

DAMAGE ASSESSMENT AND EMERGENCY STATUS REPORT # 12

Thursday, June 19, 2008

(Note: This report contains the latest incident information as reported in the statewide "E Team" incident management system for the June 6-8, 2008 severe storms in central and southern Lower Michigan and the June 12-13, 2008 severe storms in central and northern Lower Michigan. Refer to Damage Assessment and Emergency Status Reports #1-11 for synopses of incident-related information for the period from June 6-18, 2008.)

SITUATION OVERVIEW: A series of damaging thunderstorms occurred in waves across central and southern Lower Michigan beginning on Friday, June 6 and continuing through the weekend on June 7 and 8, 2008. These storms caused widespread wind and flooding damage. On June 12 and 13, a line of severe storms came across Lake Michigan and caused wind and flooding damage in numerous central and northern Lower Michigan counties. To date, the county and municipal emergency management programs that have reported damage and/or impacts via the statewide "E Team" information system for one or both storm systems include:

- Allegan County
- Arenac County
- Barry County
- Clare County
- Clinton County
- Delta Township (Eaton County)
- City of Detroit
- Eaton County
- Genesee County
- Gladwin County
- Lake County
- City of Lansing
- Livingston County
- Manistee County
- Mason County
- Missaukee County
- Monroe County
- Oakland County
- Ogemaw County
- Osceola County
- Ottawa County
- Saginaw County
- Washtenaw County
- Wayne County
- Wexford County

DAMAGE / IMPACT SUMMARIES FOR REPORTING JURISDICTIONS*:

***Note: these summaries have been copied from the actual E Team Incident or Jurisdiction Situation Reports filed by the respective jurisdictions. Some editing may have occurred to clarify the information or remove extraneous information.**

Allegan County:

The county extended its Local State of Emergency through July 10, to facilitate emergency response and damage assessment activities there. Their drain commissioner has made contact with the Michigan Department of Agriculture, to assess county drains. Temporary repairs have allowed some sections of closed roads to be opened, with plans to proceed with additional repairs. An updated damage assessment form was submitted, supplemented by a detailed map.

Arenac County:

Nothing new to report.

Barry County:

Center Road remains closed due to having been washed out. Repairs should start soon. The Thornapple River is well below flood stage now, and almost all of the downed trees have been removed from bothersome locations.

Clare County:

Nothing new to report.

Clinton County:

Nothing new to report.

Delta Township (Eaton County):

Nothing new to report.

City of Detroit:

Nothing new to report.

Eaton County:

Various figures and information were updated and conveyed to the SEOC.

Genesee County:

Nothing new to report.

Gladwin County:

Nothing new to report.

Lake County:

Updated damage assessment information was relayed to the SEOC.

City of Lansing:

The City has completed all work assignment with crews from the Michigan Department of Military and Veterans Affairs (MDMVA) on debris removal efforts. Crews from the Michigan Department of Corrections (MDOC) began working with city and MDMVA crews on Wednesday, June 18. The City has compiled and submitted revised public damage numbers to the SEOC. Their Local State of Emergency was extended by the City Council through June 23. A resource request was submitted to the State for the week of June 23-27, regarding the Department of Corrections Forestry Task force crews, with three crews requested for the entire week. Details of crew specifications, requirements and logistical concerns were annotated in the resource request.

Livingston County:

Nothing new to report.

Manistee County:

Manistee County has submitted damage assessment information to the SEOC along with its declaration of a Local State of Emergency, and its request for a Governor's Declaration.

Mason County:

Ludington has gathered an estimate on dredging just the bayou affected by the bridge collapse there. Estimated costs for the bayou are between \$500,000 and \$1,000,000. The company that gave the quote would need access to the bayou, once the water is cleared, to do some engineering work and develop a more precise quote. No word has yet been received from the Army Corps of Engineers on whether or not the harbor will also need dredging. Some agencies were reported to still be checking on the welfare of isolated residents in the County.

Missaukee County:

The County has formally requested a Governor's Declaration.

Monroe County:

Nothing new to report.

Oakland County:

Nothing new to report.

Ogemaw County:

Nothing new to report.

Osceola County:

The County's Local State of Emergency was extended on the morning of Thursday, June 19. The County was experiencing difficulties in estimating costs in the state forest and for private homes.

Ottawa County:

Updated situation information has been provided to the SEOC.

Saginaw County:

City Street crews and MDNR crews are working to clear debris from City of Saginaw Streets. Power has been restored to all customers.

Washtenaw County:

Nothing new to report.

Wayne County:

Nothing new to report.

Wexford County:

Wexford County Damage Assessment teams met with Lt. Hosh at 5:00pm, June 18. They will return to field to continue to collect information for Damage Assessment. The County Road Commission is completing its information collection.

ADDITIONAL INFORMATION:

Power Outages: Power outage issues have been substantially addressed by Detroit Edison, Consumers Energy, and the Lansing Board of Water and Light.

State Response Actions: The MSP/EMHSD has been monitoring the storm situation since the first storms occurred on June 6 and began compiling damage / impact assessment information during the weekend of June 7-8. The incident monitoring and damage / impact assessment collection and compilation effort continued into the week of June 9. The State Emergency Operations Center (SEOC) was partially activated on June 13 and has remained open since that time to monitor and address recovery issues related to the June 6-8 and June 12-13 storm systems. Agencies that have been present in the SEOC (at various times) include: Agriculture; Community Health; Environmental Quality; Military and Veterans Affairs; Natural Resources; State Police; Transportation; and the MSP/EMHSD. A FEMA Region V liaison is also present in the SEOC. From the SEOC, state officials will continue to monitor the situation and offer whatever assistance they can to meet situational needs. The MSP/EMHSD continues to monitor the situation, coordinate recovery and public information activities, and work closely with the Governor's Office and involved state agencies to provide direct assistance to local jurisdictions to address the most serious public safety and health concerns.

Local "State of Emergency" Declared under 1976 PA 390, as amended:

- Eaton County on June 8, 2008.
- City of Lansing on June 8, 2008.
- Ottawa County on June 9, 2008.
- Delta Township (in Eaton County) on June 9, 2008.

- Allegan County on June 10, submitted on June 11, 2008.
- Saginaw County on June 11, 2008.
- Osceola County on June 11, 2008.
- Barry County on June 12, 2008.
- Lake County on June 13, 2008.
- Mason County on June 13, 2008.
- Wexford County on June 17, 2008.
- Manistee County on June 19, 2008.
- Missaukee County on June 19, 2008.

Requests by Local Jurisdiction for a Governor’s Emergency / Disaster Declaration under 1976 PA 390, as amended:

- Delta Township on June 9, 2008. (No specific request for state resources.)
- City of Lansing on June 10, 2008. (Request for resources included: 1) 15 forestry task force crews with minimum of five personnel each trained in tree removal with necessary equipment; 2) 10 two-person damage assessment field teams; 3) four utility line crews for utility restoration purposes; 4) three dump trucks with personnel; and 5) one end loader with grab bucket, with personnel.)
- Saginaw County on June 11, 2008. (Request for assistance with debris removal and any financial assistance that may be available.)
- Osceola County on June 11, 2008. (Request for assistance with extensive debris removal and with emergency protective measures.)
- Allegan County on June 11, 2008. (Request for: 1) assistance to supplement local response and recovery efforts in rebuilding a roadway which is the primary access for 14 residences; 2) fix and repair culverts and public drains that have been destroyed; and 3) support citizens with flooded homes.)
- Eaton County on June 12, 2008. (Request funding for debris removal; funding or assistance for road repair; and funding for responder overtime costs.)
- Ottawa County on June 13, 2008. (Request for resource and relief assistance necessary to respond to the situation.)
- Lake County on June 16, 2008. (Request funding for the rebuilding of the Lake County road system; public assistance for property owners that were affected.)
- Wexford County on June 17, 2008. (Request assistance with road repairs in any manner available, construction supplies, technical assistance, and any other help available.)
- Manistee County on June 19, 2008. (Request assistance with debris blocking emergency vehicle access, and for a collapsed road area.)
- Missaukee County on June 19, 2008. (Request assistance with repairing culvert damage, accessing additional culverts, and with road gravel.)

As indicated in the following section, several of these requests have been addressed. The remaining requests are being evaluated to determine the feasibility of using state agency assets to address the specific public safety and health risks described in the request.

Governor’s Declarations under 1976 PA 390, as amended:

On June 13, Governor Granholm signed five separate “state of emergency” proclamations to mobilize direct state resources to assist the following affected local jurisdictions with their most serious health and safety concerns:

- Mason County to provide resources to address the numerous road washouts that occurred in the county due to the June 12-13 storms.
- Allegan County to provide resources to address road washouts that occurred in the county due to the June 6-8 storms.
- Eaton County to provide resources to address road washouts that occurred in the county due to the June 6-8 storms.
- The City of Lansing in Ingham County to provide resources to address lingering, serious public health and safety concerns related to the large volume of vegetative debris remaining within public roadway rights-of-way and on sidewalks and in public alleyways.

- The City of Saginaw in Saginaw County to provide resources to address lingering, serious public health and safety concerns related to the large volume of vegetative debris remaining within public roadway rights-of-way and on sidewalks and in public alleyways.
- Lake County to provide resources to address road and culvert damage that impedes emergency service access and poses a significant threat to public health and safety.
- Osceola County to provide resources to address road, culvert, and bridge damages that impede emergency service access and pose significant threats to public health and safety.
- Ottawa County to provide resources to address the presence of storm debris within public drains.
- Wexford County to provide resources to address road, culvert, and public drain damages that impede emergency service access and pose significant threats to public health and safety.
- Manistee County to provide resources to address damage to roads and culverts, and storm debris that poses a significant threat to public health and safety.

Organizational Meeting for Implementation of Mission Assignments: On Monday, June 16, at 9:00 AM, a briefing and organizational meeting was held in the SEOC with the involved state agencies, to provide the latest incident information and to further define specific mission assignments for work in the five declared areas. Each agency has been providing daily updates on its mission-related activities as well as the agency assets that are available for its assigned missions. As of 4:00 PM on June 19, the state agency briefing held in the SEOC provided the following brief synopses of the agency discussions and reports about progress made during the day:

- **Michigan Dept. of Agriculture:** The MDA Director is planning to visit Allegan and Ottawa counties on the afternoon of Monday, June 23rd, to observe crop damages and to meet with farmers. MSU Extension is helping to put together the event. MDA will also contact the county EM coordinators with information and will coordinate with legislative offices as well.
- **Michigan Dept. of Corrections:** The MDOC work crews have been providing debris removal assistance in the City of Lansing through Friday, June 20. The City has assembled a request for additional assistance during the following week, to clear debris in the city. MDOC will meet with the EMHSD district coordinator on Friday, June 20, 2008 at 10am, to assist with damage assessment and clean-up for the Lansing Parks and Recreation Department. Corrections work crews will be working as scheduled. Work crews are standing by for Manistee County, if needed.
- **Michigan Dept. of Environmental Quality:** Nothing new to report.
- **Michigan Dept. of Military and Veterans Affairs:** The MDMVA completed its missions involving debris removal work crews and equipment in the City of Lansing and city crews are assessing the relevance of other missions in terms of public safety and health issues. The MDMVA crews were originally scheduled to work in the city through Friday, June 20.
- **Michigan Dept. of Natural Resources:** The MDNR will be meeting with the EMHSD district coordinator on Friday, June 20 to determine response needs in the City of Saginaw.
- **Michigan Dept. of State Police:** The MSP currently has no missions assigned at this time.
- **Michigan Dept. of Transportation:** The MDOT continues to assist in Mason County with repairs to road washouts and road / bridge / culvert damage assessments. MDOT repair work in Eaton County has been completed. In the City of Saginaw, the MDOT continues to provide debris removal assistance on the state trunk lines located within the city limits. In Mason County, the US-31 rebuilding project has been completed and the roadway has been reopened to traffic.
- **MSP/EMHSD:** The MSP/EMHSD has provided involved state agencies with a cost tracking spreadsheet and continues to compile the cost data provided by the agencies. The MSP/EMHSD continues to provide field guidance to the MDMVA and MDOC work crews regarding what constitutes the most serious debris-related public safety and health risks in the city. On June 19, the MSP/EMHSD made specific recommendations to the Governor's Office regarding five Declaration requests, resulting in the Governor's declaration of a State of Emergency for the Counties of Lake, Manistee, Osceola, Ottawa, and Wexford. The MSP/EMHSD also continues to address a number of media inquiries regarding the status of the storm recovery efforts.

- **FEMA / U.S. Army Corp of Engineers:** Nothing new to report.

The assistance activities listed above will be carried out during the week of June 16-20 (and beyond if necessary).

Storm Related Fatalities

There have been six confirmed fatalities resulting from the severe weather on June 6-8, 2008. Three fatalities in Ottawa County, two fatalities in Allegan County, and one fatality in Delta Township (Eaton County). There are two fatalities confirmed in Argentine Township (Genesee County) on June 9 as a result of carbon monoxide poisoning from a generator located in the home used during an electricity outage.

Regarding the later set of the weather events, one fatality resulted from a vehicle submerged in the Thornapple River in Kent County on June 13. Reports indicate that the car went into the river and traveled about 200 yards downstream from where it left the road. There is a strong current in the river due to increased water levels from recent rain.

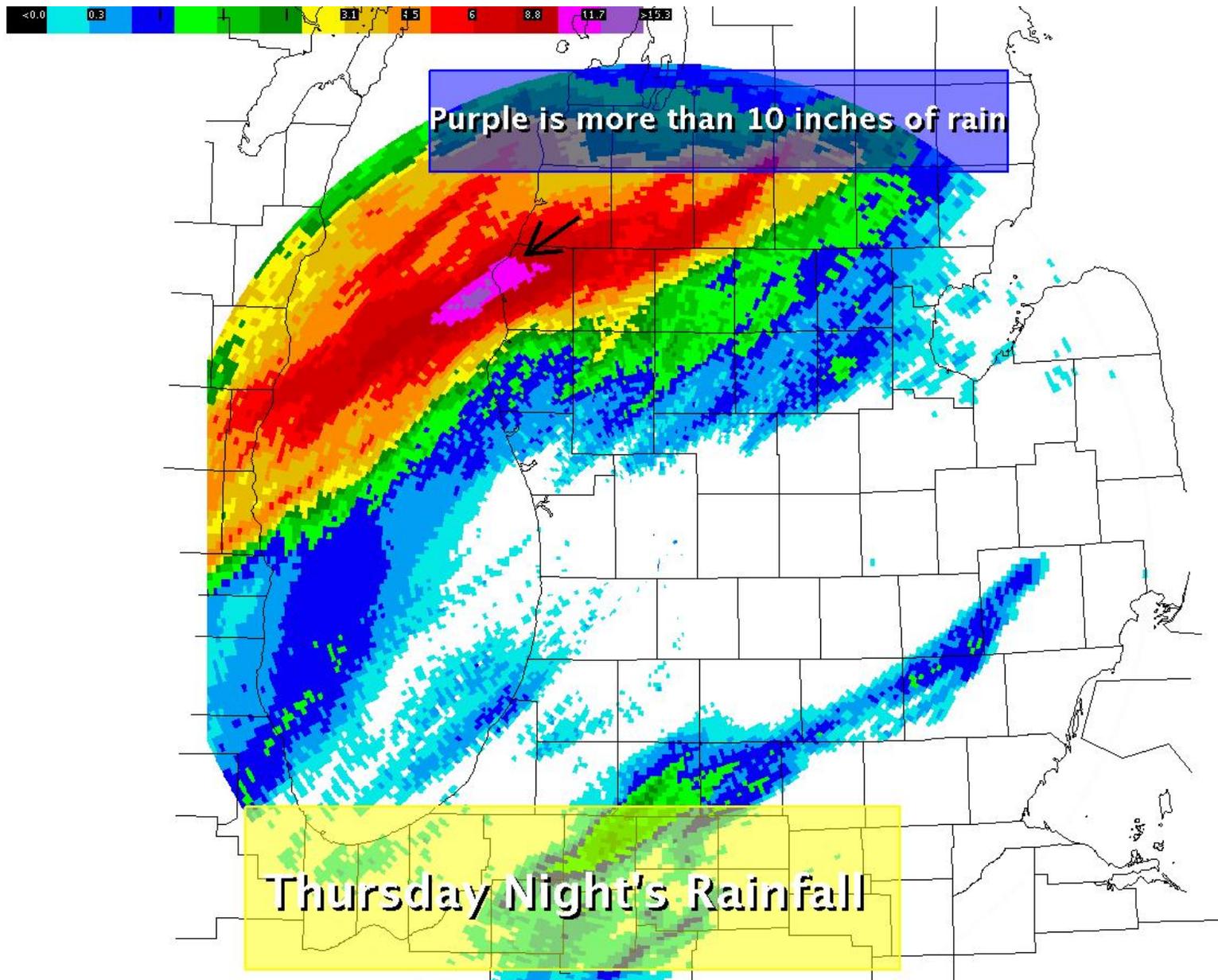
Public Damage Summary Table (from filed E Team reports only): Blank spaces indicate either no damage or damage not yet reported.

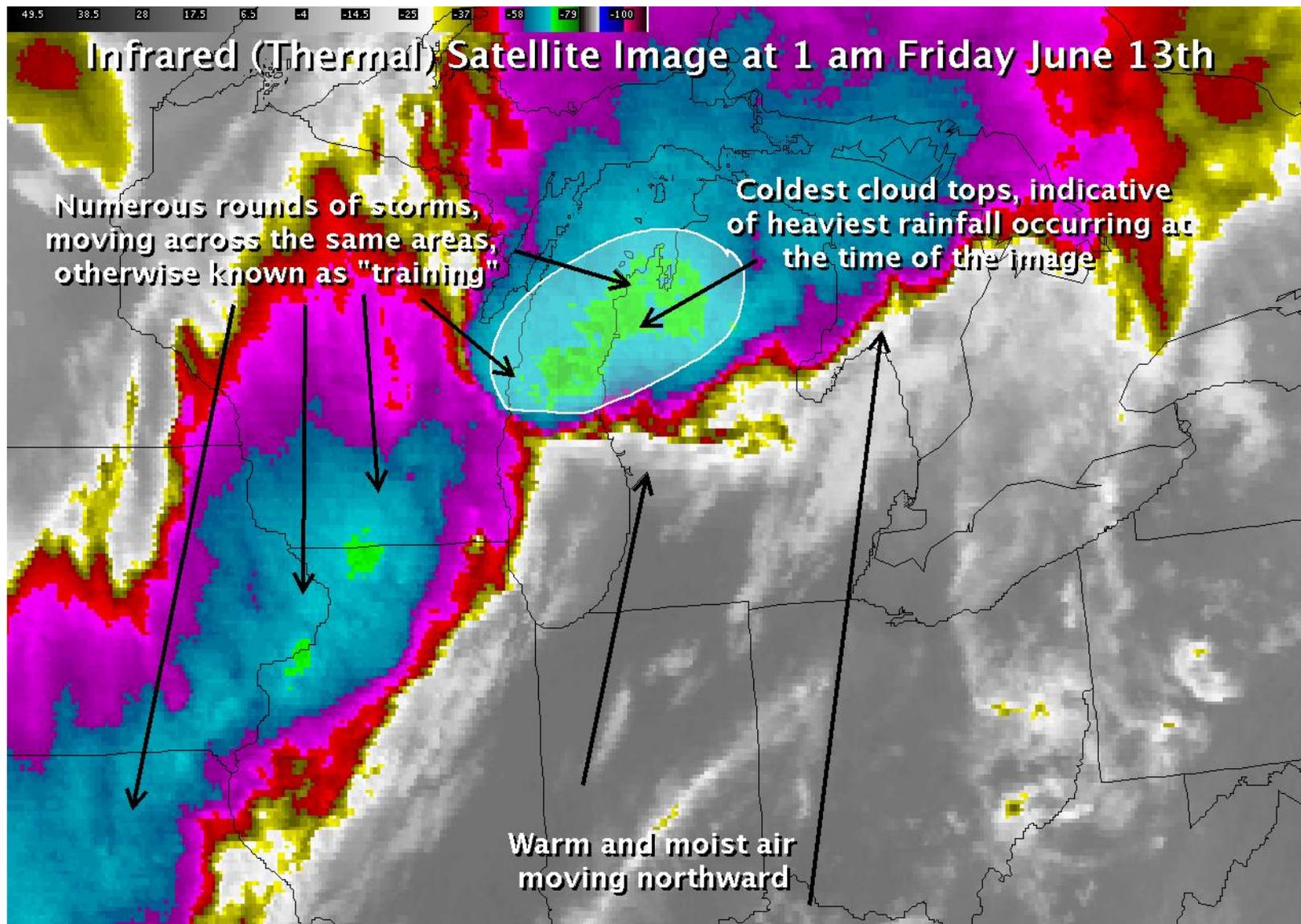
Jurisdiction	Category A: Debris Removal \$	Category B: Emer Prot Measure \$	Category C: Roads / Bridges \$	Category D: Water Control \$	Category E: Public Bldgs \$	Category F: Public Utilities \$	Category G: Parks / Rec and Other \$	\$ Estimate for Damage (per jurisdiction; total = for all jurisdictions)
Allegan County	10,000		740,000	74,600				824,600
Arenac County								
Barry County	250,000		300,000				10,000	560,000
Clare County								
Clinton County	50,000							50,000
Delta Township	70,500	9,000	7,000					86,500
City of Detroit								
Eaton County	200,000	70,000	300,000				9,195	579,195
Genesee County								
Gladwin County								
Lake County			210,523					210,523
City of Lansing	1,500,000	100,000			50,000	3,000,000	500,000	5,150,000
Livingston County								
Manistee County	180,000	50,000	2,065,000			60,000	20,000	2,375,000
Mason County	15,000	204,700	3,230,000	1,146,050		204,500		4,800,250
Missaukee County			117,000					117,000
Monroe County								
Oakland County								
Ogemaw County								
Osceola County	301,682	18,863	362,048					682,593
Ottawa County		1,000	691,665	450,000	42,448	332,100		1,517,213
Saginaw County	409,694	25,286						434,980
Washtenaw County								
Wayne County								
Wexford County			750,000					750,000
TOTALS PER CATEGORY:	2,986,876	478,849	8,773,236	1,670,650	92,448	3,596,600	539,195	18,137,854

Private Damage Summary Table (from filed E Team reports only): Blank spaces indicate either no damage or damage not yet reported.

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)
Allegan County		2	19	55					(5% insured)
Arenac County									
Barry County		1	19	22					\$250,000 (70% insured)
Clare County			7						\$10,000 (100% insured)
Clinton County	1	2	15	5			1	5	\$510,000 (100% insured)
Delta Township		1	125	300		1	5	25	\$1,300,000 (insured: 95% residential, 100% business)
City of Detroit									
Eaton County			40	10			1		\$462,000 (100% insured)
Genesee County		1		2					(100% insured)
Gladwin County									
Lake County	4	4	8						\$453,095
City of Lansing		9	51	285		1	1	20	\$550,000 (70% insured – residences; 100% insured – businesses)
Livingston County									
Manistee County			45	10,000		2	1	3	\$1,185,000 (insured: 95% residential, 100% business)
Mason County		17	72	263				10	\$1,932,000 (10% insured)
Missaukee County									
Monroe County									
Oakland County									
Ogemaw County			1	1					(100% insured)
Osceola County			15	130			3		
Ottawa County		2	39	246			8	3	\$2,281,000 (5% insured)
Saginaw County		8	5	16		1	1	2	(60% insured – residences; \$200,000 for businesses – 80% insured)
Washtenaw County									
Wayne County									
Wexford County		1	24	141					
TOTALS:	1	42	385	1093		3	20	65	\$6,285,000

National Weather Service Rainfall Map for June 12-13 Storm





Enlarged National Weather Service Rainfall Map for June 12-13 Storm

