

Storm Data and Unusual Weather Phenomena - March 2009

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

HARRISON COUNTY --- 2.7 WSW MISSOURI VLY [41.55, -95.95], 2.7 SW MAGNOLIA [41.67, -95.92]

03/23/09 17:03 CST	0	Tornado (EF2, L: 8.60 mi , W: 440 yd)
03/23/09 17:13 CST	0	Source: NWS Storm Survey

The tornado touched down near highway 30 about 1.5 miles west of the interchange between Interstate 29 and Highway 30, or about 3 miles west of Missouri Valley Iowa. The tornado was at its strongest and widest within a mile of its touchdown point, becoming weaker with more intermittent damage farther north. Near the touchdown point, a barn sustained roof damage and a windmill was knocked down. One-half mile north of Highway 30, 54 empty grain rail cars were derailed. One mile north of Highway 30, along 305th St., two residences were impacted by the tornado. A 100-year-old single family residence directly in its path was completely destroyed, with all walls collapsed and debris relocated about 50 feet north of the foundation. The debris collected over the site of a cinder block garage, which also partially collapsed. About 100 yards north of the garage site, a machine shed was collapsed onto a combine inside, which had been moved by the wind. Trees near the house sustained some broken limbs and treetops, and a power pole was snapped. The damage at this site was given an EF2 rating. Another residence one-quarter mile to its west sustained minor siding and shingle damage and windows were broken. Seven of the eight outbuildings at that residence were collapsed, with debris strewn into nearby fields. Damage at the two houses indicated a path width of one quarter mile at that point, the widest along the path of the tornado. The tornado continued northward, overturning two semis on Interstate 29. From there to a point about 3 miles southwest of Magnolia, near the intersection of the Loess Hills Trail and Melody Oaks Trail, intermittent light damage to trees and roofs of a couple of outbuildings was noted. From this point, the survey team determined the damage path narrowed to 100 yards or less based on scattered tree and outbuilding damage, with EF0 intensity north of Interstate 29.

HARRISON COUNTY --- 3.5 N MISSOURI VLY [41.62, -95.90]

03/23/09 17:15 CST	0	Thunderstorm Wind (EG 60 kt)
03/23/09 17:15 CST	0	Source: NWS Employee

Thunderstorm wind gusts estimated at 70 mph downed large trees and power lines around 9 miles southeast of Mondamin. The winds were most likely rear flank downdraft winds that were wrapping around a tornado that was tracking near this location.

HARRISON COUNTY --- 1.2 SE MONDAMIN [41.71, -96.00]

03/23/09 17:34 CST	0	Hail (1.00 in)
03/23/09 17:34 CST	0	Source: Trained Spotter

PAGE COUNTY --- 3.7 W BETHESDA [40.83, -95.17]

03/23/09 18:30 CST	0	Hail (1.50 in)
03/23/09 18:30 CST	0	Source: Trained Spotter

MONTGOMERY COUNTY --- 5.0 SSE STANTON [40.91, -95.10]

03/23/09 18:45 CST	0	Hail (1.00 in)
03/23/09 18:45 CST	0	Source: Fire Department/Rescue

MONTGOMERY COUNTY --- 3.6 WSW VILLISCA [40.92, -95.07], 2.7 WNW VILLISCA [40.95, -95.04]

03/23/09 18:52 CST	0	Tornado (EF0, L: 2.60 mi , W: 25 yd)
03/23/09 18:55 CST	0	Source: NWS Storm Survey

The tornado touched down just southwest of the intersection of 270 th and Q Ave. west-southwest of Villisca. Near that point the roof was torn off of an outbuilding and an empty grain bin was blown across the road. A barn had some roof structure damage 2 to 3 miles north of there, near where the tornado apparently lifted.

PAGE COUNTY --- 2.8 N BETHESDA [40.87, -95.10]

03/23/09 18:55 CST	0	Thunderstorm Wind (EG 55 kt)
03/23/09 18:55 CST	0	Source: Emergency Manager

Thunderstorm wind gusts estimated at over 60 mph knocked a few large trees down across a road around 8 miles south of Stanton.

MONTGOMERY COUNTY --- 1.0 SSE TENVILLE [41.01, -94.99], 0.8 ENE SCIOLA [41.03, -94.98]

03/23/09 18:56 CST	0	Tornado (EF0, L: 1.93 mi , W: 440 yd)
03/23/09 18:58 CST	0	Source: Newspaper

The tornado touched down near Tenville destroying trees at a cemetery, causing house and farm outbuilding damage in the area and other tree and roof damage along its path. This tornado was from the same supercell that produced a tornado just to the south of here.

Storm Data and Unusual Weather Phenomena - March 2009

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MONTGOMERY COUNTY --- 3.6 ESE STANTON [40.97, -95.05]				
	03/23/09 19:00 CST		0	Thunderstorm Wind (EG 60 kt)
	03/23/09 19:00 CST		0	Source: Emergency Manager
<p>Thunderstorm wind gusts estimated at around 70 mph caused damage to outbuildings, grain bins and trees around the Viking Lake area. This damage could have either been associated with the tornado that a NWS storm survey determined to have touched down northeast of the lake, or from rear-flank downdraft winds from the storm.</p> <p>An intense upper level low pressure system tracked from eastern Colorado into southeast South Dakota from March 23rd to March 24th. This caused a surface low pressure system to move from western Nebraska into southeast South Dakota during that time. As the low tracked northeast, a dry-line moved into eastern Nebraska during the afternoon of March 23rd. With surface temperatures in the 60s and 70s, and dewpoint temperatures in the 50s, ample instability was in place to allow a line of severe thunderstorms to develop as the dry-line punched eastward. Several fast moving and low-topped supercell thunderstorms were embedded in the line, and one cell produced cyclic tornadoes from southeast of Lincoln into western Iowa. The storms in the line were moving north northeast at between 50 and 60 mph. In addition to the severe weather, strong southerly gradient winds prevailed ahead of the low pressure. In some cases the winds gusted between 50 and 60 mph for several hours across parts of eastern Nebraska.</p>				
NEBRASKA, East				
DODGE COUNTY --- 0.9 SE BAY STATE [41.46, -96.82], 1.4 SSE BAY STATE [41.45, -96.82], 1.8 WSW BAY STATE [41.46, -96.86], 1.4 WSW BAY STATE [41.46, -96.85]				
	03/04/09 04:00 CST		20K	Flood (due to Ice Jam)
	03/05/09 17:00 CST		0	Source: Emergency Manager
<p>An ice jam about 3/4 mile in length formed about 1 to 2 miles upstream of North Bend. The ice jam caused flooding along the Platte River in the vicinity of McGinnis Lake area. The flooding surrounded several lake homes and flooded a few rooms of at least one home.</p>				
SAUNDERS COUNTY --- 2.9 WNW MORSE BLUFF [41.44, -96.83], 2.7 WNW MORSE BLUFF [41.45, -96.83], 4.5 WNW MORSE BLUFF [41.46, -96.86], 4.2 WNW MORSE BLUFF [41.45, -96.86]				
	03/04/09 05:00 CST		0	Flood (due to Ice Jam)
	03/05/09 17:00 CST		0	Source: Emergency Manager
<p>An ice jam about 3/4 mile in length formed about 1 to 2 miles upstream of North Bend. The ice jam caused flooding along the Platte River in the vicinity of McGinnis Lake area. The flooding affected just mainly agricultural lowlands in Saunders county with any damage minimal.</p> <p>An ice jam that briefly formed upstream of North Bend caused flooding along the Platte River around the McGinn Lake area several miles west of North Bend.</p>				
(NE-Z011) KNOX, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING				
	03/09/09 18:00 CST		0	Winter Weather
	03/10/09 15:00 CST		0	
<p>An upper level disturbance and associated surface low pressure system tracked along the Nebraska and Kansas border spreading a mix of freezing rain...sleet and snow to sections of northeast Nebraska. The system pulled down arctic air behind causing temperatures to plunge to the single digits and north winds to increase to 20 to 30 mph or greater. The combination of mixed precipitation and strong winds caused scattered power outages in northeast Nebraska.</p>				
KNOX COUNTY --- 1.4 S CREIGHTON ARPT [42.45, -97.85]				
	03/23/09 00:31 CST		0	Hail (0.88 in)
	03/23/09 00:31 CST		0	Source: Public
<p>A strong low level jet, ahead of deep upper level low pressure over eastern Colorado, helped fuel early morning thunderstorms over eastern Nebraska. An isolated storm in extreme northeast Nebraska turned severe, dropping nickel-size hail in Knox county.</p>				
(NE-Z030) BOONE, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON				
	03/23/09 10:50 CST		0	High Wind (MAX 56 kt)
	03/23/09 18:00 CST	1	0	
SALINE COUNTY --- 3.1 W FRIEND [40.65, -97.34]				

Storm Data and Unusual Weather Phenomena - March 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	03/23/09 14:26 CST		0	Hail (0.88 in)
	03/23/09 14:26 CST		0	Source: Emergency Manager
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PLATTE COUNTY --- 0.5 E COLUMBUS [41.43, -97.36]				
	03/23/09 14:36 CST		0	Hail (1.00 in)
	03/23/09 14:36 CST		0	Source: Emergency Manager
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SALINE COUNTY --- DORCHESTER [40.65, -97.12]				
	03/23/09 14:48 CST		0	Hail (1.75 in)
	03/23/09 14:48 CST		0	Source: Emergency Manager
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Golf ball-size hail caused siding damage to at least 20 homes in the Dorchester area.				
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SEWARD COUNTY --- STAPLEHURST [40.97, -97.17]				
	03/23/09 14:50 CST		0	Hail (4.25 in)
	03/23/09 14:50 CST		0	Source: Public
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Hail up to Softball size was reported in the Staplehurst area.				
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BUTLER COUNTY --- 0.7 S BRAINARD [41.17, -97.00]				
	03/23/09 15:05 CST		0	Hail (0.88 in)
	03/23/09 15:05 CST		0	Source: Emergency Manager
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GAGE COUNTY --- 7.0 NW BEATRICE [40.34, -96.82]				
	03/23/09 15:05 CST		0	Hail (1.00 in)
	03/23/09 15:05 CST		0	Source: Trained Spotter
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BUTLER COUNTY --- DAVID CITY [41.25, -97.13]				
	03/23/09 15:07 CST		0	Hail (0.75 in)
	03/23/09 15:07 CST		0	Source: Emergency Manager
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GAGE COUNTY --- 1.3 WSW CLATONIA [40.46, -96.85], 1.0 S CORTLAND [40.49, -96.70]				
	03/23/09 15:13 CST		0	Hail (1.75 in)
	03/23/09 15:25 CST		0	Source: Emergency Manager
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Hail between 1 inch and golf ball-size was reported from 1 mile south of Clatonia to 1 mile south of Cortland.				
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KNOX COUNTY --- 3.5 WSW SANTEE [42.80, -97.88], 2.5 W SANTEE [42.83, -97.87]				
	03/23/09 15:15 CST		0	Tornado (EF1, L: 1.79 mi , W: 75 yd)
	03/23/09 15:16 CST		0	Source: NWS Employee
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A tornado apparently touched down on the Nebraska side of the Missouri River south of Springfield , SD. The tornado caused some tree damage in the area.				
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GAGE COUNTY --- 1.7 SW CLATONIA [40.45, -96.85]				
	03/23/09 15:26 CST		0.50K	Thunderstorm Wind (EG 55 kt)
	03/23/09 15:26 CST		0	Source: Emergency Manager
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Thunderstorm wind gusts estimated at over 60 mph damaged a metal outbuilding south of Claytonia.				
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LANCASTER COUNTY --- 0.6 NE WALTON [40.81, -96.56], 2.1 NE HANLON [40.69, -96.64]				
	03/23/09 15:26 CST		0	Hail (1.00 in)
	03/23/09 15:41 CST		0	Source: Amateur Radio
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Hail up to 1 inch in diameter was reported just south and just east of Lincoln. The hail fell from the supercell thunderstorm that produced several tornadoes southeast through east of town.				
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LANCASTER COUNTY --- 2.9 SE HICKMAN [40.57, -96.63], 1.4 WSW HOLLAND [40.59, -96.61]				
	03/23/09 15:31 CST		0	Tornado (EF1, L: 2.42 mi , W: 50 yd)
	03/23/09 15:33 CST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - March 2009

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<p>This is the first of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln. The first tornado touched down around 4 miles south of Hickman uprooting some trees and causing farm outbuilding and other tree damage along its path.</p>				
LANCASTER COUNTY --- 1.8 NNW HOLLAND [40.62, -96.59], 3.0 N HOLLAND [40.64, -96.58]				
	03/23/09 15:36 CST		0	Tornado (EF2, L: 1.60 mi , W: 50 yd)
	03/23/09 15:37 CST		0	Source: NWS Storm Survey
<p>This is the second of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln area. This tornado touched down around 2 miles east of Hickman and damaged a house in the area, destroyed some farm outbuildings, took the roof off of a barn and also caused tree damage.</p>				
LANCASTER COUNTY --- 2.6 W BENNET [40.68, -96.55], 3.5 NNE CLEARIDGE ARPT [40.77, -96.46]				
	03/23/09 15:41 CST		0	Tornado (EF1, L: 7.58 mi , W: 50 yd)
	03/23/09 15:48 CST		0	Source: NWS Storm Survey
<p>This is the third of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln area. This tornado touched down around 2.5 miles west of Bennet, in Lancaster county, tracked northeast clipping the far northwest corner of Otoe county and then lifted around 1.5 miles into the southwest corner of Cass county. In Lancaster county the tornado uprooted trees and caused farm outbuilding damage. In Cass county the tornado destroyed a garage and tossed the debris into a occupied car injuring 5 people. The total path length was around 11 miles.</p>				
OTOE COUNTY --- 6.5 NW PALMYRA [40.77, -96.46], 6.8 NNW PALMYRA [40.78, -96.45]				
	03/23/09 15:48 CST		0	Tornado (EF1, L: 1.36 mi , W: 50 yd)
	03/23/09 15:49 CST		0	Source: NWS Storm Survey
<p>This is the third and longest tracked of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln. This tornado touched down around 2.5 miles west of Bennet, in Lancaster county, tracked northeast clipping the far northwest corner of Otoe county and then lifted around 1.5 miles into the southwest corner of Cass county. In Otoe county the tornado caused tree and farm outbuilding damage. In Cass county the tornado destroyed a garage and tossed the debris into a occupied car injuring 5 people. The total path length was around 11 miles.</p>				
CASS COUNTY --- 2.9 SSW EAGLE [40.78, -96.45], 1.1 SSW EAGLE [40.81, -96.43]				
	03/23/09 15:49 CST		0	Tornado (EF1, L: 1.88 mi , W: 50 yd)
	03/23/09 15:51 CST	5	0	Source: NWS Storm Survey
<p>This is the third and longest tracked of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln area. This tornado touched down around 2.5 miles west of Bennet, in Lancaster county, tracked northeast clipping the far northwest corner of Otoe county and then lifted around 1.5 miles into the southwest corner of Cass county. In Cass county the tornado destroyed a garage and tossed the debris into a occupied car injuring 5 people. Other tree and farm outbuilding damage was noted. The total path length was around 11 miles.</p>				
CASS COUNTY --- 1.0 WSW EAGLE [40.81, -96.44], 0.9 SSW ALVO [40.86, -96.39]				
	03/23/09 15:52 CST		0	Tornado (EF1, L: 3.99 mi , W: 50 yd)
	03/23/09 15:57 CST	3	0	Source: NWS Storm Survey
<p>This is the fourth of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln area. This tornado touched down on the southwest side of Eagle and caused tree and some building damage along its path before lifting around 1 mile south of Alvo. Three people sustained minor injuries near Alvo when a tree fell onto a truck they were in.</p>				
CASS COUNTY --- 0.3 WNW ALVO [40.87, -96.39], 1.4 W SOUTH BEND [41.00, -96.28]				
	03/23/09 15:59 CST		1M	Tornado (EF1, L: 10.65 mi , W: 880 yd)
	03/23/09 16:08 CST		0	Source: NWS Storm Survey
<p>This is the fifth and last of 5 cyclic tornadoes that a low-topped supercell thunderstorm produced at it tracked southeast through east of the Lincoln area. This tornado touched down in Alvo and tracked a little over 10 miles north northeast before lifting just west of South Bend. The tornado knocked down power poles and transmission lines, snapped trees and damaged houses and destroyed farm out buildings along its path. One of the downed power lines fell on a car trapping its occupant for several hours. Several cars were crushed by fallen trees in the Alvo area. From the 3 confirmed tornadoes that hit the county, plus any associated wind damage, emergency management estimated that 30 homes had minor damage with 4 sustaining major damage and 60 to 80 farm outbuildings were damaged with the total damage approaching \$1 million.</p>				
CASS COUNTY --- 4.0 WNW MURDOCK [40.95, -96.34], 1.4 W SOUTH BEND [41.00, -96.28]				
	03/23/09 16:10 CST		0	Thunderstorm Wind (EG 85 kt)
	03/23/09 16:20 CST		0	Source: NWS Storm Survey

Scattered wind damage from a low-topped supercell thunderstorm that earlier produced 5 tornadoes to the south, was reported west through southwest of the South Bend area. Due to the tree and farm outbuilding damage noted, a NWS Storm Survey estimated that wind speeds were between 90 and 100 mph.

Storm Data and Unusual Weather Phenomena - March 2009

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LANCASTER COUNTY --- 4.2 S PANAMA [40.54, -96.51]				
	03/23/09 16:10 CST		0	Thunderstorm Wind (EG 50 kt)
	03/23/09 16:10 CST		0	Source: Trained Spotter
Thunderstorm winds estimated at close to 60 mph blew the walls out of a machine shed.				
DOUGLAS COUNTY --- 3.1 WSW OMAHA MILLARD ARPT [41.19, -96.18], 3.6 N BOYS TOWN [41.32, -96.14]				
	03/23/09 16:20 CST		0	Hail (1.00 in)
	03/23/09 16:42 CST		0	Source: Trained Spotter
A supercell thunderstorm that produced several tornadoes southwest of town and at least one tornado northeast of town dropped hail across much of the Omaha metro area. Across Omaha most of the hail was 1/2 inch in diameter or less, and it drifted several inches deep in some locations. However, some larger hailstones were observed, mostly across the western sections of town. Golf ball-size hail was reported near 144th and Ida, a few 1.25 inch stones fell near 150th and Blondo and 1 inch hail was observed near 168th and Harrison Streets.				
LANCASTER COUNTY --- 9.0 SSE LINCOLN [40.68, -96.60]				
	03/23/09 16:20 CST		0	Hail (1.75 in)
	03/23/09 16:20 CST		0	Source: Trained Spotter
Golf ball size hail was reported around 5 miles south of the southern part of Lincoln.				
SARPY COUNTY --- 0.5 E GRETNA [41.15, -96.24], 1.0 E CHALCO [41.18, -96.13]				
	03/23/09 16:20 CST		0	Hail (1.50 in)
	03/23/09 16:24 CST		0	Source: NWS Employee
Hail 3/4 to 1.5 inches in diameter was reported from around Gretna northeast to the Chalco area. There was also a rotating wall cloud reported in the Chalco area from this storm.				
SARPY COUNTY --- 2.7 WSW CHALCO [41.17, -96.20]				
	03/23/09 17:02 CST		0	Hail (0.75 in)
	03/23/09 17:02 CST		0	Source: NWS Employee
From the second severe storm to pass across the region this evening.				
WASHINGTON COUNTY --- 3.2 ENE WASHINGTON [41.41, -96.16]				
	03/23/09 17:13 CST		0	Hail (0.75 in)
	03/23/09 17:13 CST		0	Source: Trained Spotter
DOUGLAS COUNTY --- 2.6 NNE BOYS TOWN [41.31, -96.12]				
	03/23/09 17:16 CST		0	Hail (0.88 in)
	03/23/09 17:16 CST		0	Source: Trained Spotter
Reported near 132nd and Fort Streets. From the second storm that rolled across the Omaha metro area this evening.				
RICHARDSON COUNTY --- 3.0 ENE STRAUSSVILLE [40.14, -95.60]				
	03/23/09 17:20 CST		0	Hail (0.75 in)
	03/23/09 17:20 CST		0	Source: Emergency Manager
RICHARDSON COUNTY --- 5.5 S SALEM [40.00, -95.73]				
	03/23/09 17:30 CST		0	Thunderstorm Wind (EG 60 kt)
	03/23/09 17:30 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at 60 to 70 mph downed trees and snapped at least one power pole causing a power outage south of Salem.				
DOUGLAS COUNTY --- (OMA)EPPELY FLD OMAH [41.30, -95.90]				
	03/23/09 17:52 CST		0	Thunderstorm Wind (MG 59 kt)
	03/23/09 17:52 CST		0	Source: ASOS
A southerly thunderstorm wind gust was measured at 68 mph by the Asos at Omaha-Eppley airfield just behind a departing line of thunderstorms.				
RICHARDSON COUNTY --- FALLS CITY [40.07, -95.60]				

Storm Data and Unusual Weather Phenomena - March 2009

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	03/23/09 18:08 CST		0	Thunderstorm Wind (EG 51 kt)
	03/23/09 18:08 CST		0	Source: ASOS

A thunderstorm wind gust was measured at 59 mph by Asos at the Falls City airport. The winds caused damage to a hanger door.

An intense upper level low pressure system tracked from eastern Colorado into southeast South Dakota from March 23rd into March 24th. This caused a surface low pressure system to move from western Nebraska into southeast South Dakota during that time. As the low tracked northeast, a dry-line moved into eastern Nebraska during the afternoon of March 23rd. With surface temperatures in the 60s and 70s, and dewpoint temperatures in the 50s, ample instability was in place to allow a line of severe thunderstorms to develop as the dry-line punched eastward. Several fast moving low-topped supercell thunderstorms were embedded in the line, and one cell produced cyclic tornadoes from southeast of Lincoln into western Iowa. The storms in the line were moving north northeast at 50 to 60 mph. In addition to the severe weather, strong southerly gradient winds prevailed ahead of the low pressure. In some cases the winds gusted between 50 and 65 mph for several hours across parts of eastern Nebraska.

(NE-Z011) KNOX, (NE-Z016) ANTELOPE

03/31/09 02:00 CST	0	Winter Storm
03/31/09 18:00 CST	0	

An early spring storm brought strong winds and near-blizzard conditions to sections of northeast Nebraska the last day of March 2009. An upper level low pressure system lifted from western Kansas across eastern Nebraska causing a surface low to quickly lift from Kansas across northeast Nebraska and into southern Minnesota. Although snowfall was only 1 to 3 inches, north winds that gusted to 50 mph caused substantial blowing and drifting snow with visibilities frequently reduced to a 1/2 mile or less in open areas.