

## Storm Data and Unusual Weather Phenomena - November 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ILLINOIS, Northeast</b>				
<b>WINNEBAGO COUNTY --- ROSCOE [42.42, -89.02]</b>				
	11/17/13 10:30 CST		0	Hail (1.00 in)
	11/17/13 10:32 CST		0	Source: Trained Spotter
<b>LA SALLE COUNTY --- 0.9 NE LA SALLE [41.34, -89.09]</b>				
	11/17/13 10:41 CST		0	Hail (1.00 in)
	11/17/13 10:47 CST		0	Source: CoCoRaHS
Penny to quarter size hail was reported in La Salle.				
<b>LA SALLE COUNTY --- 1.7 NW PERU [41.35, -89.15]</b>				
	11/17/13 10:55 CST		0	Thunderstorm Wind (MG 50 kt)
	11/17/13 10:55 CST		0	Source: AWOS
<b>OGLE COUNTY --- STILLMAN VALLEY [42.10, -89.18]</b>				
	11/17/13 11:09 CST		0	Hail (1.25 in)
	11/17/13 11:11 CST		0	Source: Trained Spotter
<b>LA SALLE COUNTY --- OGLESBY [41.30, -89.07]</b>				
	11/17/13 11:11 CST		0	Hail (1.00 in)
	11/17/13 11:13 CST		0	Source: Trained Spotter
<b>KENDALL COUNTY --- 1.9 NNW BRISTOL STATION [41.71, -88.45]</b>				
	11/17/13 11:20 CST		0	Thunderstorm Wind (MG 61 kt)
	11/17/13 11:20 CST		0	Source: Public
<b>OGLE COUNTY --- 2.1 N DAVIS JUNCTION [42.13, -89.10]</b>				
	11/17/13 11:20 CST		0	Hail (1.75 in)
	11/17/13 11:23 CST		0	Source: Trained Spotter
Quarter to golfball size hail was reported.				
<b>KANE COUNTY --- 2.0 SW MONTGOMERY [41.71, -88.38]</b>				
	11/17/13 11:28 CST		0	Thunderstorm Wind (EG 52 kt)
	11/17/13 11:28 CST		0	Source: Social Media
Winds to 60 mph were estimated near the intersection of Orchard Road and Galena Road.				
<b>DU PAGE COUNTY --- 1.4 N (DPA) DUPAGE AIRPORT [41.92, -88.25]</b>				
	11/17/13 11:29 CST		0	Thunderstorm Wind (MG 54 kt)
	11/17/13 11:29 CST		0	Source: ASOS
<b>LA SALLE COUNTY --- 3.8 S RUTLAND [40.93, -89.04], 2.1 NNE DANA [40.98, -88.93]</b>				
	11/17/13 11:33 CST		0.15M	Tornado (EF2, L: 6.53 mi , W: 200 yd)
	11/17/13 11:41 CST		0	Source: NWS Storm Survey
This is a continuation of a tornado that began in Tazewell County (NWS Central Illinois) and tracked across Woodford County , entering NWS Chicago county warning area in La Salle County, and finally ending in Livingston County. The tornado entered La Salle County approximately half a mile east of State Route 251 north of Minonk where several power poles were snapped at the base along County Line Road. On E 7th Road, a home had large portions of the roof removed. Small outbuildings were completely destroyed. More power poles were snapped on E 8th Road and again on N 2nd Road near the intersection of E 10th Road. A machinery shed was completely destroyed on N 2nd Road about half a mile west of Dana. On E 11th Road just north of Dana, an addition to a home was completely leveled with several outbuildings destroyed. This tornado entered Livingston County just northeast of Dana around 11:41 AM CST. Maximum wind speeds were estimated to be up to 135 mph.				
<b>DU PAGE COUNTY --- 0.5 W CLOVERDALE [41.93, -88.13], ROSELLE [41.98, -88.08]</b>				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/17/13 11:37 CST		0	Thunderstorm Wind (EG 61 kt)
	11/17/13 11:39 CST		0	Source: Trained Spotter
Winds were estimated between 65 mph and 70 mph.				
<b>WINNEBAGO COUNTY --- 1.8 ENE CHERRY VALLEY [42.24, -88.92]</b>				
	11/17/13 11:38 CST		0	Hail (1.00 in)
	11/17/13 11:40 CST		0	Source: Trained Spotter
<b>LIVINGSTON COUNTY --- 3.1 WSW LONG POINT [40.98, -88.93], 1.9 ENE LONG POINT [41.01, -88.84]</b>				
	11/17/13 11:41 CST		75K	Tornado (EF2, L: 4.97 mi , W: 200 yd)
	11/17/13 11:47 CST		0	Source: NWS Storm Survey

This is a continuation of a tornado that began in Tazewell County (NWS Central Illinois) and tracked across Woodford County, entering NWS Chicago county warning area in La Salle County, and finally ending in Livingston County. The tornado entered Livingston County about a third of a mile north of E 2400 N Road where power poles were leaning. Several outbuildings were heavily damaged or destroyed on E 2475 N Road. Hardwood trees were snapped on N 200 E Road as well as wooden power poles. A large shed housing a fire engine was completely destroyed with the fire engine rolled onto its side on Long Point Blacktop Road near the intersection of N 400 E Road. On the northeast side of that intersection, a wooded area saw extensive tree damage with numerous trees sheared off about 20 to 30 feet from their bases. The damage path ended about half a mile north of Long Point Blacktop Road between N 450 E Road and Route 23. Maximum wind speeds were estimated to be up to 135 mph.

<b>LIVINGSTON COUNTY --- 3.7 SW LONG POINT [40.96, -88.93], 1.4 S LONG POINT [40.98, -88.88]</b>				
	11/17/13 11:43 CST		0	Tornado (EF0, L: 2.60 mi , W: 50 yd)
	11/17/13 11:46 CST		0	Source: Storm Chaser

Video was received from a storm chaser showing a satellite tornado that formed just south of the long tracked tornado that moved across Livingston County. This tornado only lasted a few minutes and appeared to stay over open fields with no damage evident. Maximum wind speeds were estimated to be up to 75 mph.

<b>DU PAGE COUNTY --- 1.3 NW LISLE [41.82, -88.09]</b>				
	11/17/13 11:46 CST		0	Thunderstorm Wind (MG 50 kt)
	11/17/13 11:46 CST		0	Source: Public

<b>COOK COUNTY --- 1.4 SE NORTH NORTHFIELD [42.12, -87.86], NORTHBROOK [42.13, -87.83]</b>				
	11/17/13 11:56 CST		0	Thunderstorm Wind (EG 61 kt)
	11/17/13 11:56 CST		0	Source: Trained Spotter

There were two reports of winds estimated to 70 mph near Northbrook. Tree tops were bent horizontally.

<b>COOK COUNTY --- MORTON GROVE [42.03, -87.77]</b>				
	11/17/13 12:00 CST		0	Hail (0.75 in)
	11/17/13 12:00 CST		0	Source: Trained Spotter

<b>DU PAGE COUNTY --- 1.5 S BELMONT [41.76, -88.08]</b>				
	11/17/13 12:05 CST		0	Hail (0.88 in)
	11/17/13 12:05 CST		0	Source: Trained Spotter

Nickel size hail was reported at Hobson Road and Greene Road.

<b>DU PAGE COUNTY --- VILLA PARK [41.88, -87.98]</b>				
	11/17/13 12:11 CST		0	Hail (0.75 in)
	11/17/13 12:11 CST		0	Source: Trained Spotter

<b>LA SALLE COUNTY --- 1.1 ENE RANSOM [41.16, -88.65]</b>				
	11/17/13 12:20 CST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 12:20 CST		0	Source: Trained Spotter

Tops of trees were blown down. Sheet metal was damaged at a construction site.

<b>GRUNDY COUNTY --- 1.3 WNW CENTRAL CITY [41.24, -88.30], 0.4 NNE DIAMOND [41.29, -88.25]</b>				
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/17/13 12:22 CST		10.75M	Tornado (EF2, L: 4.42 mi , W: 200 yd)
	11/17/13 12:26 CST	5	0	Source: NWS Storm Survey

The tornado formed just northwest of the intersection of E Braceville Road and S Carbon Hill Road where several softwood trees were uprooted. The tornado moved northeast just north of E Reed Road where a single family residence sustained visible damage to its exterior while a metal outbuilding sustained roof and exterior wall damage. A single family home sustained considerable damage near the intersection of Berta Road and Spring Road where two people were injured. The tornado continued into a subdivision north of Spring Road where widespread minor damage occurred to several dozen homes. Several homes received more substantial damage though, including partial loss of roofs and second story walls. The tornado continued into Will County around 12:26 PM CST. Maximum wind speeds were estimated to be up to 125 mph.

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### GRUNDY COUNTY --- 2.8 S DIVINE [41.34, -88.30]

11/17/13 12:25 CST	0	Hail (1.00 in)
11/17/13 12:27 CST	0	Source: CoCoRaHS

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### WILL COUNTY --- 1.7 NW BRAIDWOOD [41.29, -88.25], 2.5 NNE WILMINGTON [41.35, -88.13]

11/17/13 12:26 CST	2M	Tornado (EF2, L: 7.60 mi , W: 200 yd)
11/17/13 12:33 CST	0	Source: NWS Storm Survey

This is a continuation of a tornado that began at 12:22 PM CST in Grundy County. The tornado moved into Will County on N Will Road just south of State Route 113. There was considerable damage to businesses on State Route 113 between N Will Road and I-55. An RV dealership had numerous vehicles overturned and damaged. A two story structure lost its roof and had portions of its walls ripped off. A model home was completely removed from its foundation on the north side of State Route 113. A manufactured building had its roof ripped off with all the walls collapsed. Widespread tree damage was observed along the west side of I-55 where the tornado almost tracked parallel to as it weakened. The tornado crossed I-55 near Widows Road where several hardwood trees were uprooted. The tornado tracked into the Midewin Tallgrass Prairie where it damaged several metal structures just west of Route 53. The tornado lifted just east of Route 53. Maximum wind speeds were estimated to be up to 125 mph.

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### FORD COUNTY --- 0.7 WSW CABERY [41.00, -88.21], 0.3 SSE CABERY [41.00, -88.20]

11/17/13 12:31 CST	20K	Thunderstorm Wind (EG 56 kt)
11/17/13 12:32 CST	0	Source: NWS Storm Survey

A roof was lifted off a garage causing the collapse of a cinder block building. A chimney was toppled at St Joseph Church. A home TV antenna tower was blown over. There were sporadic uprooted trees and downed limbs throughout town.

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### KANKAKEE COUNTY --- 1.8 SW REDDICK [41.10, -88.25]

11/17/13 12:32 CST	0	Thunderstorm Wind (EG 60 kt)
11/17/13 12:32 CST	0	Source: Public

A large tree was blown over onto Route 17.

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### COOK COUNTY --- 0.5 W EVANSTON [42.05, -87.69]

11/17/13 12:35 CST	0	Hail (1.00 in)
11/17/13 12:37 CST	0	Source: Trained Spotter

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### COOK COUNTY --- OAK LAWN [41.72, -87.75], 0.7 SE OAK LAWN [41.71, -87.74]

11/17/13 12:35 CST	50K	Thunderstorm Wind (EG 70 kt)
11/17/13 12:35 CST	0	Source: Law Enforcement

A roof was blown off a gas station at 99th and Cicero. Tree limbs and power lines were blown down across town.

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### KANKAKEE COUNTY --- 0.7 WNW BUCKINGHAM [41.05, -88.18], 0.8 SSE BUCKINGHAM [41.04, -88.16]

11/17/13 12:35 CST	15K	Thunderstorm Wind (EG 60 kt)
11/17/13 12:35 CST	0	Source: Trained Spotter

Route 115 was closed between 17000W and 16000W roads due to several power snapped power poles. Two power lines were blown down on 5000S Road between 16000W and 15000W roads. Several south facing windows were blown in on a house. A roof was blown off a shed.

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### OGLE COUNTY --- 2.7 ESE ROCHELLE [41.91, -89.02]

11/17/13 12:35 CST	0	Thunderstorm Wind (EG 50 kt)
11/17/13 12:35 CST	0	Source: Public

Two semi-trucks were overturned near the I-39 and I-88 interchange.

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<b>LEE COUNTY --- 1.0 E STEWARD [41.85, -89.00]</b>				
	11/17/13 12:36 CST		0	Thunderstorm Wind (EG 65 kt)
	11/17/13 12:36 CST		0	Source: Trained Spotter
Two older 8 to 10 inch diameter trees were blown down.				
<b>OGLE COUNTY --- 0.6 SE (RPJ) ROCHELLE MUNICIPAL AIRPORT [41.89, -89.07]</b>				
	11/17/13 12:37 CST		0	Thunderstorm Wind (MG 58 kt)
	11/17/13 12:37 CST		0	Source: AWOS
<b>KANKAKEE COUNTY --- 2.1 S DICKEYS [41.02, -88.03], 2.5 S DICKEYS [41.01, -88.03]</b>				
	11/17/13 12:38 CST		25K	Thunderstorm Wind (EG 70 kt)
	11/17/13 12:38 CST		0	Source: Storm Chaser
The roof of a barn was torn off on the south side of 7000S between 8000W and 9000W/ Debris was thrown about half a mile to the northeast. A power pole was snapped at the base near the barn.				
<b>KANKAKEE COUNTY --- 0.5 W BONFIELD [41.15, -88.06]</b>				
	11/17/13 12:42 CST		20K	Thunderstorm Wind (EG 65 kt)
	11/17/13 12:42 CST		0	Source: Public
A home was damaged when strong winds tore off a large section of a roof. A power pole was also blown down.				
<b>WILL COUNTY --- 2.0 N WILTON [41.41, -87.93], 1.3 SW FRANKFORT ARPT [41.47, -87.87]</b>				
	11/17/13 12:42 CST		0.75M	Tornado (EF2, L: 5.21 mi , W: 200 yd)
	11/17/13 12:48 CST		0	Source: NWS Storm Survey
The tornado touched down south of W Bruns Road and east of S Kankakee Street. This tornado quickly intensified to EF-2 damaging five houses along Bruns Road rendering them uninhabitable by removing large sections of the roofs and leading to partial wall collapse. Four high tension power line towers were bent along S Schoolhouse Road. Two houses and a barn were heavily damaged on W Dralle Road where large portions of the roofs were ripped off. Several trees were snapped and uprooted as well. Another farm on S Scheer Road had roof damage consistent to EF-1 intensity. The last sign of damage occurred just south of Steger Road where large branches were blown down. Maximum winds were estimated to around 125 mph.				
<b>COOK COUNTY --- 0.5 E BRIDGEVIEW [41.75, -87.79]</b>				
	11/17/13 12:45 CST		0	Hail (1.00 in)
	11/17/13 12:47 CST		0	Source: COOP Observer
<b>WILL COUNTY --- 0.4 NW INGALLS PARK [41.52, -88.00]</b>				
	11/17/13 12:45 CST		0	Hail (1.75 in)
	11/17/13 12:47 CST		0	Source: Amateur Radio
Golf ball size hail was reported near Route 30 and Gouger Road.				
<b>KANKAKEE COUNTY --- 0.6 S KANKAKEE [41.11, -87.85]</b>				
	11/17/13 12:46 CST		25K	Thunderstorm Wind (EG 50 kt)
	11/17/13 12:46 CST		0	Source: Trained Spotter
A tree fell onto a house on Eagle Street.				
<b>DE KALB COUNTY --- 0.6 NW DEKALB [41.93, -88.76], 2.1 NE ELVA [41.89, -88.75]</b>				
	11/17/13 12:50 CST		0	Thunderstorm Wind (EG 50 kt)
	11/17/13 12:50 CST		0	Source: Trained Spotter
A large tree was blown down onto power lines in the northwest side of Dekalb. Power lines were blown down near Route 23 and Gurler Road.				
<b>DE KALB COUNTY --- 1.6 SSW HART [42.08, -88.71], 0.2 W GENOA [42.10, -88.68]</b>				
	11/17/13 12:50 CST		50K	Thunderstorm Wind (EG 52 kt)
	11/17/13 12:58 CST		0	Source: Trained Spotter

Two older trees were blown down on the north side of the Oak Club of Genoa Golf Course and many trees were uprooted. In Genoa, house siding was damaged by the winds. A 100 year old oak tree cracked at the base and landed on a neighbors garage.

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<b>KANKAKEE COUNTY --- 1.6 SSE ST GEORGE [41.18, -87.76], 1.9 SW YEAGER [41.18, -87.72]</b>				
	11/17/13 12:51 CST		0	Thunderstorm Wind (EG 65 kt)
	11/17/13 12:51 CST		0	Source: Emergency Manager
Between 10 and 20 power poles were snapped or blown down along 4000N between 6000E and 8000E.				
<b>COOK COUNTY --- 2.4 ENE ENGLEWOOD [41.79, -87.60]</b>				
	11/17/13 12:55 CST		0	Thunderstorm Wind (MG 60 kt)
	11/17/13 12:55 CST		0	Source: AWOS
<b>KANKAKEE COUNTY --- 0.8 NNE GRANT PARK [41.24, -87.65]</b>				
	11/17/13 12:56 CST		5K	Thunderstorm Wind (EG 50 kt)
	11/17/13 12:56 CST		0	Source: Trained Spotter
Barn doors were blown in and a few power poles were blown down.				
<b>COOK COUNTY --- 1.7 SSE EVANSTON [42.03, -87.67], 1.7 SSE EVANSTON [42.03, -87.67], 1.6 SSE EVANSTON [42.03, -87.67], 1.6 SSE EVANSTON [42.03, -87.67], 1.6 SSE EVANSTON [42.03, -87.67], 1.6 SSE EVANSTON [42.03, -87.67]</b>				
	11/17/13 12:58 CST		0	Flood (due to Heavy Rain)
	11/17/13 14:00 CST		0	Source: Trained Spotter
The 500 block of Sheridan Road in Evanston was flooded with 6 to 8 inches of water.				
<b>KANE COUNTY --- 0.2 NW ELBURN [41.88, -88.47]</b>				
	11/17/13 13:00 CST		0	Thunderstorm Wind (EG 50 kt)
	11/17/13 13:00 CST		0	Source: Emergency Manager
Several limbs up to 8 inches in diameter were blown down near Route 47 and Keslinger Road.				
<b>KANKAKEE COUNTY --- 3.4 NE PUDER [41.30, -87.55], 3.4 NE PUDER [41.30, -87.55]</b>				
	11/17/13 13:00 CST		0	Tornado (EF1, L: 0.05 mi , W: 75 yd)
	11/17/13 13:01 CST		0	Source: NWS Storm Survey
The tornado formed along the Kankakee-Will County Line just west of N 17480 E Road. Large branches from hardwood trees were broken off while an older softwood tree was snapped at the base. A hardwood tree was also snapped in half. The tornado had estimated winds to around 100 mph. The tornado continued into Will County at 1:01 PM CST.				
<b>WILL COUNTY --- 5.0 S EAGLE LAKE [41.30, -87.55], 4.4 S EAGLE LAKE [41.31, -87.53]</b>				
	11/17/13 13:01 CST		0.10M	Tornado (EF1, L: 0.11 mi , W: 150 yd)
	11/17/13 13:02 CST		0	Source: NWS Storm Survey
This is a continuation of a tornado that formed in Kankakee County at 1:00 PM CST. The tornado moved northeast into Will County just west of N 17480 E Road. A large barn sustained significant damage to its roof and outer walls. Two adjacent metal outbuildings also had partial roof loss. Several softwood trees were snapped at the base or half way up with debris lofted about a thousand feet. A 400 lb tractor blade was moved about 60 feet while a grain pipe that had been riveted to the silo was ripped away. Minor tree damage was noted along E Delite Inn Road as well as minor damage to small barns and outbuildings. The tornado had estimated winds to around 100 mph.				
<b>DU PAGE COUNTY --- 0.3 SSW (DPA) DUPAGE AIRPORT [41.90, -88.25]</b>				
	11/17/13 13:11 CST		0	Thunderstorm Wind (MG 51 kt)
	11/17/13 13:11 CST		0	Source: ASOS
<b>IROQUOIS COUNTY --- 4.6 ESE FOUNTAIN CREEK [40.49, -87.73], 3.5 SW WELLINGTON [40.50, -87.72]</b>				
	11/17/13 13:14 CST		0	Tornado (EF0, L: 1.00 mi , W: 100 yd)
	11/17/13 13:15 CST		0	Source: NWS Storm Survey
This is a continuation of a tornado that began in Champaign County (NWS Central Illinois) and tracked across Vermilion County before entering the NWS Chicago county warning area in southern Iroquois County. Three homes had minor damage to either outbuildings or large trees.				
<b>COOK COUNTY --- SCHAUMBURG [42.03, -88.08]</b>				
	11/17/13 13:17 CST		0	Thunderstorm Wind (MG 53 kt)
	11/17/13 13:17 CST		0	Source: Trained Spotter

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Numerous limbs were blown down, the largest of which was around a foot and a half in diameter.				
<b>IROQUOIS COUNTY --- 0.9 S WELLINGTON [40.52, -87.67], 2.1 WNW HALLOCK STATION [40.58, -87.62]</b>				
	11/17/13 13:19 CST		20K	Tornado (EF0, L: 4.52 mi , W: 75 yd)
	11/17/13 13:23 CST		0	Source: NWS Storm Survey
Four farms were impacted with several large trees down or snapped. One outbuilding had its roof torn off. Maximum winds were estimated to 80 mph.				
<b>LAKE COUNTY --- 0.7 S BENET LAKE [42.47, -88.08]</b>				
	11/17/13 13:25 CST		1K	Thunderstorm Wind (EG 50 kt)
	11/17/13 13:25 CST		0	Source: Trained Spotter
Shingles were blown off of a roof and trees were blown down.				
<b>COOK COUNTY --- 1.6 SSE EVANSTON [42.03, -87.67]</b>				
	11/17/13 13:36 CST		0	Hail (1.00 in)
	11/17/13 13:37 CST		0	Source: Trained Spotter
Quarter size hail was reported near Sheridan Road and South Boulevard.				
<b>KANE COUNTY --- 0.9 NW ELGIN [42.04, -88.29], 0.7 N ELGIN [42.04, -88.28], 0.3 ENE ELGIN [42.03, -88.27], 0.4 WNW ELGIN [42.03, -88.29]</b>				
	11/17/13 13:40 CST		0	Flood (due to Heavy Rain)
	11/17/13 15:00 CST		0	Source: Trained Spotter
Several streets in Elgin were flooded with one to two feet of water. A spotter measured 0.95 inches of rain.				
<b>(IL-Z014) COOK, (IL-Z023) KANKAKEE</b>				
	11/17/13 14:15 CST		0	High Wind (MAX 51 kt)
	11/17/13 15:52 CST		0	
A major tornado outbreak impacted the Midwest and Ohio Valley on November 17th. A powerful low pressure system across the plains states steered warmth and moisture northward for nearly two days, with dew points rising into the mid 60's. This coupled with temperatures around 70° resulted in unseasonably strong instability for thunderstorms to develop. High wind shear and a cold front sweeping eastward made up the remaining ingredients of an environment favorable for supercells capable of long-lived significant tornadoes. Within the WFO LOT county warning area, ten tornadoes were confirmed, including three EF-2 tornadoes. As the event evolved, the system became linear with numerous reports of straight line wind damage. Behind the thunderstorms, a wake low developed with wind gusts to around 60 mph.				
<b>(IL-Z014) COOK</b>				
	11/23/13 09:00 CST	2	0	Cold/Wind Chill
	11/23/13 20:00 CST		0	
Direct Fatalities: M50??, M52OU				
High temperatures were in the mid 20s with lows in the low to mid teens during the weekend of 23-24 November, when two people died with causes related to cold exposure.				
<b>INDIANA, Northwest</b>				
<b>LAKE COUNTY --- 1.6 E CROWN POINT [41.42, -87.34], 2.4 NW WINFIELD [41.42, -87.32]</b>				
	11/17/13 13:13 CST		15K	Thunderstorm Wind (EG 74 kt)
	11/17/13 13:22 CST		0	Source: NWS Storm Survey
Around a dozen tall utility poles were blown down, including several that were snapped near I-65. Signs were blown down and a billboard was damaged. A semi-truck was blown over on I-65.				
<b>PORTER COUNTY --- 2.2 ENE SOUTH HAVEN [41.54, -87.13]</b>				

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	11/17/13 13:22 CST		20K	Thunderstorm Wind (EG 50 kt)
	11/17/13 13:22 CST		0	Source: Law Enforcement

A tree and a power line were blown onto a house.

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### PORTER COUNTY --- 0.7 N VALPARAISO [41.48, -87.05], 2.0 W COBURG [41.52, -86.99]

11/17/13 13:25 CST	25K	Thunderstorm Wind (EG 70 kt)
11/17/13 13:25 CST	0	Source: Law Enforcement

On the east side of Valparaiso, numerous power poles were snapped and trees were blown down. County Road 600N was closed between 300E and 400E due to several high tension poles and power lines down across the road.

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### NEWTON COUNTY --- 1.1 WSW GOODLAND [40.76, -87.30], 1.1 NE GOODLAND [40.78, -87.27]

11/17/13 13:27 CST	0.25M	Tornado (EF0, L: 2.16 mi , W: 100 yd)
11/17/13 13:29 CST	0	Source: NWS Storm Survey

The tornado touched down in Goodland causing several large grain bins to cave in on themselves with some of the surrounding scaffolding collapsing . This portion of the storm was consistent with high-end EF-0 damage with estimated winds to 85 mph. The tornado continued into Jasper County around 1:29 PM CST where it further intensified to EF-1.

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### JASPER COUNTY --- 6.2 W REMINGTON [40.78, -87.27], 4.9 NW REMINGTON [40.82, -87.22]

11/17/13 13:29 CST	75K	Tornado (EF1, L: 3.36 mi , W: 100 yd)
11/17/13 13:32 CST	0	Source: NWS Storm Survey

This is a continuation of a tornado that touched down in Newton County at 1:27 PM CST. The tornado mainly passed over open fields; however, near the end of the path an outbuilding was destroyed and small farm equipment moved, including one piece that was rolled into a grain storage bin. Debris was noted as far as a mile downstream. The highest winds were estimated to around 100 mph.

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### PORTER COUNTY --- 0.5 W CHESTERTON [41.60, -87.06]

11/17/13 13:34 CST	0	Thunderstorm Wind (MG 70 kt)
11/17/13 13:34 CST	0	Source: Trained Spotter

Large limbs and power lines were blown down.

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### JASPER COUNTY --- 0.7 N RENSSELAER [40.94, -87.15], 1.0 NE RENSSELAER [40.94, -87.14]

11/17/13 13:36 CST	50K	Thunderstorm Wind (EG 70 kt)
11/17/13 13:48 CST	0	Source: Emergency Manager

Several grain bins were knocked down. Trees and power lines were blown down on the east side of Rensselaer . Roof damage occurred to several businesses and outbuildings.

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### PORTER COUNTY --- 0.4 ESE KOUTS [41.32, -87.02]

11/17/13 13:40 CST	50K	Thunderstorm Wind (EG 70 kt)
11/17/13 13:40 CST	0	Source: Law Enforcement

On Indiana Avenue, a quarter of a roof on an apartment building was ripped off.

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### JASPER COUNTY --- 3.5 NNE RENSSELAER [40.97, -87.12], 4.0 E NEWLAND [41.06, -86.95]

11/17/13 13:50 CST	0.15M	Tornado (EF1, L: 10.24 mi , W: 100 yd)
11/17/13 14:00 CST	0	Source: NWS Storm Survey

Multiple empty grain bins and outbuildings were destroyed across four farmsteads with large paths of debris thrown two miles downstream. Utility poles were blown down along with dozens of trees that were snapped. Maximum winds were estimated to 100 mph.

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### BENTON COUNTY --- 3.7 NE TEMPLETON [40.56, -87.15], 5.5 N OTTERBEIN [40.57, -87.10]

11/17/13 14:40 EST	50K	Tornado (EF1, L: 2.90 mi , W: 100 yd)
11/17/13 14:43 EST	0	Source: NWS Storm Survey

The tornado heavily damaged an outbuilding with several wood projectiles from the building stuck into a nearby garage roof. Debris from the outbuilding was lofted at least three miles downstream. Another outbuilding was heavily damaged and multiple trees were blown down or snapped. Maximum winds were estimated to be 95 mph. The tornado continued into White County (NWS Northern Indiana).

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### (IN-Z001) LAKE, (IN-Z002) PORTER

## Storm Data and Unusual Weather Phenomena - November 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/17/13 15:45 CST		0	High Wind (MAX 57 kt)
	11/17/13 16:00 CST		0	

A major tornado outbreak impacted the Midwest and Ohio Valley on November 17th. A powerful low pressure system across the plains states steered warmth and moisture northward for nearly two days, with dew points rising into the mid 60's. This coupled with temperatures around 70° resulted in unseasonably strong instability for thunderstorms to develop. High wind shear and a cold front sweeping eastward made up the remaining ingredients of an environment favorable for supercells capable of long-lived significant tornadoes. Within the WFO LOT county warning area, ten tornadoes were confirmed, including three EF-2 tornadoes. As the event evolved, the system became linear with numerous reports of straight line wind damage. Behind the thunderstorms, a wake low developed with wind gusts to around 60 mph.

### LAKE MICHIGAN

#### WILMETTE HARBOR TO NORTHERLY ISLAND IL COUNTY --- HARRISON-DEVER CRIB [41.92, -87.57]

11/17/13 12:35 CST	0	Marine Thunderstorm Wind (MG 66 kt)
11/17/13 13:15 CST	0	Source: C-MAN Station

While strong gales were already occurring, thunderstorms moving over Lake Michigan resulted in wind gusts in excess of 57 mph for around 40 minutes, with a peak gust of 76 mph.

#### BURNS HARBOR TO MICHIGAN CITY IN COUNTY --- BURNS HARBOR [41.65, -87.15]

11/17/13 13:30 CST	0	Marine Thunderstorm Wind (MS 53 kt)
11/17/13 13:30 CST	0	Source: C-MAN Station

#### BURNS HARBOR TO MICHIGAN CITY IN COUNTY --- MICHIGAN CITY HARBOR [41.73, -86.91]

11/17/13 13:45 CST	0	Marine Thunderstorm Wind (MG 72 kt)
11/17/13 13:45 CST	0	Source: C-MAN Station

A major storm system impacted the Midwest and Ohio Valley on November 17th. A powerful low pressure system across the plains states steered warmth and moisture northward for nearly two days, with dew points rising into the mid 60's. This coupled with temperatures around 70° resulted in unseasonably strong instability for thunderstorms to develop. High wind shear and a cold front sweeping eastward made up the remaining ingredients of an environment favorable for severe thunderstorms.