

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE ERIE				
MICHIGAN WATERS OF LAKE ERIE FROM DETROIT RIVER TO NORTH CAPE MI COUNTY --- 12.4 ESE MONROE HARBOR [41.83, -83.19]				
	07/27/14 18:00 EST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/27/14 18:00 EST	0		Source: C-MAN Station
A thunderstorm moving through western Lake Erie produced a 39 mph wind gust.				
LAKE HURON				
INNER SAGINAW BAY SW OF POINT AU GRES TO BAY PORT MI COUNTY --- 3.6 W SAGINAW RIVER MOUTH [43.66, -83.90]				
	07/27/14 13:58 EST	0		Marine Hail (1.75 in)
	07/27/14 13:58 EST	0		Source: SHAVE Project
INNER SAGINAW BAY SW OF POINT AU GRES TO BAY PORT MI COUNTY --- 7.4 WNW SAGINAW RIVER MOUTH [43.70, -83.96]				
	07/27/14 14:04 EST	0		Marine Hail (0.88 in)
	07/27/14 14:04 EST	0		Source: SHAVE Project
INNER SAGINAW BAY SW OF POINT AU GRES TO BAY PORT MI COUNTY --- 2.0 W SAGINAW RIVER MOUTH [43.65, -83.87]				
	07/27/14 14:10 EST	0		Marine Hail (1.50 in)
	07/27/14 14:10 EST	0		Source: Trained Spotter
INNER SAGINAW BAY SW OF POINT AU GRES TO BAY PORT MI COUNTY --- 2.1 W SAGINAW RIVER MOUTH [43.65, -83.87]				
	07/27/14 14:10 EST	0		Marine Hail (1.00 in)
	07/27/14 14:10 EST	0		Source: SHAVE Project
INNER SAGINAW BAY SW OF POINT AU GRES TO BAY PORT MI COUNTY --- 3.1 WNW SAGINAW RIVER MOUTH [43.66, -83.89]				
	07/27/14 14:10 EST	0		Marine Hail (1.25 in)
	07/27/14 14:10 EST	0		Source: Trained Spotter
OUTER SAGINAW BAY SW OF ALABASTER TO PORT AUSTIN MI TO INNER SAGINAW BAY COUNTY --- GRAVELLY SHOALS LIGHT [44.02, -83.54]				
	07/27/14 15:20 EST	0		Marine Thunderstorm Wind (MG 51 kt)
	07/27/14 15:20 EST	0		Source: C-MAN Station
INNER SAGINAW BAY SW OF POINT AU GRES TO BAY PORT MI COUNTY --- SAGINAW BAY LIGHT [43.81, -83.72]				
	07/27/14 15:50 EST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/27/14 15:50 EST	0		Source: C-MAN Station
HARBOR BEACH TO PORT SANILAC MI 5NM OFFSHORE TO US/CANADIAN BORDER COUNTY --- PORT SANILAC [43.43, -82.55]				
	07/27/14 17:00 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/27/14 17:00 EST	0		Source: C-MAN Station
HARBOR BEACH TO PORT SANILAC MI COUNTY --- PORT SANILAC [43.43, -82.55]				
	07/27/14 17:00 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/27/14 17:00 EST	0		Source: C-MAN Station
PORT SANILAC TO PORT HURON MI 5NM OFFSHORE TO US/CANADIAN BORDER COUNTY --- PORT SANILAC [43.43, -82.55]				
	07/27/14 17:00 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/27/14 17:00 EST	0		Source: C-MAN Station
PORT SANILAC TO PORT HURON MI COUNTY --- PORT SANILAC [43.43, -82.55]				
	07/27/14 17:00 EST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/27/14 17:00 EST	0		Source: C-MAN Station

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Thunderstorms moving through Saginaw Bay and Southern Lake Huron produced large hail and winds to around 60 mph.

LAKE ST CLAIR

LAKE ST CLAIR (U.S. PORTION) COUNTY --- 7.2 SW NEW BALTIMORE [42.61, -82.84]

07/01/14 02:59 EST		0		Marine Thunderstorm Wind (MG 37 kt)
07/01/14 02:59 EST		0		Source: ASOS

ST CLAIR RIVER COUNTY --- 1.1 NNW MARINE CITY [42.73, -82.49]

07/01/14 03:21 EST		0		Marine Thunderstorm Wind (EG 50 kt)
07/01/14 03:21 EST		0		Source: Trained Spotter

A thunderstorm downed a 12 inch diameter tree limb along the banks of Saint Clair River.

Strong to severe thunderstorms moved through the Saint Clair river and Lake Saint Clair.

LAKE ST CLAIR (U.S. PORTION) COUNTY --- 1.5 SSE METROPOLITAN BEACH [42.45, -82.81]

07/03/14 07:56 EST		0		Waterspout
07/03/14 07:56 EST		0		Source: Broadcast Media

Waterspout witnessed by multiple people off the shore of Gross Pointe Farms.

DETROIT RIVER COUNTY --- 2.1 NNE WYANDOTTE [42.23, -83.16]

07/27/14 16:30 EST		0		Marine Thunderstorm Wind (EG 50 kt)
07/27/14 16:30 EST		0		Source: Trained Spotter

A thunderstorm which took down a large tree branch near Wyandotte move into to the Detroit River.

LAKE ST CLAIR (U.S. PORTION) COUNTY --- ST CLAIR SHORES [42.47, -82.88]

07/27/14 16:40 EST		0		Marine Thunderstorm Wind (MG 40 kt)
07/27/14 16:40 EST		0		Source: C-MAN Station

LAKE ST CLAIR (U.S. PORTION) COUNTY --- 11.9 WSW GROSSE POINTE [42.33, -83.13]

07/27/14 16:46 EST		0		Marine Thunderstorm Wind (MG 40 kt)
07/27/14 16:46 EST		0		Source: ASOS

LAKE ST CLAIR (U.S. PORTION) COUNTY --- 7.1 NNW METROPOLITAN BEACH [42.57, -82.85]

07/27/14 16:46 EST		0		Marine Thunderstorm Wind (EG 56 kt)
07/27/14 16:46 EST		0		Source: Trained Spotter

A thunderstorm which brought down trees East of Mt. Clemens moved into Lake St. Clair.

ST CLAIR RIVER COUNTY --- ALGONAC [42.62, -82.53]

07/27/14 17:00 EST		0		Marine Thunderstorm Wind (EG 50 kt)
07/27/14 17:00 EST		0		Source: Trained Spotter

A thunderstorm which blew down large tree limbs in Algonac moved across the St. Clair River.

DETROIT RIVER COUNTY --- GROSSE ILE [42.18, -83.17]

07/27/14 18:53 EST		0		Marine Thunderstorm Wind (MG 37 kt)
07/27/14 18:53 EST		0		Source: ASOS

Thunderstorms which produced wind damage tracked into Lake St. Clair and the Detroit River.

MICHIGAN, East

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LENAWEE COUNTY --- CEMENT CITY [42.07, -84.33]				
	07/01/14 01:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 01:30 EST		0	Source: Trained Spotter
Five to six inch diameter trees limb reported down.				
WASHTENAW COUNTY --- 2.0 E SYLVAN [42.28, -84.03]				
	07/01/14 01:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 01:45 EST		0	Source: Public
Numerous large tree limbs reported down.				
WASHTENAW COUNTY --- 2.1 S CHELSEA [42.29, -84.02]				
	07/01/14 01:45 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 01:45 EST		0	Source: Emergency Manager
Emergency manager estimated a 65 mph thunderstorm wind gust.				
WASHTENAW COUNTY --- 0.9 SW LIMA [42.29, -83.96]				
	07/01/14 01:50 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/01/14 01:50 EST		0	Source: Broadcast Media
Trees and power line reported down.				
GENESEE COUNTY --- 3.7 NW ARGENTINE [42.81, -83.89]				
	07/01/14 02:00 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:00 EST		0	Source: Newspaper
Tree blown onto a road.				
LIVINGSTON COUNTY --- 0.7 S HAMBURG [42.44, -83.80]				
	07/01/14 02:00 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:00 EST		0	Source: Trained Spotter
Trees and power lines reported down.				
LIVINGSTON COUNTY --- 2.1 SSW LAKELAND [42.44, -83.84]				
	07/01/14 02:00 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:00 EST		0	Source: 911 Call Center
Trees and power lines reported down.				
LIVINGSTON COUNTY --- HAMBURG [42.45, -83.80]				
	07/01/14 02:00 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/01/14 02:00 EST		0	Source: Trained Spotter
Trees and power lines reported down.				
GENESEE COUNTY --- 2.1 S OTTERBURN [42.94, -83.78]				
	07/01/14 02:10 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:10 EST		0	Source: Newspaper
Wires reported down.				
OAKLAND COUNTY --- 0.5 E WIXOM [42.52, -83.52]				
	07/01/14 02:10 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 02:10 EST		0	Source: Trained Spotter
Two large trees blown down blocking road.				
OAKLAND COUNTY --- 0.5 E WIXOM SPENCER ARPT [42.52, -83.54]				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/01/14 02:10 EST		5K	Thunderstorm Wind (EG 61 kt)
	07/01/14 02:10 EST		0	Source: Law Enforcement
Numerous trees and wires down.				
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OAKLAND COUNTY --- 0.9 SE OAKLEY PARK [42.56, -83.47]	07/01/14 02:10 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 02:10 EST		0	Source: Trained Spotter
Multiple trees reported down.				
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OAKLAND COUNTY --- 0.9 SE WIXOM SPENCER ARPT [42.51, -83.54]	07/01/14 02:10 EST		0	Thunderstorm Wind (MG 64 kt)
	07/01/14 02:10 EST		0	Source: Trained Spotter
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OAKLAND COUNTY --- 1.2 NW MILFORD [42.59, -83.60]	07/01/14 02:10 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:10 EST		0	Source: Law Enforcement
Numerous large tree limbs down.				
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OAKLAND COUNTY --- 1.5 W MILFORD [42.58, -83.61]	07/01/14 02:10 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 02:10 EST		0	Source: Trained Spotter
Forty inch diameter tree uprooted.				
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WASHTENAW COUNTY --- 1.5 NNE ANN ARBOR ARPT [42.24, -83.72]	07/01/14 02:10 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:10 EST		0	Source: Trained Spotter
One large tree and tree limbs blown down.				
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WASHTENAW COUNTY --- 2.1 SSE GEDDES [42.24, -83.66]	07/01/14 02:11 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:11 EST		0	Source: Trained Spotter
Large tree reported down.				
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OAKLAND COUNTY --- 1.4 S WIXOM SPENCER ARPT [42.50, -83.55]	07/01/14 02:12 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:12 EST		0	Source: Trained Spotter
Four foot diameter tree blown down.				
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OAKLAND COUNTY --- 1.5 SSW WIXOM SPENCER ARPT [42.50, -83.56]	07/01/14 02:12 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:12 EST		0	Source: Trained Spotter
Multiple four to six inch diameter tree limbs down.				
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WASHTENAW COUNTY --- 0.7 N YPSILANTI [42.24, -83.62]	07/01/14 02:14 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:14 EST		0	Source: Trained Spotter
Spotter estimated a 60 mph thunderstorm wind gust.				
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WASHTENAW COUNTY --- 1.7 WSW YPSILANTI [42.22, -83.65]	07/01/14 02:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:14 EST		0	Source: Trained Spotter
Four inch diameter tree limb reported down.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WAYNE COUNTY --- 0.9 NW NORTHVILLE [42.44, -83.49]				
	07/01/14 02:14 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 02:14 EST		0	Source: Trained Spotter
Spotter estimated a 65 mph thunderstorm wind gust.				
OAKLAND COUNTY --- 0.9 NW COMMERCE [42.59, -83.49]				
	07/01/14 02:15 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:15 EST		0	Source: Law Enforcement
Numerous large tree limbs reported down.				
OAKLAND COUNTY --- 1.2 SE OAKLEY PARK [42.56, -83.46]				
	07/01/14 02:15 EST		0	Thunderstorm Wind (EG 54 kt)
	07/01/14 02:15 EST		0	Source: NWS Employee
A large willow tree was blown down, along with one large tree uprooted.				
WAYNE COUNTY --- 2.1 S NANKIN MILLS [42.32, -83.38]				
	07/01/14 02:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:15 EST		0	Source: Public
Two twelve inch diameter tree limbs down.				
GENESEE COUNTY --- 0.5 SE GRAND BLANC [42.91, -83.61]				
	07/01/14 02:16 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:16 EST		0	Source: NWS Employee
Two eight to ten inch tree limbs down, along with several three to four inch limbs.				
WAYNE COUNTY --- 1.2 SE WESTMORE [42.41, -83.35]				
	07/01/14 02:16 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:16 EST		0	Source: Trained Spotter
Downed power lines.				
OAKLAND COUNTY --- 1.7 WSW ROCHESTER HILLS [42.67, -83.16]				
	07/01/14 02:35 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:35 EST		0	Source: Law Enforcement
Large tree blown down onto house.				
MACOMB COUNTY --- 0.7 N STERLING HGTS [42.58, -83.03]				
	07/01/14 02:42 EST		5K	Thunderstorm Wind (EG 56 kt)
	07/01/14 02:42 EST		0	Source: Trained Spotter
Three large trees blown down, one landing on a vehicle.				
LAPEER COUNTY --- 0.5 E ATTICA [43.03, -83.16]				
	07/01/14 02:45 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:45 EST		0	Source: Trained Spotter
Large tree limbs blown down blocking road.				
MACOMB COUNTY --- 1.5 SSW MT CLEMENS [42.56, -82.88]				
	07/01/14 02:51 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/01/14 02:51 EST		0	Source: 911 Call Center
Downed wires and transformer.				
MACOMB COUNTY --- 0.7 S MT CLEMENS [42.57, -82.87]				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/01/14 02:53 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:53 EST		0	Source: 911 Call Center
Tree reported down.				
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ST. CLAIR COUNTY --- 1.7 WSW BROCKWAY [43.06, -82.78]				
	07/01/14 02:59 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 02:59 EST		0	Source: 911 Call Center
Tree reported blown down.				
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ST. CLAIR COUNTY --- 1.0 E FARGO [43.10, -82.63]				
	07/01/14 03:05 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/01/14 03:05 EST		0	Source: 911 Call Center
Downed wires.				
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ST. CLAIR COUNTY --- 1.0 W MARINE CITY [42.72, -82.50]				
	07/01/14 03:21 EST		0	Thunderstorm Wind (EG 50 kt)
	07/01/14 03:21 EST		0	Source: Trained Spotter
Twelve inch diameter tree limb blown down.				
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ST. CLAIR COUNTY --- 2.3 SSW ST CLAIR [42.80, -82.50]				
	07/01/14 03:21 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/01/14 03:21 EST		0	Source: State Official
Downed wires.				
<p>The last day of June and into the first day of July, saw a line of severe storms form out over the plains that quickly raced east across Iowa, Southern Wisconsin, Northern Illinois, Northern Indiana, and into Southern Lower Michigan. Southeast Michigan saw damaging winds move through between 2:30 a.m. and 5:30 a.m. on the morning of July 1st. Southwestern Oakland, southeastern Livingston, and parts of Washtenaw counties saw the most extensive damage as numerous trees and power lines were taken down. The highest wind gust was reported in Wixom at 74 mph. These storms were classified as a derecho by the Storm Prediction Center (SPC).</p>				
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GENESEE COUNTY --- 0.9 NW MT MORRIS [43.13, -83.69]				
	07/07/14 00:55 EST		2K	Lightning
	07/07/14 00:55 EST		0	Source: Fire Department/Rescue
A shed was damaged by lightning.				
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GENESEE COUNTY --- 1.5 SSE BELSAY [43.00, -83.62]				
	07/07/14 01:50 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/07/14 01:50 EST		0	Source: 911 Call Center
Several power lines downed.				
An isolated severe thunderstorm developed over Burton.				
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MIDLAND COUNTY --- 2.0 SW LARKIN [43.70, -84.28]				
	07/27/14 13:15 EST		0	Hail (1.00 in)
	07/27/14 13:15 EST		0	Source: SHAVE Project
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MIDLAND COUNTY --- 0.9 NE MIDLAND [43.63, -84.22]				
	07/27/14 13:19 EST		0.10M	Hail (1.50 in)
	07/27/14 13:19 EST		0	Source: SHAVE Project
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MIDLAND COUNTY --- 1.6 NNE MIDLAND [43.64, -84.22]				
	07/27/14 13:19 EST		0	Hail (1.00 in)
	07/27/14 13:19 EST		0	Source: SHAVE Project

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BAY COUNTY --- 2.0 SW WILLARD [43.65, -84.15]				
	07/27/14 13:21 EST		2M	Hail (2.50 in)
	07/27/14 13:21 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 3.7 NE MIDLAND [43.66, -84.18]				
	07/27/14 13:27 EST		1M	Hail (1.75 in)
	07/27/14 13:27 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 2.1 ENE MIDLAND [43.63, -84.19]				
	07/27/14 13:30 EST		25K	Hail (2.00 in)
	07/27/14 13:30 EST		0	Source: CoCoRaHS
MIDLAND COUNTY --- 3.3 ENE MIDLAND [43.64, -84.17]				
	07/27/14 13:30 EST		5M	Hail (3.00 in)
	07/27/14 13:30 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- MIDLAND [43.62, -84.23]				
	07/27/14 13:30 EST		1M	Hail (1.75 in)
	07/27/14 13:30 EST		0	Source: Public
MIDLAND COUNTY --- 7.3 NE MAPLETON [43.64, -84.07]				
	07/27/14 13:35 EST		1M	Hail (1.75 in)
	07/27/14 13:35 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 4.0 NNE MIDLAND [43.67, -84.19]				
	07/27/14 13:38 EST		0	Hail (0.88 in)
	07/27/14 13:38 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 6.9 ENE MIDLAND [43.67, -84.11]				
	07/27/14 13:38 EST		0	Hail (1.50 in)
	07/27/14 13:38 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 8.9 ENE MAPLETON [43.64, -84.03]				
	07/27/14 13:39 EST		2M	Hail (2.50 in)
	07/27/14 13:39 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 5.7 ENE MIDLAND [43.64, -84.12]				
	07/27/14 13:40 EST		0	Hail (1.50 in)
	07/27/14 13:40 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 6.1 NE MAPLETON [43.63, -84.09]				
	07/27/14 13:40 EST		0	Hail (0.88 in)
	07/27/14 13:40 EST		0	Source: SHAVE Project
BAY COUNTY --- 1.5 SSW WILLARD [43.65, -84.13]				
	07/27/14 13:41 EST		2M	Hail (2.00 in)
	07/27/14 13:41 EST		0	Source: SHAVE Project
MIDLAND COUNTY --- 5.4 ENE MIDLAND [43.65, -84.13]				
	07/27/14 13:41 EST		1K	Hail (2.00 in)
	07/27/14 13:41 EST		0	Source: SHAVE Project
BAY COUNTY --- 1.5 E WILLARD [43.67, -84.09]				
	07/27/14 13:43 EST		0.50M	Hail (1.75 in)
	07/27/14 13:43 EST		0	Source: SHAVE Project

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BAY COUNTY --- 1.7 SE WILLARD [43.65, -84.10]				
	07/27/14 13:46 EST	0		Hail (1.50 in)
	07/27/14 13:46 EST	0		Source: SHAVE Project
BAY COUNTY --- 1.0 W BEAVER [43.70, -84.09]				
	07/27/14 13:48 EST	0		Hail (1.00 in)
	07/27/14 13:48 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.9 ESE WILLARD [43.65, -84.07]				
	07/27/14 13:48 EST	0		Hail (1.25 in)
	07/27/14 13:48 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.9 NW KAWKAWLIN [43.68, -83.99]				
	07/27/14 13:48 EST	0		Hail (0.88 in)
	07/27/14 13:48 EST	0		Source: SHAVE Project
BAY COUNTY --- 1.0 W BEAVER [43.70, -84.09]				
	07/27/14 13:49 EST	0		Hail (1.00 in)
	07/27/14 13:49 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.9 WNW KAWKAWLIN [43.67, -84.00]				
	07/27/14 13:49 EST	0	1.50M	Hail (2.00 in)
	07/27/14 13:49 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.0 W KAWKAWLIN [43.65, -83.99]				
	07/27/14 13:50 EST	0	2M	Hail (2.00 in)
	07/27/14 13:50 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.1 WSW LINWOOD [43.72, -84.01]				
	07/27/14 13:50 EST	0		Hail (0.88 in)
	07/27/14 13:50 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.6 SE WILLARD [43.64, -84.09]				
	07/27/14 13:50 EST	0		Hail (1.50 in)
	07/27/14 13:50 EST	0		Source: SHAVE Project
BAY COUNTY --- 2.6 WSW KAWKAWLIN [43.64, -84.00]				
	07/27/14 13:50 EST	0		Hail (1.00 in)
	07/27/14 13:50 EST	0		Source: SHAVE Project
BAY COUNTY --- 3.1 ESE BEAVER [43.69, -84.01]				
	07/27/14 13:50 EST	0		Hail (1.00 in)
	07/27/14 13:50 EST	0		Source: SHAVE Project
BAY COUNTY --- 1.5 W TOBICO [43.68, -83.96]				
	07/27/14 13:51 EST	0	1M	Hail (1.75 in)
	07/27/14 13:51 EST	0		Source: SHAVE Project
BAY COUNTY --- 3.0 W KAWKAWLIN [43.65, -84.01]				
	07/27/14 13:52 EST	0	1M	Hail (1.75 in)
	07/27/14 13:52 EST	0		Source: SHAVE Project
BAY COUNTY --- 1.0 E KAWKAWLIN [43.65, -83.93]				
	07/27/14 13:55 EST	0	2M	Hail (2.00 in)
	07/27/14 13:55 EST	0		Source: SHAVE Project

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BAY COUNTY --- 1.0 W KAWKAWLIN [43.65, -83.97]				
	07/27/14 13:55 EST		0	Hail (1.00 in)
	07/27/14 13:55 EST		0	Source: SHAVE Project
BAY COUNTY --- 2.6 SE BEAVER [43.67, -84.04]				
	07/27/14 13:55 EST		0	Hail (1.00 in)
	07/27/14 13:55 EST		0	Source: SHAVE Project
BAY COUNTY --- 0.9 SW BANGOR TOWNSHIP [43.66, -83.93]				
	07/27/14 13:56 EST		3M	Hail (2.50 in)
	07/27/14 13:56 EST		0	Source: SHAVE Project
BAY COUNTY --- 1.2 SE BANGOR TOWNSHIP [43.66, -83.90]				
	07/27/14 13:58 EST		1M	Hail (1.75 in)
	07/27/14 13:58 EST		0	Source: SHAVE Project
BAY COUNTY --- 1.5 SSE BANGOR TOWNSHIP [43.65, -83.91]				
	07/27/14 13:59 EST		1M	Hail (1.75 in)
	07/27/14 13:59 EST		0	Source: SHAVE Project
BAY COUNTY --- 0.9 NW LINWOOD [43.74, -83.98]				
	07/27/14 14:00 EST		0	Hail (0.75 in)
	07/27/14 14:00 EST		0	Source: Trained Spotter
BAY COUNTY --- 1.5 W TOBICO [43.68, -83.96]				
	07/27/14 14:00 EST		1M	Hail (1.75 in)
	07/27/14 14:00 EST		0	Source: SHAVE Project
BAY COUNTY --- 2.1 SSW LINWOOD [43.70, -83.98]				
	07/27/14 14:00 EST		0	Hail (1.50 in)
	07/27/14 14:00 EST		0	Source: SHAVE Project
BAY COUNTY --- 2.1 SSW LINWOOD [43.70, -83.98]				
	07/27/14 14:00 EST		1M	Hail (1.75 in)
	07/27/14 14:00 EST		0	Source: SHAVE Project
BAY COUNTY --- 2.9 SW KAWKAWLIN [43.62, -83.99]				
	07/27/14 14:00 EST		0	Hail (0.75 in)
	07/27/14 14:00 EST		0	Source: Public
BAY COUNTY --- KAWKAWLIN [43.65, -83.95]				
	07/27/14 14:00 EST		1M	Hail (1.75 in)
	07/27/14 14:00 EST		0	Source: SHAVE Project
BAY COUNTY --- 1.2 SW LINWOOD [43.72, -83.99]				
	07/27/14 14:03 EST		0	Hail (0.88 in)
	07/27/14 14:03 EST		0	Source: SHAVE Project
BAY COUNTY --- 2.0 NW TOBICO [43.70, -83.96]				
	07/27/14 14:04 EST		0	Hail (0.88 in)
	07/27/14 14:04 EST		0	Source: SHAVE Project
BAY COUNTY --- 0.5 E BAYSIDE [43.65, -83.87]				
	07/27/14 14:10 EST		0	Hail (1.00 in)
	07/27/14 14:10 EST		0	Source: SHAVE Project

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BAY COUNTY --- 0.5 E BAYSIDE [43.65, -83.87]				
	07/27/14 14:10 EST		0	Hail (1.00 in)
	07/27/14 14:10 EST		0	Source: Trained Spotter
BAY COUNTY --- 0.5 E BAYSIDE [43.65, -83.87]				
	07/27/14 14:10 EST		0	Hail (1.50 in)
	07/27/14 14:10 EST		0	Source: Trained Spotter
BAY COUNTY --- 0.9 NW BAYSIDE [43.66, -83.89]				
	07/27/14 14:10 EST		0	Hail (1.25 in)
	07/27/14 14:10 EST		0	Source: CoCoRaHS
BAY COUNTY --- 2.8 S PINCONNING [43.81, -83.96]				
	07/27/14 14:10 EST		50K	Hail (2.00 in)
	07/27/14 14:10 EST		0	Source: Amateur Radio
LIVINGSTON COUNTY --- 1.5 NNW OAK GROVE [42.70, -83.93]				
	07/27/14 14:58 EST		0	Hail (0.75 in)
	07/27/14 14:58 EST		0	Source: Public
HURON COUNTY --- 0.5 W CASEVILLE [43.93, -83.28]				
	07/27/14 15:00 EST		5K	Lightning
	07/27/14 15:00 EST		0	Source: Law Enforcement
Building damage caused by lightning stroke.				
HURON COUNTY --- 1.0 W CASEVILLE [43.93, -83.29]				
	07/27/14 15:00 EST		30K	Lightning
	07/27/14 15:00 EST		0	Source: Law Enforcement
Lightning caused a house fire.				
LIVINGSTON COUNTY --- 3.4 ENE HARTLAND [42.67, -83.69]				
	07/27/14 15:15 EST		0	Hail (1.00 in)
	07/27/14 15:15 EST		0	Source: Trained Spotter
MIDLAND COUNTY --- 2.4 SW OLSON [43.61, -84.47]				
	07/27/14 15:25 EST		0	Hail (1.50 in)
	07/27/14 15:25 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 0.5 E CLYDE [42.68, -83.61]				
	07/27/14 15:30 EST		3M	Hail (1.75 in)
	07/27/14 15:30 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 0.7 S CLYDE [42.67, -83.62]				
	07/27/14 15:30 EST		2M	Hail (2.00 in)
	07/27/14 15:30 EST		0	Source: Emergency Manager
A mobile home park was damaged, with 80 percent of the homes suffering broken windows.				
OAKLAND COUNTY --- 1.2 NW HIGHLAND [42.64, -83.62]				
	07/27/14 15:31 EST		3M	Hail (1.75 in)
	07/27/14 15:31 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 1.2 SE CLYDE [42.67, -83.60]				
	07/27/14 15:32 EST		0	Thunderstorm Wind (EG 61 kt)
	07/27/14 15:32 EST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Scattered trees down, along with widespread tree limbs.				
OAKLAND COUNTY --- 1.7 WNW EAST HIGHLAND [42.66, -83.60]				
	07/27/14 15:32 EST		6M	Hail (2.50 in)
	07/27/14 15:32 EST		0	Source: Trained Spotter
BAY COUNTY --- 3.5 S MT FOREST [43.83, -84.11]				
	07/27/14 15:35 EST		25K	Thunderstorm Wind (EG 50 kt)
	07/27/14 15:35 EST		0	Source: Law Enforcement
Power lines reported down.				
OAKLAND COUNTY --- 1.7 WNW WHITE LAKE [42.69, -83.58]				
	07/27/14 15:35 EST		0	Hail (1.25 in)
	07/27/14 15:35 EST		0	Source: Trained Spotter
WASHTEAW COUNTY --- 2.6 NW GUTHRIE [42.33, -84.10]				
	07/27/14 15:35 EST		15K	Thunderstorm Wind (EG 56 kt)
	07/27/14 15:35 EST		0	Source: Amateur Radio
Trees and large tree limbs down on road.				
OAKLAND COUNTY --- 0.9 NE EAST HIGHLAND [42.66, -83.56]				
	07/27/14 15:38 EST		0	Hail (1.00 in)
	07/27/14 15:38 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 1.2 NW WHITE LAKE [42.69, -83.57]				
	07/27/14 15:40 EST		2M	Hail (1.75 in)
	07/27/14 15:40 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 2.5 W OXBOW [42.63, -83.52]				
	07/27/14 15:40 EST		3M	Hail (1.75 in)
	07/27/14 15:40 EST		0	Source: NWS Employee
OAKLAND COUNTY --- 2.1 NW OXBOW [42.65, -83.50]				
	07/27/14 15:42 EST		3M	Hail (1.75 in)
	07/27/14 15:42 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 2.1 ESE WHITE LAKE [42.67, -83.51]				
	07/27/14 15:43 EST		0	Thunderstorm Wind (EG 56 kt)
	07/27/14 15:43 EST		0	Source: NWS Employee
Large tree limbs blown down.				
OAKLAND COUNTY --- 2.5 SW OXBOW [42.61, -83.51]				
	07/27/14 15:43 EST		3M	Hail (1.75 in)
	07/27/14 15:43 EST		0	Source: Amateur Radio
ST. CLAIR COUNTY --- 2.0 W PEARL BEACH [42.63, -82.62]				
	07/27/14 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 15:45 EST		0	Source: Trained Spotter
Large tree limbs reported down.				
OAKLAND COUNTY --- 0.9 NE CRESENT LAKE ESTATES [42.66, -83.39]				
	07/27/14 15:49 EST		0	Thunderstorm Wind (MG 54 kt)
	07/27/14 15:49 EST		0	Source: ASOS

Measured at Pontiac Oakland County International Airport.

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OAKLAND COUNTY --- 0.9 NE CRESENT LAKE ESTATES [42.66, -83.39]				
	07/27/14 15:50 EST		0	Hail (1.00 in)
	07/27/14 15:50 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 0.9 NE FOUR TOWNS [42.63, -83.39]				
	07/27/14 15:50 EST		5K	Thunderstorm Wind (EG 55 kt)
	07/27/14 15:50 EST		0	Source: Trained Spotter
A large oak tree was uprooted. Small trees snapped with a metal car port roof destroyed.				
OAKLAND COUNTY --- 0.9 NE HUNTINGTON WOODS [42.49, -83.11]				
	07/27/14 16:00 EST		10K	Thunderstorm Wind (EG 52 kt)
	07/27/14 16:00 EST		0	Source: Trained Spotter
A tree fell onto a house.				
OAKLAND COUNTY --- 0.9 NE KEEGO HARBOR [42.63, -83.32]				
	07/27/14 16:00 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:00 EST		0	Source: Social Media
Multiple tree limbs reported down.				
OAKLAND COUNTY --- 1.2 SE FOUR TOWNS [42.61, -83.38]				
	07/27/14 16:00 EST		0	Hail (0.88 in)
	07/27/14 16:00 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 1.2 SE FOUR TOWNS [42.61, -83.38]				
	07/27/14 16:00 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:00 EST		0	Source: Trained Spotter
Six inch tree limbs reported down.				
SAGINAW COUNTY --- 0.5 E MERSHON [43.45, -83.94]				
	07/27/14 16:00 EST		0	Thunderstorm Wind (EG 54 kt)
	07/27/14 16:00 EST		0	Source: Public
A tree was uprooted.				
SAGINAW COUNTY --- 1.2 SW IVA [43.46, -84.29]				
	07/27/14 16:00 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:00 EST		0	Source: Trained Spotter
Ten inch diameter tree branch took down power line.				
OAKLAND COUNTY --- 2.1 SE FOUR TOWNS [42.60, -83.37]				
	07/27/14 16:02 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:02 EST		0	Source: Trained Spotter
Four inch diameter tree branches down.				
OAKLAND COUNTY --- 1.7 NW BLOOMFIELD HILLS [42.60, -83.25]				
	07/27/14 16:05 EST		0	Hail (1.00 in)
	07/27/14 16:05 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 1.7 NW BLOOMFIELD HILLS [42.60, -83.25]				
	07/27/14 16:05 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:05 EST		0	Source: Trained Spotter
Large tree limbs reported down.				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SAGINAW COUNTY --- 1.5 NNW SAGINAW [43.44, -83.98]				
	07/27/14 16:05 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:05 EST		0	Source: Trained Spotter
A 15 inch diameter tree limbs was reported down.				
SAGINAW COUNTY --- CHESANING [43.18, -84.12]				
	07/27/14 16:05 EST		0	Hail (0.88 in)
	07/27/14 16:05 EST		0	Source: Trained Spotter
SAGINAW COUNTY --- CHESANING [43.18, -84.12]				
	07/27/14 16:05 EST		0	Thunderstorm Wind (EG 52 kt)
	07/27/14 16:05 EST		0	Source: Trained Spotter
A spotter estimated a 60 mph thunderstorm wind gust.				
SAGINAW COUNTY --- 1.5 E FERGUS [43.25, -84.10]				
	07/27/14 16:07 EST		25K	Thunderstorm Wind (EG 61 kt)
	07/27/14 16:07 EST		0	Source: Law Enforcement
A barn roof was torn off and trees were uprooted.				
SAGINAW COUNTY --- 2.0 E FERGUS [43.25, -84.09]				
	07/27/14 16:07 EST		5K	Thunderstorm Wind (EG 52 kt)
	07/27/14 16:07 EST		0	Source: Trained Spotter
Power lines reported down.				
OAKLAND COUNTY --- 1.0 W BLOOMFIELD HILLS [42.58, -83.25]				
	07/27/14 16:10 EST		0	Thunderstorm Wind (EG 61 kt)
	07/27/14 16:10 EST		0	Source: Trained Spotter
A spotter estimated a 70 mph thunderstorm wind gust.				
OAKLAND COUNTY --- 1.7 NE HUNTINGTON WOODS [42.50, -83.10]				
	07/27/14 16:14 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:14 EST		0	Source: Trained Spotter
Large tree limbs reported down.				
OAKLAND COUNTY --- 0.9 SW BERKLEY [42.49, -83.18]				
	07/27/14 16:15 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:15 EST		0	Source: Trained Spotter
A large tree limbs was reported down.				
LAPEER COUNTY --- 0.5 E NORTH BRANCH [43.23, -83.19]				
	07/27/14 16:20 EST		0	Hail (1.25 in)
	07/27/14 16:20 EST		0	Source: Trained Spotter
OAKLAND COUNTY --- 0.5 W LATHRUP VLG [42.48, -83.26]				
	07/27/14 16:20 EST		0	Hail (0.75 in)
	07/27/14 16:20 EST		0	Source: Trained Spotter
LAPEER COUNTY --- 2.1 ESE NORTH LAKE [43.22, -83.39]				
	07/27/14 16:26 EST		0	Hail (0.88 in)
	07/27/14 16:26 EST		0	Source: Trained Spotter
MACOMB COUNTY --- 1.5 SSW WARREN [42.50, -83.01]				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/27/14 16:30 EST		0	Hail (1.00 in)
	07/27/14 16:30 EST		0	Source: Trained Spotter
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WAYNE COUNTY --- 0.5 E LINCOLN PARK [42.23, -83.16]				
	07/27/14 16:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:30 EST		0	Source: Trained Spotter
Large tree branches reported down on power lines.				
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MACOMB COUNTY --- 1.7 NE CENTER LINE [42.49, -83.01]				
	07/27/14 16:33 EST		0	Hail (0.88 in)
	07/27/14 16:33 EST		0	Source: Trained Spotter
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MACOMB COUNTY --- 0.7 N CENTER LINE [42.48, -83.03]				
	07/27/14 16:35 EST		0	Hail (0.75 in)
	07/27/14 16:35 EST		0	Source: Trained Spotter
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MACOMB COUNTY --- 0.7 S DISCO [42.67, -83.03]				
	07/27/14 16:37 EST		0	Hail (1.00 in)
	07/27/14 16:37 EST		0	Source: Trained Spotter
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MACOMB COUNTY --- 1.5 NNW EAST DETROIT [42.49, -82.94]				
	07/27/14 16:40 EST		0	Hail (0.75 in)
	07/27/14 16:40 EST		0	Source: Trained Spotter
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SANILAC COUNTY --- 0.9 SE BROWN CITY [43.21, -82.99]				
	07/27/14 16:45 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:45 EST		0	Source: Law Enforcement
Tree limbs and power outages reported.				
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MACOMB COUNTY --- 1.2 SE MT CLEMENS [42.57, -82.85]				
	07/27/14 16:46 EST		10K	Thunderstorm Wind (EG 55 kt)
	07/27/14 16:46 EST		0	Source: Trained Spotter
A large tree fell onto a house, with multiple large tree limbs also reported down.				
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MACOMB COUNTY --- 1.4 S (MTC)MT CLEMENS/SELF [42.58, -82.83]				
	07/27/14 16:46 EST		0	Thunderstorm Wind (EG 56 kt)
	07/27/14 16:46 EST		0	Source: Trained Spotter
Trees snapped and uprooted.				
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MACOMB COUNTY --- 1.2 SE (MTC)MT CLEMENS/SELF [42.59, -82.81]				
	07/27/14 16:47 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:47 EST		0	Source: Trained Spotter
Tree limbs greater than one foot in diameter reported down.				
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GENESEE COUNTY --- 1.2 NW OTISVILLE [43.18, -83.54]				
	07/27/14 16:53 EST		0	Thunderstorm Wind (EG 54 kt)
	07/27/14 16:53 EST		0	Source: Law Enforcement
A large tree was blown down.				
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LENAWEE COUNTY --- 1.0 E TECUMSEH [42.00, -83.91]				
	07/27/14 16:53 EST		0	Thunderstorm Wind (EG 52 kt)
	07/27/14 16:53 EST		0	Source: Trained Spotter
Tree reported down.				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WASHTENAW COUNTY --- 0.5 W MANCHESTER [42.15, -84.04]				
	07/27/14 17:21 EST		0	Hail (1.00 in)
	07/27/14 17:21 EST		0	Source: Trained Spotter
WASHTENAW COUNTY --- 1.7 SE ANN ARBOR [42.26, -83.71]				
	07/27/14 17:21 EST		0	Hail (1.00 in)
	07/27/14 17:21 EST		0	Source: Trained Spotter
MONROE COUNTY --- 1.7 WNW SOUTH ROCKWOOD [42.08, -83.28]				
	07/27/14 17:25 EST		0	Thunderstorm Wind (EG 54 kt)
	07/27/14 17:25 EST		0	Source: Law Enforcement
Trees reported down.				
WASHTENAW COUNTY --- 1.2 NW GUTHRIE [42.31, -84.09]				
	07/27/14 17:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 17:30 EST		0	Source: Trained Spotter
A 10 inch diameter tree limb was reported down.				
WASHTENAW COUNTY --- 2.9 SW LYNDON CENTER [42.35, -84.12]				
	07/27/14 17:30 EST		0	Hail (0.88 in)
	07/27/14 17:30 EST		0	Source: Trained Spotter
WASHTENAW COUNTY --- 2.9 SW LYNDON CENTER [42.35, -84.12]				
	07/27/14 17:30 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 17:30 EST		0	Source: Trained Spotter
Large tree limbs reported down.				
WASHTENAW COUNTY --- 0.7 S CHELSEA [42.31, -84.02]				
	07/27/14 17:46 EST		20K	Thunderstorm Wind (EG 52 kt)
	07/27/14 17:46 EST		0	Source: Trained Spotter
A large tree fell onto a house.				
WASHTENAW COUNTY --- 2.1 NE ANN ARBOR [42.30, -83.70]				
	07/27/14 17:51 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 17:51 EST		0	Source: Trained Spotter
Fourteen inch diameter tree limb reported down.				
WASHTENAW COUNTY --- 2.2 WSW DIXBORO [42.31, -83.69]				
	07/27/14 17:51 EST		0	Thunderstorm Wind (EG 52 kt)
	07/27/14 17:51 EST		0	Source: Trained Spotter
A spotter estimated a 60 mph thunderstorm wind gust.				
WASHTENAW COUNTY --- 3.2 SSE WHITMORE LAKE [42.38, -83.72]				
	07/27/14 18:04 EST		0	Thunderstorm Wind (EG 56 kt)
	07/27/14 18:04 EST		0	Source: Law Enforcement
Ten trees reported down.				
WAYNE COUNTY --- 0.9 NW NORTHVILLE [42.44, -83.49]				
	07/27/14 18:17 EST		0	Thunderstorm Wind (EG 54 kt)
	07/27/14 18:17 EST		0	Source: Law Enforcement
A couple of trees reported down.				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A powerful upper-level low pressure system dropped southward into the Great Lakes on Sunday July 27, sparking a good deal of severe thunderstorms in the warm, moist, and unstable air in advance of the system. Between 2 p.m. and 8 p.m., severe weather affected nearly all of southeast Michigan. The initial storm that affected portions of Midland and Bay counties from around 2:15 to 3:15 p.m. was a prolific hail producer, with hail up to 3" diameter (greater than baseball size) recorded near Midland. Later, another particularly strong storm moved across Oakland County between around 4:30 and 5:15 pm, dropping hail up to 2.50" diameter (tennis ball size) near the Highland/White Lake area, with wind damage reported over central and eastern portions of the county. The storms produced heavy rainfall as well, with a swath of 1-2" recorded over southern Oakland County. Wyandotte, in southern Wayne County, picked up 2.67" in 4 hours. Total damage across Southeast Michigan was estimated to be 100 million dollars from the severe wind and hail.