

DAMAGE ASSESSMENT AND EMERGENCY STATUS REPORT # 5

Friday, June 13, 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 #1-4 for synopses of incident-related information for the period June 6-11, 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/or 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:

Damage assessment for both private and public damages has been completed and submitted. Over 100 sandbags have been issued to local residents to prevent water from flowing into their homes. An advisory has been issued by the Allegan County Health Department for high levels of e-coli on surface water as well into streams, rivers and along the Lake Michigan shoreline. Visitors and residents are being asked not to come into contact with the water. Allegan County farmers have severe damages to crops. Crop damage estimates will be compiled by the Michigan State University Extension Office. The Road Commission has closed

many of the damaged roads. They are working hard to create one lane over Lakeshore Drive so the displaced residents can return. This will be a temporary fix until funds can be found for repair. The Drain Commission is working to clear debris from public drains. Many public drains have been severely impacted by the damaged roads and culverts. Townships and cities impacted by this storm include: Laketown, Fillmore, Casco, Clyde, Lee, Overisel, Manlius, Valley, Saugatuck, Ganges, Allegan, Salem, Door, Leighton, Wayland, Hopkins, GunPlains and Watson Townships, as well as the City Of Holland south of 32nd Street.

Arenac County:

Nothing new to report.

Barry County:

Thornapple River has crested at 8.3` (flood stage is 7`). Roadway repairs and area cleanup continues. All services to Central Dispatch have been restored. It appears Barry County will have some crop losses due to localized flooding.

Clare County:

Nothing new to report.

Clinton County:

National Weather Service stated damage was due to straight line winds and not a tornado. Situation is stabilized.

Delta Township (Eaton County):

Damage assessment estimates are complete.

City of Detroit:

Nothing new to report.

Eaton County:

Updated road closures entered in the E Team system. Many roads that have been reopened may flood again depending on weekend (June 14-15) storms. The ground is still saturated in these areas. Also, some roads listed as open are very narrow and the shoulders may still have washed out areas.

Genesee County:

National Weather Service stated damage was due to straight line winds and not a tornado. Situation is stabilized.

Gladwin County:

Nothing new to report.

Lake County:

Following heavy rains on June 12-13, several roads are impassable – one due to a sink hole, another due to a large mud slide, and others have standing water and smaller washouts. The assessment process is currently in progress. The sink hole is on West 11 Mile Road and the USFS road 5520. The mud slide is located at North State Road and the Pine River Section 24 N, Newkirk Township. With the large amount of rainfall in the headwaters of the Little Manistee, Baldwin and Pere Marquette Rivers, downstream flooding is expected as the water drains out of the drainage basin. The National Weather Service reports radar estimates on rainfall for Lake County: southern end 2 inches; middle of the county (Wolf Lake) 4.5 inches. US 10 West of Baldwin was blocked with a downed power line but is now open. East of North Raymond is flooded for 90-100 feet. There are numerous reports of down trees and limbs. Damage assessment teams at Luther Dam report that the water level has gone down 2 inches; however, below the dam there is more water than the tubes can flow and the water level is above the tubes. At noon on June 13, the Lake County Road Commission closed 10 Mile Road east of State Road and James Road and 6 Mile Road.

City of Lansing:

Debris removal operations continue through the O&M Division and Forestry, along with volunteer agencies assisting with debris removal. As of June 12 PM, crews had already amassed a 10,000 square yard pile of chips. Crews have identified that they will be continuing operations through the weekend. The river assessment that was completed revealed nothing significant or immediately threatening to the dam. The Board of Water and

Light (BWL) is reporting that there still remains 360 customers without power and it is anticipated that power restoration will be completed in the next 48 hours. There still remain 144 customers that are in the reconnect queue, and an additional 58 residents that need to complete electrical contract work on their home prior to the BWL being able to complete their work. A total of 233 wires that have been identified and need to be reconnected. All wires that are known to be down have been identified and addressed for service. 22 poles remain destroyed and in need of replacement. 177 tree work jobs that remain in the system awaiting attention / service. There remains a potential for severe weather on June 13 via the National Weather Service (NWS) – a 70% chance of precipitation with hail. Crews were briefed with an extensive safety message concerning severe weather, overhead hazards from hanging limbs in the trees, electrical hazards, and public service crews have been assigned EMS trained personnel for medical first response actions. Damage assessment is 80% complete on the structures in the city. Tree hazards surveys / damage assessment is very preliminary and only about 10-15% complete. The vastness of the damage and the amount of trees involved has made this an overwhelming task. Teams will be using the form provided by the State (MSP/EMHSD).

Livingston County:

Livingston County reports minor damage from the severe weather on June 12-13 but has no request for state resources at this time.

Manistee County:

On June 12 high winds caused power to be down through most of the southern part of the county with many trees and power lines down. Some residents are stranded due to flooding with many roads closed. Fire departments are assisting people out of flood zones. The Salvation Army has set up in downtown Manistee to assist with food and shelter. US-31 is closed south of town into Mason County. Water levels are high at Tippy Dam but under control. The Region 7 Medical Coordination Center is standing by for resource requests for Manistee, Wexford, Missaukee Counties (Region 7), and Mason and other Counties in Region 6, if coordination of medical assets needed.

Mason County:

Mason County experienced a severe thunderstorm on June 12-13 which dumped an average of 10 inches of rain causing numerous road closures, road washouts, and damage to county drains, culverts, ditches. The City of Ludington sewer main at 801 S. Madison Street in Ludington was damaged and is spilling into Pere Marquette Lake. The Public Health Department has shut down both Buttersville Beach and Sterns Beach. Initial reports also indicate a portion of the railroad line have been destroyed in between Fountain and Freesoil. A total of 1,200 residences are without power across the county. There are over 50 road closures and US-31 is being rerouted north of US-10. In addition, the Hamlin Lake Dam river gauge (which is normally at 7.4 feet) is currently at 9.5 feet. The dam appears to be holding and stable at this time; however as a precautionary measure the Ludington State Park has been evacuated. Damage Assessment teams are out at this time doing preliminary damage assessment. In addition, Michigan State Police and U.S. Coast Guard helicopters completed aerial damage assessment surveys on June 13. Damage Assessment teams report the Partridge Point areas west are inaccessible. The following roads have been closed or compromised:

- M-116 South of the Ludington State Park.
- North Stiles Road at West Fountain Road.
- North US-31 between Hoague Road and Free Soil Road has been closed.
- North US-31 in the Free Soil and Fountain area has numerous sections underwater.
- West US-10 near Jackson Road four of the five lanes are underwater.
- North Stiles Road between Sugargrove Road and Groth Road.
- Victory Corners Road south of Fountain Road has been closed.
- West Town Line Road between North Quarterline Road and North Alexander Road North.
- Quarterline Road between Townline Road and Freeman Road.
- Dennis Road South of Beyer Road.

Mason County has activated its EOC. EMS personnel are assessing the closed / washed out roads so they can map emergency routes for ambulance service if needed. Within the City of Ludington, Madison Street has a complete wash out breaking a sewer main. The Michigan Department of Environmental Quality (MDEQ), U.S. Coast Guard and County Health Department have all been notified. The water supply for the city is okay except for Whitehall Industries, where steps have been taken for providing fresh water to employees. Ludington State

Park is being evacuated of campers due to the threat at the Hamlin Lake Dam. A declaration of a local state of emergency has been signed by the Mason County Board Chairman. There are numerous reports of power outages and phone outages throughout the county. Electrical power to parts of the City of Ludington will be cut on the morning of June 13 to allow for repairs on the sewer line on Madison Avenue north of Water Street. The Red Cross has opened a shelter at the O.J. DeJonge Junior High School. The City of Ludington has closed the Copeyn Park boat ramp. Sewer repairs on the Madison Street sewer main break will begin on June 14. The Road Commission has used all barricades and received more from two other counties and ordered more from a supplier. Several fire departments have units out assisting with traffic control at detours. A staging area has been established at Scottville Fire Station.

The MSP Manistee Post reported a lightning strike causing the Post to operate under generator power.

The Region 7 Medical Coordination Center is standing by for resource requests for Manistee, Wexford, Missaukee Counties (Region 7), and Mason and other Counties in Region 6, if coordination of medical assets needed.

Missaukee County:

Severe storms occurred in the county on June 12-13. The storms produced strong winds, hail, and torrential rains (approximately 4-6 inches of rain overnight). The county is currently under flash flood warning. Reports from the County Road Commission indicate that many roads in the county are damaged or washed out. Crews are unable to determine full extent of damage at this time due to standing water on roadways. When the water recedes it is anticipated that many roads will have been undermined and will need to be rebuilt. The Road Commission also expects to find damaged culverts and damage to bridge headwalls as water recedes and everything settles. The county Emergency Manager conducted a damage assessment tour of approximately 70 miles of roads and found 10 areas of water over the road with the road closed / washed out. Currently 3 roads are closed due to washout (approximately 10-15 miles of washout at this time). The Region 7 Medical Coordination Center is standing by for resource requests for Manistee, Wexford, Missaukee Counties (Region 7), and Mason and other Counties in Region 6, if coordination of medical assets needed.

Monroe County:

Nothing new to report.

Oakland County:

Oakland County reports minor damage from the severe weather on June 12-13 but has no request for state resources at this time.

Ogemaw County:

There was a confirmed tornado in the rural area of State Highway M-33 and Sage Lake Road just south of the City of Rose City. There was moderate damage to one residence and 12 farm outbuildings. Numerous tree and power lines are also down.

Osceola County:

On June 12-13, another round of storms came through the area causing severe flooding in Mason, Lake, and northwest portions of Osceola County (Tustin area). Tustin Fire Department reports several road washouts and trees down. The Osceola Emergency Management Office also responded to a request from Mason County for EMST assistance in damage assessment.

Osceola County declared a state of emergency for the June 6-8 storm event based on the following: 1) Aerial damage assessment indicated that the storm was significantly larger in scope that what can be visibly seen and accessed. Thus, Osceola County may have not yet felt the full effects or the true scope of the ongoing response and recovery to the event. 2) Extensive damage to downed trees in the Pere Marquette State forest and on private homes indicate a need for state assistance in emergency tree removal to facilitate a rapid recovery and restoration to the area which is vital to Osceola County's socio-economic status. 3) The emergency response to the incident has strained emergency services resources for ongoing recovery efforts; thus, the request for state support in further response and recovery aspects may be necessary from state programs. Osceola County declared a local state of emergency and requested a Governor's declaration on June 11.

Osceola County is specifically requesting the following assistance from the state: 1) Technical assistance, guidance, and/or resources in cleaning up the extraordinary amount of trees down in the Pere Marquette State forest. The damage is excessive and has rendered the forest unsafe due to downed trees. Furthermore, concern over future damage by dying trees and future fire potential has become a major concern. As of yesterday, State DNR was unable to be reached for guidance. 2) Need financial assistance or physical resources to address the extraordinary amount of downed trees that are not covered by home owners insurance. Insurance companies are reporting that less than 5% of claims will be covered due to the fact they did not damage homes. Average cost of tree removal is \$500 - \$1000 with estimated over 100 - 200 private property trees down (is a conservative estimate). 3) Financial Assistance with emergency protective measures is the third priority; emergency services are reporting that the initial response costs have limited them from responding further to the recovery phase (i.e. shutting down other routes, specifically to the state forest).

Ottawa County:

Nothing new to report.

Saginaw County:

The County requested a Governor's emergency or disaster declaration on June 11.

Washtenaw County:

Nothing new to report.

Wayne County:

Nothing new to report.

Wexford County:

Wexford County received heavy rains causing flooding of roads and some homes throughout the county. A tornado was sighted but unconfirmed. There are an unknown number of homes and businesses without power. Damage assessments are ongoing. The Wexford County Road Commission reports that five roads are closed due to water over the roadway. Approximately 20 to 30 washouts have been reported at culverts in the county. The City of Cadillac is reporting houses with water in basements on Sunnyside Drive and on the south side of Lake Cadillac. Water is also reported in the Consumers Power Station in Cadillac. The Region 7 Medical Coordination Center is standing by for resource requests for Manistee, Wexford, Missaukee Counties (Region 7), and Mason and other Counties in Region 6, if coordination of medical assets needed.

ADDITIONAL INFORMATION:

Power Outages:** The following information was provided by the Detroit Edison (DTE) and Consumers Energy (CE) web sites:

Detroit Edison (storm update, June 13 at 6:43 AM):

About **36,000** customers are still without service; a total of **360,000** customers were affected by the storms. Substantial progress has been made on restoration, despite extensive tree damage that must first be cleared before crews can make line repairs. There is a potential for more severe weather today, which may impact restoration efforts and cause additional outages.

Nearly 2,000 linemen and staff, including linemen from states as far away as Missouri, are participating in repair efforts. While the vast majority of repairs have been completed, some customers, particularly those in areas of Oakland County, will not have power restored until the weekend.

Oakland County was hardest hit by the storms. Not only was the damage to utility poles, power lines and other electrical equipment extensive, the area also experienced massive amounts of tree damage, hampering our ability to get power lines repaired. DTE is replacing utility poles, power lines, transformers and other equipment. Unfortunately, damage of this magnitude takes time to repair.

The hardest hit areas were:

- Oakland County, particularly Bloomfield Township, Rochester Hills, Troy, Waterford Township and West Bloomfield. (26,000 customers still out)
- Macomb County (4,000)

- Wayne County (1,200)

Consumers Energy (last storm update, June 11 at 9:30 PM):

Approximately **1,900** Consumers Energy electric customers are without service due to the numerous thunderstorms that swept across the state this past weekend. Since that time, more than **350,000** customers have been affected by weather-related outages.

The approximate numbers of Consumers Energy electric customers remaining without service in and around the following areas are as follows: Flint (700); Gladwin (30); Lansing (400); Owosso (650) and Temperance (90).

Utility, line clearing and contract crews, including 86 additional crews from Indiana, Kentucky and Ohio, will continue to restore power. The majority of remaining customers without power are expected to be restored by midnight tonight. Customers in the hardest hit and rural areas, including Flint and Lansing, may not receive electric service until Thursday. Additional storm activity has extended restoration times. Estimates will be updated as assessment and repairs continue.

****Note: this information changes frequently as repairs are made and/or conditions in the field change. Refer to each company's web site for the most current power restoration status.**

State Response Actions: The MSP/EMHSD has monitored the situation since the series of storms first began on Friday, June 6. MSP/EMHSD District Coordinators have worked closely with affected local emergency management coordinators over the past few days to assess damage and impacts, determine and coordinate appropriate response and recovery actions, and assist in obtaining additional resources where required. On Monday, June 9, the MSP/EMHSD began to compile the damage estimates developed by the affected local communities. In addition, a request was made to state agencies to provide detailed synopses of any storm-related response / recovery actions they took during the weekend of June 7-8, or anticipate taking in the coming days to aid the affected local communities. The affected local jurisdictions continue to collect and compile information and develop their damage and impact assessments. That process is expected to continue for the next few days.

The State Emergency Operations Center (SEOC) was partially activated on June 13 and will remain open during the weekend of June 14-15 (hours are 7 AM to 7 PM). From the SEOC, state officials will continue to closely monitor the situation and offer whatever assistance they can to meet situational needs. The Michigan Department of Labor and Economic Growth (MDLEG) / Michigan Public Service Commission (MPSC) is monitoring the storm-related power outages in the affected areas from its office and is maintaining management contact with the involved power companies. State agencies are conducting incident assessments to determine what impacts, if any, the storms have had on state facilities and/or agency operations. 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 review and evaluate requests for state assistance submitted by the affected local jurisdictions on a case-by-case basis.

The MSP Special Operations Division, Aviation Unit has assisted selected local communities throughout the week by conducting aerial damage assessments for both series of storms. The most recent flight occurred on June 13 over the six-county affected area in Northwest Michigan. In addition, the MSP/EMHSD provided four two-person field assessment teams to aid the City of Lansing in identifying hazardous conditions that remain in that community due to downed or partially-downed trees. These state assessments have provided much needed supplemental assistance to affected local communities to enable them to get a more complete and accurate portrayal of the damage and impacts caused by the severe weather this week.

The MSP/EMHSD contacted the U.S. Small Business Administration (SBA) in Atlanta, Georgia and requested that they come to Michigan to determine if sufficient home and business damage has occurred to warrant an SBA Disaster Declaration and activation of the SBA Low-Interest Disaster Loan Program. The SBA agreed to Michigan's request and is expected to conduct its damage surveys beginning on Friday, June 13. The surveys are currently being conducted in the City of Lansing and surrounding areas. The surveys are expected to take several days to complete.

In response to the June 12-13 storms, the Michigan Department of Transportation is conducting detailed assessments of the damage and impacts to state highways and related transportation infrastructure. Those

storms caused significant damage to US-31 in Mason County as well as to numerous county and local roads in Mason County and the surrounding counties. cursory damage assessment indicates at least 20 roadways are washed out. Due to the damage to and deteriorating condition of the county and local roads in proximity to US-31, the MDOT has issued travel restrictions for overweight and oversize vehicles in a six-county area including Lake, Manistee, Mason, Missaukee, Osceola, and Wexford counties. In addition, US-31 has been closed from Manistee to Scottville and a detour around the area has been put in place using M-55, M-37, and US-10. This 67-mile detour is necessary because the damaged / deteriorating county and local roads cannot handle the expected volume of traffic from US-31. The MDOT reports the damages to US-31 cannot be temporarily repaired. The MDOT will be conducting additional damage assessments of affected state highways and transportation infrastructure over the next two to three days; however, those assessments cannot begin until after the flood waters begin to recede.

The Michigan Department of Community Health (MDCH) has activated the Region 6 Medical Coordination Center to monitor possible health and medical concerns.

The Michigan Department of Natural Resources (MDNR) has temporarily closed Ludington State Park due to the heavy rain and flooding that occurred as a result of the June 12-13 storm event. Mitchell State Park in Cadillac, which had been temporarily closed as well, was reopened for camping after conditions there improved.

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.

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.)

The MSP/EMHSD is reviewing the requests from the jurisdictions and assessing the availability of the requested resources.

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.

State agency direct assistance will begin as soon as the requisite resources can be mobilized and connected with the appropriate local officials.

Storm Related Fatalities

There are 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.

A vehicle submerged in the Thornapple River in Kent County on June 13 resulted in one fatality. Reports indicate 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	5,000		690,000					695,000
Arenac County								
Barry County	250,000		250,000				10,000	510,000
Clare County								
Clinton County	50,000							50,000
Delta Township	97,000	101,500	25,000		2,500			226,000
City of Detroit								
Eaton County	200,000	70,000	300,000					570,000
Genesee County								
Gladwin County								
Lake County								
City of Lansing	1,500,000					10,000,000	500,000	12,000,000
Livingston County								
Manistee County								
Mason County								
Missaukee County								
Monroe County								
Oakland County								
Ogemaw County								
Osceola County	9,680	71,829						81,509
Ottawa County		290,000	357,000	418,000	7,400	262,100		1,334,500
Saginaw County	305,000							305,000
Washtenaw County								
Wayne County								
Wexford County								
TOTALS PER CATEGORY:	2,416,680	533,329	1,622,000	418,000	9,900	10,012,100	510,000	15,722,009

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		1	8	12					(10% insured)
Arenac County									
Barry County		1	19						\$180,000 (75% 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 (95-100% insured)
City of Detroit									
Eaton County			40	9			1		\$449,000 (100% insured)
Genesee County		1		2					(100% insured)
Gladwin County									
Lake County									
City of Lansing		9	40	90		1	1	16	(50% insured – residences; 100% insured – businesses)
Livingston County									
Mason County									
Missaukee County									
Missaukee County									
Monroe County									
Oakland County									
Ogemaw County			1	1					(100% insured)
Osceola County			15	130			3		
Ottawa County		2	12	87		2		3	\$1,373,000
Saginaw County		8	5	16		1	1	2	(60% insured – residences; \$200,000 for businesses – 80% insured)
Washtenaw County									
Wayne County									
Wexford County									
TOTALS:	1	25	287	652		5	12	51	\$3,822,000

National Weather Service Rainfall Map for June 12-13 Storm

