



# National Weather Service

## Storm Data and Unusual Weather Phenomena



September 2005

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

### LAKE ERIE

|   |   |                    |  |  |   |   |  |  |                         |
|---|---|--------------------|--|--|---|---|--|--|-------------------------|
| LEZ149<br>Ripley Ny   | Conneaut Oh To Ripley Ny<br>18  | 1100EST            |  |  | 0 | 0 |  |  | Waterspout              |
| A waterspout was observed just west of Walnut Creek Marina. No damage occurred. |   |                    |  |  |   |   |  |  |                         |
| LEZ146<br>Avon Point to<br>Willowick  | Avon Point To Willowick Oh<br>22  | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ149<br>Ripley Ny   | Conneaut Oh To Ripley Ny<br>22  | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ148<br>Geneva-On-The-Lake to<br>Conneaut                                     | Geneva On The Lake Oh To Conneaut Oh<br>22                                  | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ166<br>Avon Point to<br>Willowick  | Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border<br>22            | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ169<br>Conneaut to<br>Ripley Ny  | Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border<br>22           | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ162<br>Maumee Bay to<br>Reno Beach   | Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border<br>22      | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ168<br>Geneva-On-The-Lake to<br>Conneaut                                     | Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border<br>22  | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ163<br>Reno Beach to<br>The Islands  | Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border<br>22       | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ164<br>The Islands to<br>Vermilion   | Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border<br>22        | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ165<br>Vermilion to<br>Avon Point  | Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border<br>22            | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ167<br>Willowick to<br>Geneva-On-The-Lake                                    | Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border<br>22 | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ142<br>Maumee Bay to<br>Reno Beach   | Maumee Bay To Reno Beach Oh<br>22   | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ143<br>Reno Beach to<br>The Islands  | Reno Beach To The Islands Oh<br>22  | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ144<br>The Islands to<br>Vermilion   | The Islands To Vermilion Oh<br>22   | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ145<br>Vermilion to<br>Avon Point  | Vermilion To Avon Point Oh<br>22  | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ147<br>Willowick to<br>Geneva-On-The-Lake                                    | Willowick To Geneva On The Lake Oh<br>22                                    | 1900EST<br>2000EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (MG48) |

A line of strong thunderstorms moved over Lake Erie during the evening hours of the 22nd. The line extended nearly the entire length of the lake and moved southeast towards the southern shoreline. Winds were estimated to be at least 35 knots as the storms moved over the southern part of the lake. A 48 knot gust was measured at the Coast Guard station in Fairport Harbor.



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

### LAKE ERIE

|  |   |                    |  |  |   |   |  |  |                         |
|--|---|--------------------|--|--|---|---|--|--|-------------------------|
| LEZ146<br>Avon Point to<br>Willowick         | Avon Point To Willowick Oh<br>22  | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ149<br>Ripley Ny                          | Conneaut Oh To Ripley Ny<br>22  | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ148<br>Geneva-On-The-Lake to<br>Conneaut  | Geneva On The Lake Oh To Conneaut Oh<br>22                                  | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ166<br>Avon Point to<br>Willowick         | Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border<br>22            | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ169<br>Conneaut to<br>Ripley Ny           | Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border<br>22           | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ162<br>Maumee Bay to<br>Reno Beach        | Le Detroit R Lt To Reno Beach Oh Byd 5Nm Offshore To Intl Border<br>22      | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ168<br>Geneva-On-The-Lake to<br>Conneaut  | Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border<br>22  | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ163<br>Reno Beach to<br>The Islands       | Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border<br>22       | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ164<br>The Islands to<br>Vermilion        | Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border<br>22        | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ165<br>Vermilion to<br>Avon Point         | Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border<br>22            | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ167<br>Willowick to<br>Geneva-On-The-Lake | Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border<br>22 | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ142<br>Maumee Bay to<br>Reno Beach        | Maumee Bay To Reno Beach Oh<br>22   | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ143<br>Reno Beach to<br>The Islands       | Reno Beach To The Islands Oh<br>22  | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ144<br>The Islands to<br>Vermilion        | The Islands To Vermilion Oh<br>22   | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ145<br>Vermilion to<br>Avon Point         | Vermilion To Avon Point Oh<br>22  | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |
| LEZ147<br>Willowick to<br>Geneva-On-The-Lake | Willowick To Geneva On The Lake Oh<br>22                                    | 2115EST<br>2200EST |  |  | 0 | 0 |  |  | Marine Tstm Wind (EG35) |

The line of strong thunderstorms that moved southeast over the lake earlier in the evening weakened for while, then reintensified over the water near the shoreline. The thunderstorms intensified enough for strong winds to once again develop over the lake. Winds were estimated to reach at least 35 knots before the line dissipated along south shore of Lake Erie



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------|---------------------------------|-------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------|---------------------------------|-------|--------------------|

### OHIO, North

#### Lorain County

|               |           |                            |  |  |          |          |             |  |                    |
|---------------|-----------|----------------------------|--|--|----------|----------|-------------|--|--------------------|
| <b>Lorain</b> | <b>17</b> | <b>0610EST<br/>0940EST</b> |  |  | <b>0</b> | <b>0</b> | <b>1.1M</b> |  | <b>Flash Flood</b> |
|---------------|-----------|----------------------------|--|--|----------|----------|-------------|--|--------------------|

During the early morning hours of the 17th, lake effect showers developed and moved onshore over northern Lorain County. The band of heavy rainfall stretched from offshore of Lake Erie into central Lorain County. This area of showers quickly intensified causing substantial flooding in the City of Lorain and some minor flooding in Amherst. In Lorain, the heavy rain band set up over Millers Run Creek and caused it to rise out its banks. At least three feet of water flooded streets near, and just to the east of the creek. Water quickly flowed into the basements of homes near the creek filling them with several feet of water. Homes along Sherwood Road and Windsor Court sustained the worst flood damage. Flood waters rose enough to get on to the ground floor of six homes. Many other homes nearby had three to four feet of water accumulate in their basements. Water penetrated most of these homes through basement windows. A lot of flooding was also reported along West 23rd Street. Many residents near and away from the creek were forced to evacuate from their homes. Tower Boulevard, a major road in Lorain, had around three feet of water on it. Some rainfall amounts in and around Lorain ranged from 2.07 inches in Lorain to 1.06 inches at the Lorain County Airport. Amherst received 1.18 inches, and Sheffield Village picked up 1.36 inches. Hundreds of homes, most of them in Lorain, reported serious basement flooding from sewer backups. No injuries were reported as a result of the flooding.

#### Ashtabula County

|                  |           |                |  |  |          |          |           |  |                                 |
|------------------|-----------|----------------|--|--|----------|----------|-----------|--|---------------------------------|
| <b>Ashtabula</b> | <b>22</b> | <b>1930EST</b> |  |  | <b>0</b> | <b>0</b> | <b>4K</b> |  | <b>Thunderstorm Wind (EG50)</b> |
|------------------|-----------|----------------|--|--|----------|----------|-----------|--|---------------------------------|

Several large limbs were reported down.

#### Lake County

|                   |           |                |  |  |          |          |            |  |                                 |
|-------------------|-----------|----------------|--|--|----------|----------|------------|--|---------------------------------|
| <b>Willoughby</b> | <b>22</b> | <b>1945EST</b> |  |  | <b>0</b> | <b>0</b> | <b>18K</b> |  | <b>Thunderstorm Wind (EG50)</b> |
|-------------------|-----------|----------------|--|--|----------|----------|------------|--|---------------------------------|

Numerous trees and power lines were reported down.

#### Wood County

|                   |           |                |  |  |          |          |           |  |                                 |
|-------------------|-----------|----------------|--|--|----------|----------|-----------|--|---------------------------------|
| <b>Rising Sun</b> | <b>22</b> | <b>2038EST</b> |  |  | <b>0</b> | <b>0</b> | <b>6K</b> |  | <b>Thunderstorm Wind (EG50)</b> |
|-------------------|-----------|----------------|--|--|----------|----------|-----------|--|---------------------------------|

Several trees and power lines were reported down.

#### Erie County

|                 |           |                |  |  |          |          |             |  |                                 |
|-----------------|-----------|----------------|--|--|----------|----------|-------------|--|---------------------------------|
| <b>Sandusky</b> | <b>22</b> | <b>2110EST</b> |  |  | <b>0</b> | <b>0</b> | <b>750K</b> |  | <b>Thunderstorm Wind (EG61)</b> |
|-----------------|-----------|----------------|--|--|----------|----------|-------------|--|---------------------------------|

Severe thunderstorm downburst winds caused substantial damage in Perkins Township, just south of the City of Sandusky, during the late evening hours of the 22nd. The damage was concentrated in an area just west of the Sandusky Mall. The thunderstorm winds were estimated to be around 70 mph. Forty to fifty homes in Perkins Township were damaged. A few homes had moderate damage but most of the damage was minor. A house nearly one hundred and fifty years old had its chimney knocked down from the severe winds. Another house had a roof collapse into the living room. A garage at another location collapsed after the roof was completely torn off. Other houses primarily had damage to their roofs. A church had two sections of its roof torn off, and four windows blown out of it. Fifteen to twenty trees were completely uprooted in the area, and hundreds of other trees were knocked down or sustained major damage from large limbs broken off of them. Along with trees, many areas had power lines that were downed.

#### Cuyahoga County

|                       |           |                |  |  |          |          |            |  |                  |
|-----------------------|-----------|----------------|--|--|----------|----------|------------|--|------------------|
| <b>Cleveland Hgts</b> | <b>22</b> | <b>2130EST</b> |  |  | <b>0</b> | <b>0</b> | <b>80K</b> |  | <b>Lightning</b> |
|-----------------------|-----------|----------------|--|--|----------|----------|------------|--|------------------|

Lightning struck a house which resulted in it catching on fire. Damage from both the fire and water was substantial

#### Lake County

|                    |           |                |  |  |          |          |           |  |                                 |
|--------------------|-----------|----------------|--|--|----------|----------|-----------|--|---------------------------------|
| <b>Painesville</b> | <b>22</b> | <b>2130EST</b> |  |  | <b>0</b> | <b>0</b> | <b>2K</b> |  | <b>Thunderstorm Wind (EG50)</b> |
|--------------------|-----------|----------------|--|--|----------|----------|-----------|--|---------------------------------|

A few large limbs were reported down.



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

### OHIO, North

#### Cuyahoga County

**Lyndhurst**      **22**      **2137EST**                     **0**      **0**      **6K**           **Thunderstorm Wind (EG50)**  
 Several trees and power lines were reported down.

#### Lake County

**Willoughby Hills**      **22**      **2150EST**                     **0**      **0**      **2K**           **Thunderstorm Wind (EG50)**  
 A few large limbs were reported down.

#### Geauga County

**Chardon**      **22**      **2205EST**                     **0**      **0**      **2K**           **Thunderstorm Wind (EG50)**  
 A few large limbs were reported down.

#### Lorain County

**Elyria**      **22**      **2310EST**                     **0**      **0**      **110K**           **Lightning**  
 Lightning struck a transformer and caught it on fire. The fire spread to an industrial building nearby catching the building on fire. There was major structural damage as a result of the fire.

#### Wyandot County

**Upper Sandusky**      **23**      **0042EST**                     **0**      **0**                     **Thunderstorm Wind (EG50)**  
 A few large limbs were reported down.

#### OHZ047

**Knox**  
**29**      **0217EST**                     **0**      **0**      **25K**           **Strong Wind (EG39)**  
 A cold front swept through northern Ohio during the early morning hours of the 29th. Strong winds associated with the cold front blew down a tree, which fell onto a moving vehicle in western Knox County. The driver, and only occupant, was killed when the tree crushed the vehicle. Winds were estimated to be between forty and fifty miles per hour.

### PENNSYLVANIA, Northwest

#### Erie County

**Erie Intl Arpt**      **29**      **0309EST**                     **0**      **0**                     **Thunderstorm Wind (MG50)**  
 At Erie International Airport, a wind gust was measured at 58 mph.

#### Crawford County

**Countywide**      **29**      **0330EST**                     **0**      **0**                     **Thunderstorm Wind (EG50)**  
 Numerous trees and power lines were reported down across the county.

#### Erie County

**North East**      **29**      **0330EST**                     **0**      **0**                     **Thunderstorm Wind (EG50)**  
 Several trees were reported down.

#### Erie County

**Union City**      **29**      **0330EST**                     **0**      **0**                     **Thunderstorm Wind (EG50)**  
 Several trees and power lines were reported down.