun transitioning from sheltering operations to Feeding, Bulk Distribution, and Disaster Assessment. We are partnering with Southern Baptists and Salvation Army to establish the feeding operation. Feeding will begin at the shelters, and move to mobile feeding as effected neighborhoods become accessible. Bulk Distribution and Disaster Assessment activity will also be dependant on access to flooded areas. Road and bridge closures still present issues in some counties.

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, 4/21/2013 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)

LARA reports DTE with 80,000 customers without power between Thursday, April 18 and Friday April 19. Restoration is expected by late today. 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)

- SEOC Significant Events board - posted powerpoint file with river gage and impact information. Also posted 24/7 numbers for NWS Offices statewide.
- NWS to dial into SEOC Calls to brief 4/21 and after unless needed at SEOC.

Natural Resources (MDNR)

Boats are currently on the Muskegeon river, providing assistance to local authorities. MDNR has water rescue resources available for the Lansing and Saginaw areas to respond to flood zone areas for evacuation and rescue operations.

SEOC will be manned 0800-1300 hrs Sunday.

State Police (MSP)

The SEOC received a request for Aviation from the Kent County EM. The request is deemed necessary to coincide with the anticipated cresting of the Grand River in Grand Rapids. The Mayor of Grand Rapids will serve as a spotter on the detail and a Kent County forensic photographer will be photographing the scene. The MIOC reports that there was no significant activity overnight due to the flooding.

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 4/19. See SEOC Activity Reports for details.

Transportation (MDOT)

We have closed Fulton Street over the Grand River due to the relationship between the current water level, drift around the structure and Consumers' 46k line hanging on the underside of our structure. Consumers is in the process of redistributing the electrical service of the structure. We were in the process of conducting drift removal operations but obviously the greater concern is the electrical utility situation. MDOT staff is continuing to monitor flooded roadways.