

Storm Data and Unusual Weather Phenomena - January 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY	01/01/14 00:00 CST		0	Winter Weather
	01/02/14 14:00 CST		0	
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY	01/01/14 00:00 EST		0	Winter Weather
	01/02/14 18:00 EST		0	
<p>A long duration light to moderate snow event impacted northern Indiana to start 2014. Snowfall totals ranged between 3 and 6 inches south of Highway 30 to between 6 and 10 inches north of Highway 30.</p>				
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY	01/04/14 18:00 CST		0	Winter Storm
	01/06/14 05:00 CST		0	
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY	01/04/14 19:00 EST		0	Winter Storm
	01/06/14 05:00 EST		0	
<p>A deepening low pressure system tracking northeast through Kentucky and Ohio brought heavy snow and blizzard-like conditions to the region on January 5th. Total snow accumulations ranged between 8 and 16 inches, while 30 to 40 mph wind gusts late in the day resulted in significant blowing and drifting snow.</p>				
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY	01/06/14 05:00 CST		0	Extreme Cold/Wind Chill
	01/07/14 15:00 CST		0	
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY	01/06/14 05:00 EST		0	Extreme Cold/Wind Chill
	01/07/14 15:00 EST		0	
<p>An arctic airmass took residence over the region behind a strong winter storm January 6th and 7th. West winds between 20 and 30 mph, occasionally gusting to 40 mph, created dangerous wind chill values between 30 and 45 degrees below zero. These strong winds also created significant blowing and drifting snow with roads impassable at times.</p>				
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(IN-Z009) DE KALB	01/22/14 10:15 EST		0	Winter Weather
	01/22/14 10:15 EST		0	

One person died on January 22nd in a three-vehicle accident. The accident occurred in Dekalb County around 10:15 am. Light snow was falling at the time with roads snow covered and slick.

Storm Data and Unusual Weather Phenomena - January 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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MICHIGAN, Extreme Southwest

(MI-Z077) BERRIEN, (MI-Z078) CASS

01/01/14 00:00 EST	0	0	Winter Storm
01/02/14 14:00 EST	0	0	

(MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE

01/01/14 00:00 EST	0	0	Winter Weather
01/02/14 14:00 EST	0	0	

A long duration light to moderate snow event impacted southern Michigan to start 2014. Snowfall totals ranged between 6 and 12 inches.

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE

01/04/14 18:00 EST	0	0	Winter Storm
01/06/14 05:00 EST	0	0	

A deepening low pressure system tracking northeast through Kentucky and Ohio brought heavy snow and blizzard-like conditions to the region on January 5th. Total snow accumulations ranged between 10 and 20 inches, while 30 to 40 mph wind gusts late in the day resulted in significant blowing and drifting snow.

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE

01/06/14 05:00 EST	0	0	Extreme Cold/Wind Chill
01/07/14 15:00 EST	0	0	

An arctic airmass took residence over the region behind a strong winter storm January 6th and 7th. West winds between 20 and 30 mph, occasionally gusting to 40 mph, created dangerous wind chill values between 30 and 45 degrees below zero. These strong winds also created significant blowing and drifting snow with roads impassable at times.

OHIO, Northwest

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN

01/01/14 00:00 EST	0	0	Winter Weather
01/02/14 20:00 EST	0	0	

A long duration light to moderate snow event impacted northwest Ohio to start 2014. Snowfall totals ranged between 3 and 6 inches south of Highway 30 to between 6 and 10 inches north of Highway 30.

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN

01/05/14 07:00 EST	0	0	Winter Storm
01/06/14 05:00 EST	0	0	

A deepening low pressure system tracking northeast through Kentucky and central Ohio brought heavy snow and blizzard-like conditions to the region on January 5th. Total snow accumulations ranged between 6 and 12 inches, while 25 to 35 mph wind gusts late in the day resulted in significant blowing and drifting snow.

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN

01/06/14 05:00 EST	0	0	Extreme Cold/Wind Chill
01/07/14 15:00 EST	0	0	

An arctic airmass took residence over the region behind a strong winter storm January 6th and 7th. West winds between 20 and 30 mph, occasionally gusting to 40 mph, created dangerous wind chill values between 30 and 45 degrees below zero. These strong winds also created significant blowing and drifting snow with roads impassable at times.

Storm Data and Unusual Weather Phenomena - February 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z013) PULASKI, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z018) ALLEN, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z033) BLACKFORD, (IN-Z034) JAY				
	02/01/14 00:00 CST	0		Winter Weather
	02/01/14 20:00 CST	0		
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z013) PULASKI, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z018) ALLEN, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z033) BLACKFORD, (IN-Z034) JAY				
	02/01/14 00:00 EST	0		Winter Weather
	02/02/14 07:00 EST	0		
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(IN-Z005) ELKHART, (IN-Z012) STARKE, (IN-Z014) MARSHALL, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT				
	02/01/14 00:00 EST	0		Winter Storm
	02/02/14 06:00 EST	0		
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A wintry mix of heavy wet snow, sleet, and rain occurred over northern Indiana February 1st into early February 2nd as several upper level disturbances tracked northeast along a frontal boundary draped across the region. Snow and sleet accumulations varied across the area, ranging between 2 and 8 inches.				
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(IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY				
	02/04/14 16:00 EST	0		Winter Storm
	02/05/14 13:00 EST	0		
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH				
	02/04/14 19:00 CST	0		Winter Weather
	02/05/14 13:00 CST	0		
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH				
	02/04/14 19:00 EST	0		Winter Weather
	02/05/14 13:00 EST	0		
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Snow, heavy at times, overspread northern Indiana late in the day on February 4th and continued into the early afternoon hours of February 5th as low pressure tracked northeast into southern Ohio. Total snow accumulations ranged between 6 and 13 inches.				
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS				
	02/17/14 14:00 CST	0		Winter Weather
	02/18/14 04:00 CST	0		
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(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS				
	02/17/14 14:00 EST	0		Winter Weather
	02/18/14 04:00 EST	0		
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An intense upper level disturbance brought a quick burst of snow and strong winds to northern Indiana late in the afternoon on February 17th into the early morning hours of February 18th. Snowfall accumulations ranged between 2 and 6 inches.				
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MICHIGAN, Extreme Southwest				
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(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE				
	02/01/14 00:00 EST	0		Winter Weather
	02/01/14 19:00 EST	0		

Storm Data and Unusual Weather Phenomena - February 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A period of heavy wet snow, mixed with sleet, occurred Friday late January 31st into February 1st as several upper level disturbances tracked northeast along a frontal boundary draped across the region. Snow and sleet amounts ranged between 3 and 6 inches.

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH

	02/04/14 20:00 EST	0	0	Winter Weather
	02/05/14 13:00 EST	0	0	

(MI-Z080) BRANCH, (MI-Z081) HILLSDALE

	02/04/14 20:00 EST	0	0	Winter Storm
	02/05/14 13:00 EST	0	0	

Snow, moderate to heavy at times, overspread southern Michigan late in the day on February 4th and continued into the early afternoon hours of February 5th as low pressure tracked northeast into southern Ohio. Total snow accumulations ranged between 5 and 9 inches.

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE

	02/17/14 13:00 EST	0	0	Winter Weather
	02/18/14 04:00 EST	0	0	

An intense upper level disturbance brought a relatively quick burst of snow and strong winds to southern Michigan late in the afternoon on February 17th into the early morning hours of February 18th. Snowfall accumulations ranged between 3 and 6 inches.

OHIO, Northwest

(OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z025) ALLEN

	02/01/14 22:00 EST	0	0	Winter Weather
	02/02/14 07:00 EST	0	0	

(OH-Z024) VAN WERT

	02/01/14 22:00 EST	0	0	Winter Storm
	02/02/14 06:00 EST	0	0	

A quick 3 to 7 inches of heavy wet snow fell late February 1st into early February 2nd behind a cold front.

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN

	02/04/14 16:00 EST	0	0	Winter Storm
	02/05/14 13:00 EST	0	0	

Snow, heavy at times, overspread northwest Ohio late in the day on February 4th and continued into the early afternoon hours of February 5th as low pressure tracked northeast into southern Ohio. Total snow accumulations ranged between 7 and 10 inches.

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT

	02/17/14 17:00 EST	0	0	Winter Weather
	02/18/14 04:00 EST	0	0	

An intense upper level disturbance brought a relatively quick burst of snow and strong winds to northwest Ohio late in the afternoon on February 17th into the early morning hours of February 18th. Snowfall accumulations ranged between 2 and 6 inches.

Storm Data and Unusual Weather Phenomena - March 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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INDIANA, Northeast

(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS				
	03/12/14 04:00 CST		0	Winter Storm
	03/12/14 12:00 CST		0	

(IN-Z003) LA PORTE, (IN-Z004) ST. JOSEPH, (IN-Z005) ELKHART, (IN-Z006) LAGRANGE, (IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z012) STARKE, (IN-Z013) PULASKI, (IN-Z014) MARSHALL, (IN-Z015) FULTON, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z026) WELLS, (IN-Z027) ADAMS				
	03/12/14 04:00 EST		0	Winter Storm
	03/12/14 14:00 EST		0	

(IN-Z020) WHITE, (IN-Z022) CASS, (IN-Z032) GRANT, (IN-Z033) BLACKFORD, (IN-Z034) JAY				
	03/12/14 05:00 EST		0	Winter Weather
	03/12/14 14:00 EST		0	

A quick-hitting heavy wet snow event affected northern Indiana during the morning and early afternoon hours of March 12th as deepening low pressure tracked east through the Ohio River Valley. Total snow accumulations generally ranged between 4 and 9 inches.

MICHIGAN, Extreme Southwest

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH, (MI-Z080) BRANCH, (MI-Z081) HILLSDALE				
	03/12/14 02:00 EST		0	Winter Storm
	03/12/14 12:00 EST		0	

A quick-hitting heavy wet snow event affected southern Lower Michigan during the morning and early afternoon hours of March 12th as deepening low pressure tracked east through the Ohio River Valley. Total snow accumulations generally ranged between 5 and 6 inches.

OHIO, Northwest

(OH-Z024) VAN WERT				
	03/05/14 14:55 EST		0	Winter Weather
	03/05/14 14:55 EST		0	

A fatal accident occurred on March 5th in northeastern Van Wert County. Roads were snow covered and slick at the time from light snow that had been falling.

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN				
	03/12/14 05:00 EST		0	Winter Storm
	03/12/14 15:00 EST		0	

A quick-hitting heavy wet snow event affected northwest Ohio during the morning and early afternoon hours of March 12th as deepening low pressure tracked east through the Ohio River Valley. Total snow accumulations generally ranged between 5 and 9 inches.

Storm Data and Unusual Weather Phenomena - May 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
KOSCIUSKO COUNTY --- 2.8 N NORTH WEBSTER [41.36, -85.70]				
	05/09/14 16:41 EST	0		Hail (0.75 in)
	05/09/14 16:42 EST	0		Source: Official NWS Observations
A few hail pieces to the size of dimes were blown by wind gusts to 50 mph were estimated at the NWS office near North Webster.				
HUNTINGTON COUNTY --- 0.7 N ANDREWS [40.86, -85.60]				
	05/09/14 17:03 EST	0		Thunderstorm Wind (EG 55 kt)
	05/09/14 17:04 EST	0		Source: Emergency Manager
Emergency management officials reported a tree blown down in the 300 block of North Main Street.				
HUNTINGTON COUNTY --- 1.3 ESE MAKIN [40.96, -85.56]				
	05/09/14 17:11 EST	0		Thunderstorm Wind (EG 55 kt)
	05/09/14 17:12 EST	0		Source: Emergency Manager
Emergency management officials reported a tree was down onto State Route 5 blocking one of the lanes, between County Roads 900 and 1000 North.				
ALLEN COUNTY --- 0.5 E NEW HAVEN [41.07, -85.01]				
	05/09/14 17:40 EST	0		Thunderstorm Wind (EG 52 kt)
	05/09/14 17:41 EST	0		Source: Trained Spotter
A trained spotter estimated wind gust to 60 mph.				
NOBLE COUNTY --- 0.9 SE KENDALLVILLE [41.44, -85.26]				
	05/09/14 17:40 EST	0		Hail (0.75 in)
	05/09/14 17:41 EST	0		Source: Public
CASS COUNTY --- 0.7 S NEW WAVERLY [40.76, -86.18]				
	05/09/14 18:52 EST	0		Hail (1.00 in)
	05/09/14 18:53 EST	0		Source: Trained Spotter
A trained spotter reported a large amount of hail with several pieces up to the size of quarters near the intersection of Old and New US 24.				
MIAMI COUNTY --- 0.5 E RIDGEVIEW [40.77, -86.07]				
	05/09/14 19:00 EST	0		Hail (0.88 in)
	05/09/14 19:01 EST	0		Source: Public
A slow moving frontal boundary was draped across portions of northern Indiana. Cloud cover through much of the day limited instability until late afternoon when around 1000 j/kg of CAPE was available and shear profiles were adequate. Thunderstorms developed in western portions of Indiana and moved east but remained below severe limits. As outflow boundaries and pockets of increased heating occurred a few storms were able to strengthen enough to produce isolated larger hail or stronger wind gusts. The Fort Wayne airport did record a 49 KT (56 MPH) wind gust.				
LA PORTE COUNTY --- 0.7 S MICHIGAN CITY [41.71, -86.90]				
	05/11/14 18:26 CST	0		Thunderstorm Wind (EG 55 kt)
	05/11/14 18:27 CST	0		Source: Law Enforcement
Law enforcement officials reported trees down in Michigan City as well as near Westville on County Line Road . Numerous power outages were also reported.				
A long lived complex of thunderstorms moved out of Illinois into western Indiana. The storms began to weaken as they entered the area, but not before causing some tree damage in La Porte County.				
NOBLE COUNTY --- ROME CITY [41.50, -85.38]				
	05/13/14 12:20 EST	0		Thunderstorm Wind (EG 55 kt)
	05/13/14 12:21 EST	0		Source: Public
The public reported a tree was blown down onto State Route 9, partially blocking the road.				

Storm Data and Unusual Weather Phenomena - May 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A cold front moved through the region during the afternoon and evening hours. Abundant sunshine allowed for the unstable conditions. However a poorly sheared environment limited the overall threat. Isolated wind damage reports were noted.				
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LA PORTE COUNTY --- 0.7 N UNION MILLS ARPT [41.48, -86.78]	05/20/14 21:21 CST	0		Thunderstorm Wind (EG 55 kt)
	05/20/14 21:22 CST	0		Source: State Official
State police reported a tree was blown down onto County Road 1000 South.				
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MARSHALL COUNTY --- 0.5 E PLYMOUTH [41.35, -86.31]	05/20/14 23:00 EST	0		Thunderstorm Wind (EG 55 kt)
	05/20/14 23:01 EST	0		Source: Broadcast Media
Local media reported a tree was blown down onto a residence on Baker Street.				
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ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]	05/21/14 02:00 EST	0		Hail (0.75 in)
	05/21/14 02:01 EST	0		Source: Emergency Manager
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ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]	05/21/14 02:30 EST	0		Hail (0.75 in)
	05/21/14 02:31 EST	0		Source: Emergency Manager
<hr/>				
STEBEN COUNTY --- 1.0 W SALEM CENTER [41.58, -85.17]	05/21/14 02:40 EST	0		Hail (1.25 in)
	05/21/14 02:41 EST	0		Source: Public
The public reported hail was covering the ground with sizes ranging from pea to half dollar.				
<hr/>				
STEBEN COUNTY --- 1.4 S WILDWOOD [41.58, -85.18]	05/21/14 02:40 EST	0		Hail (1.00 in)
	05/21/14 02:41 EST	0		Source: Trained Spotter
<hr/>				
STEBEN COUNTY --- 2.7 ENE SALEM CENTER [41.59, -85.10]	05/21/14 02:47 EST	0		Hail (0.88 in)
	05/21/14 02:48 EST	0		Source: CoCoRaHS
<hr/>				
STEBEN COUNTY --- 2.1 W MOONLIGHT BAY [41.58, -85.07]	05/21/14 02:52 EST	20K		Hail (1.00 in)
	05/21/14 02:53 EST	0		Source: Broadcast Media
Broadcast media reported hail damaged a vehicle, as well as siding and window screens on a home. Damage is estimated at \$20,000.				
<hr/>				
STEBEN COUNTY --- 0.5 E MOONLIGHT BAY [41.58, -85.02]	05/21/14 02:55 EST	0		Hail (0.75 in)
	05/21/14 02:56 EST	0		Source: Trained Spotter
<hr/>				
STEBEN COUNTY --- 1.0 E STEUBENVILLE [41.53, -85.00]	05/21/14 02:58 EST	0		Hail (0.88 in)
	05/21/14 02:59 EST	0		Source: Trained Spotter
<hr/>				
DE KALB COUNTY --- 0.9 NE BUTLER [41.44, -84.86]	05/21/14 03:32 EST	0		Hail (0.88 in)
	05/21/14 03:33 EST	0		Source: Public

A weak upper level system moved across the region with abundant moisture in place. While CAPE was sufficient for thunderstorms development, shear was somewhat lacking resulting in storms more of a pulse nature. Storms attempted to organize somewhat courtesy of several outflow boundary interactions. Isolated wind and hail reports were noted.

Storm Data and Unusual Weather Phenomena - May 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FULTON COUNTY --- ATHENS [41.05, -86.13]				
	05/26/14 17:30 EST		0	Thunderstorm Wind (EG 55 kt)
	05/26/14 17:31 EST		0	Source: Public

The public reported an area of uprooted trees in Athens with smaller tree branches also down in the area.

A moderately unstable, but poorly sheared environment was in place across the region. A weak disturbance aided in widely scattered thunderstorms. One thunderstorm produced localized wind damage in northern Indiana.

ALLEN COUNTY --- 0.5 W (FWA)BAER FLD FT WAY [40.98, -85.19]				
	05/27/14 19:04 EST		0	Thunderstorm Wind (MG 55 kt)
	05/27/14 19:05 EST		0	Source: ASOS

The automated weather station at Fort Wayne International Airport recorded a 63 mph wind gust during the collapse of a thunderstorm over the field.

An unstable atmosphere allowed for isolated thunderstorms to develop. While overall conditions were not conducive to an increased risk of severe weather, one thunderstorm produced local winds over 60 mph at a local airport as it collapsed.

LAKE MICHIGAN

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]				
	05/11/14 19:40 EST		0	Marine Thunderstorm Wind (MG 53 kt)
	05/11/14 19:41 EST		0	Source: C-MAN Station

A marine weather station recorded a 61 mph wind gust as severe thunderstorms came onshore.

A complex of thunderstorms moved out of Illinois into southern Lake Michigan. As the storms came onshore wind gusts of over 60 mph were recorded.

OHIO, Northwest

PAULDING COUNTY --- 1.0 W JUNCTION [41.20, -84.47]				
	05/09/14 18:10 EST		0	Thunderstorm Wind (EG 55 kt)
	05/09/14 18:11 EST		0	Source: Law Enforcement

Law enforcement officials reported trees were blown down on County Road T218 between T143 and T149.

A slow moving frontal boundary was draped across portions of northwestern Ohio. Strong thunderstorms moved out of Allen County in Indiana into portions of northwest Ohio and did produce isolated wind damage.

HENRY COUNTY --- 0.5 W MC CLURE [41.37, -83.94]				
	05/13/14 15:51 EST		0	Thunderstorm Wind (EG 60 kt)
	05/13/14 15:52 EST		0	Source: Emergency Manager

Emergency management officials reported a large tree was uprooted towards the northeast on Summit Street, between Main and State Route 65.

A cold front moved through the region during the afternoon and evening hours. Abundant sunshine allowed for the unstable conditions. However a poorly sheared environment limited the overall threat. Isolated wind damage reports were noted.

ALLEN COUNTY --- 0.8 SW BLUFFTON ARPT [40.87, -83.88], 3.9 N MAYSVILLE [40.79, -83.88], 2.6 N LIMA [40.79, -84.10], 0.5 W CAIRO [40.83, -84.09], 3.6 N CAIRO [40.88, -84.08]				
	05/28/14 17:03 EST		0.10M	Flash Flood (due to Heavy Rain)
	05/28/14 19:30 EST		0	Source: County Official

Sheriff department officials reported extensive flooding in several areas north of U.S. 30, especially around Cairo and Beavertown. Water up to 1 foot deep was flowing over several roadways. Flash flooding occurred across Interstate 75, south of Mile Marker 138, resulting in closure of the Interstate in both directions. Pictures were also received of high flowing water near the intersection of Hillville Road and Stewart Road, north of Cairo. While no specific details were available, local media reported eight to 10 households suffered serious flooding problems. In addition, the Cairo Branch of the Lima Public Library suffered water damage as six inches of water entered the building. Hundreds of books were ruined as a result. The threat for life threatening flash flooding ended during the mid-evening hours, but high water remained in several areas into the overnight hours of the 29th.

Storm Data and Unusual Weather Phenomena - May 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A weak trough was located across northwestern Ohio during the afternoon and evening hours. A moist, but marginally unstable atmosphere allowed for thunderstorms to develop and remain relatively stationary over the same areas. Local rainfall amounts of 2 to as much as over 6 inches fell across mainly Allen County, resulting in flash flooding. The flash flooding resulted in a small portion of Interstate 75 being closed due to high water.

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]				
	06/17/14 19:06 EST		0	Hail (0.88 in)
	06/17/14 19:07 EST		0	Source: Public
The public reported hail to the size of nickels just north of North Liberty on State Route 23.				
ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]				
	06/17/14 19:13 EST		0	Hail (1.75 in)
	06/17/14 19:14 EST		0	Source: Amateur Radio
Amateur radio operators relayed reports of hail ranging from the size of quarters to golf balls in an area from North Liberty to three miles north of North Liberty.				
ST. JOSEPH COUNTY --- 1.4 N NORTH LIBERTY [41.55, -86.43]				
	06/17/14 19:45 EST		0	Hail (1.25 in)
	06/17/14 19:46 EST		0	Source: Trained Spotter
A trained spotter reported half dollar size hail north of North Liberty.				
ST. JOSEPH COUNTY --- 0.5 E (SBN)MICHIANA ARPT S [41.70, -86.31]				
	06/17/14 20:11 EST		0	Hail (0.88 in)
	06/17/14 20:12 EST		0	Source: Trained Spotter
A trained spotter reported nickel sized hail.				
A highly unstable atmosphere was in place across the area with Most Unstable CAPES in excess of 4000 j/kg. Effective shear was sufficient, but on the lower end with 30 to 40 knots in the wake of a departing upper wave. A large elevated mixed layer helped keep most convection suppressed. A weak boundary was in place across northern parts of Indiana from earlier convection. A lake breeze from Lake Michigan developed and moved inland across LaPorte County, interacting with this the boundary and causing an isolated storm to eventually increase in intensity. Isolated large hail was noted with pockets of locally heavy rain.				
ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]				
	06/18/14 12:56 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 12:57 EST		0	Source: Public
The public reported a tree was blown down onto County Road 4.				
ST. JOSEPH COUNTY --- 0.9 SE MISHAWAKA [41.66, -86.16]				
	06/18/14 13:10 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:11 EST		0	Source: Trained Spotter
A trained spotter reported several trees down.				
ST. JOSEPH COUNTY --- 0.5 W GLENWOOD [41.67, -86.08]				
	06/18/14 13:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:21 EST	1	0	Source: Broadcast Media
Local media reported a tree was blown down onto a van. The female driver was extricated from the van, suffering from minor injuries.				
ST. JOSEPH COUNTY --- 0.9 SE MISHAWAKA [41.66, -86.16]				
	06/18/14 13:23 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:24 EST		0	Source: Law Enforcement
Law enforcement officials reported numerous trees and utility lines down across much of the eastern half of the county.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	06/18/14 13:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:26 EST		0	Source: Public

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The public reported a tree was blown down onto a home.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	06/18/14 13:29 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:30 EST		0	Source: Newspaper
Local newspapers reported trees and power lines were blown down across Elkhart.				
MARSHALL COUNTY --- INWOOD [41.32, -86.20]				
	06/18/14 13:34 EST		0	Thunderstorm Wind (EG 56 kt)
	06/18/14 13:35 EST		0	Source: Public
The public estimated wind gusts in the 60 to 65 mph range.				
ELKHART COUNTY --- 2.6 NNE FORAKER [41.55, -85.91]				
	06/18/14 13:38 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:39 EST		0	Source: Trained Spotter
A trained spotter reported large branches down on County Road 15, north of County Road 38.				
ELKHART COUNTY --- 0.5 E WATERFORD MILLS [41.55, -85.82]				
	06/18/14 13:40 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:41 EST		0	Source: Trained Spotter
A trained spotter reported a large tree fell onto a car. No details on the occupants were available.				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]				
	06/18/14 13:42 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:43 EST		0	Source: Emergency Manager
Emergency management officials reported multiple trees and tree limbs down across the city.				
ELKHART COUNTY --- 2.6 E GOSHEN [41.58, -85.78]				
	06/18/14 13:50 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:51 EST		0	Source: Amateur Radio
Amateur radio operators reported two small pear trees were blown down.				
LAGRANGE COUNTY --- 0.7 S SHIPSHAWANA [41.67, -85.58]				
	06/18/14 13:50 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:51 EST		0	Source: Public
The public reported multiple trees down across the area.				
KOSCIUSKO COUNTY --- 1.3 WNW WARSAW [41.24, -85.85]				
	06/18/14 13:53 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:54 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree was blown down onto Wooster Road.				
KOSCIUSKO COUNTY --- 0.7 S MILFORD [41.41, -85.85]				
	06/18/14 14:02 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:03 EST		0	Source: Law Enforcement
Law enforcement officials reported utility lines were blown down.				
KOSCIUSKO COUNTY --- 0.5 E REDMOND PARK [41.38, -85.77]				
	06/18/14 14:11 EST		0	Thunderstorm Wind (EG 60 kt)
	06/18/14 14:12 EST		0	Source: Emergency Manager
Emergency management officials reported a tree was uprooted onto power lines in the Dewart Lake area.				

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAGRANGE COUNTY --- 1.7 ESE PLATO [41.64, -85.30]				
	06/18/14 14:18 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:19 EST		0	Source: Emergency Manager
Emergency management officials reported utility lines and poles down at County Road 600 East and 100 South.				
LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]				
	06/18/14 14:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:21 EST		0	Source: Emergency Manager
Emergency management officials reported several large trees limbs were down across the county.				
NOBLE COUNTY --- 1.3 WNW INDIAN VLG [41.38, -85.65]				
	06/18/14 14:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:21 EST		0	Source: NWS Employee
A NWS employee reported a small tree was blown down at their residence.				
STEBEN COUNTY --- 0.5 E MOONLIGHT BAY [41.58, -85.02]				
	06/18/14 14:30 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:31 EST		0	Source: Emergency Manager
Emergency management officials reported utility lines down in the area. A horse stall was reported blown over.				
DE KALB COUNTY --- BUTLER [41.43, -84.87]				
	06/18/14 14:45 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 14:46 EST		0	Source: Emergency Manager
Emergency management officials reported trees and utility line down from Corunna to Butler.				
DE KALB COUNTY --- BUTLER [41.43, -84.87]				
	06/18/14 15:00 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:01 EST		0	Source: Emergency Manager
Emergency management officials reported a tree was blown down onto a residence.				
ALLEN COUNTY --- 1.3 WNW WAYNE DALE [41.03, -85.20]				
	06/18/14 15:15 EST		0	Thunderstorm Wind (MG 52 kt)
	06/18/14 15:16 EST		0	Source: Trained Spotter
A trained spotter measured a 60 mph wind gust just east of the Fort Wayne International Airport.				
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	06/18/14 15:20 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:21 EST		0	Source: Broadcast Media
Local media reports trees and utility lines are down near the intersection of Coliseum and Anthony Blvd.				
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	06/18/14 15:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:26 EST		0	Source: Trained Spotter
A trained spotter reported a medium size tree being split by the strong winds with a portion of it on the ground.				
ALLEN COUNTY --- 0.9 SW CONCORDIA GARDENS [41.11, -85.11]				
	06/18/14 15:25 EST		0	Thunderstorm Wind (EG 60 kt)
	06/18/14 15:26 EST		0	Source: Public
The public reported a large tree snapped at the base.				
ADAMS COUNTY --- 0.5 E PREBLE [40.83, -85.01]				

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/18/14 15:49 EST		0	Thunderstorm Wind (MG 54 kt)
	06/18/14 15:50 EST		0	Source: Trained Spotter

A trained spotter measured a wind gust to 62 mph.

ADAMS COUNTY --- 0.9 NW DECATUR [40.84, -84.94]

	06/18/14 15:53 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 15:54 EST		0	Source: Emergency Manager

A tree was reported blown down one mile northwest of Decatur by emergency management officials.

WHITE COUNTY --- 0.5 W MONTICELLO [40.75, -86.76]

	06/18/14 21:52 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 21:53 EST		0	Source: State Official

Law enforcement officials reported trees down across the county.

CASS COUNTY --- 0.7 S LAKE CICOTT [40.76, -86.52]

	06/18/14 21:57 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 21:58 EST		0	Source: Emergency Manager

Emergency management officials reported trees were blown down near US-24 and County Road 800 West in Lake Cicott.

MIAMI COUNTY --- PERU [40.75, -86.07]

	06/18/14 22:30 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 22:31 EST		0	Source: Emergency Manager

Emergency management officials reported a tree was blown down onto power lines.

GRANT COUNTY --- 1.5 NNW UPLAND [40.49, -85.49]

	06/19/14 03:27 EST		0	Thunderstorm Wind (EG 50 kt)
	06/19/14 03:28 EST		0	Source: State Official

Law enforcement officials reported a tree was blown down onto a power line.

Strong mesoscale convective vortex (MCV) moved out of northern Illinois into northern Indiana, with a line of thunderstorms trailing the feature. An outflow boundary moved south out of Lower Michigan into the area. These features entered an unstable atmosphere, with upwards of 4000 j/kg of CAPE across far northern Indiana. Numerous storms developed across the area and moved east. Sporadic wind damage was reported with the largely outflow dominant north-south line of storms as it moved across the area. The greatest concentration of damage occurred across St. Joseph and Elkhart counties where some minor injuries were reported as tree limbs fell onto vehicles.

LA PORTE COUNTY --- 1.0 E TRACY [41.48, -86.66]

	06/23/14 14:43 CST		0	Thunderstorm Wind (EG 50 kt)
	06/23/14 14:44 CST		0	Source: Public

The public reported at least one large tree limb and scattered tree limbs of various sizes blown down by the strong winds.

NOBLE COUNTY --- 2.9 WSW LAOTTO [41.26, -85.25]

	06/23/14 16:35 EST		0	Thunderstorm Wind (EG 55 kt)
	06/23/14 16:36 EST		0	Source: Broadcast Media

Local media reported some roof and panel damage to a barn as well as some tree damage.

ALLEN COUNTY --- 1.5 NNW HUGO [41.07, -85.19]

	06/23/14 16:43 EST		0	Hail (0.75 in)
	06/23/14 16:44 EST		0	Source: Trained Spotter

Weak surface low pressure was centered in the western Great Lakes. While some upper level support was entering the region, shear profiles kept thunderstorms somewhat disorganized. A few clusters of thunderstorms took on bowing characteristics, causing small areas of wind damage.

LA PORTE COUNTY --- 0.5 E SPRINGVILLE [41.68, -86.72]

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/30/14 19:26 CST		0	Thunderstorm Wind (EG 52 kt)
	06/30/14 19:27 CST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 60 mph.				
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LA PORTE COUNTY --- 0.7 S MICHIGAN CITY [41.71, -86.90]				
	06/30/14 19:30 CST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 19:31 CST		0	Source: Public
The public reported a two foot diameter tree being snapped at the base.				
<hr/>				
LA PORTE COUNTY --- 1.2 SW MILL CREEK [41.57, -86.55]				
	06/30/14 19:44 CST		0	Thunderstorm Wind (EG 50 kt)
	06/30/14 19:45 CST		0	Source: Public
The public reported downed tree limbs and power lines.				
<hr/>				
ST. JOSEPH COUNTY --- 0.5 E NEW CARLISLE [41.70, -86.51]				
	06/30/14 20:50 EST		0	Hail (1.25 in)
	06/30/14 20:51 EST		0	Source: Public
The public reported hail from the size of quarters to nearly half dollars.				
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ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	06/30/14 20:55 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 20:56 EST		0	Source: State Official
Law enforcement officials reported trees and power lines down on the west side of South Bend, especially in the Edison Road area.				
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LA PORTE COUNTY --- 0.8 SE PINHOOK [41.56, -86.86], 1.1 ESE PINHOOK [41.56, -86.85]				
	06/30/14 22:11 CST		0	Tornado (EF1, L: 0.26 mi , W: 200 yd)
	06/30/14 22:12 CST		0	Source: NWS Storm Survey
A NWS storm survey of damage confirmed a brief tornado reaching EF 1 intensity near Pinhook. Severe tree damage occurred at a cluster of residences on the southwest side of the intersection of US-2 and South Wozniak Road. Several large trees, some over 50 feet tall, were uprooted or twisted. A 2 story 25 foot by 60 foot barn was destroyed with the debris thrown to the northeast. The tornado continued quickly south causing additional tree damage before rapidly dissipating. Maximum winds are estimated at 105 mph.				
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LA PORTE COUNTY --- 0.5 E SPRINGVILLE [41.68, -86.72]				
	06/30/14 22:18 CST		0	Thunderstorm Wind (EG 61 kt)
	06/30/14 22:19 CST		0	Source: Trained Spotter
A trained spotter estimated winds to 70 mph.				
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LA PORTE COUNTY --- 1.4 SE SOUTH LA PORTE [41.56, -86.73], 2.2 SW MONROE MANOR [41.56, -86.70]				
	06/30/14 22:22 CST		0	Thunderstorm Wind (EG 74 kt)
	06/30/14 22:23 CST		0	Source: NWS Storm Survey
A survey of damage was performed north of Kingsbury along and either side of US -35. A detached garage was destroyed at a residence. A swath of corn, at least a quarter mile wide, was completely flattened adjacent to this building. Winds were estimated in the 80 to 85 mph range.				
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LA PORTE COUNTY --- 2.2 ENE UNION MILLS ARPT [41.48, -86.74], 2.6 E TRACY [41.48, -86.63]				
	06/30/14 22:22 CST		0	Thunderstorm Wind (EG 70 kt)
	06/30/14 22:27 CST		0	Source: NWS Storm Survey
A NWS survey of damage in the Kingsford Heights area revealed a microburst began just to the west of the town and expanded east. An area of trees was found either snapped or uprooted in an easterly direction through Kingsford Heights. This swath of wind expanded in width and eventually spawned a EF-1 tornado east of town. The straight line winds were estimated at around 80 mph.				
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LA PORTE COUNTY --- 0.2 WSW TRACY [41.48, -86.68], 2.5 SSW DILLON [41.48, -86.59]				
	06/30/14 22:24 CST		0	Tornado (EF1, L: 4.72 mi , W: 200 yd)
	06/30/14 22:28 CST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A NWS survey of damage east of Kingsford Heights revealed damage consistent with a tornado, embedded within a larger swath of straight line winds. The tornado tracked rapidly east through mainly wooded areas causing widespread snapped or uprooted trees along its path. Trees fell onto several homes, especially along South County Road 300 East. Maximum winds were estimated at around 95 mph.

STARKE COUNTY --- 3.4 NW HAMLET [41.42, -86.64], 2.6 WNW KOONTZ LAKE [41.43, -86.55]

	06/30/14 22:25 CST	0	0	Tornado (EF1, L: 4.93 mi, W: 400 yd)
	06/30/14 22:28 CST	0	0	Source: NWS Storm Survey

A NWS storm survey confirmed damage consistent with a EF1 tornado touching down near the intersection of North County Road 300 East and East County Road 800 North. Extensive tree damage occurred along the track with several trees falling onto homes. A barn was destroyed near County Road 700 East and Robbins Road. Multiple center pivot irrigation systems were flipped. Maximum winds were estimated around 100 mph.

STARKE COUNTY --- 1.6 W KOONTZ LAKE [41.42, -86.53], 1.1 NE KOONTZ LAKE LAKE [41.43, -86.47]

	06/30/14 22:29 CST	0	0	Tornado (EF1, L: 3.43 mi, W: 400 yd)
	06/30/14 22:32 CST	0	0	Source: NWS Storm Survey

A NWS survey of damage confirmed a strong EF1 tornado traveled across mainly wooded areas of far northeastern Starke county. Touchdown occurred along County Road 800 east of County Road 850 East where several trees suffered limb damage. The tornado continued towards the northeast and slowly gained strength and reached peak intensity as it approached and crossed into Marshall county north of Koontz Lake. A quarter mile swath of healthy 18 to 24 inch diameter trees were snapped and uprooted (DI: TH DOD: 4). Maximum winds were estimated at around 110 mph. The total distance the tornado was on the ground across Starke and Marshall counties was 4.9 miles.

PULASKI COUNTY --- 1.0 E WINAMAC [41.05, -86.60]

	06/30/14 22:30 CST	0	0	Thunderstorm Wind (EG 65 kt)
	06/30/14 22:31 CST	0	0	Source: State Official

Law enforcement officials reported numerous trees down across northern parts of the county, especially north of Winamac.

LA PORTE COUNTY --- 1.5 WNW BELFAST [41.63, -86.76]

	06/30/14 22:37 CST	0	0	Thunderstorm Wind (EG 60 kt)
	06/30/14 22:38 CST	0	0	Source: Public

The public reported several trees and tree limbs down around Pine Lake.

MARSHALL COUNTY --- 3.5 WNW TYNER [41.43, -86.47], 2.5 WNW TYNER [41.44, -86.44]

	06/30/14 23:32 EST	0	0	Tornado (EF1, L: 1.42 mi, W: 400 yd)
	06/30/14 23:33 EST	0	0	Source: NWS Storm Survey

A NWS storm survey confirmed a strong EF1 tornado exited Starke county, north of Koontz Lake along County Line Road and Starke County Road 900 North where extensive tree damage occurred. As the tornado moved northeast it weakened, producing more sporadic areas of tree damage before dissipating in a grove of trees just east of Union Road. The tornado traveled a total of 4.9 miles across Starke and Marshall counties. Maximum winds were estimated at around 110 mph near the county line.

MARSHALL COUNTY --- 1.7 SSE DONALDSON [41.35, -86.44], 0.9 NNE PLYMOUTH [41.36, -86.31]

	06/30/14 23:35 EST	0	0	Tornado (EF1, L: 6.85 mi, W: 150 yd)
	06/30/14 23:42 EST	0	0	Source: NWS Storm Survey

A NWS storm survey found damage consistent with an EF-1 tornado. The tornado touched down just south of Donaldson where it caused extensive damage to hardwood trees. The tornado moved east and heavily damaged two residences on a farm on Sycamore Road, just south of the railroad tracks. The tornado continued to produce extensive tree damage as it tracked east-northeast into Plymouth to south of the Lear Corporation. Several trees were either topped or snapped with an empty semi-trailer being flipped. The tornado continued northeast with widespread mixed hardwood and softwood trees being snapped and minor structural damage to the Behavior Science Building on North Oak road. The tornado caused partial uplift of the northwest side of the roof and collapsed the interior cinder block wall on the east side of the Department of Transportation garage, just south of US-30 before lifting. Maximum winds were estimated at 105 mph.

MARSHALL COUNTY --- 0.8 SE PLYMOUTH MUNI ARPT [41.36, -86.29], 0.8 SE PLYMOUTH MUNI ARPT [41.36, -86.29]

	06/30/14 23:41 EST	0	0	Tornado (EF1, L: 0.16 mi, W: 50 yd)
	06/30/14 23:42 EST	0	0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A NWS storm survey confirmed a brief EF-1 tornado touched down near the intersection of Lilac Road and Plymouth Goshen Trail , just northeast of Plymouth. Widespread hardwood tree damage was noted with several uprooted and snapped trees. A small shed was also flattened at a residence . As the circulation moved northeast it shifted a barn off its foundation and caused widespread tree damage in a grove of trees before lifting on the other side of the tree grove. Winds were estimated at 95 mph. While this tornado was in close proximity to the longer tracked Plymouth tornado that occurred west of US-30, it was determined by radar evidence and ground truth to be a separate circulation.				

ST. JOSEPH COUNTY --- 0.5 E (SBN)MICHIANA ARPT S [41.70, -86.31]				
	06/30/14 23:43 EST		0	Thunderstorm Wind (MG 59 kt)
	06/30/14 23:44 EST		0	Source: ASOS

The Automated Weather station at South Bend Regional Airport measured a 68 mph wind gust.

ST. JOSEPH COUNTY --- 1.5 E SOUTH BEND [41.67, -86.22]				
	06/30/14 23:43 EST		0	Thunderstorm Wind (EG 65 kt)
	06/30/14 23:44 EST		0	Source: Amateur Radio

Amateur radio operators reported several trees blown down along Greenlawn Road near the zoo.

ST. JOSEPH COUNTY --- 0.5 NE SOUTH BEND [41.67, -86.24], 1.2 WNW MISHAWAKA [41.67, -86.19]				
	06/30/14 23:45 EST		0	Thunderstorm Wind (EG 70 kt)
	06/30/14 23:47 EST		0	Source: NWS Storm Survey

A swath of damage was surveyed along Jefferson Boulevard from the St. Joseph River east to just south of Bethel College. Many trees were uprooted along this path, consistent with straight line winds estimated to 80 mph.

ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	06/30/14 23:45 EST		0	Thunderstorm Wind (EG 55 kt)
	06/30/14 23:46 EST		0	Source: Trained Spotter

A trained spotter reported tree limbs down at a residence. One landed on a vehicle. No damage estimates were available.

MARSHALL COUNTY --- 0.9 SE LAPAZ [41.46, -86.31]				
	06/30/14 23:47 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:48 EST		0	Source: Emergency Manager

Emergency management officials reported multiple trees, tree limbs, power lines and poles down across the county.

MARSHALL COUNTY --- BREMEN [41.45, -86.15]				
	06/30/14 23:52 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:53 EST		0	Source: Public

The public reported several trees down as well as at least one power pole in the Bremen area.

MARSHALL COUNTY --- 0.9 NE TIPPECANOE [41.21, -86.11]				
	06/30/14 23:54 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:55 EST		0	Source: Emergency Manager

Emergency management officials reported trees down.

A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow-echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line entered a more favorable environment with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this line raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge. There were multiple tornado confirmations and swaths of extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.

LAKE MICHIGAN

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]				
	06/23/14 15:15 EST		0	Marine Thunderstorm Wind (EG 37 kt)
	06/23/14 15:16 EST		0	Source: C-MAN Station

A wind gust to 43 mph was recorded at the Michigan City marine weather observation site.

Weak surface low pressure was centered in the western Great Lakes. Thunderstorms formed over southern Lake Michigan and then moved east onshore, causing gusty winds.

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]				
	06/30/14 20:00 EST		0	Marine Thunderstorm Wind (MG 43 kt)
	06/30/14 20:01 EST		0	Source: C-MAN Station

A 49 mph wind gust was recorded at the Michigan City GLERL station.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]				
	06/30/14 20:30 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	06/30/14 20:31 EST		0	Source: Buoy

A buoy located west of Cook Nuclear Plant recorded a 45 mph wind gust.

A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan before dissipating.

MICHIGAN, Extreme Southwest

ST. JOSEPH COUNTY --- 0.7 N THREE RIVERS [41.94, -85.63]				
	06/18/14 12:45 EST		0	Lightning
	06/18/14 12:46 EST		0	Source: Newspaper

Local media reported a lightning strike caused a fire at an apartment complex in Three Rivers . The fire was mainly confined to the attic area, but extensive smoke and water damage occurred. A fire fighter suffered minor injuries while in the building when the ceiling collapsed . No damage estimate was available.

ST. JOSEPH COUNTY --- 0.7 N MENDON [42.01, -85.45]				
	06/18/14 13:00 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:01 EST		0	Source: Emergency Manager

Emergency management officials reported a tree was blown down onto a utility line.

CASS COUNTY --- EDWARDSBURG [41.80, -86.08]				
	06/18/14 13:15 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:16 EST		0	Source: Emergency Manager

Emergency management officials reported multiple trees were blown down in town.

HILLSDALE COUNTY --- 5.1 NNE PRATTVILLE [41.85, -84.37]				
	06/18/14 13:28 EST		0	Hail (0.75 in)
	06/18/14 13:29 EST		0	Source: Public

The public reported dime size hail along US 127.

CASS COUNTY --- JONES [41.90, -85.80]				
	06/18/14 13:30 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:31 EST		0	Source: Trained Spotter

A trained spotter reported three trees were blown down, with two of them onto vehicles.

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Strong mesoscale convective vortex (MCV) moved out of northern Illinois into northern Indiana, with a line of thunderstorms trailing the feature. An outflow boundary moved south out of Lower Michigan into the area. These features entered an unstable atmosphere, with upwards of 4000 j/kg of CAPE across southern Lower Michigan. Numerous storms developed across the area and moved east. Sporadic wind damage was reported with the largely outflow dominant north-south line of storms as it moved across the area.

BERRIEN COUNTY --- 0.5 E BUCHANAN [41.83, -86.36]

06/23/14 16:10 EST		0		Thunderstorm Wind (EG 50 kt)
06/23/14 16:11 EST		0		Source: Trained Spotter

Trained spotters reported several six inch diameter tree limbs down.

CASS COUNTY --- 0.5 W DOWAGIAC [41.98, -86.11]

06/23/14 16:38 EST		0		Thunderstorm Wind (EG 56 kt)
06/23/14 16:39 EST		0		Source: Public

The public estimated wind gusts to 65 mph.

CASS COUNTY --- 0.5 W DOWAGIAC [41.98, -86.11]

06/23/14 16:38 EST		0		Thunderstorm Wind (EG 60 kt)
06/23/14 16:39 EST		0		Source: Law Enforcement

County officials reported trees and tree limbs down throughout the county.

BERRIEN COUNTY --- 1.1 SSW HARBERT [41.86, -86.64], 0.5 SW STEVENSVILLE [42.02, -86.53], 3.4 NE BERRIEN CENTER [41.98, -86.22], 2.4 ENE BERTRAND [41.78, -86.23]

06/23/14 16:39 EST		0		Flash Flood (due to Heavy Rain)
06/23/14 19:45 EST		0		Source: Emergency Manager

Water was reported on many roadways across mainly the southern half of the county . The hardest hit areas were from Stevensville to Buchanan to Niles. Some vehicles were stranded in the high water with depths of 6 inches to nearly a foot in some locations. Damage estimates were not available.

CASS COUNTY --- 0.9 SW CASSOPOLIS [41.91, -86.01]

06/23/14 16:45 EST		0		Thunderstorm Wind (EG 60 kt)
06/23/14 16:46 EST		0		Source: State Official

Law enforcement officials reported trees down across the eastern part of the county. Many roads are flooded.

ST. JOSEPH COUNTY --- 0.5 W WHITE PIGEON [41.80, -85.64]

06/23/14 17:20 EST		0		Thunderstorm Wind (EG 50 kt)
06/23/14 17:21 EST		0		Source: Amateur Radio

Amateur radio operators reported power lines down from tree limbs impacting the lines.

ST. JOSEPH COUNTY --- 0.9 NE OAKWOOD [41.79, -85.54]

06/23/14 17:25 EST		0		Thunderstorm Wind (EG 50 kt)
06/23/14 17:26 EST		0		Source: State Official

Law enforcement officials reported a tree branch down onto power lines on US 12 near Klingler Lake.

CASS COUNTY --- 3.4 NE BERRIEN CENTER [41.98, -86.22], 2.4 ENE BERTRAND [41.78, -86.23], 10.1 ESE JERRY TYLER MEML ARP [41.80, -86.05], 10.9 ENE JERRY TYLER MEML ARP [41.93, -86.05]

06/23/14 17:27 EST		0		Flash Flood (due to Heavy Rain)
06/23/14 19:45 EST		0		Source: 911 Call Center

Water was reported on many roadways across mainly the western quarter of the county . The hardest hit areas were from Dowagiac south to Niles. Some vehicles were stranded in the high water with depths of 6 inches to nearly a foot in some locations. Damage estimates were not available.

Weak surface low pressure was centered in the western Great Lakes. While some upper level support was entering the region, shear profiles kept thunderstorms somewhat disorganized. A few clusters of thunderstorms took on bowing characteristics, causing small areas of wind damage.

BERRIEN COUNTY --- 0.7 S STEVENSVILLE [42.01, -86.52]

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/30/14 20:26 EST		0	Thunderstorm Wind (EG 50 kt)
	06/30/14 20:27 EST		0	Source: Public

The public reported several tree branches down across the area.

BERRIEN COUNTY --- 0.9 NE NEW BUFFALO [41.79, -86.74]

	06/30/14 20:36 EST		0	Thunderstorm Wind (EG 55 kt)
	06/30/14 20:37 EST		0	Source: Amateur Radio

Amateur radio operators reported a handful of trees and power lines down.

BERRIEN COUNTY --- 0.9 NW BRIDGMAN [41.94, -86.56]

	06/30/14 20:37 EST		0	Hail (0.75 in)
	06/30/14 20:38 EST		0	Source: Amateur Radio

CASS COUNTY --- 1.7 WNW LA GRANGE [41.96, -86.08]

	06/30/14 20:55 EST		0	Thunderstorm Wind (EG 55 kt)
	06/30/14 20:56 EST		0	Source: Broadcast Media

Local media reported several trees were blown down, with some blocking roadways.

BERRIEN COUNTY --- 0.7 S STEVENSVILLE [42.01, -86.52]

	06/30/14 23:18 EST		0	Thunderstorm Wind (EG 55 kt)
	06/30/14 23:19 EST		0	Source: Public

The public reported tree branches and power lines down along the lake shore areas.

BERRIEN COUNTY --- 0.5 E BUCHANAN [41.83, -86.36]

	06/30/14 23:32 EST		0	Thunderstorm Wind (MG 50 kt)
	06/30/14 23:33 EST		0	Source: Trained Spotter

A trained spotter measured a 58 mph wind gust.

BERRIEN COUNTY --- 0.5 W BERRIEN SPGS [41.95, -86.34]

	06/30/14 23:55 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:56 EST		0	Source: Trained Spotter

Trained spotters reported at least 12 trees down between Berrien Springs and Stevensville.

A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow-echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line had much more favorable parameters to work with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this line raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge that lead to multiple tornado confirmations and swaths of at times extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.

OHIO, Northwest

WILLIAMS COUNTY --- 3.3 SW MONTPELIER [41.55, -84.65]

	06/18/14 15:00 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:01 EST		0	Source: Emergency Manager

Emergency management officials reported a large tree was blocking both lanes of a road southwest of Montpelier.

WILLIAMS COUNTY --- 2.1 E MELBERN [41.47, -84.61]

	06/18/14 15:01 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 15:02 EST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported a tree was blown down across a local road.				
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FULTON COUNTY --- 0.5 W WAUSEON [41.55, -84.14]	06/18/14 15:35 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:36 EST		0	Source: Trained Spotter
A trained spotter reported multiple trees were blown down.				
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WILLIAMS COUNTY --- 0.9 SW PULASKI [41.51, -84.51]	06/18/14 15:41 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:42 EST		0	Source: Emergency Manager
Emergency management officials reported a utility pole was snapped northeast of Bryan.				
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HENRY COUNTY --- TEXAS [41.42, -83.95]	06/18/14 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 15:46 EST	1	0	Source: Emergency Manager
Emergency management officials reported a tree was blown down near the intersection of County Road 424 and County Road 4A. The tree was reported to have landed on a car, but no further details were available.				
Strong mesoscale convective vortex (MCV) moved out of northern Illinois into southern Lower Michigan, with a line of thunderstorms trailing the feature. An outflow boundary moved south out of Lower Michigan into the area. These features entered an unstable atmosphere, with upwards of 4000 j/kg of CAPE across northwestern Ohio. Numerous storms developed across the area and moved east. Sporadic wind damage was reported with the largely outflow dominant north-south line of storms as it moved across the area.				
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WILLIAMS COUNTY --- 1.4 N BRYAN [41.49, -84.55]	06/23/14 12:45 EST		0	Thunderstorm Wind (EG 60 kt)
	06/23/14 12:46 EST		0	Source: Emergency Manager
Emergency management officials reported six to eight utility poles down along State Route 15.				
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WILLIAMS COUNTY --- BRYAN [41.47, -84.55]	06/23/14 12:45 EST		0	Thunderstorm Wind (EG 52 kt)
	06/23/14 12:46 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 60 mph.				
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HENRY COUNTY --- 0.7 S GERALD [41.44, -84.13]	06/23/14 13:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/23/14 13:26 EST		0	Source: Emergency Manager
Emergency management officials reported trees down near State Route 108 and County Road T.				
<hr/>				
HENRY COUNTY --- 1.2 ESE NAOMI [41.47, -84.11]	06/23/14 13:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/23/14 13:26 EST		0	Source: Emergency Manager
Emergency management officials reported trees down near County Roads V and 13.				
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VAN WERT COUNTY --- 2.9 NW MIDDLE PT [40.88, -84.47]	06/23/14 13:50 EST		0	Thunderstorm Wind (EG 50 kt)
	06/23/14 13:51 EST		0	Source: Emergency Manager
Emergency management officials investigated sightings of a funnel in the area of US 30 and east of Dog Creek Road. Five to twelve-inch diameter tree limbs were blown down and some topping of the trees was observed. Some lawn furniture was thrown several feet while others were untouched in the same area.				
Weak surface low pressure was centered in the western Great Lakes. While some upper level support was entering the region, shear profiles kept thunderstorms somewhat disorganized. A few clusters of thunderstorms took on bowing characteristics and caused small areas of wind damage.				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
ELKHART COUNTY --- 0.7 N WAKARUSA [41.54, -86.02]				
	07/01/14 00:00 EST		0	Thunderstorm Wind (MG 63 kt)
	07/01/14 00:01 EST		0	Source: Public
Wind gusts to 73 mph were recorded in the Nappanee and Wakarusa area , west of State Route 19. Six to eight inch diameter limbs and utility lines were down in the area with some corn fields laid over.				
KOSCIUSKO COUNTY --- 1.4 SSE GRAVELTON [41.41, -85.92], 0.8 W MILFORD WEISSER ARPT [41.42, -85.89]				
	07/01/14 00:06 EST		0	Tornado (EF0, L: 1.79 mi , W: 50 yd)
	07/01/14 00:08 EST		0	Source: NWS Storm Survey
A NWS survey of damage revealed a brief tornado occurred south of Gravelton . The touchdown occurred just south of County Road 1250 North and east of County Road 400 West where a large metal barn was destroyed. The tornado crossed 1250 North and went through a corn field and impacted a small barn near County Road 200 West, north of County Road 1250 North where debris was thrown into another corn field where the circulation finally lifted. Maximum winds were estimated at 80 mph.				
KOSCIUSKO COUNTY --- 1.9 NE PALESTINE [41.20, -85.92], 2.0 ENE PALESTINE [41.19, -85.92]				
	07/01/14 00:06 EST		0	Tornado (EF1, L: 0.55 mi , W: 150 yd)
	07/01/14 00:08 EST		0	Source: NWS Storm Survey
A brief EF-1 tornado was confirmed on the edge of a larger swath of damaging winds by a NWS Storm survey. The tornado touched down near a residence on South County Road 400 West where several tree trunks were snapped at the tops with 2 trees uprooted. A small barn suffered extensive roof damage and partial wall failure. The tornado quickly shifted towards the southeast, crossing State Route 25 where it began to lift. As it was lifting, over twenty 50 to 75 foot tall healthy trees were uprooted or snapped several feet in the air (DI: TS, DOD: 4). One of the trees fell onto a residence, but no injuries were reported. Maximum winds were estimated at 95 mph.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	07/01/14 00:08 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 00:09 EST		0	Source: Public
Reports of estimated wind gusts to 60 mph were received.				
WABASH COUNTY --- 3.5 NE DISKO [41.03, -85.90], 3.7 NW NORTH MANCHESTER [41.04, -85.81]				
	07/01/14 00:08 EST		0	Tornado (EF1, L: 4.49 mi , W: 150 yd)
	07/01/14 00:12 EST		0	Source: NWS Storm Survey
A NWS survey of damage indicated a tornado touched down just west of State Route 15 in a corn field with some ground scouring noted. The tornado proceeded rapidly east northeast with extensive tree and crop damage. Several farmsteads along the track suffered minor to moderate damage of structures. The tornado crossed into Kosciusko County east of County Road 100 West. Maximum winds for the entire tornado were estimated at 100 mph with a total length across both counties of around 7 miles.				
KOSCIUSKO COUNTY --- 1.6 N OSWEGO [41.34, -85.78]				
	07/01/14 00:09 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 00:10 EST		0	Source: NWS Employee
An off duty NWS employee estimated wind gusts to 65 mph.				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]				
	07/01/14 00:10 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 00:11 EST		0	Source: Public
A tree was blown down onto a residence. No injuries were reported.				
KOSCIUSKO COUNTY --- 0.7 S SYRACUSE [41.41, -85.75]				
	07/01/14 00:10 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 00:11 EST		0	Source: NWS Employee
An off duty NWS employee observed a large tree down, blocking the roadway.				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KOSCIUSKO COUNTY --- 4.0 ESE SILVER LAKE [41.04, -85.81], 3.7 SSW SIDNEY [41.05, -85.76]				
	07/01/14 00:12 EST		0	Tornado (EF0, L: 2.52 mi , W: 150 yd)
	07/01/14 00:15 EST		0	Source: NWS Storm Survey
<p>A NWS Storm survey confirmed a tornado touched down in Wabash County and crossed into Kosciusko County east of County Road 100 West. One farm just inside the Kosciusko county border had a hog barn destroyed with much of the debris being thrown to the southeast into a large grain silo facility. One large grain bin was completely flattened and severe damage occurred to a harvester silo. In addition, a corn crop field to the south of the county line road and east of the farm was flattened and shredded. Additional extensive crop and tree damage continued before the tornado dissipated in a grove of trees just west of County Road 400 East. The total track of the tornado across both counties was around 7 miles with maximum winds of around 100 mph.</p>				
KOSCIUSKO COUNTY --- 1.2 N ENCHANTED HILLS [41.44, -85.67]				
	07/01/14 00:15 EST		0	Thunderstorm Wind (EG 55 kt)
	07/01/14 00:16 EST		0	Source: Broadcast Media
<p>Local media reported a tree fell onto South County Road (on the Elkhart/Kosciusko County line), west of County Road 43. A 61 year old male driver seen the tree and swerved away from the tree, but crashed into a ditch and other trees, suffering minor injuries.</p>				
STEBEN COUNTY --- ANGOLA TRI STATE ARP [41.63, -85.08]				
	07/01/14 00:15 EST		0	Thunderstorm Wind (MG 57 kt)
	07/01/14 00:16 EST		0	Source: AWOS
<p>An automated weather system at the Steuben County airport in Angola recorded a 66 mph wind gust.</p>				
KOSCIUSKO COUNTY --- 0.5 E WARSAW [41.23, -85.82]				
	07/01/14 00:20 EST		0	Thunderstorm Wind (EG 65 kt)
	07/01/14 00:21 EST		0	Source: Emergency Manager
<p>Emergency management officials reported numerous trees and power lines down across the county.</p>				
KOSCIUSKO COUNTY --- 1.2 ESE WARSAW [41.22, -85.81]				
	07/01/14 00:20 EST	1	0	Thunderstorm Wind (EG 60 kt)
	07/01/14 00:21 EST		0	Source: Emergency Manager
<p>Emergency management officials reported a large, rotten tree fell onto the bedroom of a mobile home in the Fairlane Mobile Home Park. Two adults and two children were inside the home at the time. One child escaped the impacted room, but a 14 year old male did not and was subsequently killed.</p> <p>Direct Fatalities: M14MH</p>				
MIAMI COUNTY --- 0.7 N (GUS)GRISSOM AFB PER [40.66, -86.15]				
	07/01/14 00:20 EST		0	Thunderstorm Wind (MG 57 kt)
	07/01/14 00:21 EST		0	Source: Emergency Manager
<p>Emergency management officials reported trees and power lines down in the Eagle Point area, near Grissom Air Reserve Base. A 66 mph wind gust was recorded by the automated sensor at the Air Reserve Base.</p>				
MIAMI COUNTY --- 0.7 N (GUS)GRISSOM AFB PER [40.66, -86.15]				
	07/01/14 00:21 EST		0	Thunderstorm Wind (MG 57 kt)
	07/01/14 00:22 EST		0	Source: AWOS
<p>An automated weather system recorded a 66 mph wind gust.</p>				
KOSCIUSKO COUNTY --- 2.8 N NORTH WEBSTER [41.36, -85.70]				
	07/01/14 00:22 EST		0	Thunderstorm Wind (EG 61 kt)
	07/01/14 00:23 EST		0	Source: Official NWS Observations
<p>Wind gusts to 65 mph were estimated at the NWS office near North Webster.</p>				
WHITLEY COUNTY --- 1.5 SSE COLLAMER [41.05, -85.66], 1.5 SE COLLAMER [41.06, -85.65]				
	07/01/14 00:22 EST		0	Tornado (EF1, L: 0.45 mi , W: 50 yd)
	07/01/14 00:23 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
<p>A NWS survey confirmed damage consistent with a brief EF-1 tornado. The tornado touched down West of County Road 850 West in a bean field and hit a farmstead, destroying a barn and chicken coop along with extensive tree damage. Much of the debris from the barn was lofted and scattered across the adjacent field to the northeast and embedded through the tree line one quarter of a mile northeast. An adjacent horse barn lost most of its roof with a nearby home and garage sustaining minor damage to roofing and siding material. However, severe tree damage occurred through a large grove of trees just north of this location with significant debris noted in the trees, many of which were uprooted or snapped. The tornado quickly lifted after this point. Maximum winds were estimated at 100 mph.</p>				
<hr/>				
LAGRANGE COUNTY --- 0.9 NE TOPEKA [41.54, -85.54]	07/01/14 00:23 EST		0	Thunderstorm Wind (EG 52 kt)
	07/01/14 00:24 EST		0	Source: Trained Spotter
<p>A trained spotter estimated 60 mph wind gusts.</p>				
<hr/>				
NOBLE COUNTY --- ROME CITY [41.50, -85.38]	07/01/14 00:26 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 00:27 EST		0	Source: Emergency Manager
<p>Emergency management officials reported 16 homes with roof damage, mostly minor.</p>				
<hr/>				
NOBLE COUNTY --- KIMMELL [41.40, -85.55]	07/01/14 00:29 EST		0	Hail (0.75 in)
	07/01/14 00:30 EST		0	Source: Trained Spotter
<hr/>				
NOBLE COUNTY --- ROME CITY [41.50, -85.38]	07/01/14 00:30 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 00:31 EST		0	Source: State Official
<p>Trees and power lines were reported down across the county, with Rome City being hit the hardest.</p>				
<hr/>				
WHITLEY COUNTY --- 2.1 W RABER [41.09, -85.47]	07/01/14 00:30 EST		0	Thunderstorm Wind (EG 65 kt)
	07/01/14 00:31 EST		0	Source: State Official
<p>Local officials reported trees, tree limbs and power lines down across the county. A power line was reported down across train tracks near State Route 9 and 14.</p>				
<hr/>				
LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]	07/01/14 00:35 EST		0	Thunderstorm Wind (EG 65 kt)
	07/01/14 00:36 EST		0	Source: Emergency Manager
<p>Emergency management officials reported widespread tree damage in town. There was a partial roof and wall collapse at Parkside School.</p>				
<hr/>				
LAGRANGE COUNTY --- 2.5 SW STROH [41.56, -85.24]	07/01/14 00:37 EST	1	0	Thunderstorm Wind (EG 65 kt)
	07/01/14 00:38 EST		0	Source: Emergency Manager
<p>Emergency management officials reported a six to eight foot diameter tree fell into a residence on Big Long Lake . A 64 year old male was crushed by the tree, killing him.</p>				
<p>Direct Fatalities: M64PH</p>				
<hr/>				
LAGRANGE COUNTY --- STROH [41.58, -85.20]	07/01/14 00:37 EST		0	Thunderstorm Wind (EG 65 kt)
	07/01/14 00:38 EST		0	Source: Emergency Manager
<p>Emergency management officials reported widespread tree damage across the area.</p>				
<hr/>				
LAGRANGE COUNTY --- 1.2 WSW LAGRANGE [41.64, -85.44], 0.5 S LAGRANGE [41.64, -85.42]	07/01/14 00:38 EST		0	Tornado (EF1, L: 0.93 mi , W: 50 yd)
	07/01/14 00:40 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
<p>A NWS survey found damage consistent with a EF-1 tornado in a larger area of straight line wind damage. The tornado touched down just west of LaGrange on US-20 East of County Road 100 West, where tree limb damage was observed. The tornado tracked east towards LaGrange, uprooting and snapping trees as it entered the town south of the local hospital. Numerous trees were uprooted and snapped just west of South County Road 00 East between US-20 and Grant Street. The tornado produced minor structural damage to homes along Grant Street before lifting just west of South Mountain Street. Maximum winds were estimated at 95 mph.</p>				
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ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]	07/01/14 00:52 EST	0		Thunderstorm Wind (EG 65 kt)
	07/01/14 00:53 EST	0		Source: Trained Spotter
<p>Trained spotters estimated 75 mph wind gusts near Northcrest Mall. Large tree limbs were down in the area.</p>				
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HUNTINGTON COUNTY --- 0.9 SW MARKLE [40.82, -85.34]	07/01/14 00:52 EST	0		Thunderstorm Wind (EG 61 kt)
	07/01/14 00:53 EST	0		Source: Emergency Manager
<p>Emergency management officials reported a gas station sign and canopy were blown over at Interstate 69 and US 224.</p>				
<hr/>				
STEBEN COUNTY --- ANGOLA [41.63, -85.00]	07/01/14 00:52 EST	0		Thunderstorm Wind (EG 60 kt)
	07/01/14 00:53 EST	0		Source: Emergency Manager
<p>Emergency management officials reported trees and power lines down around the city.</p>				
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STEBEN COUNTY --- 1.2 NE NEVADA MILLS [41.74, -85.06]	07/01/14 00:55 EST	0		Thunderstorm Wind (EG 60 kt)
	07/01/14 00:56 EST	0		Source: Emergency Manager
<p>Emergency management officials reported trees and debris on US 120 between 300 West and 450 West.</p>				
<hr/>				
DE KALB COUNTY --- 0.5 E ALTONA [41.35, -85.14]	07/01/14 00:56 EST	0		Thunderstorm Wind (EG 60 kt)
	07/01/14 00:57 EST	0		Source: State Official
<p>Reports of trees and power lines down.</p>				
<hr/>				
DE KALB COUNTY --- 2.7 WNW SUMMIT [41.53, -85.07]	07/01/14 00:56 EST	0		Thunderstorm Wind (EG 60 kt)
	07/01/14 00:57 EST	0		Source: State Official
<p>Local officials reported scattered trees and power lines down in the Ashley area.</p>				
<hr/>				
STEBEN COUNTY --- ANGOLA [41.63, -85.00]	07/01/14 00:56 EST	0		Thunderstorm Wind (EG 65 kt)
	07/01/14 00:57 EST	0		Source: Emergency Manager
<p>Emergency management officials reported more than 20 trees uprooted. Four homes suffered significant damage.</p>				
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ALLEN COUNTY --- 0.9 NW THURMAN [41.13, -85.01]	07/01/14 01:00 EST	0		Thunderstorm Wind (EG 55 kt)
	07/01/14 01:01 EST	0		Source: Amateur Radio
<p>Amateur radio operators reported six inch tree limbs down across State Route 37, northeast of I-469.</p>				
<hr/>				
ALLEN COUNTY --- 1.5 NNW GREENDALE [41.12, -85.13]	07/01/14 01:00 EST	0		Thunderstorm Wind (EG 56 kt)
	07/01/14 01:01 EST	0		Source: Trained Spotter
<p>A trained spotter reported numerous tree limbs down with wind gusts estimated to 65 mph.</p>				
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WELLS COUNTY --- 2.2 ENE MURRAY [40.79, -85.16]				

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/01/14 01:01 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 01:02 EST		0	Source: Public
Trees were blown down between Bluffton and Kingsland. A tree was also reported down on 500 North east of State Route 1.				
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ALLEN COUNTY --- 1.3 WNW ZULU [41.04, -84.92]				
	07/01/14 01:05 EST		0	Thunderstorm Wind (EG 55 kt)
	07/01/14 01:06 EST		0	Source: Public
A semi was blown off the road on US 30 near Webster Road.				
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MIAMI COUNTY --- 0.7 N (GUS)GRISSOM AFB PER [40.66, -86.15]				
	07/01/14 01:30 EST		0	Thunderstorm Wind (EG 65 kt)
	07/01/14 01:31 EST		0	Source: Public
Two power poles were reported snapped at the base.				
<p>A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow-echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics, producing gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line had much more favorable parameters to work with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this second line of convection raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge that lead to multiple tornado confirmations and swaths of at times extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.</p>				
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ST. JOSEPH COUNTY --- 0.5 E GRANGER [41.75, -86.11]				
	07/23/14 00:45 EST		0	Hail (1.50 in)
	07/23/14 00:55 EST		0	Source: Public
The public reported hail to the size of ping pong balls fell for 5 to 10 minutes.				
<hr/>				
ELKHART COUNTY --- 1.4 N SIMONTON LAKE [41.75, -85.98]				
	07/23/14 00:51 EST		0	Hail (1.25 in)
	07/23/14 01:01 EST		0	Source: Public
The public reported hail up to the size of half dollars fell for 5 to 10 minutes.				
<p>A cold front was moving into the region during the overnight hours. A weak disturbance aided in the development of overnight thunderstorms. A few were able to briefly sustain updrafts long enough to produce isolated severe hail.</p>				
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KOSCIUSKO COUNTY --- 1.3 WNW WARSAW [41.24, -85.85]				
	07/26/14 13:20 EST		0	Hail (0.75 in)
	07/26/14 13:21 EST		0	Source: Public
Public reports of one half to three quarter inch diameter hail were received.				
<hr/>				
KOSCIUSKO COUNTY --- 1.0 W PIERCETON [41.20, -85.74]				
	07/26/14 13:30 EST		0	Hail (1.00 in)
	07/26/14 13:31 EST		0	Source: Amateur Radio
Amateur radio operators reported quarter size hail west of Pierceton.				
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KOSCIUSKO COUNTY --- 2.5 WNW PIERCETON [41.22, -85.76]				
	07/26/14 13:30 EST		0	Hail (0.88 in)
	07/26/14 13:31 EST		0	Source: Trained Spotter
A trained spotter reported nickel size hail.				
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HUNTINGTON COUNTY --- 0.7 S ROANOKE [40.96, -85.37]				
	07/26/14 14:10 EST		0	Hail (0.75 in)
	07/26/14 14:11 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A trained spotter reported penny size hail.				
WELLS COUNTY --- 4.8 W UNIONDALE [40.82, -85.32]				
	07/26/14 14:32 EST	0		Hail (1.50 in)
	07/26/14 14:33 EST	0		Source: Trained Spotter
A trained spotter reported hail to the size of ping pong balls.				
WELLS COUNTY --- 3.9 WSW UNIONDALE [40.81, -85.30]				
	07/26/14 14:33 EST	0		Hail (1.25 in)
	07/26/14 14:34 EST	0		Source: Trained Spotter
A trained spotter reported hail to the size of a half dollar.				
WELLS COUNTY --- 1.4 N BLUFFTON [40.75, -85.17]				
	07/26/14 14:48 EST	0		Hail (2.00 in)
	07/26/14 14:49 EST	0		Source: Public
The public reported hail to the size of hen eggs.				
WELLS COUNTY --- 2.1 S VERA CRUZ [40.67, -85.08]				
	07/26/14 14:48 EST	0		Hail (1.75 in)
	07/26/14 14:49 EST	0		Source: Trained Spotter
A trained spotter reported golf ball size hail.				
A weak Mesoscale Convective Vortex moved out of Wisconsin during the mid-afternoon hours. 100 millibar Mixed Layer CAPE was on the order of 1000-1500 j/kg with strong deep layer shear and pockets of higher 0 to 3 km Storm Relative Helicity. Storms appeared to be slightly elevated with a few storms exhibiting supercell characteristics. These storms managed to produce several reports of hail, some to the size of tennis balls.				
ELKHART COUNTY --- 0.7 S NAPPANEE [41.44, -86.00]				
	07/27/14 14:00 EST	0		Hail (1.25 in)
	07/27/14 14:01 EST	0		Source: Public
The public posted pictures of hail slightly larger than the size of quarters on the office Facebook page.				
ST. JOSEPH COUNTY --- 0.5 E NUTWOOD [41.60, -86.27]				
	07/27/14 14:20 EST	0		Hail (1.25 in)
	07/27/14 14:21 EST	0		Source: Trained Spotter
KOSCIUSKO COUNTY --- 2.6 N NORTH WEBSTER [41.36, -85.70]				
	07/27/14 14:37 EST	0		Hail (1.00 in)
	07/27/14 14:40 EST	0		Source: Official NWS Observations
On duty staff at the NWS office observed a period of hail, ranging from mainly pea size hail to around the size of quarters for a 3 minute period.				
NOBLE COUNTY --- 0.7 N WOLFLAKE [41.34, -85.50]				
	07/27/14 14:50 EST	0		Thunderstorm Wind (EG 55 kt)
	07/27/14 14:51 EST	0		Source: Emergency Manager
Emergency management officials reported tree limbs and power lines down along US 33 in the southern parts of the county.				
NOBLE COUNTY --- 0.7 N WOLFLAKE [41.34, -85.50]				
	07/27/14 14:50 EST	0		Thunderstorm Wind (EG 58 kt)
	07/27/14 14:51 EST	0		Source: Emergency Manager
Emergency management officials reported tree limbs and power lines down along US 33 in the southern parts of the county.				
ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	07/27/14 14:50 EST	0		Hail (1.25 in)
	07/27/14 14:51 EST	0		Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ELKHART COUNTY --- 3.5 S NEW PARIS [41.45, -85.84]				
	07/27/14 14:55 EST	0		Hail (1.00 in)
	07/27/14 14:56 EST	0		Source: Trained Spotter
A trained spotter reported quarter size hail on US 6, just east of State Route 15.				
NOBLE COUNTY --- ALBION [41.40, -85.42]				
	07/27/14 15:00 EST	0		Hail (0.75 in)
	07/27/14 15:01 EST	0		Source: Public
The public reported dime size hail and a few small tree limbs down on the office Facebook page.				
KOSCIUSKO COUNTY --- 2.1 NE NORTH WEBSTER [41.34, -85.67]				
	07/27/14 15:06 EST	0		Thunderstorm Wind (EG 58 kt)
	07/27/14 15:07 EST	0		Source: Amateur Radio
Amateur radio operators reported a large tree was blown down, covering Epworth Forest Road.				
WHITLEY COUNTY --- CHURUBUSCO [41.23, -85.32]				
	07/27/14 15:06 EST	0		Thunderstorm Wind (EG 50 kt)
	07/27/14 15:07 EST	0		Source: Trained Spotter
A trained spotter reported power lines down on US 33.				
KOSCIUSKO COUNTY --- 2.7 N NORTH WEBSTER [41.36, -85.70]				
	07/27/14 15:10 EST	0		Hail (1.00 in)
	07/27/14 15:11 EST	0		Source: Official NWS Observations
A second storm brought hail ranging from one half inch to one inch in diameter.				
WHITLEY COUNTY --- 2.2 WNW ETNA [41.28, -85.61]				
	07/27/14 15:18 EST	0		Hail (1.75 in)
	07/27/14 15:19 EST	0		Source: Public
The public posted a picture of hail at least the size of golf balls on the office Twitter account.				
ALLEN COUNTY --- 0.9 NW CEDAR CANYONS [41.24, -85.08]				
	07/27/14 15:28 EST	0		Hail (0.75 in)
	07/27/14 15:31 EST	0		Source: Amateur Radio
Amateur radio operators reported penny size hail for three minutes along with a few small tree limbs down.				
ALLEN COUNTY --- 1.7 NE FT WAYNE SMITH ARPT [41.17, -85.13]				
	07/27/14 15:31 EST	0		Thunderstorm Wind (EG 52 kt)
	07/27/14 15:32 EST	0		Source: Trained Spotter
A trained spotter estimated wind gusts to 60 mph near the intersection of Coldwater and Till Roads.				
ALLEN COUNTY --- 0.7 S GRABILL [41.21, -84.97]				
	07/27/14 15:43 EST	0		Hail (1.00 in)
	07/27/14 15:44 EST	0		Source: Public
The public reported hail to the size of quarters.				
HUNTINGTON COUNTY --- 1.0 W HUNTINGTON [40.88, -85.50]				
	07/27/14 15:54 EST	0		Hail (0.75 in)
	07/27/14 15:55 EST	0		Source: Trained Spotter
ALLEN COUNTY --- 2.1 N BROOKSIDE ESTATES [41.18, -85.08]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/27/14 16:02 EST		0	Thunderstorm Wind (EG 55 kt)
	07/27/14 16:03 EST		0	Source: Public

The public reported a tree was blown down on State Roud 1 and Tonkel Road. Other smaaller limbs were observed on the road.

ADAMS COUNTY --- DECATUR [40.83, -84.93]

	07/27/14 16:26 EST		0	Thunderstorm Wind (EG 50 kt)
	07/27/14 16:27 EST		0	Source: Trained Spotter

Trained spotters reported several small to medium size branches down across the town.

HUNTINGTON COUNTY --- 1.0 S MAJENICA [40.76, -85.45]

	07/27/14 17:40 EST		0	Thunderstorm Wind (EG 48 kt)
	07/27/14 17:41 EST		0	Source: Emergency Manager

Emergency management officials reported minor damage near the intersection of State Route 5 and East County Road 500 South. Minor tree damage occurred at a residence on the southeast corner of the intersection, with a small area of corn in an adjacent field being partially blown over. The back window of a vehicle was shattered, likely from flying rocks or debris with a resident suffering minor injuries as a glass table broke with pieces of the table causing some small cuts. There were numerous eyewitness reports (and photographs) of funnel clouds in the area as a result of conditions favorable for the development of landspouts. However, all damage was thrown in a northeast or east direction, consistent with a lack of a circulation on the ground.

A strong upper level trough entered the region during the afternoon hours, with a 110 knot upper level jet streak. This allowed for plenty of deep layer shear, on the order of 45 to 55 knots. While instability wasn't extreme, mixed layer cape in the lowered levels peaked around 2000 j/kg allowing for organized storm development and periodic hybrid super cells. Initial reports were in the form of large hail, with wind damage reports increasing as storm collapses began to occur.

LAKE MICHIGAN

NEW BUFFALO TO ST JOSEPH MI COUNTY --- 1.0 W ST. JOSEPH HARBOR [42.10, -86.50]

	07/15/14 07:23 EST		0	Waterspout
	07/15/14 07:25 EST		0	Source: Trained Spotter

A spotter for the International Centre for Waterspout Research observed and photographed a brief waterspout just offshore from St. Joseph.

Unseasonably cold air moving across the Great Lakes resulted in the formation of lake effect showers, a few of which produced waterspouts. One was sighted offshore from St. Joseph, MI.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]

	07/23/14 00:00 EST		0	Marine Thunderstorm Wind (MG 39 kt)
	07/23/14 00:01 EST		0	Source: Buoy

A buoy west of the Cook Nuclear Plant recorded a 45 mph wind gust as thunderstorms approached the shoreline.

A cold front was moving into the region during the overnight hours. A weak disturbance aided in the development of overnight thunderstorms. Gusty winds moved onshore across southeastern Lake Michigan.

MICHIGAN, Extreme Southwest

CASS COUNTY --- 2.1 SE MARCELLUS [42.01, -85.79]

	07/01/14 00:00 EST		0	Thunderstorm Wind (EG 65 kt)
	07/01/14 00:01 EST		0	Source: Trained Spotter

A trained spotter estimated wind gusts to 75 mph.

ST. JOSEPH COUNTY --- 0.7 N THREE RIVERS [41.94, -85.63]

	07/01/14 00:10 EST		0	Thunderstorm Wind (EG 55 kt)
	07/01/14 00:11 EST		0	Source: Public

The public reported a tree down onto a residence. No injuries were noted.

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ST. JOSEPH COUNTY --- 0.5 E FLOWERFIELD [42.07, -85.64]				
	07/01/14 00:19 EST		0	Thunderstorm Wind (EG 61 kt)
	07/01/14 00:20 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 70 mph.				
ST. JOSEPH COUNTY --- CENTREVILLE [41.92, -85.53]				
	07/01/14 00:30 EST		0	Thunderstorm Wind (EG 56 kt)
	07/01/14 00:31 EST		0	Source: Amateur Radio
Amateur radio operators reported wind gusts estimated to at least 65 mph.				
BRANCH COUNTY --- 0.5 W SHERWOOD [42.00, -85.24]				
	07/01/14 00:35 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 00:36 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees and power lines down across mainly the northern part of the county.				
BRANCH COUNTY --- 0.7 S COLDWATER [41.94, -85.00]				
	07/01/14 00:48 EST		0	Thunderstorm Wind (EG 57 kt)
	07/01/14 00:49 EST		0	Source: Emergency Manager
Emergency management officials reported several trees down , blocking some roads. Several dead trees were also felled from the strong wind as well as tree limbs.				
HILLSDALE COUNTY --- 0.5 W HILLSDALE [41.92, -84.63]				
	07/01/14 01:10 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 01:11 EST		0	Source: Emergency Manager
Emergency management officials reported numerous trees down across mainly the northern half of the county.				
HILLSDALE COUNTY --- 1.0 W SOMERSET CENTER [42.05, -84.44]				
	07/01/14 01:13 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 01:14 EST		0	Source: Emergency Manager
Emergency management officials reported the top third of a 154 foot tall 911 communications tower was blown over.				
HILLSDALE COUNTY --- 0.5 E JONESVILLE [41.98, -84.66]				
	07/01/14 01:15 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 01:16 EST		0	Source: Emergency Manager
Emergency management officials reported trees down across the town with scattered power outages.				
HILLSDALE COUNTY --- 0.5 W SOMERSET CENTER [42.05, -84.43]				
	07/01/14 01:20 EST		0	Thunderstorm Wind (EG 60 kt)
	07/01/14 01:21 EST		0	Source: Trained Spotter
A trained spotter reported trees down.				
<p>A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow-echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics, producing gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line had much more favorable parameters to work with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this second line of convection raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge that lead to multiple tornado confirmations and swaths of at times extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.</p>				
CASS COUNTY --- EDWARDSBURG [41.80, -86.08]				
	07/23/14 00:45 EST		0	Hail (1.25 in)
	07/23/14 00:55 EST		0	Source: Public

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The public reported hail to the size ha half dollars fell for 5 to 10 minutes.

A cold front was moving into the region during the overnight hours. A weak disturbance aided in the development of overnight thunderstorms. A few were able to briefly sustain updrafts long enough to produce isolated severe hail.

BERRIEN COUNTY --- 0.7 S STEVENSVILLE [42.01, -86.52]

07/27/14 13:52 EST	0	Hail (1.75 in)
07/27/14 13:53 EST	0	Source: Public

The public passed on video footage of hail to the size of golf balls falling in the area.

BERRIEN COUNTY --- 0.5 E STEVENSVILLE [42.02, -86.51]

07/27/14 14:06 EST	0	Hail (1.00 in)
07/27/14 14:07 EST	0	Source: Trained Spotter

BERRIEN COUNTY --- 0.7 N ST JOSEPH [42.11, -86.48]

07/27/14 14:06 EST	0	Hail (0.88 in)
07/27/14 14:07 EST	0	Source: Fire Department/Rescue

A strong upper level trough entered the region during the afternoon hours, with a 110 knot upper level jet streak. This allowed for plenty of deep layer shear, on the order of 45 to 55 knots. While instability wasn't extreme, mixed layer cape in the lowered levels peaked around 2000 j/kg allowing for organized storm development and periodic hybrid super cells. Initial reports were in the form of large hail, with wind damage reports increasing as storm collapses began to occur.

OHIO, Northwest

DEFIANCE COUNTY --- 0.9 SW HICKSVILLE [41.29, -84.76]

07/01/14 01:18 EST	0	Thunderstorm Wind (EG 55 kt)
07/01/14 01:19 EST	0	Source: Amateur Radio

Amateur radio operators reported several large tree limbs down.

PAULDING COUNTY --- 0.5 W ANTWERP [41.18, -84.74]

07/01/14 01:18 EST	0	Thunderstorm Wind (EG 61 kt)
07/01/14 01:19 EST	0	Source: Public

Estimated 70 mph wind gusts were reported in the area.

VAN WERT COUNTY --- OHIO CITY [40.77, -84.62]

07/01/14 01:45 EST	0	Thunderstorm Wind (EG 55 kt)
07/01/14 01:46 EST	0	Source: Emergency Manager

Emergency management officials reported a large tree with rot inside snapped, hitting a house and garage. No injuries were reported.

A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line had much more favorable parameters to work with with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this line raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge that lead to multiple tornado confirmations and swaths of at times extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.

HENRY COUNTY --- 0.7 N NAPOLEON [41.39, -84.13]

07/26/14 14:07 EST	0	Hail (1.00 in)
07/26/14 14:08 EST	0	Source: Public

The public reported hail to the size of quarters.

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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PAULDING COUNTY --- 2.1 N TIPTON [41.05, -84.67]

07/26/14 14:35 EST		0		Hail (3.00 in)
07/26/14 14:36 EST		0		Source: Trained Spotter

A trained spotter reported hail up to three inches in diameter.

PAULDING COUNTY --- 0.5 W PAYNE [41.08, -84.73]

07/26/14 14:37 EST		0		Hail (1.25 in)
07/26/14 14:38 EST		0		Source: Trained Spotter

A trained spotter reported hail to the size of a half dollar.

A weak Mesoscale Convective Vortex moved out of Wisconsin during the mid-afternoon hours. 100 millibar Mixed Layer CAPE was on the order of 1000-1500 j/kg with strong deep layer shear and pockets of higher 0 to 3 km Storm Relative Helicity. Storms appeared to be slightly elevated with a few storms exhibiting supercell characteristics. These storms managed to produce several reports of hail, some to at least the size of tennis balls.

VAN WERT COUNTY --- 1.6 W SCHUMM [40.75, -84.75]

07/27/14 10:39 EST		0		Thunderstorm Wind (EG 55 kt)
07/27/14 10:40 EST		0		Source: Emergency Manager

Emergency management officials reported trees and power lines down in the area. A semi trailer was flipped over as well.

ALLEN COUNTY --- 0.7 N SPENCERVILLE [40.71, -84.35]

07/27/14 17:05 EST		0		Thunderstorm Wind (EG 50 kt)
07/27/14 17:06 EST		0		Source: Amateur Radio

Amateur radio operators reported a four inch diameter tree limb was broken off at State Route 117 and State Route 66.

WILLIAMS COUNTY --- 1.7 WSW PULASKI [41.51, -84.53]

07/27/14 18:54 EST		0		Thunderstorm Wind (EG 55 kt)
07/27/14 18:55 EST		0		Source: Fire Department/Rescue

Local fire officials reported a power pole was blown down on County Road 15 and County Road H.

A strong upper level trough entered the region during the afternoon hours, with a 110 knot upper level jet streak. This allowed for plenty of deep layer shear, on the order of 45 to 55 knots. While instability wasn't extreme, mixed layer cape in the lowered levels peaked around 2000 j/kg allowing for organized storm development and periodic hybrid super cells. Initial reports were in the form of large hail, with wind damage reports increasing as storm collapses began to occur.

Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	08/19/14 14:05 EST	0		Thunderstorm Wind (EG 52 kt)
	08/19/14 14:06 EST	0		Source: Broadcast Media
Local media reported trees and power lines down in the Cleveland Road area.				
KOSCIUSKO COUNTY --- 2.8 S MILFORD [41.38, -85.85]				
	08/19/14 14:26 EST	0		Thunderstorm Wind (EG 55 kt)
	08/19/14 14:27 EST	0		Source: Broadcast Media
Three telephone poles were snapped over railroad tracks, briefly blocking them.				
LAGRANGE COUNTY --- 1.5 NNW PLATO [41.67, -85.34]				
	08/19/14 14:59 EST	0		Thunderstorm Wind (EG 55 kt)
	08/19/14 15:00 EST	0		Source: State Official
Local officials reported trees were blown down on East County Road 175 North.				
NOBLE COUNTY --- 0.7 N WOLCOTTVILLE [41.53, -85.37]				
	08/19/14 15:01 EST	0		Thunderstorm Wind (EG 55 kt)
	08/19/14 15:02 EST	0		Source: Public
The public reported a sycamore tree snapped halfway up.				
STEBEN COUNTY --- 0.5 E MOONLIGHT BAY [41.58, -85.02]				
	08/19/14 15:24 EST	0		Thunderstorm Wind (EG 55 kt)
	08/19/14 15:25 EST	0		Source: Emergency Manager
Emergency management officials power line down as well as a large tree on Waymire Road.				
ALLEN COUNTY --- 1.7 NW GREENDALE [41.12, -85.14]				
	08/19/14 15:49 EST	0		Hail (0.75 in)
	08/19/14 15:50 EST	0		Source: Public
HUNTINGTON COUNTY --- 2.2 WNW ANDREWS [40.86, -85.64]				
	08/19/14 19:56 EST	0		Thunderstorm Wind (EG 55 kt)
	08/19/14 19:57 EST	0		Source: Emergency Manager
Emergency management officials reported a tree was blown down, blocking County Road 1000 West, north of 250 North.				
HUNTINGTON COUNTY --- 2.8 N ANDREWS [40.89, -85.59]				
	08/19/14 20:00 EST	0		Thunderstorm Wind (EG 55 kt)
	08/19/14 20:01 EST	0		Source: Emergency Manager
Emergency management officials reported two trees down.				
<p>A cold front moved through the region during the afternoon and evening hours with moderate instability in place ahead of the front. An upper level disturbance aided in enhancement of showers and thunderstorms that developed. Sporadic wind damage was reported across northern Indiana.</p>				
STARKE COUNTY --- 2.5 WSW BREMS [41.31, -86.74]				
	08/21/14 17:05 CST	0		Thunderstorm Wind (EG 55 kt)
	08/21/14 17:06 CST	0		Source: State Official
County officials reported a large tree was blown down at the intersection of State Routes 8 and 39.				
PULASKI COUNTY --- 3.5 S PULASKI [40.92, -86.66]				

Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/21/14 17:40 CST		0	Thunderstorm Wind (EG 53 kt)
	08/21/14 17:41 CST		0	Source: Trained Spotter

A trained spotter reported a 14 inch diameter tree was blown down.

BLACKFORD COUNTY --- 3.7 WNW ROLL [40.56, -85.45], 2.0 SE TRENTON [40.43, -85.21], 3.5 ESE MILLGROVE [40.38, -85.22], 0.9 NNE SHAMROCK LAKES [40.43, -85.42], 1.6 SSW RENNER [40.45, -85.45]

08/22/14 02:18 EST	0	Flash Flood (due to Heavy Rain)
08/22/14 10:45 EST	0	Source: Emergency Manager

Six to locally over 10 inches of rain fell in a several hour period across mainly southern parts of the county. Many county and state roads were closed due to several feet of water flowing over roadways. Numerous vehicles were stranded in flood waters with rescues needed. A CoCoRaHS site northwest of Hartford City recorded 10.63 inches of rain.

GRANT COUNTY --- 0.2 N LANDESS [40.62, -85.55], 1.6 SE FARRVILLE [40.56, -85.45], 1.8 E UPLAND [40.47, -85.45], 0.8 NE HOME CORNER [40.53, -85.64]

08/22/14 04:58 EST	0	Flash Flood (due to Heavy Rain)
08/22/14 10:45 EST	0	Source: Newspaper

Six to eight inches of rain fell over a six hour period, from Marion southeast to the county line. Numerous vehicles were stranded in high water with several feet of water flowing over local roads. A two mile stretch of Interstate 69, between mile markers 263 and 265, was closed in both directions for several hours due to high flowing water. No injuries or fatalities were reported as a result of the flooding.

A weak upper level system dropped southeast across the region. A stationary boundary extended west to east across the area. Three rounds of thunderstorms developed either across the area or upstream in Illinois and tracked southeast along the front. Precipitable water exceeded 2 inches allowing for a very moist atmosphere and efficient rain producing thunderstorms. The first round produced isolated severe weather in Starke and Pulaski County with the threat quickly transitioning to heavy rain and flooding. The hardest hit area for rainfall was across Grant, Blackford and Jay counties where a swath of 8 to 10 inches of rain fell with locally higher amounts. There were numerous water rescues and a portion of Interstate 69 in Grant County was closed in both directions due to flood waters.

ST. JOSEPH COUNTY --- 0.5 W GLENWOOD [41.67, -86.08]

08/25/14 15:11 EST	0	Thunderstorm Wind (EG 50 kt)
08/25/14 15:12 EST	0	Source: Broadcast Media

Local media reported large tree limbs were blown down in the town of Osceola.

HUNTINGTON COUNTY --- 0.9 SE MT ETNA [40.74, -85.56]

08/25/14 17:43 EST	0	Thunderstorm Wind (MG 57 kt)
08/25/14 17:44 EST	0	Source: Emergency Manager

Emergency management officials reported several trees down across the town. The entire town was without power. Local officials measured a 66 mph wind gusts.

HUNTINGTON COUNTY --- 1.6 E LANCASTER [40.75, -85.47]

08/25/14 17:43 EST	0	Thunderstorm Wind (EG 56 kt)
08/25/14 17:44 EST	0	Source: Emergency Manager

Emergency management officials reported a two foot diameter tree was snapped off at the ground by strong winds.

A moderately unstable, but weakly sheared atmosphere was in place across the southern Great Lakes. Thunderstorms moved out of Illinois into Indiana, with a few of these storms becoming briefly severe.

LA PORTE COUNTY --- 0.7 N KINGSBURY [41.53, -86.70]

08/26/14 07:21 CST	0	Thunderstorm Wind (EG 55 kt)
08/26/14 07:22 CST	0	Source: State Official

County dispatch reported multiple trees down on County Road 500 South.

LA PORTE COUNTY --- 2.1 W STILLWELL [41.55, -86.64]

08/26/14 07:34 CST	0	Thunderstorm Wind (EG 50 kt)
08/26/14 07:35 CST	0	Source: Public

The public reported a large tree limb fell onto a deck.

Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ST. JOSEPH COUNTY --- 3.2 SSE NUTWOOD [41.56, -86.25]				
	08/26/14 10:00 EST		0	Lightning
	08/26/14 10:01 EST	1	0	Source: Broadcast Media

Local media reported a 51 year old man was struck by lightning while working outside prior to the arrival of a thunderstorms. The gentleman complained of a headache and sore shoulders, but suffered no serious injuries and was able to call for help on his own .

A moderately unstable, but weakly sheared atmosphere was in place across the southern Great Lakes. A broken line of strong to locally severe thunderstorms moved across portions of northern Indiana with isolated severe weather.

LAKE MICHIGAN

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- 9.5 W NEW BUFFALO HARBOR [41.76, -86.93]				
	08/19/14 13:35 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/19/14 13:36 EST		0	Source: Buoy

A 42 mph wind gust was recorded by a buoy offshore from Michigan City.

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]				
	08/19/14 13:35 EST		0	Marine Thunderstorm Wind (MG 49 kt)
	08/19/14 13:36 EST		0	Source: C-MAN Station

A 56 mph wind gust was recorded by a GLERL marine site.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]				
	08/19/14 13:50 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	08/19/14 13:51 EST		0	Source: Buoy

A 54 mph wind gust was recorded by a buoy offshore from the Cook Nuclear Plant.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH GLOS STATION (SJOM4) [42.10, -86.49]				
	08/19/14 13:51 EST		0	Marine Thunderstorm Wind (MG 51 kt)
	08/19/14 13:52 EST		0	Source: C-MAN Station

A 59 mph wind gust was recorded by the St. Joseph marine weather station.

A cold front moved through the region during the afternoon and evening hours with moderate instability in place ahead of the front. An upper level disturbance aided in enhancement of showers and thunderstorms that developed with isolated strong wind gusts over Lake Michigan.

MICHIGAN, Extreme Southwest

ST. JOSEPH COUNTY --- STURGIS [41.80, -85.42]				
	08/19/14 15:15 EST		0	Thunderstorm Wind (EG 55 kt)
	08/19/14 15:16 EST		0	Source: Amateur Radio

Amateur radio operators reported a large tree was blown down.

BRANCH COUNTY --- KINDERHOOK [41.80, -85.00]				
	08/19/14 15:35 EST		0	Thunderstorm Wind (EG 50 kt)
	08/19/14 15:36 EST		0	Source: Emergency Manager

Emergency management officials reported power lines down in the area from strong winds and impacts of tree limbs.

HILLSDALE COUNTY --- 0.5 W MOSCOW [42.05, -84.51]				
	08/19/14 16:00 EST		0	Thunderstorm Wind (EG 55 kt)
	08/19/14 16:01 EST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Emergency management officials reported four trees were blown down as well as some power lines across the northern part of the county.

A cold front moved through the region during the afternoon and evening hours with moderate instability in place ahead of the front. An upper level disturbance aided in enhancement of showers and thunderstorms that developed. Sporadic wind damage was reported across far southern Lower Michigan.

OHIO, Northwest

FULTON COUNTY --- 1.7 SW BRAILEY [41.53, -83.94]

08/19/14 17:00 EST	0	Thunderstorm Wind (EG 55 kt)
08/19/14 17:01 EST	0	Source: Amateur Radio

Amateur radio operators reported the intersection of County Road 3 and E were closed due to down power lines and poles.

A cold front moved through the region during the afternoon and evening hours with moderate instability in place ahead of the front. An upper level disturbance aided in enhancement of showers and thunderstorms that developed. Sporadic wind damage was reported across northwestern Ohio.

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
MARSHALL COUNTY --- BOURBON [41.30, -86.12]				
	09/05/14 16:40 EST	0		Hail (1.00 in)
	09/05/14 16:41 EST	0		Source: Public
WHITE COUNTY --- 1.6 W BUFFALO [40.88, -86.76]				
	09/05/14 16:42 EST	0		Hail (1.50 in)
	09/05/14 16:43 EST	0		Source: Trained Spotter
Hail to one and one half inch diameter fell.				
KOSCIUSKO COUNTY --- ETNA GREEN [41.28, -86.05]				
	09/05/14 16:50 EST	0		Hail (1.00 in)
	09/05/14 16:51 EST	0		Source: Public
KOSCIUSKO COUNTY --- ETNA GREEN [41.28, -86.05]				
	09/05/14 16:51 EST	0		Hail (0.75 in)
	09/05/14 16:52 EST	0		Source: Trained Spotter
WHITE COUNTY --- 0.9 SW WOLCOTT [40.76, -87.04]				
	09/05/14 16:55 EST	0		Hail (0.75 in)
	09/05/14 16:56 EST	0		Source: Emergency Manager
KOSCIUSKO COUNTY --- 0.7 N REDMOND PARK [41.39, -85.78]				
	09/05/14 17:08 EST	0		Thunderstorm Wind (EG 55 kt)
	09/05/14 17:09 EST	0		Source: State Official
Local officials reported trees were blown down at the intersection of County Roads 1050 North and 350 East.				
KOSCIUSKO COUNTY --- 0.9 SW ATWOOD [41.26, -85.99]				
	09/05/14 17:08 EST	0		Thunderstorm Wind (EG 55 kt)
	09/05/14 17:09 EST	0		Source: State Official
Local officials reported trees were blown down onto Old U.S. 30 between County Roads 750 and 800 West.				
KOSCIUSKO COUNTY --- 2.2 WSW REDMOND PARK [41.37, -85.82]				
	09/05/14 17:08 EST	0		Thunderstorm Wind (EG 50 kt)
	09/05/14 17:09 EST	0		Source: NWS Employee
An off duty NWS employee reported several large tree limbs down in the area.				
WHITE COUNTY --- 0.5 W MONON [40.87, -86.88]				
	09/05/14 17:10 EST	0		Thunderstorm Wind (EG 55 kt)
	09/05/14 17:11 EST	0		Source: Emergency Manager
Emergency management officials reported several trees down in the area.				
KOSCIUSKO COUNTY --- 0.7 N NORTH WEBSTER [41.33, -85.70]				
	09/05/14 17:14 EST	0		Hail (0.75 in)
	09/05/14 17:15 EST	0		Source: Public
LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]				
	09/05/14 17:20 EST	0		Hail (1.00 in)
	09/05/14 17:21 EST	0		Source: Public
NOBLE COUNTY --- 0.5 W LIGONIER [41.47, -85.59]				

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/05/14 17:26 EST		0	Thunderstorm Wind (EG 55 kt)
	09/05/14 17:27 EST		0	Source: Emergency Manager

Emergency management officials reported trees and tree limbs down.

STEUBEN COUNTY --- 0.5 E NEVADA MILLS [41.73, -85.07]

	09/05/14 18:15 EST		0	Thunderstorm Wind (EG 50 kt)
	09/05/14 18:16 EST		0	Source: Emergency Manager

Emergency management officials reported a tree was blown down just south of Highway 120.

STEUBEN COUNTY --- ANGOLA [41.63, -85.00]

	09/05/14 18:24 EST		0	Hail (1.00 in)
	09/05/14 18:25 EST		0	Source: Public

Hail lasted for three minutes at the Angola High School.

STEUBEN COUNTY --- ANGOLA [41.63, -85.00]

	09/05/14 18:24 EST		0	Thunderstorm Wind (MG 51 kt)
	09/05/14 18:25 EST		0	Source: Public

The public recorded a 59 mph wind gust.

CASS COUNTY --- 0.7 S ROYAL CENTER [40.86, -86.50]

	09/05/14 19:12 EST		0	Thunderstorm Wind (EG 52 kt)
	09/05/14 19:13 EST		0	Source: Emergency Manager

Emergency management officials reported wind gusts to 60 mph and several four to five inch diameter tree limbs down.

A cold front moves across the region, interacting with surface based CAPE values in excess of 5000 j/kg and abundant low level moisture. Shear through much of the atmosphere was lacking across the area, resulting in marginally severe thunderstorms with occasional downbursts producing isolated wind damage or large hail incidents.

LA PORTE COUNTY --- 2.1 E WANATAH [41.43, -86.86]

	09/20/14 14:26 CST		0	Thunderstorm Wind (EG 50 kt)
	09/20/14 14:27 CST		0	Source: Public

Reports of six tree limbs being blown down were received.

LA PORTE COUNTY --- WANATAH [41.43, -86.90]

	09/20/14 14:26 CST		0	Thunderstorm Wind (EG 60 kt)
	09/20/14 14:27 CST		0	Source: Trained Spotter

A trained spotter reported a large tree was blown down across a local roadway.

STARKE COUNTY --- 9.9 NNW KOONTZ LAKE [41.55, -86.58]

	09/20/14 14:43 CST		0	Thunderstorm Wind (EG 61 kt)
	09/20/14 14:44 CST		0	Source: Public

Wind gusts were estimated to 70 mph.

STARKE COUNTY --- 9.9 NNW KOONTZ LAKE [41.55, -86.58]

	09/20/14 14:43 CST		0	Thunderstorm Wind (EG 65 kt)
	09/20/14 14:44 CST		0	Source: Emergency Manager

Emergency management officials reported numerous trees uprooted or snapped across the town . One of the uprooted trees ruptured a natural gas line, resulting in the evacuation of three residences in the area. Several tree branches were reported down with some onto vehicles. No injuries were reported with any of the damage.

ST. JOSEPH COUNTY --- 2.9 WSW RUPEL [41.58, -86.43]

	09/20/14 15:53 EST		0	Thunderstorm Wind (EG 70 kt)
	09/20/14 15:54 EST		0	Source: Amateur Radio

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Amateur radio operators reported a two foot diameter tree was blown down with estimated wind gusts of 70 to 80 mph.				
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MARSHALL COUNTY --- 0.9 SE PLYMOUTH [41.34, -86.31]	09/20/14 15:57 EST	0		Thunderstorm Wind (EG 60 kt)
	09/20/14 15:58 EST	0		Source: Emergency Manager
Emergency management officials reported a tree was blown down on the 300 block of South Michigan.				
<hr/>				
MARSHALL COUNTY --- 0.9 SE PLYMOUTH [41.34, -86.31]	09/20/14 16:00 EST	0		Thunderstorm Wind (EG 60 kt)
	09/20/14 16:01 EST	0		Source: Emergency Manager
Emergency management officials reported a tree was blown down onto a vehicle at the intersection of US -31 and County Road 9A. There were reports of injuries with the initial call, but no further details could be found.				
<hr/>				
MARSHALL COUNTY --- BREMEN [41.45, -86.15]	09/20/14 16:14 EST	0		Thunderstorm Wind (EG 55 kt)
	09/20/14 16:15 EST	0		Source: Emergency Manager
Emergency management officials reported a tree was blown down on South Washington Street.				
<hr/>				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]	09/20/14 16:27 EST	0		Thunderstorm Wind (EG 60 kt)
	09/20/14 16:28 EST	0		Source: Trained Spotter
A trained spotter reported trees and power lines down on State Route 15 in both Waterford Mills and the south side of Goshen.				
<hr/>				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]	09/20/14 16:34 EST	0		Hail (0.75 in)
	09/20/14 16:35 EST	0		Source: Amateur Radio
<hr/>				
NOBLE COUNTY --- LIGONIER [41.47, -85.58]	09/20/14 16:41 EST	0		Thunderstorm Wind (EG 55 kt)
	09/20/14 16:42 EST	0		Source: State Official
Local officials reported a large tree was blown down onto a local residence. No injuries were reported and no monetary details were available.				
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KOSCIUSKO COUNTY --- 2.8 N NORTH WEBSTER [41.36, -85.70]	09/20/14 16:42 EST	0		Thunderstorm Wind (EG 52 kt)
	09/20/14 16:43 EST	0		Source: Official NWS Observations
Wind gusts were estimated to 60 mph at the NWS office north of North Webster.				
<hr/>				
NOBLE COUNTY --- 1.7 NE COSPERVILLE [41.50, -85.45]	09/20/14 16:46 EST	0		Thunderstorm Wind (EG 55 kt)
	09/20/14 16:47 EST	0		Source: State Official
Local officials reported a large tree was blown down at County Road 125 West and 1050 North.				
<hr/>				
NOBLE COUNTY --- 2.2 WSW WAWAKA [41.46, -85.52]	09/20/14 16:50 EST	0		Thunderstorm Wind (EG 55 kt)
	09/20/14 16:51 EST	0		Source: State Official
Local officials reported a large tree was blown down on County Road 525 West, south of US-6.				
<hr/>				
NOBLE COUNTY --- 0.7 N WOLCOTTVILLE [41.53, -85.37]	09/20/14 16:51 EST	0		Thunderstorm Wind (EG 60 kt)
	09/20/14 16:52 EST	0		Source: Public
Four trees were reported blown down at a local residence with the top of a fifth tree being broken off at the top.				
<hr/>				
NOBLE COUNTY --- 2.1 SW ROME CITY [41.48, -85.41]				

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/20/14 16:53 EST		0	Thunderstorm Wind (EG 55 kt)
	09/20/14 16:54 EST		0	Source: State Official

Local officials reported a large tree was blown down in the 9000 block of North Steinbarger Road.

NOBLE COUNTY --- 1.2 ENE KENDALLVILLE ARPT [41.49, -85.25]

	09/20/14 16:58 EST		0	Thunderstorm Wind (EG 55 kt)
	09/20/14 16:59 EST		0	Source: State Official

Local officials reported a large tree was blown down onto County Road 900 East north of Circle Drive.

WHITLEY COUNTY --- 1.4 N LORANE [41.22, -85.57]

	09/20/14 16:58 EST		0	Thunderstorm Wind (EG 52 kt)
	09/20/14 16:59 EST		0	Source: Emergency Manager

Emergency management officials estimated wind gusts to 60 mph at the intersection of County Roads 250 West and 700 North.

LAGRANGE COUNTY --- STROH [41.58, -85.20]

	09/20/14 17:00 EST		0	Thunderstorm Wind (EG 60 kt)
	09/20/14 17:01 EST		0	Source: Emergency Manager

Emergency management officials reported a 14 inch diameter tree was blown down.

Moderate instability and deep layer shear was in place across the region ahead of upper level disturbance. Scattered thunderstorms developed in portions of eastern Illinois into Lake Michigan and moved east. Several storms exhibited bowing structures with locally stronger wind gusts in excess of 70 mph, causing widespread wind damage in several communities of western Indiana.

LAKE MICHIGAN

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]

	09/05/14 16:00 EST		0	Marine Thunderstorm Wind (MG 42 kt)
	09/05/14 16:01 EST		0	Source: Buoy

A buoy offshore from Cook Nuclear plant recorded a 48 mph wind gust.

Thunderstorms developed over southern Lake Michigan ahead of a cold front. Gusty winds were recorded along the lake shore areas as the storms moved onshore.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH GLOS STATION (SJOM4) [42.10, -86.49]

	09/20/14 13:29 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	09/20/14 13:30 EST		0	Source: C-MAN Station

A 40 mph wind gust was recorded at the Michigan City GLOS station.

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]

	09/20/14 14:25 EST		0	Marine Thunderstorm Wind (MG 40 kt)
	09/20/14 14:26 EST		0	Source: C-MAN Station

Wind gust measured at the Michigan City marine observation station.

NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]

	09/20/14 14:40 EST		0	Marine Thunderstorm Wind (MG 36 kt)
	09/20/14 14:41 EST		0	Source: Buoy

A 42 mph wind gust was recorded at a buoy located west of Cook Nuclear Plant.

Moderate instability and deep layer shear was in place across the region ahead of upper level disturbance. Scattered thunderstorms developed in portions of eastern Illinois into Lake Michigan and moved east, causing strong wind gusts as they moved onshore.

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MICHIGAN, Extreme Southwest				
BERRIEN COUNTY --- 1.0 E EDGEWATER [42.12, -86.45]				
	09/05/14 16:05 EST		0	Thunderstorm Wind (EG 50 kt)
	09/05/14 16:06 EST		0	Source: Emergency Manager
Emergency management officials reported several trees down in the area up to four inches in diameter.				
ST. JOSEPH COUNTY --- STURGIS [41.80, -85.42]				
	09/05/14 16:48 EST		0	Hail (1.00 in)
	09/05/14 16:49 EST		0	Source: Fire Department/Rescue
ST. JOSEPH COUNTY --- STURGIS [41.80, -85.42]				
	09/05/14 16:52 EST		0	Hail (1.00 in)
	09/05/14 16:53 EST		0	Source: Trained Spotter
BRANCH COUNTY --- 1.4 S LACKWOOD [41.86, -85.05]				
	09/05/14 17:13 EST		0	Thunderstorm Wind (EG 50 kt)
	09/05/14 17:14 EST		0	Source: Emergency Manager
Emergency management officials reported a tree was blown down onto a local road.				
HILLSDALE COUNTY --- 0.7 N ALLEN [41.96, -84.77]				
	09/05/14 17:50 EST		0	Thunderstorm Wind (EG 50 kt)
	09/05/14 17:51 EST		0	Source: Emergency Manager
Emergency management officials reported a tree was blown down onto US-12 in Allen.				
HILLSDALE COUNTY --- 0.9 SW LITCHFIELD [42.04, -84.76]				
	09/05/14 17:50 EST		0	Thunderstorm Wind (EG 50 kt)
	09/05/14 17:51 EST		0	Source: Emergency Manager
Emergency management officials reported power lines down in the area.				
CASS COUNTY --- 0.2 NNE DAILEY [41.88, -86.08]				
	09/05/14 18:20 EST		0	Thunderstorm Wind (EG 55 kt)
	09/05/14 18:21 EST	1	0	Source: Law Enforcement
Local law enforcement reported a tree was blown down onto a vehicle traveling on M-60, near Liberty Road. One of the two occupants in the vehicle was transported to the hospital with minor injuries.				
CASS COUNTY --- EDWARDSBURG [41.80, -86.08]				
	09/05/14 18:20 EST		0	Thunderstorm Wind (MG 51 kt)
	09/05/14 18:21 EST		0	Source: Public
The public recorded at 59 mph wind gust.				
A cold front moves across the region, interacting with surface based CAPE values in excess of 5000 j/kg and abundant low level moisture. Shear through much of the atmosphere was lacking across the area, resulting in marginally severe thunderstorms with occasional downbursts producing isolated large hail incidents.				
HILLSDALE COUNTY --- 2.1 NW BANKERS [41.92, -84.73]				
	09/20/14 17:31 EST		0	Thunderstorm Wind (MG 55 kt)
	09/20/14 17:32 EST		0	Source: Trained Spotter
A trained spotter measure a wind gust to 63 mph.				
HILLSDALE COUNTY --- 0.5 E BANKERS [41.90, -84.69]				
	09/20/14 17:39 EST		0	Thunderstorm Wind (EG 55 kt)
	09/20/14 17:40 EST		0	Source: Emergency Manager
Emergency management officials reported trees were blown down in the area.				

Storm Data and Unusual Weather Phenomena - September 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Moderate instability and deep layer shear was in place across the region ahead of upper level disturbance. Scattered thunderstorms developed in portions of eastern Illinois into Lake Michigan and moved east. Several storms exhibited bowing structures with pockets of wind damage across Hillsdale county.

OHIO, Northwest

WILLIAMS COUNTY --- 1.2 NW PIONEER [41.69, -84.55]

09/05/14 18:40 EST		0		Thunderstorm Wind (EG 55 kt)
09/05/14 18:41 EST		0		Source: State Official

Local officials reported several trees were blown down onto power lines in the area.

WILLIAMS COUNTY --- 0.7 N WEST UNITY [41.59, -84.43]

09/05/14 18:50 EST		0		Thunderstorm Wind (EG 50 kt)
09/05/14 18:51 EST		0		Source: State Official

Local officials reported several down tree branches onto power lines in the area.

A cold front moves across the region, interacting with surface based CAPE values in excess of 5000 j/kg and abundant low level moisture. Shear through much of the atmosphere was lacking across the area, resulting in marginally severe thunderstorms with occasional downbursts producing isolated wind damage or large hail incidents.

VAN WERT COUNTY --- 2.6 E MIDDLE PT [40.85, -84.38]

09/10/14 16:15 EST		0		Thunderstorm Wind (EG 55 kt)
09/10/14 16:16 EST		0		Source: Emergency Manager

Emergency management officials reported a barn door was blown off with partial removal of roofing material . Localized damage to crops was also observed adjacent to the property.

Low pressure moved across Wisconsin during the afternoon hours with a strong southwesterly flow resulting in deep layer shear of over 60 knots. Despite the favorable wind fields, instability was limited due to extensive cloud cover. An isolated strong wind gusts caused some damage in Van Wert county.

Storm Data and Unusual Weather Phenomena - October 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
KOSCIUSKO COUNTY --- 2.7 ENE WARSAW [41.24, -85.78]				
	10/06/14 15:30 EST	0		Hail (0.88 in)
	10/06/14 15:31 EST	0		Source: Trained Spotter
ALLEN COUNTY --- 1.7 WNW HUGO [41.06, -85.21]				
	10/06/14 15:42 EST	0		Hail (0.88 in)
	10/06/14 15:43 EST	0		Source: Public
NOBLE COUNTY --- 1.7 NW SWAN [41.34, -85.24]				
	10/06/14 16:25 EST	0		Hail (0.75 in)
	10/06/14 16:26 EST	0		Source: Trained Spotter
DE KALB COUNTY --- 0.5 E ALTONA [41.35, -85.14]				
	10/06/14 16:35 EST	0		Hail (0.88 in)
	10/06/14 16:36 EST	0		Source: Trained Spotter
Upper level system moved across the region with surface based CAPE values in the 500 to 1000 J/KG range and limited moisture in place. This allowed for the development of scattered thunderstorms with a few producing mainly sub severe hail.				
STARKE COUNTY --- 1.5 SSE ALDINE [41.18, -86.67]				
	10/07/14 13:37 CST	0		Hail (0.75 in)
	10/07/14 13:38 CST	0		Source: Trained Spotter
LA PORTE COUNTY --- 0.9 SW BELFAST [41.62, -86.74]				
	10/07/14 14:18 CST	0		Hail (0.75 in)
	10/07/14 14:19 CST	0		Source: Public
FULTON COUNTY --- 3.2 SSE PERSHING [41.06, -86.29]				
	10/07/14 14:25 EST	0		Hail (1.25 in)
	10/07/14 14:26 EST	0		Source: Amateur Radio
FULTON COUNTY --- 0.7 N ROCHESTER [41.08, -86.22]				
	10/07/14 14:45 EST	0		Hail (0.75 in)
	10/07/14 14:46 EST	0		Source: Trained Spotter
FULTON COUNTY --- 1.7 WSW AKRON [41.04, -86.03]				
	10/07/14 15:05 EST	0		Hail (1.00 in)
	10/07/14 15:06 EST	0		Source: Public
FULTON COUNTY --- 1.7 WSW AKRON [41.04, -86.03]				
	10/07/14 15:09 EST	0		Hail (0.75 in)
	10/07/14 15:10 EST	0		Source: Trained Spotter
Hail to the size of pennies accumulated around an inch on local roads.				
WABASH COUNTY --- 1.7 NE LAKETON [41.00, -85.81]				
	10/07/14 15:25 EST	0		Hail (0.75 in)
	10/07/14 15:26 EST	0		Source: Trained Spotter
WABASH COUNTY --- 0.5 E LAKETON [40.98, -85.82]				
	10/07/14 15:30 EST	0		Hail (1.00 in)
	10/07/14 15:31 EST	0		Source: Trained Spotter
ALLEN COUNTY --- 0.7 S WAYNE DALE [41.01, -85.18]				

Storm Data and Unusual Weather Phenomena - October 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	10/07/14 15:38 EST		0	Hail (0.75 in)
	10/07/14 15:39 EST		0	Source: Public
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ALLEN COUNTY --- 2.7 WNW HESSAN CASTLE [40.99, -85.13]				
	10/07/14 15:45 EST		0	Hail (0.75 in)
	10/07/14 15:46 EST		0	Source: Trained Spotter
<hr/>				
HUNTINGTON COUNTY --- 1.0 W HUNTINGTON [40.88, -85.50]				
	10/07/14 16:00 EST		0	Hail (0.88 in)
	10/07/14 16:01 EST		0	Source: Trained Spotter
<hr/>				
HUNTINGTON COUNTY --- 3.5 N HUNTINGTON [40.93, -85.47]				
	10/07/14 16:04 EST		0	Hail (0.75 in)
	10/07/14 16:05 EST		0	Source: Emergency Manager
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Emergency management officials reported hail on State Route 9 between County Roads 600 and 700 North. The hail accumulated to around an inch on all surfaces.				
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HUNTINGTON COUNTY --- 1.0 W HUNTINGTON [40.88, -85.50]				
	10/07/14 16:05 EST		0	Hail (1.00 in)
	10/07/14 16:06 EST		0	Source: Public
<hr/>				
HUNTINGTON COUNTY --- 2.5 WNW HUNTINGTON [40.90, -85.52], 0.7 SW HUNTINGTON [40.87, -85.49]				
	10/07/14 16:05 EST		0	Thunderstorm Wind (EG 56 kt)
	10/07/14 16:08 EST		0	Source: NWS Storm Survey
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A NWS survey of damage across the city of Huntington revealed a swath of damage consistent with sporadic wind damage along a three mile path from roughly 1.5 miles northwest of Huntington to 1.5 miles southeast of Huntington. Damage along the path was generally isolated in nature and mainly consisted of tree damage or structural damage resulting from fallen trees. Roof damage to a storage unit was also observed near the intersection of North State Road 9 and Commerce Road. No injuries were reported.				
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WELLS COUNTY --- 1.5 SSW VERA CRUZ [40.68, -85.09]				
	10/07/14 18:24 EST		0	Hail (0.88 in)
	10/07/14 18:25 EST		0	Source: Trained Spotter
<hr/>				
A weak disturbance moved across the region during the afternoon hours. 30 to 40 knots of shear and modest instability allowed for a few thunderstorms to produce large hail and locally damaging winds.				
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(IN-Z003) LA PORTE				
	10/31/14 10:45 CST		0	High Wind (MAX 52 kt)
	10/31/14 10:46 CST		0	
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Strong low pressure moved across the Great Lakes, bringing gusty winds to much of the area. Wind gusts near the shores of Lake Michigan were locally higher, with some isolated wind damage from the strongest wind gusts.				
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LAKE MICHIGAN				
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MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]				
	10/31/14 09:30 EST		0	Marine High Wind (MG 58 kt)
	10/31/14 11:40 EST		0	Source: C-MAN Station

Sustained winds of around in the 40 to 50 knot range occurred for several hours (time range noted in the entry) at the Michigan City C-Man station. The highest wind gust was 58 knots (67 mph) which occurred at 1120 am EST. A lifeguard house on the beach was blown off its supports and thrown several feet from its normal location.

Strong low pressure moved across the region, bringing gale to storm force wind gusts to much of the Great Lakes.

Storm Data and Unusual Weather Phenomena - October 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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OHIO, Northwest

PUTNAM COUNTY --- OTTAWA [41.02, -84.05]

10/06/14 16:42 EST	0	Hail (0.75 in)
10/06/14 16:43 EST	0	Source: Trained Spotter

Upper level system moved across the region with surface based CAPE values in the 500 to 1000 J/KG range and limited moisture in place. This allowed for the development of scattered thunderstorms with a few producing mainly sub severe hail.

Storm Data and Unusual Weather Phenomena - November 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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INDIANA, Northeast

(IN-Z003) LA PORTE

	11/13/14 06:00 CST	0	0	Winter Weather
	11/14/14 10:00 CST	0	0	

(IN-Z004) ST. JOSEPH

	11/13/14 06:00 EST	0	0	Lake-Effect Snow
	11/14/14 10:00 EST	0	0	

An early season lake effect snow event brought accumulations and hazardous travel to far northern Indiana November 13th into early November 14th. The heaviest snow accumulations were in the South Bend area where more than a foot of snow fell.

(IN-Z004) ST. JOSEPH

	11/17/14 19:00 EST	0	0	Lake-Effect Snow
	11/18/14 11:00 EST	0	0	

Persistent lake effect snow bands produced accumulating snow, blowing snow, and hazardous travel conditions late November 17th and November 18th along the Indiana Toll in far northern St. Joseph County. Total snow accumulations generally ranged between 3 and 8 inches.

(IN-Z007) STEUBEN, (IN-Z008) NOBLE, (IN-Z009) DE KALB, (IN-Z016) KOSCIUSKO, (IN-Z017) WHITLEY, (IN-Z018) ALLEN, (IN-Z022) CASS, (IN-Z023) MIAMI, (IN-Z024) WABASH, (IN-Z025) HUNTINGTON, (IN-Z032) GRANT

	11/24/14 10:13 EST	0	0	High Wind (MAX 50 kt)
	11/24/14 19:00 EST	0	0	

ALLEN COUNTY --- 2.5 N WESTLAWN [41.12, -85.25], 0.7 N WESTLAWN [41.09, -85.25], 0.6 S ARCOLA [41.09, -85.30], 1.2 NNE ARCOLA [41.12, -85.29]

	11/24/14 11:38 EST	0	0	Flood (due to Heavy Rain)
	11/24/14 14:00 EST	0	0	Source: Emergency Manager

High water in the area of Seegar Ditch caused temporary road closures.

Strong winds of 45 to 60 knots in the 900 to 850 mb layer were mixed to the surface courtesy of a intense mesoscale wave. Steep lapse rates exceeding 9.5 c.km aided in the transport of the winds to the surface. The strongest winds were seen generally east of State Route 15 where sustained winds of 35 to 40 mph persisted for several hours with gusts in the 45 to nearly 60 mph range at times. West of 15, winds were slightly lower, sustained in the 30 to 35 mph range with gusts to 45 mph.

LAKE MICHIGAN

MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCY13) [41.73, -86.91]

	11/24/14 17:05 EST	0	0	Marine High Wind (MG 48 kt)
	11/24/14 17:06 EST	0	0	Source: C-MAN Station

A 55 mph wind gust was recorded at the Michigan City marine station.

Strong winds of 45 to 60 knots in the 900 to 850 mb layer were mixed to the surface courtesy of a intense mesoscale wave. Steep lapse rates exceeding 9.5 c.km aided in the transport of the winds to the surface. Wind gusts in excess of 50 mph were recorded at several marine sites.

MICHIGAN, Extreme Southwest

(MI-Z077) BERRIEN, (MI-Z078) CASS, (MI-Z079) ST. JOSEPH

	11/17/14 16:00 EST	0	0	Lake-Effect Snow
	11/18/14 15:00 EST	0	0	

Storm Data and Unusual Weather Phenomena - November 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Persistent lake effect snow bands produced accumulating snow, blowing snow, and hazardous travel conditions late November 17th and November 18th. Total snow accumulations generally ranged between 3 and 8 inches, with localized amounts in excess of a foot.

(MI-Z079) ST. JOSEPH, (MI-Z081) HILLSDALE

11/24/14 11:13 EST	0	High Wind (MAX 50 kt)
11/24/14 19:00 EST	0	

Strong winds of 45 to 60 knots in the 900 to 850 mb layer were mixed to the surface courtesy of a intense mesoscale wave. Steep lapse rates exceeding 9.5 C/KM aided in the transport of the winds to the surface. The strongest winds were seen generally east of I-69 where sustained winds of 35 to 40 mph persisted for several hours with gusts in the 45 to nearly 60 mph range at times. West of the interstate, winds were slightly lower, sustained in the 30 to 35 mph range with gusts to 45 mph.

OHIO, Northwest

(OH-Z001) WILLIAMS, (OH-Z002) FULTON, (OH-Z004) DEFIANCE, (OH-Z005) HENRY, (OH-Z015) PAULDING, (OH-Z016) PUTNAM, (OH-Z024) VAN WERT, (OH-Z025) ALLEN

11/24/14 12:25 EST	0	High Wind (MAX 50 kt)
11/24/14 19:00 EST	0	

Strong winds of 45 to 60 knots in the 900 to 850 mb layer were mixed to the surface courtesy of a intense mesoscale wave. Steep lapse rates exceeding 9.5 c.km aided in the transport of the winds to the surface. Sustained winds of 35 to 40 mph persisted for several hours with gusts in the 45 to nearly 60 mph range at times.