

# Storm Data and Unusual Weather Phenomena

January 2000

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

<b>INZ003&gt;004-014&gt;015</b>	<b>La Porte - St. Joseph - Marshall - Fulton</b>								
		<b>20 0100EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
		<b>21 1600EST</b>							

Storm total snow amounts ranged from 6 to 10 inches across Fulton and Marshall counties with most of it falling from lake effect snow bands on the 20th. Laporte county totals ranged from 6 to 12 inches across the eastern third of Laporte county. A storm total of 12.5 inches of snow fell at the South Bend Airport with 9.3 inches attributed to lake effect.

...Synoptic and mesoscale conditions on the 20th/21st...

The coldest air of the season dropped into the midwest on the 20th behind a vigorous low pressure system which developed across the central plains on the 19th. The system tracked across central Indiana the night of the 19th dropping 4-6 inches of synoptic induced snowfall. As the system pulled east... deep northerly cyclonic flow developed in its wake as very cold air poured into the region. With the northerly fetch down along the long axis of Lake Michigan... a tremendous shore parallel snow band developed in the early morning hours of the 20th. Many locations under this snow band reported snowfall rates of 2 to 3 inches per hour with whiteout conditions. This band broke up by late afternoon on the 20th with the eventual development of multiple and not as intense lake effect snow bands which developed in response to even colder air spilling south out of Canada. General lake effect snowfall ranged from 6 to 10 inches with Baroda Michigan reporting the heaviest amount of 15 inches.

<b>INZ003&gt;004</b>	<b>La Porte - St. Joseph</b>								
		<b>25 1600EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
		<b>26 1200EST</b>							

18-20 inches of snow fell in Michigan City and Laporte with most other locations across Laporte county reporting in excess of 1 foot. Many roads were closed due to the heavy snow and whiteout conditions the night of the 25th into the mid morning hours of the 26th. 9 inches of lake effect snow fell at the South Bend Airport with up to 12 inches along the St. Joseph/Laporte county line. Locations east of South Bend reported only an inch.

...Synoptic and mesoscale conditions on the 25th/26th...

A tremendous snowstorm was ongoing along the east coast during this period with a large nearly meridional longwave upper level trough in place across the upper midwest. A clipper type low pressure system rapidly dove southeast out of Alberta Canada early on the 25th spreading a band of light snow across Northern Indiana. Quick on its heels was a 1040 millibar arctic high. This combined with intensifying cold advection and induced thermal troughing along the lake and initial boundary layer wind trajectory of 360 degrees... led once again to a very intense shore parallel snowband to develop along the Lake Michigan shoreline during the late afternoon of the 25th reaching as far south as Lafayette Indiana. This band remained in roughly the same position for 12 hours before shifting westward into Lake and Porter counties the morning of the 26th. Many locations from western Berrien county into Laporte county reported from 14 to 20 inches of snow with the heaviest snowfall occurring in Michigan City and Laporte.

## MICHIGAN, Extreme Southwest

<b>MIZ077&gt;078</b>	<b>Berrien - Cass</b>								
		<b>20 0100EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
		<b>21 1600EST</b>							

Storm total snow amounts across Berrien county ranged from 8 to 15 inches with 15 inches reported at Baroda. Storm total snow amounts ranged from 6 to 9 inches across Cass county with the heaviest snow falling along the Cass/Berrien county line on the 20th.

...Synoptic and mesoscale conditions on the 20th/21st...

The coldest air of the season dropped into the midwest on the 20th behind a vigorous low pressure system which developed across the central plains on the 19th. The system tracked across central Indiana the night of the 19th dropping 4-6 inches of synoptic induced snowfall. As the system pulled east... deep northerly cyclonic flow developed in its wake as very cold air poured into the region. With the northerly fetch down along the long axis of Lake Michigan... a tremendous shore parallel snow band developed in the early morning hours of the 20th. Many locations under this snow band reported snowfall rates of 2 to 3 inches per hour with whiteout conditions. This band broke up by late afternoon on the 20th with the eventual development of multiple and not as intense lake effect snow bands which developed in response to even colder air spilling south out of Canada. General lake effect snowfall ranged from 6 to 10 inches with Baroda Michigan reporting the heaviest amount of 15 inches.

<b>MIZ077</b>	<b>Berrien</b>								
		<b>25 1800EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
		<b>26 0800EST</b>							

Storm total snow amounts ranged from 2 inches in Niles to 16 inches in Baroda and Michiana and points west and southwest as the most intense snow bands hugged the Lake Michigan shoreline before shifting westward the morning of the 26th.

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## MICHIGAN, Extreme Southwest

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## INDIANA, Northeast

**INZ018-023>027-032>034 Allen - Miami - Wabash - Huntington - Wells - Adams - Grant - Blackford - Jay**

<b>11</b>	<b>1600EST</b>								
<b>12</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>Heavy Snow</b>

...Synoptic and mesoscale conditions on March 11th...

A strong shortwave trough was located over the central plains the evening of the 10th with surface low pressure developing over the lower Mississippi valley. As this system moved northeast on the 11th... it rapidly intensified spreading a developing swath of heavy snow across the midwest with some locations reporting thundersnow in the developing deformation zone north of the amplifying upper trough.

As a result... the biggest snowstorm of the season thus ensued across the southeastern third of the county warning area during the late afternoon and evening hours of the 11th. Most locations reported from 6 to 8 inches of snow with many locations reporting snowfall rates of 1-2 inches per hour during the height of the storm with the Fort Wayne airport reporting 4 inches of snow in just 2 hours and a total of 8.8 inches for the event. The heavy, wet nature of the snow caused numerous accidents including some multiple vehicle accidents in Wells and Allen counties.

## MICHIGAN, Extreme Southwest

**Cass County**

**4 N Dowagiac**

<b>15</b>	<b>2000EST</b>								
				<b>0</b>	<b>1</b>	<b>10K</b>			<b>Thunderstorm Wind</b>

A strong thunderstorm microburst blew down trees, branches, and windows out of a house. A woman at the residence at the time was outside when the storm hit and suffered minor injuries from the blown debris.

## OHIO, Northwest

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

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

<b>11</b>	<b>1600EST</b>								
<b>12</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>				<b>Heavy Snow</b>

...Synoptic and mesoscale conditions on March 11th...

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# Storm Data and Unusual Weather Phenomena

April 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>INDIANA, Northeast</u></b>									
Fulton County Rochester	07	1453EST			0	0			Hail(0.75)
Whitley County Larwill	07	1519EST			0	0			Hail(0.75)
Allen County Grabill	07	1600EST			0	0			Hail(0.88)
Whitley County Columbia City	20	0615EST			0	0			Hail(0.75)
White County Brookston	20	1115EST			0	0			Hail(1.75)
White County Reynolds	20	1115EST			0	0			Hail(0.75)
White County Brookston	20	1122EST			0	0			Hail(0.75)
White County Brookston	20	1122EST			0	0			Hail(1.00)
Fulton County Rochester	20	1145EST			0	0			Hail(1.00)
St. Joseph County South Bend	20	1148EST			0	0			Hail(1.50)
St. Joseph County Mishawaka	20	1150EST			0	0			Hail(0.75)
St. Joseph County South Bend	20	1150EST			0	0			Hail(0.75)
Elkhart County (Ekm)Elkhart Muni Ar	20	1156EST			0	0			Hail(1.00)
St. Joseph County Mishawaka	20	1156EST			0	0			Hail(1.00)
St. Joseph County Osceola	20	1156EST			0	0			Hail(1.00)
Miami County Mexico	20	1214EST			0	0			Hail(0.75)
Kosciusko County Silver Lake	20	1230EST			0	0			Hail(0.88)
Kosciusko County Winona Lake	20	1243EST			0	0			Hail(0.88)
Kosciusko County North Webster	20	1245EST			0	0			Hail(0.88)
Noble County Wolflake	20	1253EST			0	0			Hail(1.75)
Lagrange County South Milford	20	1316EST			0	0			Hail(0.75)
Noble County Wolcottville	20	1316EST			0	0			Hail(0.75)
Noble County Kendallville	20	1326EST			0	0			Hail(0.75)
Steuben County Countywide	20	1340EST			0	0	0		Thunderstorm Wind

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## INDIANA, Northeast

Large tree limbs downed throughout county.

**De Kalb County  
St Joe**

20	1345EST								
	Trees down.			0	0	0			Thunderstorm Wind

**Jay County  
Countywide**

20	1630EST								
	Roof damage. Power lines and trees downed.			0	0	10K			Thunderstorm Wind

Synoptic and mesoscale conditions for April 20, 2000. . .

A significant mid-latitude cyclone developed over the midwest on the 19th and 20th. A strong mid-level jet at 75 knots combined with a 40 knot low-level jet triggered rapid severe storm development across central and northern Illinois during the morning hours of the 20th. Storms quickly organized into a squall line with several embedded bows which then tracked across northern Indiana and northwest Ohio. Reports of damaging winds and large hail were common with the storms during the afternoon of the 20th.

## MICHIGAN, Extreme Southwest

**Hillsdale County  
Montgomery**

20	1348EST								
				0	0				Hail(0.75)

**Hillsdale County  
Somerset**

20	1409EST								
				0	0				Hail(0.75)

Synoptic and Mesoscale conditions for April 20, 2000. . .

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## OHIO, Northwest

**Putnam County  
Leipsic**

20	1600EST								
	Minor roof damage. Trees downed.			0	0	0			Thunderstorm Wind

**Allen County  
Lima**

20	1725EST								
	Power lines and tree lines downed. Time estimated.			0	0	0			Thunderstorm Wind

**Henry County  
Hamler**

20	2000EST								
	Minor street flooding.			0	0	0			Urban/Sml Stream Fld

**Henry County  
Holgate**

20	2000EST								
	Minor street flooding.			0	0	0			Urban/Sml Stream Fld

**Putnam County  
Continental**

20	2000EST								
	Minor street flooding.			0	0	0			Urban/Sml Stream Fld

**Henry County  
Holgate**

20	2000EST								
	School's creek out of banks forced evacuation of 2 dozen homes.			0	0	0			Urban/Sml Stream Fld

**Paulding County  
Countywide**

20	2000EST								
	SR 613 . . . CR 209 and CR 140 flooded in spots.			0	0	0			Urban/Sml Stream Fld

Synoptic and Mesoscale conditions for April 20, 2000. . .

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## OHIO, Northwest

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## INDIANA, Northeast

### Starke County

<b>Knox</b>	<b>09</b>	<b>0015EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Trees down.									

### Starke County

<b>Winona</b>	<b>09</b>	<b>0015EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Trees down.									

### La Porte County

<b>Michigan City</b>	<b>09</b>	<b>0017EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (E52)</b>
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### La Porte County

<b>Michigan City</b>	<b>09</b>	<b>0025EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Numerous trees and power lines downed.									

### Marshall County

<b>Plymouth</b>	<b>09</b>	<b>0045EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Trees down just west of Plymouth.									

### La Porte County

<b>Michigan City</b>	<b>09</b>	<b>0015EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
Trees downed on cars and houses. A roof was ripped off of a gas station.									

### La Porte County

<b>Michigan City</b>	<b>09</b>	<b>0025EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Lightning</b>
A house caught on fire when a pole was struck by lightning, cutting the power lines and causing them to land along the basement wall.									

### La Porte County

<b>La Porte Arpt</b>	<b>09</b>	<b>1500EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (E65)</b>
Time estimated.									

### Wabash County

<b>Countywide</b>	<b>09</b>	<b>1700EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
24 inch diameter tree was uprooted. Several vehicles and two or three houses were damaged by fallen trees.									

### Fulton County

<b>Rochester</b>	<b>09</b>	<b>0100EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Power lines down.									

### Kosciusko County

<b>Silver Lake</b>	<b>09</b>	<b>0105EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Tree down.									

### Elkhart County

<b>Elkhart</b>	<b>09</b>	<b>0110EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Trees down.									

### Kosciusko County

<b>Winona Lake to Central Portion</b>	<b>09</b>	<b>0110EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Tree down.									

### Kosciusko County

<b>North Webster</b>	<b>09</b>	<b>0115EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Large limbs down.									

### St. Joseph County

<b>Osceola</b>	<b>09</b>	<b>0100EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Lightning</b>
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<b>INDIANA, Northeast</b>									
A power line down caused by lightning set a church on fire.									
<b>St. Joseph County</b> South Bend	09	0100EST			0	0	10K		Thunderstorm Wind
									Trees down on homes. Power lines down.
<b>Elkhart County</b> Elkhart	09	1715EST			0	0	5K		Thunderstorm Wind
									Roof damage. Tree fell on car. Many trees and power lines down.
<b>Elkhart County</b> Wakarusa	09	1730EST			0	0	0		Thunderstorm Wind
									80-foot pine downed. Numerous power lines and trees downed.
<b>Lagrange County</b> Shipshewana	09	0125EST			0	0	0		Thunderstorm Wind
									Trees down.
<b>Lagrange County</b> Lagrange	09	0130EST			0	0	0		Thunderstorm Wind
									Large limbs down.
<b>Wabash County</b> La Fontaine	09	0615EST			0	0			Hail(0.75)
<b>White County</b> Wolcott	09	1610EST			0	0	0		Thunderstorm Wind
									Minor wind damage.
<b>Starke County</b> North Judson	09	1630EST			0	0	0		Thunderstorm Wind
									Trees down.
<b>Pulaski County</b> Winamac	09	1630EST			0	0	10K		Thunderstorm Wind
									Trees down. Large limbs on cars. Minor roof damage to church.
<b>Wabash County</b> North Manchester	09	1635EST			0	0			Hail(1.00)
<b>Starke County</b> Koontz Lake	09	1643EST			0	0	0		Thunderstorm Wind
									Minor wind damage.
<b>Fulton County</b> Leiters Ford	09	1650EST			0	0	0		Thunderstorm Wind
									Trees downed across roads.
<b>St. Joseph County</b> North Liberty	09	1700EST			0	0	0		Thunderstorm Wind (E57)
<b>Cass County</b> Logansport	09	1645EST			0	0	30K		Thunderstorm Wind
									Barn destroyed. Trees down on cars and homes. Power lines down.
<b>Whitley County</b> Countywide	09	1700EST			0	0	1M		Thunderstorm Wind
									Numerous trees down on houses and cars. A South Whitley factory had its roof blown off and the Tranter Printing building lost its roof which crashed into a vehicle destroying it. Several homes sustained damage from fallen trees with many power lines blown down across town.
<b>Marshall County</b> Culver	09	1710EST			0	0			Thunderstorm Wind (E52)
<b>Grant County</b> Marion	09	1740EST			0	0	0		Thunderstorm Wind (E61)
									Minor wind damage.

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<b>INDIANA, Northeast</b>									
<b>Miami County</b>									
Peru	09	1740EST			0	0	0		Thunderstorm Wind
			Construction trailer overturned and 6 inch tree limbs down.						
<b>Adams County</b>									
Decatur	09	1742EST			0	0			Hail(0.75)
<b>Allen County</b>									
Zanesville	09	1747EST			0	0	0		Thunderstorm Wind
			Tree down on W County Line Rd						
<b>Noble County</b>									
Albion	09	1711EST			0	0			Hail(1.00)
<b>Wabash County</b>									
North Manchester	09	1711EST			0	0	0		Thunderstorm Wind
			Minor wind damage.						
<b>Whitley County</b>									
Etna	09	1711EST			0	0			Hail(1.75)
<b>Whitley County</b>									
Lorane	09	1711EST			0	0			Hail(1.75)
<b>Whitley County</b>									
South Whitley	09	1711EST			0	0			Hail(0.75)
<b>Noble County</b>									
Wolflake	09	1715EST			0	0			Hail(1.75)
<b>Elkhart County</b>									
Elkhart	09	1718EST			0	0			Thunderstorm Wind (E73)
<b>Kosciusko County</b>									
Warsaw	09	1720EST			0	0			Hail(0.75)
<b>Noble County</b>									
Merriam	09	1727EST			0	0	0		Thunderstorm Wind
			Minor structural damage to a residential area.						
<b>Wabash County</b>									
North Manchester	09	1730EST			0	0			Hail(0.75)
<b>Grant County</b>									
Marion	09	1740EST			0	0			Hail(0.88)
<b>Noble County</b>									
Merriam	09	1745EST			0	0			Hail(1.75)
<b>Huntington County</b>									
Markle	09	1751EST			0	0	0		Thunderstorm Wind
			Minor wind damage.						
<b>Steuben County</b>									
Ashley	09	1751EST			0	0			Hail(1.75)
<b>De Kalb County</b>									
Auburn	09	1755EST			0	0	0		Thunderstorm Wind
			Trees and power lines down.						
<b>Allen County</b>									
Ellison	09	1758EST			0	0	0		Thunderstorm Wind
			1 1/2 foot diameter trees down.						
<b>Allen County</b>									
Huntertown	09	1800EST			0	2	3M		Thunderstorm Wind
			Numerous trees and power lines down within a 5 by 6 block area on the western side of Huntertown. Several buildings damaged...including two businesses and one home which were destroyed. An additional 21 homes sustained minor to moderate damage. State of emergency declared.						

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<b>Wells County</b> Craigville	09	1800EST			0	0			Hail(0.75)
<b>Allen County</b> Aboite	09	1801EST			0	0	0		Thunderstorm Wind 18 inch diameter tree down and 8 inch limbs down.
<b>De Kalb County</b> Auburn	09	1803EST			0	0			Hail(1.75)
<b>Grant County</b> Marion	09	1800EST			0	0	1K		Thunderstorm Wind Trees blown down and brick wall blown onto a car.
<b>Adams County</b> Decatur	09	1805EST			0	0	0		Thunderstorm Wind Trees down.
<b>Allen County</b> Huntertown	09	1805EST			0	0			Thunderstorm Wind (E61)
<b>Steuben County</b> Angola	09	1805EST			0	0			Hail(1.00)
<b>Allen County</b> Georgetown	09	1806EST			0	0	0		Thunderstorm Wind Large limbs down near Georgetown Shopping Center.
<b>Lagrange County</b> Lagrange	09	1808EST			0	0	10K		Thunderstorm Wind Barn destroyed. Trees and power lines down.
<b>Allen County</b> Ft Wayne to Hoagland	09	1809EST			0	0			Hail(0.75)
<b>Allen County</b> Ft Wayne	09	1810EST			0	7	1M		Thunderstorm Wind Numerous large trees and power lines blown down across town. The high winds destroyed the Builder's Square building which was under construction. A house along Wildwood avenue was heavily damaged when a large tree fell onto it and injured 6 people inside. Several vehicles also sustained minor to major damage from the fallen trees and limbs.
<b>De Kalb County</b> Spencerville	09	1810EST			0	0			Thunderstorm Wind (E61)
<b>Allen County</b> New Haven	09	1811EST			0	0			Hail(0.75)
<b>Allen County</b> Zanesville	09	1812EST			0	0	20K		Thunderstorm Wind 18-24 inch diameter tree down on house
<b>Blackford County</b> Hartford City	09	1815EST			0	0	20K		Thunderstorm Wind Three homes damaged by fallen trees. Many other trees down.
<b>Adams County</b> 3 SW Decatur	09	1830EST			0	0	15K		Thunderstorm Wind A travel trailer overturned and two barns destroyed.
<b>Allen County</b> Zanesville	09	1822EST			0	0	20K		Thunderstorm Wind Greenhouse with aluminum frame heavily damaged. 2-3 ft diameter tree down on house. Structural damage.
<b>Adams County</b> Monroe	09	1825EST			0	0	0		Thunderstorm Wind Trees down between Bern and Monroe.

# Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<b><u>INDIANA, Northeast</u></b>									
<b>Adams County</b>									
Decatur	09	1840EST			0	0	0		Thunderstorm Wind
			Trees down on power lines.						
<b>Allen County</b>									
Ft Wayne	09	1841EST			0	0	0		Thunderstorm Wind
			Telephone pole snapped.						
<b>Whitley County</b>									
Columbia City	09	1842EST			0	0	0		Thunderstorm Wind
			6 inch diameter tree down over telephone lines.						
<b>Whitley County</b>									
Lorane	09	1846EST			0	0	10K		Thunderstorm Wind
			7 inch diameter tree down on house.						
			Synoptic and mesoscale conditions during the afternoon of the 9th...						
			A significant mid-level shortwave trough extended through the Mississippi valley during the afternoon with a deepening surface low over northeast Illinois. Much of northern Indiana was in the warm sector with surface based CAPE of 2500 J/kg and increasing deep layer shear in advance of a 70 knot mid-level jet max ahead of the mid-level shortwave.						
			A prefrontal squall line quickly developed late in the afternoon along the Illinois/Indiana state line. Additional isolated supercells developed in advance of this line and were mainly responsible for the swath of large hail from Wabash to Steuben counties. The squall line gradually organized into a large bow echo with the apex of the bow tracking from southwest Whitley county eastward through northern Allen and into western Defiance county in Ohio where the greatest widespread wind damage was observed.						
<b>Starke County</b>									
San Pierre	12	1807EST			0	0			Hail(0.75)
<b>Starke County</b>									
1 N North Judson	12	1818EST			0	0			Hail(1.00)
<b>Starke County</b>									
North Judson	12	1818EST			0	0			Hail(0.75)
<b>Pulaski County</b>									
4 W Beardstown	12	1821EST			0	0			Thunderstorm Wind (E52)
<b>Pulaski County</b>									
Medaryville	12	1824EST			0	0			Hail(1.00)
<b>Starke County</b>									
6 W Bass Lake	12	1825EST			0	0			Hail(1.50)
<b>Pulaski County</b>									
2 N Beardstown	12	1844EST			0	0			Hail(1.00)
<b>Marshall County</b>									
Bourbon	12	1857EST			0	0	0		Thunderstorm Wind
			Tree down.						
<b>Marshall County</b>									
Argos	12	1905EST			0	0			Hail(1.75)
<b>Kosciusko County</b>									
2 N Atwood	12	1921EST			0	0			Hail(1.75)
<b>Fulton County</b>									
3 N Rochester	12	1928EST			0	0			Hail(0.75)
<b>Kosciusko County</b>									
2 N Pierceton	12	1950EST			0	0			Hail(0.88)
<b>St. Joseph County</b>									
Mishawaka	12	2055EST			0	0	0		Thunderstorm Wind
			Power lines down.						

# Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>INDIANA, Northeast</u></b>									
<b>Grant County</b>									
1 N Swayzee	18	1420EST			0	0			Hail(0.88)
<b>Grant County</b>									
Gas City	18	1428EST			0	0			Hail(1.00)
<b>Pulaski County</b>									
1 N Medaryville	18	1940EST			0	0	0		Thunderstorm Wind
			Few trees and power lines down.						
<b>Starke County</b>									
Knox	18	1950EST			0	0			Hail(0.75)
<b>Fulton County</b>									
3 N Delong	18	2005EST			0	0			Hail(1.00)
<b>Kosciusko County</b>									
Etna Green	18	2030EST			0	0	0		Thunderstorm Wind
			Few trees down on power lines.						
<b>Fulton County</b>									
Rochester	18	2035EST			0	0			Hail(1.75)
<b>Miami County</b>									
Peru	18	2125EST			0	0			Hail(1.00)
<b>Allen County</b>									
Ft Wayne	18	2145EST			0	0	0		Thunderstorm Wind
			Numerous trees and power lines down on the north side of Fort Wayne.						
<b>Wabash County</b>									
1 SW Wabash	18	2145EST			0	0			Hail(0.75)
<b>Kosciusko County</b>									
Claypool	18	2030EST			0	0	0		Thunderstorm Wind
			Few trees down on power lines.						
<b>Kosciusko County</b>									
Silver Lake	18	2030EST			0	0	0		Thunderstorm Wind
			Few trees down on power lines.						
<b>Whitley County</b>									
Collins	18	2142EST			0	0	0		Thunderstorm Wind
			Several small trees down along the Whitley/Allen County line.						
<b>Allen County</b>									
Ft Wayne	18	2150EST			0	0	5K		Thunderstorm Wind
			Trees and power lines down in Royal Oak subdivision. Some limbs through roofs.						
<b>Huntington County</b>									
Huntington	18	2150EST			0	0			Hail(0.75)
<b>Wabash County</b>									
1 S Wabash	18	2150EST			0	0			Hail(0.88)
<b>Allen County</b>									
Aboite	22	1645EST			0	0			Hail(0.75)
<b>White County</b>									
6 S Wolcott	31	1555EST			0	0			Hail(0.75)
<b>White County</b>									
6 S Wolcott	31	1555EST			0	0			Thunderstorm Wind (E57)
<b>Cass County</b>									
Countywide	31	1630EST			0	0	10K		Thunderstorm Wind
			Wind damage in southern half of county. Numerous trees and power lines down. Several houses with damage from fallen trees. Travel trailer blown down.						

# Storm Data and Unusual Weather Phenomena

May 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>INDIANA, Northeast</u></b>									
Miami County 3 WSW Bunker Hill	31	1645EST			0	0			Thunderstorm Wind (E57)
Miami County 2 S Grissom Afb	31	1658EST			0	0			Thunderstorm Wind (E52)
Grant County 5 W Fairmount	31	1710EST			0	0	0		Thunderstorm Wind
			Power lines down. 4 inch diameter tree down.						
Miami County Grissom Afb	31	1720EST			0	0	0		Thunderstorm Wind
			Construction trailer blown down and power lines down.						
Grant County Marion	31	1722EST			0	0	5K		Thunderstorm Wind
			Tree down on car.						
Blackford County Roll	31	1735EST			0	0			Hail(0.75)
Blackford County Millgrove	31	1745EST			0	0	0		Thunderstorm Wind
			Trees and power lines down.						
Jay County Portland	31	1754EST			0	0	1K		Thunderstorm Wind
			Tree down on a car.						
<b><u>MICHIGAN, Extreme Southwest</u></b>									
Berrien County Galien	09	0025EST			0	0	0		Thunderstorm Wind
			Numerous trees and power lines down.						
Berrien County New Buffalo	09	0025EST			0	0	0		Thunderstorm Wind
			Numerous trees and power lines down.						
Cass County Cassopolis	09	0110EST			0	0	0		Thunderstorm Wind
			Trees down.						
Cass County Marcellus	09	0115EST			0	0	0		Thunderstorm Wind
			Trees down.						
St. Joseph County Constantine	09	0115EST			0	0	0		Thunderstorm Wind
			Power lines and numerous trees down.						
Branch County Union City	09	0130EST			0	0	0		Thunderstorm Wind
			Numerous trees down.						
Berrien County Niles	09	1650EST			0	0	0		Thunderstorm Wind
			Power pole and street light down.						
Cass County Marcellus	09	1700EST			0	0			Hail(2.75)
Berrien County Niles	09	1710EST			0	0	0		Thunderstorm Wind
			Trees down at Library and at Hannah Rd. and Morris Dr.						

# Storm Data and Unusual Weather Phenomena

May 2000

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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## MICHIGAN, Extreme Southwest

<b>St. Joseph County</b> <b>Three Rivers</b>	<b>09</b>	<b>1716EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.75)</b>
<b>Hillsdale County</b> <b>Countywide</b>	<b>09</b>	<b>1845EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Numerous trees down.									
<b>Hillsdale County</b> <b>Hillsdale</b>	<b>09</b>	<b>1845EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Hillsdale County</b> <b>Hillsdale</b>	<b>09</b>	<b>1845EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
Barn blown down. Numerous trees down.									

Synoptic and mesoscale conditions during the afternoon of the 9th...

A significant mid-level shortwave trough extended through the Mississippi valley during the afternoon with a deepening surface low over northeast Illinois. Much of northern Indiana and southern Michigan were in the warm sector with surface based CAPE of 2500 J/kg and increasing deep layer shear in advance of a 70 knot mid-level jet max ahead of the mid-level shortwave.

A prefrontal squall line quickly developed late in the afternoon along the Illinois/Indiana state line. Additional isolated supercells developed in advance of this line and were mainly responsible for the swath of large hail from Wabash to Steuben counties. The squall line gradually organized into a large bow echo with the apex of the bow tracking from southwest Whitley county eastward through northern Allen and into western Defiance county in Ohio where the greatest widespread wind damage was observed.

<b>Branch County</b> <b>Coldwater</b>	<b>18</b>	<b>1340EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Branch County</b> <b>1 N Coldwater</b>	<b>18</b>	<b>1345EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Branch County</b> <b>2 N Coldwater</b>	<b>18</b>	<b>1345EST</b>			<b>0</b>	<b>0</b>			<b>Hail(2.00)</b>
<b>Berrien County</b> <b>St Joseph</b>	<b>18</b>	<b>2050EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Many tree limbs down and power lines down.									

## OHIO, Northwest

<b>Henry County</b> <b>Malinta</b>	<b>09</b>	<b>1508EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.00)</b>
<b>Henry County</b> <b>Deshler</b>	<b>09</b>	<b>1553EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.00)</b>
<b>Van Wert County</b> <b>Van Wert</b>	<b>09</b>	<b>1800EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.00)</b>
<b>Williams County</b> <b>Montpelier</b>	<b>09</b>	<b>1810EST</b>			<b>0</b>	<b>0</b>	<b>40K</b>		<b>Thunderstorm Wind</b>
Mobile home destroyed.									
<b>Paulding County</b> <b>Antwerp</b>	<b>09</b>	<b>1821EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Large tree limbs down.									
<b>Henry County</b> <b>Ridgeville Corners</b>	<b>09</b>	<b>1840EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Minor wind damage.									
<b>Van Wert County</b> <b>Convoy</b>	<b>09</b>	<b>1840EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Van Wert County</b> <b>Van Wert</b>	<b>09</b>	<b>1841EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.00)</b>

# Storm Data and Unusual Weather Phenomena

May 2000

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

### **Fulton County**

<b>Wauseon</b>	<b>09</b>	<b>1850EST</b>			<b>0</b>	<b>0</b>	<b>20K</b>		<b>Thunderstorm Wind</b>
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Numerous trees blown down. Barns damaged. Roof damage to businesses in town.

### **Putnam County**

<b>Cloverdale</b>	<b>09</b>	<b>1850EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (E61)</b>
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### **Putnam County**

<b>Cloverdale</b>	<b>09</b>	<b>1850EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.50)</b>
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### **Allen County**

<b>Delphos</b>	<b>09</b>	<b>1910EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Trees down.

Synoptic and mesoscale conditions during the afternoon of the 9th...

A significant mid-level shortwave trough extended through the Mississippi valley during the afternoon with a deepening surface low over northeast Illinois. Northwest Ohio was in the warm sector with surface based CAPE of 2500 J/kg and increasing deep layer shear in advance of a 70 knot mid-level jet max ahead of the mid-level shortwave.

A prefrontal squall line quickly developed late in the afternoon along the Illinois/Indiana state line. Additional isolated supercells developed in advance of this line and were mainly responsible for the swath of large hail from Wabash to Steuben counties. The squall line gradually organized into a large bow echo with the apex of the bow tracking from southwest Whitley county eastward through northern Allen and into western Defiance county in Ohio where the greatest widespread wind damage was observed. A bow echo/supercell merger occurred over northwest Williams county causing extensive damage in Montpelier and Columbia.

### **Paulding County**

<b>2 SW Paulding</b>	<b>18</b>	<b>2230EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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A car was blown off the road on SR500 in between Paulding and Payne.

### **Paulding County**

<b>Paulding</b>	<b>18</b>	<b>2230EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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2 to 3 trees blown down. 1 on top of a car.

# Storm Data and Unusual Weather Phenomena

June 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	
<b>INDIANA, Northeast</b>								
<b>Wabash County</b>								
3 S North Manchester	10	1730EST			0	0	0	Thunderstorm Wind
			Trees and power lines down.					
<b>St. Joseph County</b>								
South Bend	13	1044EST			0	0		Thunderstorm Wind (E56)
			South side of town near Ireland Rd.					
<b>St. Joseph County</b>								
South Bend	13	1045EST			0	0	5K	Thunderstorm Wind
			Two trees down on a parked car and a house.					
<b>St. Joseph County</b>								
Mishawaka	13	1051EST			0	0		Thunderstorm Wind (E60)
			North side of town.					
<b>St. Joseph County</b>								
Mishawaka	13	1100EST			0	0	0	Thunderstorm Wind
			Trees down.					
<b>Fulton County</b>								
Rochester	13	1345EST			0	0	0	Thunderstorm Wind
			Trees down.					
<b>Huntington County</b>								
Roanoke	13	1505EST			0	0	0	Thunderstorm Wind
			Tree down and limbs down.					
<b>Adams County</b>								
3 S Decatur	13	1515EST			0	0		Hail(0.75)
<b>La Porte County</b>								
La Porte	14	1530EST			0	0	10K	Thunderstorm Wind
			Trees and a roof were damaged by fallen trees.					
<b>White County</b>								
Wolcott	14	1531EST			0	0	0	Thunderstorm Wind
			Trees down.					
<b>White County</b>								
Wolcott	14	1535EST			0	0	10K	Thunderstorm Wind
			Roof blown off of a restaurant.					
<b>Starke County</b>								
Hamlet	14	1555EST			0	0	0	Thunderstorm Wind
			Trees down.					
<b>La Porte County</b>								
La Porte	14	1600EST			0	0	0	Thunderstorm Wind
			Trees down countywide.					
<b>Marshall County</b>								
Plymouth	14	1600EST			0	0	0	Thunderstorm Wind
			Trees and power lines down countywide.					
<b>Pulaski County</b>								
1 N Beardstown	14	1610EST			0	0	0	Thunderstorm Wind
			Trees down.					
<b>Marshall County</b>								
6 N Culver	14	1613EST			0	0	0	Thunderstorm Wind
			Large tree down.					
<b>Cass County</b>								
Lewisburg	14	1615EST			0	0	0	Thunderstorm Wind
			Trees down.					



# Storm Data and Unusual Weather Phenomena

June 2000

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

*This series of pictures was taken at the Blocker residence just north of the Wabash/Kosciusko county line. Damage to the farmstead was severe but the farm house was luckily spared. Damage was estimated to be in excess of \$100,000.*

The last farm was hit when the tornado was located just west of 1300 S and 400 E in Kosciusko County. Two barns, a garage, and several outbuildings were completely destroyed with some of the foundations swept clean. The house and two cars were severely damaged from large pieces of flying debris. A 17 foot boat was thrown about 20 yards and severely damaged. Most of the trees on this farm were destroyed. Debris from this farm was carried up to one half mile away as the tornado crossed 400 E and then lifted back into the clouds.

<b>Whitley County</b>									
<b>Countywide</b>	<b>14</b>	<b>1715EST</b> <b>1745EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Thunderstorm Wind</b>

Many barns and few homes damaged. Several trees and power lines down.

<b>Whitley County</b>									
<b>Larwill</b>	<b>14</b>	<b>1715EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.00)</b>

<b>Whitley County</b>									
<b>2 NE Larwill</b>	<b>14</b>	<b>1725EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.75)</b>

<b>Whitley County</b>									
<b>3 W Columbia City</b>	<b>14</b>	<b>1730EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.75)</b>

<b>Whitley County</b>									
<b>2 NW Columbia City</b>	<b>14</b>	<b>1733EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>

<b>Whitley County</b>									
<b>Tri Lakes</b>	<b>14</b>	<b>1736EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>

<b>Grant County</b>									
<b>Jalapa</b>	<b>14</b>	<b>1745EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>

Trees down.

<b>Whitley County</b>									
<b>Churubusco</b>	<b>14</b>	<b>1745EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>

Siding torn off of a garage. Trees down.

<b>Noble County</b>									
<b>5 S Albion</b>	<b>14</b>	<b>1748EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>

<b>Allen County</b>									
<b>Ft Wayne</b>	<b>14</b>	<b>1759EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>

Several trees down.

<b>Allen County</b>									
<b>Huntertown</b>	<b>14</b>	<b>1800EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>

Trees down.

<b>De Kalb County</b>									
<b>1 SW Butler Center to 1 SE Butler Center</b>	<b>14</b>	<b>1800EST</b> <b>1806EST</b>	<b>3</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>200K</b>		<b>Tornado (F2)</b>

The tornado touched down on CR 64, one half mile west of Indian Springs Camp Ground. Trees and power lines were knocked down and many were snapped and uprooted. Extensive roof damage occurred to houses in the area. A barn was damaged with much of its roof torn off and outbuildings were either damaged or destroyed. The tornado then lifted back into its parent cloud.

<b>Noble County</b>									
<b>Avilla</b>	<b>14</b>	<b>1800EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>

<b>De Kalb County</b>									
<b>1 ESE Butler Center to 1 E Butler Center</b>	<b>14</b>	<b>1806EST</b> <b>1810EST</b>	<b>1</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>300K</b>	<b>10K</b>	<b>Tornado (F1)</b>

# Storm Data and Unusual Weather Phenomena

June 2000

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

Once the previous tornado lifted up into the clouds, the thunderstorm cell moved northeast when this second tornado touched down and followed a skipping path near CR 60. The tornado reached the ground about 3 times. The tornado touched down first in a forested area and knocked down many trees. It then lifted and dropped down again in a residential area about a quarter mile away. There was much damage to houses and barns. A window was broken and a downspout torn off of a house. A satellite dish was twisted and bent while a television antenna was knocked off of a roof. Several trees were snapped and knocked onto power lines before the tornado lifted. It touched down a third time less than a quarter mile away. Trees were knocked down; two of them fell on automobiles. Damage was also seen in fields with corn plants being bent or uprooted. The tornado then lifted back up into the clouds.

<b>Allen County</b> (Fwa)Baer Fld Ft Way	14	1809EST			0	0			<b>Thunderstorm Wind (E51)</b>
<b>Allen County</b> Ft Wayne	14	1809EST			0	0	0		<b>Thunderstorm Wind</b> Tree down; minor house damage.
<b>Huntington County</b> 1 S Goblesville	14	1810EST			0	0	0		<b>Thunderstorm Wind</b> Several trees down.
<b>Allen County</b> Ft Wayne	14	1812EST			0	0			<b>Hail(0.75)</b>
<b>Allen County</b> 10 W Ft Wayne	14	1815EST			0	0	100K		<b>Thunderstorm Wind</b> More than 100 trees downed at Sycamore Hills Golf Club.
<b>Blackford County</b> Hartford City	14	1815EST			0	0	0		<b>Thunderstorm Wind</b> Trees and power lines down.
<b>De Kalb County</b> 1 SW Garrett	14	1820EST			0	0			<b>Hail(1.00)</b>
<b>De Kalb County</b> 1 S Garrett	14	1825EST			0	0	0		<b>Thunderstorm Wind</b> Several trees down.
<b>Wells County</b> Bluffton	14	1825EST			0	0	40K		<b>Thunderstorm Wind</b> A new house, which had undergone two months of construction, was destroyed.
<b>De Kalb County</b> Butler	14	1838EST			0	0			<b>Hail(0.75)</b>

Synoptic and mesoscale conditions for June 14th...

A significant mid-level shortwave trough was located over Iowa on the morning of June 14th with an outflow dominated squall line across western Illinois. Rapid destabilization ensued later in the morning across eastern Illinois and northern Indiana with CAPES to 3500 j/kg by early afternoon. VAD wind profiles showed 850 millibar winds in excess of 50 knots in advance of the upper trough by afternoon and as storms developed along the left over outflow boundary across Illinois... they quickly became severe and organized into a large bow echo and moved quickly eastward into northern Indiana causing extensive wind damage. By late afternoon... a short segmented squall line developed just ahead of this bow echo squall line and extended from a St. Joseph to Fulton county line. Along the southern end of this line... an embedded tornadic supercell developed and interacted with a left over storm-scale outflow boundary to produce the Wabash/Kosciusko and DeKalb county tornadoes. The lack of significant low level shear likely prevented a much larger and more widespread tornado event especially across Whitley and Allen counties where several funnel clouds were captured on film but failed to touch down.

<b>Starke County</b> North Judson	20	1520EST			0	0			<b>Thunderstorm Wind (E50)</b>
<b>Starke County</b> Knox	20	1540EST			0	0	0		<b>Thunderstorm Wind</b> Tree blown down.

# Storm Data and Unusual Weather Phenomena

June 2000

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

<b>Marshall County</b> 5 W Plymouth	20	1552EST			0	0	0	Thunderstorm Wind
			Minor damage to siding of building.					
<b>Marshall County</b> 3 NW Plymouth	20	1600EST			0	0	0	Thunderstorm Wind
			Several trees down. Camper trailers blown over.					
<b>Marshall County</b> Plymouth	20	1600EST			0	0	0	Thunderstorm Wind
			Tree down.					
<b>Fulton County</b> Rochester	20	1618EST			0	0	2K	Thunderstorm Wind
			Tree down on car.					
<b>Elkhart County</b> 3 E Wakarusa	20	1620EST			0	0	0	Thunderstorm Wind
			Tree down.					
<b>De Kalb County</b> Butler	20	1800EST			0	0	0	Thunderstorm Wind
			Several trees and power lines down.					
<b>INZ025</b> Huntington	24	2000EST 2300EST			0	0	100K	Flood

Hundreds of acres of soybeans and corn were lost due to excessive flooding throughout the entire county.

## MICHIGAN, Extreme Southwest

<b>Berrien County</b> Niles	12	1500EST			0	0	0	Thunderstorm Wind
			Minor wind damage to the roofs of 4 buildings.					
<b>St. Joseph County</b> Countywide	12	1630EST			0	0	0	Thunderstorm Wind
			Trees down in northern part of county.					
<b>Cass County</b> Cassopolis	12	1645EST			0	0	0	Thunderstorm Wind
			Trees down.					
<b>St. Joseph County</b> Colon	12	1740EST			0	0	0	Thunderstorm Wind
			Trees and power lines downed. Minor damage to a grain bin.					
<b>Branch County</b> 6 N Bronson	12	1800EST			0	0	0	Thunderstorm Wind
			Roofs blown off two pole barns. Large grain bin moved 1/4 mile by wind. Trees down and some uprooted.					
<b>Berrien County</b> Stevensville	14	1407EST			0	0		Hail(1.25)
<b>Berrien County</b> Coloma	14	1445EST			0	0	0	Thunderstorm Wind
			Trees and power lines down. About 4,200 people lost power.					
<b>St. Joseph County</b> 3 SW Three Rivers	14	1710EST			0	0	0	Thunderstorm Wind
			Power lines and pole down. Trees down and some uprooted.					
<b>Berrien County</b> Countywide	14	1800EST			0	0	0	Thunderstorm Wind
			About 5,400 people lost power due to fallen trees on power lines.					

# Storm Data and Unusual Weather Phenomena

June 2000

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

### Branch County

<b>Bronson</b>	<b>14</b>	<b>1813EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Trees and power lines down.  
Synoptic and mesoscale conditions for June 14th...

A significant mid-level shortwave trough was located over Iowa on the morning of June 14th with an outflow dominated squall line across western Illinois. Rapid destabilization ensued later in the morning with CAPES to 3500 j/kg by early afternoon. VAD wind profiles showed 850 millibar winds in excess of 50 knots in advance of the upper trough by afternoon and as storms developed along the left over outflow boundary across Illinois... they quickly became severe and organized into a large bow echo and moved quickly eastward into northern Indiana and southern Michigan causing extensive wind damage.

## OHIO, Northwest

### Putnam County

<b>1 NW Pandora</b>	<b>12</b>	<b>1712EST</b>	<b>0.8</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>40K</b>		<b>Tornado (F1)</b>
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Significant damage to a barn. Minor crop damage and six fruit trees blown down in same location.

### Van Wert County

<b>Convoy</b>	<b>14</b>	<b>1340EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Limbs and poles down.

### Paulding County

<b>2 S Paulding</b>	<b>14</b>	<b>1345EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Trees down.

### Van Wert County

<b>Van Wert</b>	<b>14</b>	<b>1440EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Barn destroyed. Trees down.

### Van Wert County Van Wert

<b>14</b>	<b>1540EST</b>			<b>0</b>	<b>0</b>		<b>Hail(0.75)</b>
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### Putnam County

<b>3 N Leipsic</b>	<b>14</b>	<b>1607EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Power lines and poles down.

### Williams County

<b>Montpelier</b>	<b>14</b>	<b>1840EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Power lines down.

### Defiance County

<b>Defiance</b>	<b>14</b>	<b>1845EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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One tree down.

### Paulding County

<b>Paulding</b>	<b>14</b>	<b>1850EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
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Large tree limbs down. Damage to a house and car.

### Fulton County

<b>Wauseon</b>	<b>14</b>	<b>1925EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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One tree down.  
Synoptic and mesoscale conditions for June 14th...

A significant mid-level shortwave trough was located over Iowa on the morning of June 14th with an outflow dominated squall line across western Illinois. VAD wind profiles showed 850 millibar winds in excess of 50 knots in advance of the upper trough by afternoon and as storms developed along the left over outflow boundary across Illinois... they quickly became severe and organized into a large bow echo and moved quickly eastward across northern Indiana and southern Michigan eventually reaching northwest Ohio by late afternoon and caused extensive wind damage.

### Putnam County

<b>Ottawa</b>	<b>20</b>	<b>2010EST</b>			<b>0</b>	<b>0</b>		<b>Hail(1.50)</b>
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### Putnam County

<b>Ottawa</b>	<b>20</b>	<b>2010EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
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Several trees down.



# Storm Data and Unusual Weather Phenomena

July 2000

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**

Tree limbs down.

**OHIO, Northwest**

<b>Putnam County</b>									
<b>Pandora</b>	14	1140EST			0	0			<b>Hail(0.75)</b>
<b>Putnam County</b>									
<b>Pandora</b>	14	1145EST			0	0			<b>Hail(1.00)</b>
<b>Defiance County</b>									
<b>Defiance</b>	28	1215EST			0	0			<b>Hail(0.75)</b>

# Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>INDIANA, Northeast</u></b>									
Kosciusko County 2 N North Webster	02	1655EST			0	0			Hail(0.75)
Steuben County Fremont	02	1659EST			0	0			Hail(0.75)
Kosciusko County 2 SE Syracuse	02	1703EST			0	0			Hail(0.75)
Kosciusko County 2 SE Syracuse	02	1703EST			0	0	0		Thunderstorm Wind Tree down.
Noble County Ligonier	02	1709EST			0	0			Hail(0.75)
Adams County Preble	02	1750EST			0	0			Hail(0.75)
Adams County 3 N Decatur	02	1758EST			0	0			Hail(0.75)
Grant County Swayzee	02	1759EST			0	0			Hail(0.75)
Grant County Swayzee	02	1802EST			0	0			Hail(0.75)
Grant County Swayzee	02	1808EST			0	0			Hail(0.75)
Wells County Bluffton	02	1823EST			0	0			Hail(0.75)
Jay County Dunkirk	02	1918EST			0	0			Hail(1.00)
Whitley County Tri Lakes	02	2005EST			0	0			Hail(1.00)
Whitley County Churubusco	02	2010EST			0	0			Hail(0.75)
Allen County 3 NE Ft Wayne	02	2050EST			0	0	0		Thunderstorm Wind Many large tree limbs down.
Noble County Rome City	06	1740EST			0	0	5K		Thunderstorm Wind Large trees down. Large shed destroyed.
Noble County 3 N Kendallville	06	1745EST			0	0	0		Thunderstorm Wind Large limbs down.
Lagrange County Lagrange	06	1810EST			0	0			Thunderstorm Wind (E52)
Pulaski County 2 N Winamac	06	1810EST			0	0	0		Thunderstorm Wind Trees down.
Starke County Starke Co Arpt	06	1810EST			0	0	0		Thunderstorm Wind Trees down.
La Porte County La Porte	06	1816EST			0	0	0		Thunderstorm Wind Trees down.

# Storm Data and Unusual Weather Phenomena

August 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>INDIANA, Northeast</u></b>									
<b>Marshall County</b> 4 W Plymouth	06	1819EST			0	0			Thunderstorm Wind (E52)
<b>Elkhart County</b> 5 N Goshen	06	1820EST			0	0			Thunderstorm Wind (E52)
<b>Fulton County</b> Rochester	06	1845EST			0	0	0		Thunderstorm Wind Trees down.
<b>Elkhart County</b> Nappanee	06	1847EST			0	0	0		Thunderstorm Wind Large trees down.
<b>St. Joseph County</b> 2 S Mishawaka	06	1857EST			0	0	0		Thunderstorm Wind Trees down.
<b>Miami County</b> 2 SW Macy	06	1859EST			0	0	0		Thunderstorm Wind Large tree limbs down.
<b>Marshall County</b> 4 S Argos	06	1900EST			0	0	10K		Thunderstorm Wind Large shed destroyed.
<b>Kosciusko County</b> Warsaw	06	1915EST			0	0	0		Thunderstorm Wind Trees down.
<b>Lagrange County</b> Shipshewana	06	1920EST			0	0	0		Thunderstorm Wind Trees down.
<b>Steuben County</b> Countywide	06	1920EST			0	0	0		Thunderstorm Wind Trees and power lines down.
<b>Wabash County</b> North Manchester	06	1920EST			0	0	0		Thunderstorm Wind Power lines down. 2 large trees down.
<b>Whitley County</b> Lorane	06	1920EST			0	0	0		Thunderstorm Wind Trees down.
<b>Whitley County</b> Columbia City	06	1930EST			0	0	0		Thunderstorm Wind Large tree down.
<b>De Kalb County</b> Countywide	06	1940EST			0	0	0		Thunderstorm Wind Trees and power lines down.
<b>Allen County</b> Grabill	06	1945EST			0	0	0		Thunderstorm Wind Trees down.
<b>Noble County</b> Albion	06	1945EST			0	0	0		Thunderstorm Wind Trees and power lines down. Synoptic and mesoscale conditions for August 6th...

A significant shortwave trough of low pressure combined with a mid level speed max of 60 knots and rapid prefrontal destabilization during the day of August 6th ahead of a strong cold front led to convective initiation across eastern Iowa by late morning. Given favorable deep layer shear of 50 knots and extreme instability present from Northern Illinois into Northwest Ohio that afternoon... storms quickly organized into a bow echo squall line as they rapidly moved eastward at speeds of up to 50 knots. As the bow echo

# Storm Data and Unusual Weather Phenomena

August 2000

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

matured... dramatic yet elevated rear inflow jet developed along the backside with isolated wind damage along and west of a Elkhart to Wabash line. However, with time the rear inflow jet descended causing widespread wind damage across Whitley, Noble and Allen counties.

<b>White County</b> Monticello	<b>09</b>	<b>0640EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Numerous trees down and power lines down.									
<b>Miami County</b> 2 NW Peru	<b>09</b>	<b>1012EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Steuben County</b> Pleasant Lake	<b>23</b>	<b>1317EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Fulton County</b> 3 N Kewanna	<b>23</b>	<b>1720EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Fulton County</b> 3 N Kewanna	<b>23</b>	<b>1740EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Fulton County</b> Kewanna	<b>23</b>	<b>1744EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.75)</b>
<b>Lagrange County</b> 5 W Elmira	<b>26</b>	<b>1600EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Trees blown down across eastern Lagrange county.									
<b>Steuben County</b> Orland	<b>26</b>	<b>1625EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Several large trees blown down taking power lines down as well.									
<b>Steuben County</b> Pleasant Lake	<b>26</b>	<b>1625EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>

## MICHIGAN, Extreme Southwest

<b>Berrien County</b> Stevensville	<b>06</b>	<b>1840EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Large limbs down.									
<b>Berrien County</b> 1 N Baroda	<b>06</b>	<b>1926EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Large limbs down. Tree down.									
<b>Hillsdale County</b> 2 W Somerset Center	<b>26</b>	<b>1735EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Several trees blown down. Windows blown out of a mobile home.									
<b>Hillsdale County</b> Camden	<b>26</b>	<b>2009EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Numerous trees down throughout town.									

## OHIO, Northwest

<b>Henry County</b> Napoleon	<b>02</b>	<b>1735EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
Power lines down.									
<b>Williams County</b> 1 S Pioneer	<b>02</b>	<b>1735EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (E50)</b>
<b>Fulton County</b> Swanton	<b>02</b>	<b>1830EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Henry County</b> Liberty Center	<b>02</b>	<b>1835EST</b>			<b>0</b>	<b>0</b>			<b>Hail(1.75)</b>

# Storm Data and Unusual Weather Phenomena

August 2000

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
<b><u>OHIO, Northwest</u></b>									
<b>Henry County</b> Liberty Center	02	1835EST			0	0			Thunderstorm Wind (E52) Large tree limbs down.
<b>Paulding County</b> Briceton	02	1844EST			0	0			Hail(1.00)
<b>Henry County</b> 3 NNE Holgate	02	1855EST			0	0			Hail(0.75)
<b>Putnam County</b> Kalida	02	1915EST			0	0			Hail(1.75)
<b>Williams County</b> Countywide	06	1910EST			0	0	0		Thunderstorm Wind Trees and power lines down.
<b>Defiance County</b> Defiance	06	1940EST			0	0	0		Thunderstorm Wind Trees down.
<b>Fulton County</b> 2 SE Delta to 2 S Delta	06	2000EST			0	0	10K		Thunderstorm Wind Roof off of building.
<b>Defiance County</b> 4 S Defiance	06	2002EST			0	0	50K		Thunderstorm Wind Several barns destroyed.
<b>Paulding County</b> Countywide	06	2010EST			0	0	0		Thunderstorm Wind Trees and power lines down.
<b>Paulding County</b> Melrose	06	2010EST			0	0	10K		Thunderstorm Wind Metal roof blown off barn and into a house.
<b>Paulding County</b> 7 N Oakwood	06	2010EST			0	1	10K		Thunderstorm Wind Mobile home blown over.
<b>Putnam County</b> Dupont	06	2014EST			0	0	0		Thunderstorm Wind Large trees down.
<b>Putnam County</b> Continental	06	2015EST			0	0	0		Thunderstorm Wind Large trees down.
<b>Putnam County</b> Continental	06	2020EST			0	0			Thunderstorm Wind (E60)
<b>Van Wert County</b> Scott	06	2025EST			0	0	0		Thunderstorm Wind Trees down.
<b>Putnam County</b> Ottawa	06	2026EST			0	0	0		Thunderstorm Wind Trees down.
<b>Putnam County</b> Leipsic	06	2027EST			0	0	10K		Thunderstorm Wind Large trees down. Metal roof blown off of a warehouse.
<b>Putnam County</b> 2 N Columbus Grove	06	2035EST			0	0			Hail(0.75)

# Storm Data and Unusual Weather Phenomena

August 2000

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

### Henry County

#### Countywide

06	2037EST				0	0	0		<b>Thunderstorm Wind</b>
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Trees and power lines down.

### Allen County

#### 7 W Lima

06	2044EST				0	0	0		<b>Thunderstorm Wind</b>
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Trees and power lines down.

### Allen County

#### Slabtown

06	2044EST				0	0	0		<b>Thunderstorm Wind</b>
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Trees and power lines down.

Synoptic and mesoscale conditions for August 6th...

A significant shortwave trough of low pressure combined with a mid level speed max of 60 knots and rapid prefrontal destabilization during the day of August 6th ahead of a strong cold front led to convective initiation across eastern Iowa by late morning. Given favorable deep layer shear of 50 knots and extreme instability present from Northern Illinois into Northwest Ohio that afternoon... storms quickly organized into a bow echo squall line as they rapidly moved eastward at speeds of up to 50 knots. As the bow echo matured... dramatic yet elevated rear inflow jet developed along the backside with isolated wind damage along and west of a Elkhart to Wabash line. However, with time the rear inflow jet descended causing widespread wind damage across Paulding, Defiance, Henry and Putnam counties.

### Williams County

#### Edon

23	1351EST				0	0			<b>Hail(0.75)</b>
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# Storm Data and Unusual Weather Phenomena

September 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>INDIANA, Northeast</u></b>									
<b>White County</b> <b>Reynolds</b>	<b>03</b>	<b>2145EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.88)</b>
<b>White County</b> <b>Reynolds</b>	<b>03</b>	<b>2145EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (M51)</b>
<b>Miami County</b> <b>2 W Peru</b>	<b>03</b>	<b>2250EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Tree blown down on Highway 24.
<b>Lagrange County</b> <b>Shipshewana</b>	<b>11</b>	<b>1455EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Trees down.
<b>Lagrange County</b> <b>2 E Brighton</b>	<b>11</b>	<b>1510EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Power lines downed.
<b>Lagrange County</b> <b>Lagrange</b>	<b>11</b>	<b>1515EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Trees down.
<b>Elkhart County</b> <b>Countywide</b>	<b>11</b>	<b>1530EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Numerous trees and power lines down.
<b>Steuben County</b> <b>Angola</b>	<b>11</b>	<b>1545EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Trees and power lines down.
<b>Steuben County</b> <b>Countywide</b>	<b>11</b>	<b>1600EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Numerous trees and power lines down across the county.
<b>Kosciusko County</b> <b>Syracuse</b>	<b>11</b>	<b>1602EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Large limbs blown down.
<b>Noble County</b> <b>Countywide</b>	<b>11</b>	<b>1605EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Numerous trees and power lines down.
<b>Kosciusko County</b> <b>Milford</b>	<b>11</b>	<b>1620EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>Marshall County</b> <b>3 W Plymouth</b>	<b>11</b>	<b>1705EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> Several trees down.
<b>Fulton County</b> <b>Countywide</b>	<b>11</b>	<b>1719EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b> 200 miles of power lines were pulled down or damaged from fallen tree limbs across the county.
<b>Marshall County</b> <b>Countywide</b>	<b>11</b>	<b>1725EST</b>			<b>0</b>	<b>0</b>	<b>150K</b>		<b>Thunderstorm Wind</b> Numerous trees and power lines downed.
<b>Kosciusko County</b> <b>6 E Warsaw</b>	<b>11</b>	<b>1730EST</b>			<b>0</b>	<b>0</b>	<b>150K</b>		<b>Lightning</b> Lightning struck a barn causing a fire which gutted the barn and its contents.
<b>Kosciusko County</b> <b>1 S Warsaw</b>	<b>11</b>	<b>1735EST</b>			<b>0</b>	<b>0</b>			<b>Hail(0.75)</b>
<b>INZ009-016&gt;017</b>			<b>De Kalb - Kosciusko - Whitley</b>						
	<b>11</b>	<b>1800EST 2100EST</b>			<b>0</b>	<b>0</b>	<b>400K</b>		<b>Flood</b> Widespread street and basement flooding. Between 4 and 5 inches of rainfall was reported in town. Several people were rescued from stranded vehicles in flood waters.

# Storm Data and Unusual Weather Phenomena

September 2000

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

<b>Wabash County</b>									
<b>Wabash</b>	<b>11</b>	<b>1810EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Numerous trees blown down.						
<b>Whitley County</b>									
<b>Columbia City</b>	<b>11</b>	<b>1810EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind (E51)</b>
<b>Whitley County</b>									
<b>Columbia City</b>	<b>11</b>	<b>1820EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Power pole snapped.						
<b>Whitley County</b>									
<b>Columbia City</b>	<b>11</b>	<b>1820EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Tree limbs and power lines down across town.						
<b>Huntington County</b>									
<b>Huntington</b>	<b>11</b>	<b>1830EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Trees down in town. One home suffered considerable damage to the roof and front porch when a large tree fell on it.						
<b>Wabash County</b>									
<b>Countywide</b>	<b>11</b>	<b>1830EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>Thunderstorm Wind</b>
			Numerous trees and power lines reported down.						
<b>Allen County</b>									
<b>Ft Wayne</b>	<b>11</b>	<b>1850EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Large limbs down.						
<b>Grant County</b>									
<b>Van Buren</b>	<b>20</b>	<b>1538EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Power lines downed.						
<b>Adams County</b>									
<b>Linn Grove</b>	<b>20</b>	<b>1620EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Tree limbs and one tree blown down.						

## OHIO, Northwest

<b>Van Wert County</b>									
<b>2 N Ohio City</b>	<b>20</b>	<b>1645EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Large tree blown down. Power lines down as well.						
<b>Putnam County</b>									
<b>Kalida</b>	<b>20</b>	<b>1700EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind (M65)</b>
<b>Allen County</b>									
<b>Lima</b>	<b>20</b>	<b>1725EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Large tree blown down.						
<b>Allen County</b>									
<b>Beaverdam</b>	<b>20</b>	<b>1730EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Thunderstorm Wind</b>
			Trees blown down in town.						



# Storm Data and Unusual Weather Phenomena

November 2000

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

INZ004

**St. Joseph**

20 2100EST  
21 1400EST

0      0      0

**Heavy Snow**

...Synoptic and mesoscale conditions for November 20th and 21st...

The first blast of arctic air across Lake Michigan herald the start of first lake effect snow event of the season across northwest Indiana by late afternoon on the 20th. By late evening...most locations from LaPorte to Elkhart reported heavy snow which continued into Tuesday morning. Some notable storm total snowfall reports included 12 inches at the South Bend Waste Water plant... 10 inches in New Carlisle... and 7 inches at the South Bend airport.

## MICHIGAN, Extreme Southwest

MIZ077>079

**Berrien - Cass - St. Joseph**

20 2100EST  
21 1400EST

0      0      0

**Heavy Snow**

...Synoptic and mesoscale conditions for November 20th and 21st...

The first blast of arctic air across Lake Michigan herald the start of first lake effect snow event of the season across southwest Michigan by late afternoon on the 20th. By late evening...most locations from Benton Harbor to Sturgis reported heavy snow which continued into Tuesday morning. Some notable storm total snowfall reports included 11 inches in Dowagiac... 10 inches in Niles... 9 in Benton Harbor and Union... and 8.5 inches in Three Rivers.

# Storm Data and Unusual Weather Phenomena

December 2000

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>008-012-014-016 La Porte - St. Joseph - Elkhart - Lagrange - Steuben - Noble - Starke - Marshall - Kosciusko**

	<b>11</b>	<b>0800EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>12</b>	<b>1000EST</b>							

...Synoptic and mesoscale conditions on December 11th...

An unseasonably cold arctic airmass spilling southward out of southern Canada on the 10th combined with a very strong upper level disturbance and upper level jet of 160 knots came together over the Midwest early on the 11th. Surface low pressure developed over Oklahoma early on the 11th and rapidly deepened as it lifted northeastward into central Indiana by late afternoon. Heavy snow developed quickly during the morning and mixed with some sleet at times due to the tremendous warm air advection out ahead of the intensifying system. Heavy snow continued into the early morning hours of the 12th with thunder snow reported at several locations in northwest Indiana and southwest Michigan within the mid level deformation zone of the upper low. As the surface low continued to intensify and pull out into Ohio during the night of the 11th...strong gradient winds developed creating near blizzard conditions over northwest Indiana and southwest Michigan and caused some damage to trees and power lines over northwest Ohio with wind gusts of 59 mph reported in Putnam Ohio and 56 mph in Lima Ohio. Some notable storm total snowfall reports included 16 inches in Cassopolis... 14 in Elkhart... 13.5 in Goshen... 12 in Niles, St. Joseph, Salem Center, and the South Bend airport... and 10 inches in Berrien Springs, Westville, Middlebury, Mishawaka, Union, and White Pigeon with 6 to 8 inches elsewhere.

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

	<b>13</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>14</b>	<b>0000EST</b>							

...Synoptic and mesoscale conditions for December 13th...

Another in a series of strong upper level disturbances coming out of the southern plains combined with an intensifying upper jet over southern Canada led to another bout of heavy snow across part of Indiana and Northwest Ohio on the 13th. Although the surface low remained quite weak and the upper level system moved rather quickly... moisture was able to quickly advect northward out of the lower Mississippi valley as the low level jet intensified in response to increasing upper level divergence associated with the strong upper level jet over southern Canada. Snow developed around noon and quickly became heavy by mid afternoon and continued into late evening before tapering off. Some notable storm total snowfall reports included 8 inches at Grissom AFB... 7.4 in Young America... 7 in Defiance, Huntington, Monroeville, Portland, Bluffton, and Montpelier, and 6 in Marion, Columbus Grove, Fort Wayne, Hartford City, Monticello, Van Wert, Wabash, Wauseon, and Columbia City.

**INZ006>008-015>018-022>024 Lagrange - Steuben - Noble - Fulton - Kosciusko - Whitley - Allen - Cass - Miami - Wabash**

	<b>16</b>	<b>2300EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>17</b>	<b>0700EST</b>							

...Synoptic and mesoscale conditions on December 17th...

The last in a series of strong upper level disturbances and associated upper level jet streaks moving northward out of the lower Mississippi valley combined with another arctic cold front dropping down out of southern Canada on the 17th. Developing surface low pressure along the advancing arctic front was initially quite weak...however as the strong upper level low ejected out of the mean long wave trough through the central US and two distinct upper jet streaks coupled...the surface low bombed as it moved northeast from Louisville Kentucky to Toledo Ohio late that evening. Very heavy snow developed within the developing mid level deformation zone due in part to considerable moisture wrapping westward in advance of the upper level low, increasing deep upward vertical motion as the jet streak coupling occurred and rapid intensification of the system in general. Several locations reported thunder snow with snowfall rates of 1 to 2 inches per hour for a 6 hour period during the early morning hours of the 17th. Some notable storm total snowfall reports included 10.5 inches in Lagrange... 9 in Sturgis and Albion, 8 in Warsaw and La Otto, 7 in Columbia City, Cromwell, Kendallville and Middlebury and 6 inches in Rochester, Royal Center, Logansport and Fort Wayne.

**INZ003>006-008-012-014-016 La Porte - St. Joseph - Elkhart - Lagrange - Noble - Starke - Marshall - Kosciusko**

	<b>18</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>19</b>	<b>0000EST</b>							

...Synoptic and mesoscale conditions for December 18th and 19th...

A strong upper jet streak combined with an intense mid-level shortwave trough were responsible for developing low pressure over southern Missouri the morning of the 18th. Heavy snow broke out across Iowa and Illinois early in the afternoon of the 18th. As the system strengthened and moved northeast...moderate to heavy developed over northern Indiana and southwest lower Michigan which continued into late evening.

As the low pulled off into Ontario Canada...strong northwest winds advecting in much colder air began to stream down along the long stream axis of Lake Michigan with multiple bands of lake effect snow developing the morning of the 19th. Due to the large temperature differences between the lake and 850 millibars and the development of a mesoscale low over the lake...an intense shore parallel lake effect snow band developed by late morning on the 19th. This band shifted slowly eastward during the day of the 19th dropping 1 to 2 inches of snow per hour before it broke up and dissipated by late evening. General snowfall amounts with the

# Storm Data and Unusual Weather Phenomena

December 2000

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

synoptic system ranged from 2 to 5 inches with an additional 1 to as much as 8 inches of lake effect snow. Notable combined storm total snowfall amounts included 13 inches at Bridgman Michigan... 10 in Michigan City, Kingsbury, Elkhart and St. Joseph... 9 in Plymouth, LaPorte and Benton Harbor... 8 in Goshen and Cassopolis... 6 to 7 in Nappanee, South Bend, Warsaw, Middlebury, Mishawaka, Union and White Pigeon.

## MICHIGAN, Extreme Southwest

**MIZ077>081**

**Berrien - Cass - St. Joseph - Branch - Hillsdale**

<b>11</b>	<b>0800EST</b>								
<b>12</b>	<b>1400EST</b>				<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>

...Synoptic and mesoscale conditions on December 11th...

An unseasonably cold arctic airmass spilling southward out of southern Canada on the 10th combined with a very strong upper level disturbance and upper level jet of 160 knots came together over the Midwest early on the 11th. Surface low pressure developed over Oklahoma early on the 11th and rapidly deepened as it lifted northeastward into central Indiana by late afternoon. Heavy snow developed quickly during the morning and mixed with some sleet at times due to the tremendous warm air advection out ahead of the intensifying system. Heavy snow continued into the early morning hours of the 12th with thunder snow reported at several locations in northwest Indiana and southwest Michigan within the mid level deformation zone of the upper low. As the surface low continued to intensify and pull out into Ohio during the night of the 11th...strong gradient winds developed creating near blizzard conditions over northwest Indiana and southwest Michigan and caused some damage to trees and power lines over northwest Ohio with wind gusts of 59 mph reported in Putnam Ohio and 56 mph in Lima Ohio. Some notable storm total snowfall reports included 16 inches in Cassopolis... 14 in Elkhart... 13.5 in Goshen... 12 in Niles, St. Joseph, Salem Center, and the South Bend airport... and 10 inches in Berrien Springs, Westville, Middlebury, Mishawaka, Union, and White Pigeon.

**MIZ079>080**

**St. Joseph - Branch**

<b>17</b>	<b>0000EST</b>								
	<b>0600EST</b>				<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>

...Synoptic and mesoscale conditions on December 17th...

The last in a series of strong upper level disturbances and associated upper level jet streaks moving northward out of the lower Mississippi valley combined with another arctic cold front dropping down out of southern Canada on the 17th. Developing surface low pressure along the advancing arctic front was initially quite weak...however as the strong upper level low ejected out of the mean long wave trough through the central US and two distinct upper jet streaks coupled...the surface low bombed as it moved northeast from Louisville Kentucky to Toledo Ohio late that evening. Very heavy snow developed within the developing mid level deformation zone due in part to considerable moisture wrapping westward in advance of the upper level low, increasing deep upward vertical motion as the jet streak coupling occurred and rapid intensification of the system in general. Several locations reported thunder snow with snowfall rates of 1 to 2 inches per hour for a 6 hour period during the early morning hours of the 17th. Some notable storm total snowfall reports included 10.5 inches in Lagrange... 9 in Sturgis and Albion, 8 in Warsaw and La Otto, 7 in Columbia City, Cromwell, Kendallville and Middlebury and 6 inches in Rochester, Royal Center, Logansport and Fort Wayne.

**MIZ077>079**

**Berrien - Cass - St. Joseph**

<b>18</b>	<b>1200EST</b>								
<b>19</b>	<b>0000EST</b>				<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>

...Synoptic and mesoscale conditions for December 18th and 19th...

A strong upper jet streak combined with an intense mid-level shortwave trough were responsible for developing low pressure over southern Missouri the morning of the 18th. Heavy snow broke out across Iowa and Illinois early in the afternoon of the 18th. As the system strengthened and moved northeast...moderate to heavy developed over northern Indiana and southwest lower Michigan which continued into late evening.

As the low pulled off into Ontario Canada...strong northwest winds advecting in much colder air began to stream down along the long stream axis of Lake Michigan with multiple bands of lake effect snow developing the morning of the 19th. Due to the large temperature differences between the lake and 850 millibars and the development of a mesoscale low over the lake...an intense shore parallel lake effect snow band developed by late morning on the 19th. This band shifted slowly eastward during the day of the 19th dropping 1 to 2 inches of snow per hour before it broke up and dissipated by late evening. General snowfall amounts with the synoptic system ranged from 2 to 5 inches with an additional 1 to as much as 8 inches of lake effect snow. Notable combined storm total snowfall amounts included 13 inches at Bridgman Michigan... 10 in Michigan City, Kingsbury, Elkhart and St. Joseph... 9 in Plymouth, LaPorte and Benton Harbor... 8 in Goshen and Cassopolis... 6 to 7 in Nappanee, South Bend, Warsaw, Middlebury, Mishawaka, Union and White Pigeon.

# Storm Data and Unusual Weather Phenomena

December 2000

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

<b>OHZ015&gt;016-024&gt;025</b>	<b>Paulding - Putnam - Van Wert - Allen</b>								
	<b>11</b>	<b>2200EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>High Wind (M51)</b>
	<b>12</b>	<b>0200EST</b>							

...Synoptic and mesoscale conditions on December 11th and 12th...

An unseasonably cold arctic airmass spilling southward out of southern Canada on the 10th combined with a very strong upper level disturbance and upper level jet of 160 knots came together over the Midwest early on the 11th. Surface low pressure developed over Oklahoma early on the 11th and rapidly deepened as it lifted northeastward into central Indiana by late afternoon. A burst of heavy snow developed during the morning and quickly changed to heavy rain by late morning due to the tremendous warm air advection out ahead of the intensifying system. As the surface low continued to intensify and pull out into northern Ohio during the night of the 11th...strong gradient winds developed which caused some damage to trees and power lines over northwest Ohio with wind gusts of 59 mph reported in Putnam Ohio and 56 mph in Lima Ohio.

<b>OHZ001&gt;002-004&gt;005-015&gt;016-024&gt;025</b>	<b>Williams - Fulton - Defiance - Henry - Paulding - Putnam - Van Wert - Allen</b>								
	<b>13</b>	<b>1400EST</b>			<b>0</b>	<b>0</b>	<b>0</b>		<b>Heavy Snow</b>
	<b>14</b>	<b>0000EST</b>							

...Synoptic and mesoscale conditions for December 13th...

Another in a series of strong upper level disturbances coming out of the southern plains combined with an intensifying upper jet over southern Canada led to another bout of heavy snow across part of Indiana and Northwest Ohio on the 13th. Although the surface low remained quite weak and the upper level system moved rather quickly... moisture was able to quickly advect northward out of the lower Mississippi valley as the low level jet intensified in response to increasing upper level divergence associated with the strong upper level jet over southern Canada. Snow developed around noon and quickly became heavy by mid afternoon and continued into late evening before tapering off. Some notable storm total snowfall reports included 8 inches at Grissom AFB... 7.4 in Young America... 7 in Defiance, Huntington, Monroeville, Portland, Bluffton, and Montpelier, and 6 in Marion, Columbus Grove, Fort Wayne, Hartford City, Monticello, Van Wert, Wabash, Wauseon, and Columbia City.