

Storm Data and Unusual Weather Phenomena

January 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

INDIANA, Northeast

INZ003>004

La Porte - St. Joseph

19 1505EST
20 1100EST

0 0 0

Heavy Snow

Heavy lake effect snow accumulated around 12 inches across Laporte county with 13.5 inches in the city of Laporte and 11.7 inches in Rolling Prairie. Snow accumulated around 8 inches in parts of St Joseph county with 8.5 inches reported in North Liberty.

INZ017>018-020-022>027-032>034 **Whitley - Allen - White - Cass - Miami - Wabash - Huntington - Wells - Adams - Grant - Blackford - Jay**

26 0100EST
0500EST

0 0 0

Winter Storm

Snow accumulated 2 to 5 inches across the area with with east to northeast winds of 20 to 30 mph causing extensive blowing and drifting snow. Snow drifts were as high as 4 feet across some county roads.

INZ004>007

St. Joseph - Elkhart - Lagrange - Steuben

27 2100EST
28 0400EST

0 0 0

Heavy Snow

A combination of snow from an area of low pressure moving across Ohio and lake enhancement from northwest flow behind this storm caused heavy snow across the area with general accumulations of 8 to 10 inches and over 12 inches in some locations.

MICHIGAN, Extreme Southwest

MIZ077>078

Berrien - Cass

19 1505EST
20 1100EST

0 0 0

Heavy Snow

Heavy lake effect snow accumulated 8 to 9 inches across northern Berrien county into Cass county with 8 inches at Watervliet and 9 inches at Dowagiac.

MIZ078>081

Cass - St. Joseph - Branch - Hillsdale

27 2100EST
28 0400EST

0 0 0

Heavy Snow

A combination of snow from an area of low pressure moving across Ohio and lake enhancement from northwest flow behind this storm caused heavy snow across the area with general accumulations of 8 to 10 inches and over 12 inches in some locations.

OHIO, Northwest

OHZ015>016-024>025

Paulding - Putnam - Van Wert - Allen

26 0100EST
0500EST

0 0 0

Winter Storm

Snow accumulated 4 to 6 inches across Allen, Putnam, Van Wert, and Paulding counties with east to northeast winds of 20 to 30 mph causing extensive blowing and drifting snow. Snow drifts were as high as 4 feet across some county roads.

Storm Data and Unusual Weather Phenomena

March 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons	Estimated Damage	Character of Storm
					Killed	Injured	Property
							Crops

INDIANA, Northeast

La Porte County

2 S Michigan City	01	1854EST			0	0	0	Hail(1.00)
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INZ003>009-012>018-020-022>027-032>034 La Porte - St. Joseph - Elkhart - Lagrange - Steuben - Noble - De Kalb - Starke - Pulaski - Marshall - Fulton - Kosciusko - Whitley - Allen - White - Cass - Miami - Wabash - Huntington - Wells - Adams - Grant - Blackford - Jay

05	0930EST 1630EST				0	0	0	High Wind (MG52)
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An intense area of low pressure moving across Michigan produced sustained winds of 40 MPH with measured gusts to 60 MPH across all of Northern Indiana, Northwest Ohio and Southwest Lower Michigan from late morning through early evening. Widespread reports of trees and power lines down were received from law enforcement across the region.

INZ034

	Jay				0	0	0	Heavy Snow
16	1647EST				0	0	0	

Low pressure moving across Kentucky caused snow across much of Northeast Indiana and Northwest Ohio with amounts generally 1 to 3 inches. Heavier snow fell in a band across Jay county where a total of 7 inches was reported.

Marshall County

Bremen	30	1320EST			0	0	0	Hail(0.75)
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MICHIGAN, Extreme Southwest

Berrien County

6 E Buchanon	01	1953EST			0	0	0	Hail(0.75)
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Cass County

5 N Cassopolis	01	2010EST			0	0	0	Hail(0.75)
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MIZ077>081

	Berrien - Cass - St. Joseph - Branch - Hillsdale				0	0	0	High Wind (MG52)
05	1200EST 1630EST				0	0	0	

An intense area of low pressure moving across Michigan produced sustained winds of 40 MPH with measured gusts to 60 MPH across all of Northern Indiana, Northwest Ohio and Southwest Lower Michigan from late morning through early evening. Widespread reports of trees and power lines down were received from law enforcement across the region.

OHIO, Northwest

OHZ001>002-004>005-015>016-024>025 Williams - Fulton - Defiance - Henry - Paulding - Putnam - Van Wert - Allen

05	1330EST 1630EST				0	0	0	High Wind (MG52)
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An intense area of low pressure moving across Michigan produced sustained winds of 40 MPH with measured gusts to 60 MPH across all of Northern Indiana, Northwest Ohio and Southwest Lower Michigan from late morning through early evening. Widespread reports of trees and power lines down were received from law enforcement across the region.

Storm Data and Unusual Weather Phenomena

April 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

INDIANA, Northeast

Starke County

7 S Knox	17	1730EST			0	0	0		Hail(0.75)
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Miami County

1 W Amboy to Amboy	20	1824EST 1826EST	1	50	0	0	0		Tornado (F0)
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Emergency Management reported a brief tornado touchdown near Amboy. NWS survey found swirling in field. Tornado was skipping as it moved east northeast. Path length was about one mile near Amboy with with no discernable damage and rated F0.

Wabash County

1 SW Lincolnville to 1 NE Lincolnville	20	1908EST 1911EST	2	150	0	0	75K		Tornado (F1)
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NWS storm survey team found F1 damage near Lincolnville with two homes heavily damaged and a barn destroyed. The tornado was skipping as it moved along a 2 mile path length and was around 150 yards wide at the widest point.

Huntington County

5 SW Huntington to 1.5 SW Huntington	20	1925EST 1930EST	3.5	50	0	0	25K		Tornado (F0)
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NWS storm survey team found F0 damage to five homes and in trees southwest of Huntington. The tornado was skipping along a three and one half mile path and was around 50 yards wide.

Grant County

2 E Fairmount to Upland	20	1926EST 1931EST	4	100	0	0	0		Tornado (F0)
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NWS storm survey team found F0 damage to trees and power lines with a few power poles snapped off from east of Fairmount to near Upland. The tornado was skipping along the 4 mile path length and was around 100 yards wide.

Grant County

Pt Isabel	20	1931EST	0.2	50	0	0	0		Tornado (F0)
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NWS storm survey team found a brief touchdown in a field near Point Isabel with no discernible damage.

Huntington County

2.5 E Huntington to 2 SE Roanoke	20	1940EST	6	150	0	0	0		Tornado (F0)
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NWS storm survey team found F0 damage to trees from east of Huntington to southeast of Roanoke. The tornado was skipping along a 6 mile wide path and was 50 yards wide.

On April 20th, 2004 a warm front located across central Indiana in the afternoon began to move north in the evening as a strong southerly flow rode over the front, creating an favorable environment for rapid thunderstorm development. Favorable wind shear existed along the boundary with east to southeast surface winds north of the boundary and south to southwest surface winds just south of the boundary, leading to the rapid evolution of the storms into rotating supercells. One of these supercells was responsible for tornadoes in Miami, Wabash, and Huntington counties, with other storms producing two tornadoes in Grant county.

Storm Data and Unusual Weather Phenomena

May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Northeast</u>									
Steuben County									
7 S Angola	06	2011EST			0	0	0		Hail(0.88)
Amateur radio spotter reported nickel size hail at Pleasant Lake.									
Elkhart County									
Elkhart	06	2055EST			0	0	0		Hail(0.88)
Lagrange County									
6 NNW Lagrange	06	2109EST			0	0	0		Hail(4.25)
Law enforcement reported softball size hail in Howe, northwest of the city of La Grange.									
Marshall County									
3 W Plymouth	06	2114EST			0	0	0		Hail(1.00)
Marshall County									
2 NE Plymouth	06	2120EST			0	0	0		Hail(0.75)
Kosciusko County									
Warsaw	06	2159EST			0	0	0		Hail(0.75)
De Kalb County									
Butler	06	2200EST			0	0	0		Thunderstorm Wind (EG50)
Law enforcement reported several trees down in Butler.									
Whitley County									
2 NE Columbia City	07	0720EST			0	0	0		Hail(1.00)
Allen County									
1 N Ft Wayne	07	0732EST			0	0	0		Hail(1.00)
Whitley County									
2 NW Columbia City	07	0732EST			0	0	0		Hail(0.75)
Allen County									
1 S Ft Wayne	07	0734EST			0	0	0		Hail(1.00)
Allen County									
Ft Wayne	07	0740EST			0	0	0		Hail(1.00)
Allen County									
1 NW Ft Wayne	07	0743EST 0758EST			0	0	0		Hail(1.00)
Trained spotter reported dime to quarter size hail covering the ground just northwest of Fort Wayne. The hail lasted for about 15 minutes.									
Allen County									
1 NW Ft Wayne	07	0745EST			0	0	0		Hail(0.75)
Whitley County									
Columbia City	07	0750EST			0	0	0		Hail(0.75)
White County									
3 S Wolcott	07	0803EST			0	0	0		Thunderstorm Wind (EG65)
Trained spotter estimated winds of 75 MPH 3 miles south of Wolcott.									
White County									
1 W Monticello	07	0815EST			0	0	0		Thunderstorm Wind (EG55)
Law enforcement reported numerous trees and power lines down west of Monticello.									
Cass County									
Logansport	07	0834EST			0	0	0		Thunderstorm Wind (EG50)
Emergency management reported numerous trees down in Logansport.									
Kosciusko County									
Silver Lake	07	0840EST			0	0	0		Hail(1.00)
Allen County									
1 SW Ft Wayne	07	0856EST			0	0	0		Hail(0.75)

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Northeast</u>									
Miami County 6 SE Peru	07	0906EST			0	0	0		Hail(0.75)
Allen County Ft Wayne	07	0912EST			0	0	0		Hail(1.50)
Wells County 1 N Ossian	07	0950EST			0	0	0		Hail(0.75)
Allen County Monroeville	07	0955EST			0	0	0		Hail(1.00)
INZ018 Allen	07	1035EST 1135EST			0	0	0		Flood
Emergency management reported minor flooding of streets in Fort Wayne and creeks and streams at bankfull across the county.									
Elkhart County 2 NW Goshen	08	1913EST			0	0	0		Hail(1.00)
Lagrange County 7 S Lagrange	08	1952EST			0	0	0		Hail(0.75)
White County Brookston	18	1505EST			0	0	0		Hail(1.25)
La Porte County Michigan City	20	2150EST			0	0	0		Thunderstorm Wind (MG52)
Michigan City U.S. Coast Guard reported a measured wind gust of 60 MPH.									
St. Joseph County South Bend	20	2230EST			0	0	0		Thunderstorm Wind (EG55)
Law enforcement reported widespread trees and power lines down in South Bend.									
St. Joseph County 4 S South Bend	20	2230EST			0	0	0		Thunderstorm Wind (EG56)
Trained spotter estimated wind gusts to 65 mph south of South Bend.									
St. Joseph County 1 S South Bend	21	1127EST			0	0	0		Thunderstorm Wind (EG52)
Trained spotter estimated winds gusting to 60 MPH south of South Bend.									
Elkhart County 1 N Elkhart	21	1141EST			0	0	0		Thunderstorm Wind (EG61)
Amateur radio reported an estimated wind gust to around 70 MPH north of Elkhart.									
Marshall County Bremen	21	1141EST			0	0	0		Thunderstorm Wind (EG50)
Law enforcement reported trees down in Bremen.									
Elkhart County 2 N Millersburg	21	1145EST			0	0	2K		Thunderstorm Wind (EG55)
An off duty NWS employee north of Millersburg reported a section of a barn down, mailboxes blown off stands, and Amish buggies blown over 100 feet.									
Lagrange County Countywide	21	1201EST 1211EST			0	0	10K		Thunderstorm Wind (EG60)
Law enforcement reported trees down countywide with cars flipped over in a few locations.									
Elkhart County Middlebury	21	1203EST			0	0	0		Hail(0.75)
Elkhart County 6 SE Goshen	21	1210EST			0	0	25K		Thunderstorm Wind (EG55)
Law enforcement reported a roof blown off a barn near Goshen. Trees and power lines were down countywide with over 10,000 homes without power. 2 homes were damaged and 3 barns damaged.									

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<u>INDIANA, Northeast</u>									
Kosciusko County Milford	21	1220EST			0	0	0		Thunderstorm Wind (EG50)
			Law enforcement reported trees down in Milford.						
Steuben County Orland	21	1230EST			0	0	0		Thunderstorm Wind (EG55)
			Emergency management reported trees down in Orland.						
Kosciusko County Leesburg	21	1235EST			0	0	0		Hail(0.75)
Noble County 4 NE Albion	21	1237EST			0	0	0		Thunderstorm Wind (EG55)
			Law enforcement reported trees and power lines down near Albion.						
Lagrange County 10 E Lagrange	21	1240EST			0	0	0		Hail(0.75)
Allen County 2 N Ft Wayne	21	1313EST			0	0	0		Thunderstorm Wind (EG61)
			Amateur radio reported an estimated wind gust to 70 MPH north of Fort Wayne.						
De Kalb County Garrett	21	1330EST			0	0	0		Thunderstorm Wind (EG55)
			Law enforcement reported trees down in Garrett.						
Allen County 5 NE Ft Wayne	21	1344EST			0	0	0		Thunderstorm Wind (EG55)
			Amateur radio reported power lines down and a power pole snapped northeast of Fort Wayne.						
Allen County 1 NW Ft Wayne	21	1345EST			0	0	0		Hail(1.00)
			Broadcast media reported quarter size hail northwest of Fort Wayne.						
Adams County Decatur	21	1427EST			0	0	0		Hail(1.00)
Jay County 1 SW Portland	21	1615EST			0	0	0		Hail(0.88)
La Porte County 7 NE La Porte	22	1340EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported several trees down northeast of La Porte.						
Starke County 3 E North Judson	22	1420EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down near North Judson.						
Elkhart County 5 N Goshen	22	1440EST			0	0	0		Hail(1.00)
Elkhart County 2 W Middlebury	22	1450EST			0	0	0		Thunderstorm Wind (EG50)
			Public reported trees down west of Middlebury.						
Kosciusko County Warsaw	22	1505EST			0	0	0		Thunderstorm Wind (EG51)
			An off duty NWS employee estimated wind gusts to 60 MPH in Warsaw.						
Whitley County 9 NNE Larwill	22	1520EST			0	0	0		Thunderstorm Wind (EG50)
			An off duty NWS employee reported large tree limbs down north of Larwill.						
White County Burnettsville	23	1414EST			0	0	0		Hail(0.75)
Cass County 1 W Lake Cicott	23	1416EST			0	0	0		Hail(0.75)

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					Killed	Injured	Property	Crops	
INDIANA, Northeast									
Cass County									
7 W Logansport	23	1420EST			0	0	0		Hail(1.75)
White County									
Brookston	23	1430EST			0	0	0		Hail(1.75)
White County									
Brookston	23	1430EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down throughout the southern half of the county.						
Fulton County									
Fulton	23	1435EST			0	0	0		Hail(0.75)
Fulton County									
2 SE Rochester	23	1450EST			0	0	0		Hail(1.00)
Miami County									
1 N Converse	23	1510EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees and power lines down near Converse.						
Kosciusko County									
1 S Sidney	23	1515EST			0	0	0		Hail(0.88)
Wabash County									
La Fontaine	23	1517EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down near La Fontaine.						
Huntington County									
1 SW Banquo	23	1525EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported a barn blown down southwest of Banquo.						
Grant County									
Sweetser	23	1530EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down in Sweetser.						
Huntington County									
Andrews	23	1530EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees and power lines down in Andrews.						
Huntington County									
2 S Huntington	23	1535EST			0	0	0		Thunderstorm Wind (EG50)
			Amateur radio reported trees and telephone poles down south of Huntington.						
Huntington County									
3 SW Huntington	23	1540EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down southwest of Huntington.						
Blackford County									
Hartford City	23	1542EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down in Hartford City.						
Wabash County									
2 N Wabash	23	1545EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down near the city of Wabash.						
Wells County									
Ossian	23	1550EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down in Ossian.						
Adams County									
Preble	23	1600EST			0	0	0		Thunderstorm Wind (EG50)
			Law enforcement reported trees down in Preble.						
Jay County									
3 NE Pennville	23	1605EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees down near Pennville.						
Adams County									
5 E Decatur	23	1608EST			0	0	0		Hail(0.75)

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<u>INDIANA, Northeast</u>									
Adams County 5 E Decatur	23	1608EST			0	0	0		Thunderstorm Wind (EG51) Trained spotter estimated wind gusts to 60 MPH.
Allen County 3 S Woodburn	23	1610EST			0	0	0		Thunderstorm Wind (EG50) Trained spotter reported trees down south of Woodburn.
Blackford County 4 S Hartford City	27	1635EST			0	0	0		Hail(0.88)
Jay County Dunkirk	27	1647EST			0	0	0		Thunderstorm Wind (EG50) Amateur radio reported trees down in Dunkirk.
La Porte County Countywide	30	1319EST 1329EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down throughout the county.
Starke County Knox	30	1325EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down in Knox.
St. Joseph County South Bend	30	1356EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down in South Bend.
Lagrange County 4 NE Lagrange	30	1455EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down northeast of the city of La Grange.
St. Joseph County Roseland	30	1830EST			0	0	0		Hail(0.88)
Cass County 3 NE Logansport	30	1940EST			0	0	2K		Thunderstorm Wind (EG50) Law enforcement reported damage to a church northeast of Logansport.
White County Monon	30	2009EST			0	0	0		Thunderstorm Wind (EG50) Emergency management reported trees and power lines down with a few power poles down as well.
Starke County Knox	30	2015EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees and power lines down in Knox.
La Porte County La Porte	30	2019EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down around La Porte.
Miami County 3.5 WSW Peru to 2.5 NNE Peru	30	2055EST 2103EST	4.5	360	0	1	6M		Tornado (F3)

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					Killed	Injured	Property	Crops	

INDIANA, Northeast



NIPSCO communications towers destroyed by F3 tornado just north of downtown Peru.

NWS storm survey found a tornado with a path length near four and one half miles and just less than one quarter mile wide at its greatest width. The storm touched down three and one half miles west southwest of downtown Peru as an F0 and moved northeast at 35 MPH across the northwest corner of the city of Peru. The storm then caused F1 and F2 damage to trees, buildings, and a trailer park where two homes were destroyed and one woman was injured. The storm then intensified to F3 strength as it moved across an industrial park on the north side of Peru, tearing off a roof and knocking down a large communications tower. The storm then quickly began to dissipate as it appeared the rear flank downdraft quickly choked off the circulation in a field near the intersection of Highways U.S. 24 and SR19. Damage estimates were from 5 to 6 million dollars to private property and more than one half million in public property. Miami county was declared a presidential disaster area on June 3rd.

Allen County

Ft Wayne

30	2330EST	0	0	0	Flash Flood
31	0130EST				

Fort Wayne flood control reported Spy Run Creek went out of its banks late Sunday night flooding some roads. Some sandbagging was needed to protect property along the creek but no damage to structures was reported.

MICHIGAN, Extreme Southwest

St. Joseph County

2 NE Constantine

06	2035EST	0	0	0	Thunderstorm Wind (EG50)
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Law enforcement reported numerous trees down northeast of Constantine.

Hillsdale County

North Adams

06	2120EST	0	0	0	Hail(2.00)
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Cass County

Edwardsburg

14	1225EST 1325EST	0	0	12K	Hail(1.50)
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Public reported hail to ping pong ball size in Edwardsburg on Eagle Lake. Damage was to roofs and a recreational vehicle.

Berrien County

4 S Niles

20	2225EST	0	0	0	Thunderstorm Wind (EG50)
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Emergency management reported trees down in Bertrand.

Cass County

Edwardsburg

20	2245EST	0	0	0	Thunderstorm Wind (EG50)
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Emergency reported trees down in Edwardsburg.

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<u>MICHIGAN, Extreme Southwest</u>									
St. Joseph County 4 SW White Pigeon	20	2315EST			0	0	0		Thunderstorm Wind (EG50) Trained spotter reported numerous trees down southwest of White Pigeon.
Berrien County Benton Harbor	21	1105EST			0	0	0		Thunderstorm Wind (EG60) Trained spotter reported trees down in Benton Harbor. Winds were estimated near 70 MPH.
Berrien County Berrien Spgs	21	1114EST			0	7	50K		Thunderstorm Wind (EG60) Law enforcement reported trees and power lines down in Berrien Springs and countywide. 7 injuries reported. Damage to the roofs of 6 buildings.
Berrien County Niles	21	1114EST			0	0	0		Thunderstorm Wind (EG60) Law enforcement reported trees and power lines down in Niles.
Berrien County 1 SE Coloma	21	1115EST			1	0	10K		Thunderstorm Wind (EG60) Emergency management reported a 4 foot diameter oak tree fell onto a vehicle as it was passing. The car was crushed and the 50 year old female driver was killed instantly. F50VE
Cass County Cassopolis	21	1120EST			0	0	5K		Thunderstorm Wind (EG60) Law enforcement reported trees and power lines down countywide and a semi truck rolled over.
St. Joseph County Three Rivers	21	1141EST			0	0	0		Thunderstorm Wind (MG68) Broadcast media weather station at Three Rivers High School recorded a wind gust to 78 MPH.
St. Joseph County Sturgis	21	1200EST			1	0	10K		Thunderstorm Wind (EG65) Emergency management reported a 36 year old female was driving in Sturgis when a large tree fell on her vehicle and crushed it. The driver was killed instantly. F36VE
St. Joseph County 3 N Colon	21	1202EST			1	0	10K		Thunderstorm Wind (EG65) A 71 year old male was killed when a large tree fell on his vehicle and crushed it as he was driving north of Colon. The driver was killed instantly. M71VE
Branch County Coldwater	21	1218EST			0	0	4K		Thunderstorm Wind (EG60) Emergency management reported trees and power lines down in Coldwater. A barn was also blown over.
Hillsdale County Countywide	21	1240EST 1250EST			0	0	0		Thunderstorm Wind (EG60) Emergency management reported trees and power lines down countywide.
Berrien County Watervliet	21	1950EST			0	0	0		Thunderstorm Wind (EG50) Emergency management reported trees down in Watervliet.
Berrien County Three Oaks	21	2240EST			0	0	0		Thunderstorm Wind (EG50) Emergency management reported trees down in Three Oaks.
Berrien County Benton Harbor	30	1350EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down in Benton Harbor.
Berrien County Niles	30	1401EST			0	0	0		Thunderstorm Wind (EG50) Amateur radio reported trees down in Niles.
Cass County Edwardsburg	30	1403EST			0	0	0		Thunderstorm Wind (EG50) Law enforcement reported trees down in Edwardsburg.

Storm Data and Unusual Weather Phenomena

May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MICHIGAN, Extreme Southwest</u>									
Cass County									
8 E Edwardsburg	30	1410EST			0	0	0		Thunderstorm Wind (EG50)
Law enforcement reported trees down east of Edwardsburg.									
St. Joseph County									
Constantine	30	1425EST			0	0	0		Thunderstorm Wind (EG50)
Law enforcement reported trees down in Constantine.									
Branch County									
Sherwood	30	1503EST			0	0	0		Thunderstorm Wind (EG50)
Law enforcement reported trees down in Sherwood.									
<u>OHIO, Northwest</u>									
Van Wert County									
2 S Scott	07	0813EST			0	0	0		Hail(0.88)
Van Wert County									
4 N Van Wert	07	0818EST			0	0	0		Hail(0.88)
Putnam County									
2 SW Ft Jennings	07	0836EST			0	0	0		Hail(0.88)
Allen County									
3 E Delphos	07	0850EST			0	0	0		Hail(1.25)
Allen County									
2 SE Delphos	07	0940EST			0	0	0		Hail(1.75)
Allen County									
2 E Lima	07	0940EST			0	0	0		Hail(0.75)
Van Wert County									
1 N Convoy	07	0940EST			0	0	0		Hail(0.88)
Van Wert County									
Van Wert	07	0943EST			0	0	0		Hail(1.00)
Allen County									
Ft Shawnee	07	1040EST			0	0	0		Hail(0.75)
Allen County									
Lima	07	1046EST			0	0	0		Hail(0.75)
Allen County									
Lima	07	1048EST			0	0	0		Hail(0.88)
Putnam County									
Continental	12	1242EST			0	0	2K		Thunderstorm Wind (EG50)
Law enforcement reported a wall blown down and the roof off of an abandoned gas station in Continental.									
Williams County									
5 NE Edon	17	1330EST			0	0	0		Hail(0.88)
Paulding County									
1 N Paulding	17	1348EST			0	0	0		Hail(1.00)
Fulton County									
Countywide	21	1310EST			0	0	0		Thunderstorm Wind (EG55)
Law enforcement reported trees and power lines down countywide.									
Van Wert County									
Van Wert	21	1356EST			0	0	0		Thunderstorm Wind (EG55)
Emergency management reported a telephone pole down in Van Wert.									
Allen County									
Lima	21	1406EST			0	0	0		Hail(0.88)

Storm Data and Unusual Weather Phenomena

May 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OHIO, Northwest</u>									
Van Wert County									
Van Wert	21	1406EST			0	0	2K		Thunderstorm Wind (EG60)
			Amateur radio reported a semi truck blown over in Van Wert.						
Paulding County									
2 S Payne	21	1410EST			0	0	0		Thunderstorm Wind (EG55)
			Emergency management reported trees down south of Payne.						
Putnam County									
8 SSE Kalida	21	1410EST			0	0	0		Thunderstorm Wind (EG52)
			General public reported an estimated wind gust to 60 MPH.						
Putnam County									
Countywide	21	1420EST 1440EST			0	0	0		Thunderstorm Wind (EG55)
			Emergency management reported trees and power lines down countywide.						
			On the morning of May 21st, a fast moving squall line developed in the morning over Lake Michigan and moved southeast across the Northern Indiana CWA. Measured wind gusts were to 78 MPH with other unconfirmed wind gusts estimated over 90 MPH. Trees and power lines down and the most widespread damage was north of a Michigan City to Van Wert Ohio line. Three deaths occurred during the event all the result of large trees crushing vehicles.						
Paulding County									
Countywide	23	1620EST 1630EST			0	0	3K		Thunderstorm Wind (EG56)
			Emergency management reported trees and power lines down countywide. 16 utility poles were down around Rt 127. Winds gusts were estimated near 70 MPH around Haviland where a grain bin was blown one half mile from its foundation.						
Van Wert County									
Venedocia	23	1632EST			0	0	0		Hail(0.75)
Allen County									
1 E Delphos	23	1635EST			0	0	0		Thunderstorm Wind (EG50)
			Law enforcement reported trees and power lines down east of Delphos.						
Defiance County									
Countywide	23	1645EST 1655EST			0	0	2K		Thunderstorm Wind (EG50)
			Emergency management reported trees and power lines down across the county with damage to a car from a fallen tree and roof damage to 2 businesses.						
Henry County									
Holgate	23	1652EST			0	0	0		Thunderstorm Wind (EG56)
			Amateur radio estimated wind gusts to 70 MPH in Holgate.						
Putnam County									
Continental	23	1652EST			0	0	0		Thunderstorm Wind (EG53)
			Amateur radio estimated wind gusts to 65 MPH in Continental.						
Henry County									
10 ENE Napoleon	23	1655EST			0	0	0		Thunderstorm Wind (EG50)
			Emergency management reported trees and power lines down east of Napoleon.						
Henry County									
Deshler	23	1700EST			0	0	0		Thunderstorm Wind (EG50)
			Amateur radio reported trees down in Deshler.						

Storm Data and Unusual Weather Phenomena

June 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Northeast</u>									
Cass County 4 W Logansport	11	0300EST 0430EST			0	0	5K		Flash Flood
									Emergency management reported US 24 flooded with large boulders from landscaping swept onto highway causing auto accidents.
Cass County Logansport	12	0530EST 0730EST			0	0	0		Flash Flood
									Emergency management reported roads closed with water flowing across roadways. 4 to 5 roads had water over 2 feet deep flowing across them.
Adams County Monroe	12	0538EST			0	0	0		Hail(1.00)
White County Monticello	12	0735EST 0835EST			0	0	0		Flash Flood
									Emergency management reported several roads across the county closed due to water over 2 foot deep flowing across them.
Cass County Logansport	12	0740EST 0840EST			0	0	0		Flash Flood
									Emergency management reported over 1 foot of water still flowing over 3 roads in Logansport.
White County 4 E Brookston	12	1820EST			0	0	0		Thunderstorm Wind (EG50)
									Emergency management reported 25 to 30 trees down east of Brookston.
Miami County 5 NE Peru	13	1348EST 1548EST			0	0	0		Flash Flood
									Law enforcement reported US 31 flooded and impassable in places east of Peru with water flowing across the highway.
Whitley County Washington Center	13	1408EST			0	0	0		Hail(0.75)
Whitley County Washington Center	13	1408EST			0	0	2K		Thunderstorm Wind (EG50)
									Emergency management reported a roof torn off a barn near Washington Center.
Whitley County Luther	13	1425EST			0	0	0		Hail(0.75)
Allen County Ft Wayne	13	1450EST			0	0	0		Hail(0.88)
Whitley County Washington Center	13	1520EST			0	0	0		Thunderstorm Wind (EG50)
									Emergency management reported numerous trees down near Washington Center.
Huntington County Huntington	13	1601EST			0	0	0		Hail(0.88)
Allen County Ft Wayne	13	1620EST 1750EST			0	0	0		Flash Flood
									Emergency management reported stalled vehicles and flash flooding in downtown Fort Wayne.
Allen County Ft Wayne	13	1620EST			0	0	0		Thunderstorm Wind (EG50)
									Emergency management reported trees and power lines down in the city of Fort Wayne.
Allen County New Haven	13	1635EST 1805EST			0	0	0		Flash Flood
									Amateur radio reported stalled vehicles and flash flooding in New Haven.
Whitley County Columbia City	13	1635EST 1815EST			0	0	0		Flash Flood

Storm Data and Unusual Weather Phenomena

June 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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MICHIGAN, Extreme Southwest

Emergency management reported water above car tires flowing across I-94.

**Berrien County
Stevensville**

12	0245EST 0400EST				0	0	75K		Flash Flood
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Emergency management reported roads flooded and water flowing into the first floor of some homes in Stevensville subdivisions.

**Berrien County
Bridgman**

14	1110EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported several trees down south of Bridgman.

**Cass County
Cassopolis**

14	1158EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported power poles and lines down in Cassopolis.

**Cass County
Edwardsburg**

14	1158EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported numerous trees down in Edwardsburg.

**St. Joseph County
Three Rivers**

14	1225EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees and power lines down in and east of Three Rivers.

**Branch County
Coldwater**

14	1254EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported numerous trees down in Coldwater.

**Branch County
Sherwood**

14	1254EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported numerous trees down in Sherwood.

**Branch County
Union City**

14	1254EST				0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees down in Union City.

**Hillsdale County
Hillsdale**

14	1325EST				0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported trees down in the city of Hillsdale.

OHIO, Northwest

**Paulding County
Antwerp**

13	1554EST				0	0	0		Hail(0.75)
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**Paulding County
Antwerp**

13	1554EST				0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported numerous trees down in Antwerp.

**Defiance County
Defiance**

13	1630EST				0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported numerous trees down in the city of Defiance.

**Paulding County
Countywide**

13	1657EST				0	0	10K		Thunderstorm Wind (EG75)
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NWS storm survey showed winds estimated between 80 and 100 MPH occurred across the northern part of Paulding county with widespread tree damage and power poles and lines down. Law enforcement reported minor damage to homes.

**Defiance County
Countywide**

13	1715EST				0	0	0		Thunderstorm Wind (EG55)
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Amateur radio reported trees and power lines down over most of the county with power out citywide in Defiance.

**Defiance County
Ney**

13	1715EST 1900EST				0	0	10K		Flash Flood
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Emergency management reported flash flooding between Sherwood and Ney with numerous roads closed and high water nearing homes and in basements. Almost a foot of water flowing over some roads with Gipe Rd in Ney Washington township washed out near a culvert.

Storm Data and Unusual Weather Phenomena

June 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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OHIO, Northwest

Putnam County

3 NW Continental	13	1715EST 1725EST			0	0	20K		Thunderstorm Wind (EG75)
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NWS storm survey showed winds estimated between 80 and 100 MPH occurred across northern Putnam county with damage to trees and a barn destroyed northwest of Continental. Minor damage was reported to a few homes.

Henry County

3 S New Bavaria to 3.5 ESE New Bavaria	13	1728EST	4	50	0	0	75K		Tornado (F1)
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NWS storm survey showed a tornado touched down 3 miles south of New Bavaria and traveled close to 4 miles lifting 3 and one half miles east southeast of New Bavaria. The storm was around 50 yards wide and produced F0 to F1 damage along its path destroying 2 barns and damaging several houses. Trees and power poles as well as some smaller structures were also damaged.

Putnam County

Miller City	13	1744EST			0	0	0		Hail(0.75)
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Paulding County

Countywide	13	1800EST 1900EST			0	0	0		Flash Flood
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Emergency management reported numerous roads closed across the county due to flash flooding.

Allen County

Lima	13	1832EST			0	0	0		Thunderstorm Wind (EG50)
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Amateur radio reported power lines down in the city of Lima.

Williams County

Pioneer	14	1333EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported several trees and power lines down in Pioneer.

Williams County

West Unity	14	1344EST			0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported trees and power lines down in West Unity.

Fulton County

1 W Wauseon	14	1405EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported power poles and lines down west of Wauseon.

Fulton County

2 S Wauseon	14	1410EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees and power lines down south of Wauseon.

Paulding County

Antwerp	14	1424EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported power lines down in Antwerp.

Paulding County

Roselms	14	1424EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees down near Roselms.

Putnam County

2 S Ottawa	14	1429EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported 15 power poles down south of Ottawa.

Henry County

3 SW New Bavaria	14	1430EST			0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported power lines down near New Bavaria.

Storm Data and Unusual Weather Phenomena

July 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
INDIANA, Northeast									
St. Joseph County 2.5 SW Granger to 2 WSW Granger	03	1935EST 1938EST			0	0			Thunderstorm Wind (EG65)
Several areas of wind damage were noted starting near the intersection of Fir and Cleveland Roads, continuing to near the intersection of Brick and Fir Roads. Damage occurred at a Marathon gas station at the intersection of Fir and State Route 23. A gas pump was blown over, with newspaper machines shifted and a Uhaul trailer being flipped over. At least one parked vehicle in the lot was also overturned. Several trees were damaged or uprooted in the area, as well as some sign damage. Near the end of the main damage, several large trees fell down around a residence where the occupant was in the basement watching TV. A tree fell just to the side of where his car was parked, with the car sustaining no damage.									
St. Joseph County 2 SW Granger	03	1937EST	0.1	25	0	0			Tornado (F0)
Eyewitnesses reported a brief tornado touchdown near the intersection of State Route 23 and Fir Road, southwest of Granger. This tornado formed on the leading edge of a squall line that moved through the area.									
Whitley County Tri Lakes	03	1959EST			0	0			Thunderstorm Wind (EG50)
Power lines and a tree was reported blown down.									
Allen County 1 SE Ft Wayne	03	2030EST			0	0			Thunderstorm Wind (EG50)
A tree was blown down...with part of it falling onto a house. No damage estimates were available.									
Elkhart County Dunlap	06	2118EST			0	0	0.50K		Thunderstorm Wind (EG55)
A metal light pole was broke off at the base in the parking lot of a Chevy dealership along US 33.									
Huntington County Huntington Muni Arpt	06	2215EST			0	0	5K		Thunderstorm Wind (EG50)
Mainly roof damage occurred to a few hangars on the airport. Debris was thrown away from the hangar and into other hangars with minor damage occurring to these buildings. Minor damage occurred to an aircraft in one of the hangars due to being struck by a 2x4. Damage amount estimated.									
Allen County Ft Wayne Baer Arpt to 4 SW Ft Wayne Baer Ar	06	2248EST			0	0			Hail(0.75)
Contract observer reported penny size hail at the airport.									
Allen County 2 S Ft Wayne	06	2251EST			0	0			Thunderstorm Wind (EG50)
Trees reported blown down.									
Allen County 6 S Ft Wayne	06	2313EST			0	0			Thunderstorm Wind (EG50)
Trees reported blown down.									
Grant County 2 S Marion	09	2020EST			0	0			Thunderstorm Wind (EG50)
Trees were reported down across the southern parts of the county.									
St. Joseph County South Bend	13	2105EST			0	0			Hail(1.00)
St. Joseph County 4 N South Bend	13	2110EST			0	0	20K		Thunderstorm Wind (EG55)
Semi traveling eastbound was blown off Interstate 80/90 Toll Road and flipped over at Mile Marker 70. Damage amount estimated.									
La Porte County Michigan City	13	2130EST			0	0			Thunderstorm Wind (EG50)
Three trees were blown down.									
St. Joseph County Walkerton	13	2150EST			0	0			Thunderstorm Wind (EG55)
Large tree blown down.									
Marshall County Bremen	13	2152EST			0	0			Thunderstorm Wind (EG55)
Large tree blown down.									

Storm Data and Unusual Weather Phenomena

July 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
<u>INDIANA, Northeast</u>									
Kosciusko County Warsaw	13	2215EST			0	0			Hail(1.00) Reported on US 30.
Miami County 4 S Bunker Hill	13	2257EST			0	0			Hail(0.88) Hail observed at Route 18 and Interstate 31.
La Porte County Michigan City	21	1750EST			0	0			Thunderstorm Wind (MG65) Michigan City Lighthouse recorded a wind gust of 75 mph.
La Porte County Michigan City	21	1755EST			0	0			Thunderstorm Wind (EG65) Numerous trees and power lines knocked down over the northern part of the county.
Starke County Hamlet	21	1844EST			0	0			Thunderstorm Wind (EG50) Numerous trees and power lines reported knocked down.
Elkhart County Elkhart	21	1845EST			0	0	7.5K		Thunderstorm Wind (EG55) Damage to roof of city of Elkhart street department building.
St. Joseph County Mishawaka	21	1846EST			0	0			Thunderstorm Wind (EG55) Two trees reported knocked down, blocking Capital Street,
Elkhart County 5 NW Goshen	21	1849EST			0	0			Thunderstorm Wind (EG55) Numerous power lines reported down.
Marshall County Plymouth	21	1855EST			0	0			Thunderstorm Wind (EG55) Trees and power lines down.
White County Reynolds	21	1902EST			0	0			Thunderstorm Wind (EG60) 20 inch diameter tree reported knocked down along Highway 24.
Lagrange County Shipshewana	21	1905EST			0	0			Thunderstorm Wind (EG55) Large tree limbs down on State Route 5, blocking the road.
Lagrange County 5 S Lagrange	21	1920EST			0	0	15K		Thunderstorm Wind (EG65) Several large trees were knocked down around Oliver Lake. An 18 inch diameter apple tree was uprooted on the west side of the lake. An 20 inch diameter tree was knocked down onto a pontoon and lift and a 31 inch diameter tree was snapped at the base, with an aluminum flag pole being snapped off. Damage amount estimated.
Noble County Wolcottville	21	1939EST			0	0			Thunderstorm Wind (MG51) Large branches were blown down. Spotter measured 60 mph wind gust.
Kosciusko County 1 N Syracuse	21	1945EST			0	0			Thunderstorm Wind (EG50) Trees reported knocked down.
Kosciusko County 1 N Warsaw	21	1945EST			0	0			Thunderstorm Wind (EG50) Trees reported knocked down.
Steuben County 6 W Angola	21	1955EST			0	0			Thunderstorm Wind (EG50) Trees reported knocked down. Power lines also reported down.
Cass County Logansport	21	2000EST			0	0			Thunderstorm Wind (EG56)

Storm Data and Unusual Weather Phenomena

July 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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INDIANA, Northeast

Three dozen trees knocked down and some reported blocking roads near Route 24. Tree fell on trailer in France Park Campground. County EM estimated 60 to 70 mph winds.

Steuben County

1 E Angola	21	2000EST			0	0			Thunderstorm Wind (EG50)
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Trees reported knocked down.

Whitley County

South Whitley	22	1738EST			0	0			Thunderstorm Wind (EG55)
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Power lines down. 1 power pole broken.

MICHIGAN, Extreme Southwest

Cass County

Edwardsburg	03	1947EST			0	0			Thunderstorm Wind (EG50)
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Power lines were reported down in the area.

Cass County

8 NW Edwardsburg	03	1951EST			0	0			Thunderstorm Wind (EG50)
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Trees were reported blown down.

Hillsdale County

Hillsdale	06	2307EST			0	0			Thunderstorm Wind (EG50)
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Power lines blown down in the city of Hillsdale.

Hillsdale County

5 E Hillsdale	06	2315EST			0	0			Thunderstorm Wind (EG50)
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Tree reported blown down at the intersection of Holcomb and East Bacon roads.

Berrien County

Benton Harbor	13	2025EST			0	0			Thunderstorm Wind (EG50)
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Numerous trees reported down.

Berrien County

Eau Claire	13	2045EST			0	0			Hail(0.75)
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Berrien County

Eau Claire	13	2045EST			0	0			Thunderstorm Wind (EG50)
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Numerous trees reported down in Eau Claire.

Berrien County

Countywide	21	1810EST			0	0			Thunderstorm Wind (EG55)
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Numerous trees and power lines knocked down countywide.

Berrien County

3 NE Buchanan	21	1820EST 1821EST	0.1	15	0	0			Tornado (F0)
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Evidence of a brief touchdown was found in a corn field near the intersection of Walton and Smith Roads, northeast of Buchanan. The tornado traveled approximately 50 yards and then lifted. Only damage to the corn field was noted as a result of the tornado.

Cass County

7 NW Edwardsburg	21	1825EST			0	0			Thunderstorm Wind (EG60)
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Reports of trees and power lines down in Marlin Village Trailer Park

Cass County

Edwardsburg	21	1832EST			0	0			Thunderstorm Wind (EG60)
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Reports of trees and power lines down in Eagle Lake Estates.

Cass County

3 E Edwardsburg	21	1835EST 1838EST	0.5	50	0	0			Tornado (F0)
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Evidence of a tornado touchdown was found on the west side of Eagle Lake, east of Edwardsburg on North Shore Road. The funnel was not always in contact with the ground. The top third to half of a large tree was broke off and fell onto some power lines, causing a power pole to fall onto the roadway. The last evidence of any touchdowns was on the north side of the lake. No injuries were reported.

Storm Data and Unusual Weather Phenomena

July 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, Extreme Southwest

St. Joseph County

Constantine	21	1858EST			0	0			Thunderstorm Wind (EG55)
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Large tree limbs reported knocked down.

Branch County

5 S Coldwater	21	1957EST			0	0			Thunderstorm Wind (EG55)
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Six trees reported blown down. Two power poles also blown down near US 12.

Hillsdale County

Hillsdale	21	2010EST			0	0			Thunderstorm Wind (EG50)
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Trees and power lines down.

OHIO, Northwest

Van Wert County

Van Wert	22	1935EST 2200EST			0	0			Flash Flood
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Westwood drive flooded in the city of Van Wert, with water 2 to 3 feet deep. One truck was stranded in the flood waters. Several other roads in flooded in the city.

Storm Data and Unusual Weather Phenomena

August 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
INDIANA, Northeast									
La Porte County									
La Porte	03	2335EST			0	0	0		Thunderstorm Wind (EG50)
									Law enforcement reported power lines and numerous trees down in La Porte.
Pulaski County									
Winamac	03	2340EST			0	0	0		Thunderstorm Wind (EG50)
									Law enforcement reported trees down in and around Winamac.
Starke County									
5 SSE Knox	03	2340EST			0	0	0		Thunderstorm Wind (EG50)
									Law enforcement reported trees down near Bass Lake.
Fulton County									
6 N Rochester	03	2350EST			0	0	0		Thunderstorm Wind (EG50)
									Law enforcement reported trees and a few power lines down north of Rochester.
Marshall County									
2 SE Culver	03	2355EST			0	0	0		Thunderstorm Wind (EG50)
									Law enforcement reported trees down southeast of Culver and also near Inwood.
Marshall County									
Plymouth	04	0005EST			0	0	0		Thunderstorm Wind (EG50)
									Law enforcement reported trees down in Plymouth.
St. Joseph County									
Granger	04	0013EST			0	0	2K		Thunderstorm Wind (EG50)
									Law enforcement reported a large tree down on a garage in Granger.
Elkhart County									
Elkhart	04	0030EST			0	0	3K		Thunderstorm Wind (EG50)
									Amateur radio reported some windows blown out and power lines down in Elkhart.
La Porte County									
Michigan City	09	1825EST			0	0	0		Thunderstorm Wind (MG57)
									Great Lakes Environmental Research Laboratory observing sight at Michigan City recorded a wind gust to 65 MPH.
St. Joseph County									
3 N South Bend	09	1929EST			0	0	0		Hail(1.00)
St. Joseph County									
3 N South Bend	09	1934EST			0	0	0		Thunderstorm Wind (EG58)
									Amateur radio reported wind gusts between 60 and 70 MPH just north of the Indiana Toll Road north of South Bend.
St. Joseph County									
1 S South Bend	09	1935EST			0	0	0		Hail(1.00)
St. Joseph County									
Mishawaka	09	1940EST			0	0	0		Thunderstorm Wind (EG65)
									Local television reported several very large trees down in Mishawaka with winds estimated between 70 and 80 MPH.
St. Joseph County									
South Bend	09	1944EST			0	0	0		Hail(0.75)
Elkhart County									
Goshen	09	2030EST			0	0	0		Thunderstorm Wind (EG50)
									Emergency manager reported several trees down in Goshen.
Pulaski County									
3 NE Francesville	17	1804EST			0	0	0		Hail(1.75)
La Porte County									
Michigan City	17	1805EST			0	0	0		Hail(1.75)
La Porte County									
Michigan City	17	1805EST			0	0	0		Thunderstorm Wind (MG59)
									U.S. Coast Guard reported a measured wind gust to 68 MPH at the Michigan City Light House.
La Porte County									
La Porte	17	1850EST			0	0	0		Hail(0.75)

Storm Data and Unusual Weather Phenomena

August 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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INDIANA, Northeast

La Porte County

4 SE Westville	25	1535EST			0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported trees down near Westville.

St. Joseph County

Mishawaka	25	1625EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees down in Mishawaka.

Fulton County

Rochester	25	1630EST			0	0	0		Thunderstorm Wind (EG50)
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Emergency management reported trees down in Rochester.

Elkhart County

4 NW Elkhart	25	1635EST			0	0	0		Thunderstorm Wind (EG50)
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Amateur radio reported trees down northwest of Elkhart.

White County

Monticello	28	0100EST 0300EST			0	0	0		Flash Flood
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Law enforcement reported flash flooding with many streets flooded and impassible in Monticello.

White County

Monticello	28	1955EST 2155EST			0	0	0		Flash Flood
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Law enforcement reported flash flooding with widespread street flooding with many locations impassible in Monticello.

White County

Monticello	28	2030EST 2230EST			0	0	0		Flash Flood
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Emergency management reported flash flooding with a motor home stranded in water and surrounding streets flooded in Monticello.

White County

Monticello	28 29	2230EST 0030EST			0	0	0		Flash Flood
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Emergency management reported flash flooding with water in homes on the north side of Monticello.

MICHIGAN, Extreme Southwest

Berrien County

4 E Stevensville	03	2355EST			0	0	0		Thunderstorm Wind (EG50)
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Amateur radio reported trees down east of Stevensville.

Berrien County

Buchanan	04	0005EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees and power lines down in Buchanan.

Cass County

Edwardsburg	04	0020EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees down in Edwardsburg.

Berrien County

New Buffalo	17	1808EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported power lines down in New Buffalo.

Berrien County

Niles	25	1627EST			0	0	0		Thunderstorm Wind (EG50)
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Law enforcement reported trees down in Niles.

OHIO, Northwest

Van Wert County

Convoy	27	2025EST			0	0	25K		Thunderstorm Wind (EG78)
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Emergency management reported damage to a school sports complex with large sections of bleachers tossed and cement block dugouts at a baseball diamond destroyed. Windows were blown out of a house next to the complex. Winds were estimated around 90 MPH from a microburst.

Storm Data and Unusual Weather Phenomena

August 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OHIO, Northwest

INDIANA, Northeast

White County

Monon	03	0900EST 1100EST			0	0	0		Flash Flood
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Emergency management reported flash flooding in Monon with flooding at a trailer park and cars floating at a car dealership.

White County

Monon	03	1025EST 1100EST			0	0	0		Flash Flood
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Monon Fire Dept reported flooding at the station and in downtown Monon.

White County

Monon	03	1030EST 1100EST			0	0	50K		Flash Flood
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Emergency management reported flooding in downtown Monon with flash flooding reported. A car dealership and a trailer park had flood damage...with flooding at the Monon Fire Dept.

Allen County

Ft Wayne	03 04	2200EST 0030EST			0	0	0		Flash Flood
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Underpass in downtown Ft. Wayne reported flooded. Few roads closed within city limits due to flash flooding.

Allen County

Ft Wayne	03 04	2329EST 0030EST			0	0	0		Flash Flood
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Spy Run Creek crested at 8.88 feet...0.8 feet above flood stage. Reports of flash flooding along Hanauer Rd.

OHIO, Northwest

Allen County

Spencerville	03 04	2105EST 0100EST			0	0	0		Flash Flood
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Several county and state roads reported closed due to flash flooding. A foot of water reported flowing over roads.

Van Wert County

Elgin	03 04	2105EST 0100EST			0	0	0		Flash Flood
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County and State roads closed due to flash flooding. At least a foot of flowing water over roads in southeast Van Wert county.

Storm Data and Unusual Weather Phenomena

October 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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INDIANA, Northeast

INZ003

La Porte

30 1700EST 0 1 4K High Wind (MG60)

Winds across portions of northern Indiana were sustained in the 25 to 35 mph range with some areas reporting gusts between 45 to as high as 69 mph. Reports of small branches down and a few downed power lines were received. The 69 mph wind gust was recorded at the Michigan City Coast Guard observation site. A Michigan City man was injured after pushing his 7 year old grandson out of the way of a falling tree. The 51 year old was unable to move out of the way after this and was subsequently struck by the falling tree in the back. His back was broken in three places. No other injuries were reported. Other recorded wind gusts across northern Indiana were: South Bend 55 mph, North Webster NWS 52 mph, Fort Wayne 51 mph and Goshen 49 mph.

INZ004>005-016-018

St. Joseph - Elkhart - Kosciusko - Allen

30 1714EST 0 0 9K Strong Wind (MG48)
1725EST

Winds across portions of northern Indiana were sustained in the 25 to 35 mph range with some areas reporting gusts between 45 to as high as 69 mph. Reports of small branches and a few power lines were received. The 69 mph wind gust was recorded at the Michigan City Coast Guard observation site. A Michigan City man was injured after pushing his 7 year old grandson out of the way of a falling tree. The 51 year old was unable to move out of the way after this and was subsequently struck by the falling tree in the back. His back was broken in three places. No other injuries were reported. Other recorded wind gusts across northern Indiana were: South Bend 55 mph, North Webster NWS 52 mph, Fort Wayne 51 mph and Goshen 49 mph.

MICHIGAN, Extreme Southwest

MIZ077-080>081

Berrien - Branch - Hillsdale

30 1710EST 0 0 6K Strong Wind (MG42)
1810EST

Winds across portions of far southern Lower Michigan were sustained in the 25 to 35 mph range with some areas reporting gusts between 45 to as high as 55 mph. Reports of small branches down and a few downed power lines were received. Some of the measured wind gusts included 53 mph at Coldwater, 51 in Hillsdale and 48 mph at Benton Harbor.

OHIO, Northwest

OHZ004-025

Defiance - Allen

30 1735EST 0 0 5K Strong Wind (MG42)
1745EST

Winds across portions of northwestern Ohio were sustained in the 25 to 35 mph range with some areas reporting gusts between 45 to as high as 55 mph. Reports of small branches down and a few downed power lines were received. Some of the measured wind gusts included 55 mph in Lima and 48 mph in Defiance.

Storm Data and Unusual Weather Phenomena

November 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

INDIANA, Northeast

INZ003-005-007-013	La Porte - Elkhart - Steuben - Pulaski				0	0	0		Winter Storm
	24	0000EST							
	25	0330EST							

Strong low pressure moved over the Great Lakes and Ohio Valley Region, resulting in a wide variety of weather. The event began as mainly rainfall, but changed over to snow towards the end of the storm. The heaviest snowfall occurred over far northwestern Indiana and far southwestern Lower Michigan where 5 to 7 inches of snow fell in a narrow band extending across western Pulaski county into Laporte county in Indiana. 35 to 45 mph wind gusts were also recorded during the storm, causing blowing and drifting of the new snow. Some of the reports received includes: Medaryville and Laporte with 7.0 inches, Rolling Prairie 6.8, Fremont 6.5, Michigan City 6.0 and 2 miles northwest of Elkhart 5.5.

MICHIGAN, Extreme Southwest

MIZ077	Berrien				0	0			Heavy Snow
	19	0745EST							
		1500EST							

The largest lake effect snowstorm in several years hit portions of southwestern Lower Michigan. Winds off Lake Michigan began out of the northwest, allowing for a band of lake effect snow to develop across much of Berrien county. The heaviest snowfall fell in Berrien Springs where 8 inches of snow was reported, with the city of Benton Harbor receiving 7.8 inches. The band quickly shifted west into extreme southwestern Berrien county late Sunday morning with the snowfall tapering to scattered snow showers across the remainder of the county.

MIZ077>078	Berrien - Cass				0	0	0		Winter Storm
	24	2225EST							
	25	0330EST							

Strong low pressure moved over the Great Lakes and Ohio Valley Region, resulting in a wide variety of weather. The event began as mainly rainfall, but changed over to snow towards the end of the storm. The heaviest snowfall occurred over far northwestern Indiana and far southwestern Lower Michigan where 5 to 7 inches of snow fell in a narrow band extending across mainly Berrien county, as well as far western Cass county. 35 to 45 mph wind gusts were also recorded during the storm, causing blowing and drifting of the new snow. Some of the reports, in inches, received includes: Buchanan 7.0, 1 miles south of Niles 6.0, 2.5 miles north of Benton Harbor 5.8 and 4 miles east of Niles 5.6.

Storm Data and Unusual Weather Phenomena

December 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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INDIANA, Northeast

INZ003-005

La Porte - Elkhart

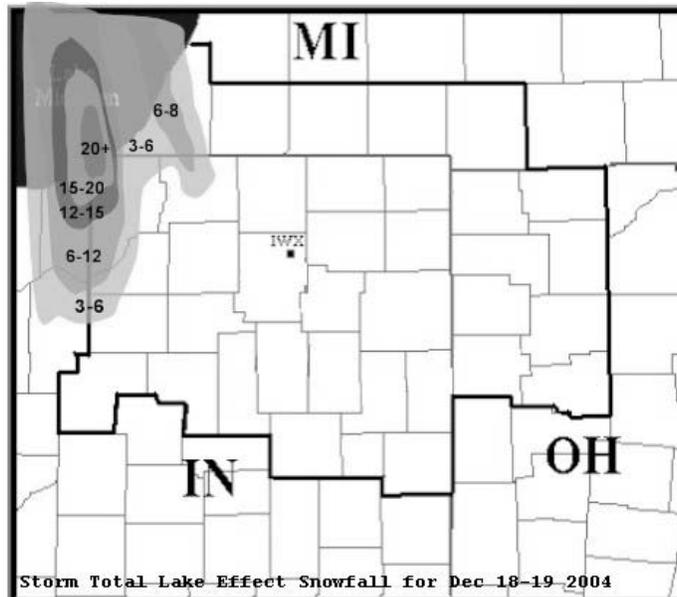
13 2130EST 0 0 0 Winter Storm
14 0130EST

The first significant lake effect snow of the 2004-2005 winter season developed across portions of northern Indiana. 2 distinct bands affected the area during the event. The dominant band extended from extreme northeastern St Joseph county, through Elkhart county and into northern Kosciusko county. The heaviest snow from this band fell across northwestern Elkhart county, where reports of 6 to 9 inches of snow were reported from Elkhart to Simonton Lake. Amounts tapered quickly from there with 4 to 6 inches reported across southwestern Elkhart and northern Kosciusko county. A smaller band affected much of northeastern Laporte county for several hours. Reports of 5 to 7 inches were received from Rolling Prairie, Kingsbury and Laporte. Amounts quickly tapered to the west of this band with Michigan City only picking up 2 inches. Strong winds of 20 to 30 mph with occasional gusts to 40 mph caused near whiteout conditions at times.

INZ003>004

La Porte - St. Joseph

19 1030EST 1 0 Heavy Snow
2230EST



The largest lake effect snowstorm in several years hit portions of northwestern Indiana. Winds off Lake Michigan started out of the northwest, with the band of snow extending into northern parts of St. Joseph county, where 8 inches of snow was reported at the South Bend Regional Airport. The snow band quickly shifted westward as winds become more northerly, allowing for a single intense band to develop across the length of Lake Michigan. This band became stationary over far western Laporte county for much of Sunday and Sunday evening. Snowfall rates in the center of the band were 2 to 3 inches an hour. A total snowfall of 26 inches was reported in Michigan City where portions of I-94 and the Indiana Toll Road were impassable for several hours. Amounts quickly tapered heading east across the county. Other storm totals were Westville 20", Wanatah 12" and Laporte 9.5". One death was reported in Michigan city in Laporte county, when a 67 year old gentleman was found unconscious by family on his porch and subsequently died. He had been shoveling snow from the storm at his residence.

M67PH

INZ007-009-017>018-
025>027-032>034

Steuben - De Kalb - Whitley - Allen - Huntington - Wells - Adams - Grant - Blackford - Jay

22 0515EST 0 0 Winter Storm
23 1044EST

Low pressure moved out of the western Gulf of Mexico and tracked towards eastern Ohio. Abundant moisture accompanying the system allowed for a large area of snow to blanket much of northern Indiana. Accumulations of 6 to 12 inches fell southeast of a Marion, to Fort Wayne to Angola line. Locations from Hartford City to near Decatur seen the highest accumulations, with Ridgeville in Jay county reporting 13 inches of snow. During the peak of the storm, the snow fell at the rate of 2 to 3 inches per hour in some areas.

Storm Data and Unusual Weather Phenomena

December 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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MICHIGAN, Extreme Southwest

MIZ077>078

Berrien - Cass

13	2100EST								
14	0130EST				0	0	0		Winter Storm

The first significant lake effect snow of the 2004-2005 winter season developed across portions of far southwestern Lower Michigan. One distinct band persisted for several hours from near Watervliet in Berrien county through Cassopolis and Sister Lakes in Cass county. A swath of 7 to 9 inches of snow fell during the event in these area, with amounts rapidly tapering either side of the band to range from 4 to 6 inches across the remainder of Berrien and Cass counties to only a few inches as you went east of Cass county. Strong winds of 20 to 30 mph with occasional gusts to 40 mph caused near whiteout conditions at times.

MIZ077

Berrien

19	0730EST								
	1500EST				0	0			Heavy Snow

A single band of lake effect snow set up across much of Berrien county during the night of the 18th. Before the band shifted west into the extreme southwestern part of the county, 8 inches of snow was reported in Berrien Springs with Benton Harbor reporting 7.8 inches. Snow amounts quickly tapered either side of these areas.

MIZ081

Hillsdale

22	1150EST								
23	1044EST				0	0			Winter Storm

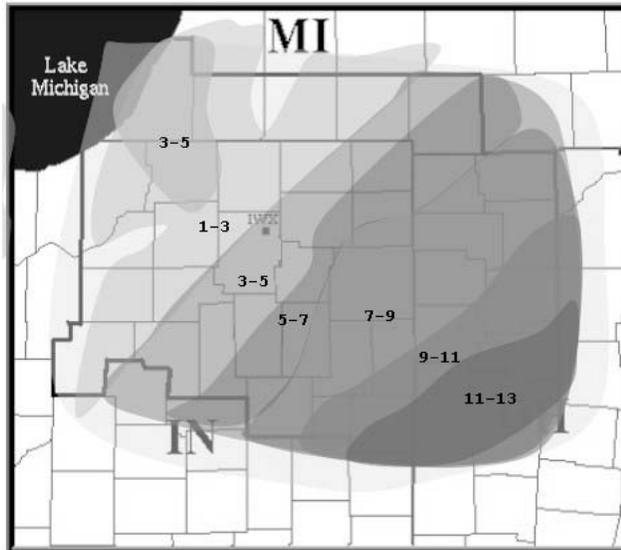
Low pressure moved out of the western Gulf of Mexico and tracked towards eastern Ohio. Abundant moisture accompanying the system allowed for a large area of snow to blanket much southern Lower Michigan. Amounts across far southern Lower Michigan were generally from 2 to 5 inches, with Kinderhook in Hillsdale county receiving 6 inches of total snowfall.

OHIO, Northwest

OHZ001>002-004>005-015>016-024>025

Williams - Fulton - Defiance - Henry - Paulding - Putnam - Van Wert - Allen

22	0320EST								
23	1044EST				0	0			Winter Storm



Snowfall Totals for Dec 22-24 2004

Low pressure moved out of the western Gulf of Mexico and tracked towards eastern Ohio. Abundant moisture accompanying the system allowed for record snowfall across portions of northwestern Ohio. Accumulations ranged from 6 to as much as 14 inches across this area, with much of Allen county and the southeastern part of Putnam county seeing the highest amounts. During the peak of the storm, the snow fell at the rate of 2 to 3 inches per hour in some areas.