



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2004

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

Whiteside County

4.1 SW Prophetstown to 3.8 SW Prophetstown	05	1452CST 1454CST	0.3	30	0	0	7.5K	5K	Tornado (F1)
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Also from newspaper and insurance reports

A warm front moving north through Whiteside county began developing convection around 1430 CST, and a landspout developed out of the rapidly growing cumulus clouds just before 1500 CST. On the Baker Farm along Washington Road, southwest of Prophetstown, a machine shed had part of the roof torn off with the west wall blown down. Had the landspout moved 100 feet in either direction, grain bins, the farm house, and other outbuilding would have been in the path. The same shed was severely damaged by straight line winds in 1998. After damaging the machine shed, the landspout moved northwest 0.3 miles through a corn field and dissipated just short of some irrigation equipment. Landspout rated a low F1 with winds around 70 knots (80 mph). KDVN 88D data showed reflectivity returns of only 10-20 dbz.

Henry County

Geneseo	05	1948CST 1953CST			0	0	2K		Thunderstorm Wind (EG52)
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Large branch down causing damage to a house

Whiteside County

2 W Tampico	05	2024CST 2026CST			0	0			Funnel Cloud
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Mcdonough County

Bushnell	05	2053CST			0	0	2K		Lightning
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Struck a radio tower.

Thunderstorms developed in the warm sector of a storm system during the afternoon hours. The storms organized into a squall line, supported by a strong low level jet, and raced east. Due to already wet antecedent conditions across Eastern Iowa, flash flooding again occurred in areas that had been hit hard from flooding in late May and June. The squall line bowed out as it moved across Henry County Illinois causing isolated wind damage. East Southeast of Stanley, Iowa, several people had to be rescued by boat after Buffalo Creek surrounded a house with high water.

Warren County

Monmouth	09	1630CST 1830CST			0	0	5K		Flash Flood
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Mainly nuisance flooding occurred due to the heavy rainfall with water only collecting around 5 inches deep on streets. However, in areas of poor drainage, water collected 1 to 2 feet deep on roads causing cars to stall out

Thunderstorms developed north of a warm front located across Southern Iowa and Central Illinois. Due to a near tropical atmosphere and a decaying low level jet, rainfall amounts were quite copious and occurred over very short time periods. The main problems were in urban areas where storm sewers were unable to handle the rate of rainfall.

Warren County

Kirkwood	11	1341CST 1411CST			0	0			Heavy Rain
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Street flooding

Warren County

Monmouth	11	1346CST			0	0			Heavy Rain
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ILLINOIS, Northwest

1442CST
Street flooding

Warren County

1.2 W Kirkwood to
Kirkwood

11	1400CST 1405CST				0	0	1K	4K	Thunderstorm Wind (EG52)
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Crops flattened west of town with some 12 inch diameter limbs blocking streets.

Warren County

Monmouth

11	1403CST 1407CST				0	0	1K		Thunderstorm Wind (EG52)
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9-10 inch diameter limbs down

Thunderstorms developed during the late morning and afternoon hours on outflow boundaries left over from overnight storms. The thunderstorms organized into lines with a few severe reports in the form of mainly wind. Most of the wind reports were in the 40 to 50 mph range. Due to a moist to near tropical atmosphere, the storms produced 2 inches of rain within a hour or less.

Carroll County

Lanark

13	0956CST 1000CST				0	0	3K		Hail(0.88)
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Lasted 4 minutes

Carroll County

2.5 SE Lanark

13	1003CST 1006CST				0	0	4K		Hail(0.88)
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Bureau County

Van Orin

13	1130CST 1135CST				0	0	75K	25K	Thunderstorm Wind (EG61)
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Mesocyclone passed right over the town with the first tornado dissipating just north of town. The second tornado developed almost immediately just south of town. Damage to several buildings occurred with many trees and power lines downed.

Bureau County

La Moille

13	1140CST 1145CST				0	0	20K	40K	Hail(4.00)
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Hailstone was measured

Bureau County

1 N Arlington

13	1142CST 1152CST				0	0	7K	7K	Hail(2.00)
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Bureau County

Ohio

13	1226CST 1230CST				0	0	4K		Hail(1.00)
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Penny to 1 inch hail

Bureau County

3 W Van Orin

13	1230CST 1235CST				0	0	4K	4K	Hail(1.00)
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Bureau County

Van Orin

13	1237CST 1247CST				0	0	4K	5K	Hail(1.75)
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Also reported by DOT; Hailstones of 1 to 1.75 inches.

Thunderstorms initiated along a boundary that ran roughly from Dubuque, Iowa, to Sterling, Illinois, to Peru, Illinois. The storms quickly evolved into one supercell with a trailing flanking line of strong storms that moved southeast across Carroll County Illinois. When the supercell reached Ogle and Lee counties in Illinois, it turned to the right and moved south-southeast across the Eastern part of Bureau County Illinois. Many reports of large hail occurred with the main supercell and trailing storms on the flanking line. Two



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ILLINOIS, Northwest

Jo Daviess County

Galena	20	1635CST 1640CST			0	0	1K		Thunderstorm Wind (EG57)
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10 inch diameter tree snapped.

Jo Daviess County

Galena	20	1645CST 1653CST			0	0	240K		Hail(2.50)
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Also reported by law enforcement and the general public. Hail ranged in size from 1.50 inches to 2.50 inches.

A thunderstorm developed in a near tropical atmosphere just east of Dubuque, Iowa along a weak boundary that stretched from Decorrah, to Dubuque, to near Sterling, Illinois. The very slow movement of the storm combined with high atmospheric moisture resulted in prolific rainfall rates. Due to the hilly terrain of the area, flash flooding quickly developed around 20 minutes after the downpour started. Rainfall with the storm varied with the co-op observer in town reporting 1.68 inches of rain with a spotter in another part of town reporting 2.75 inches of rain. KDVN 88D and KLOT 88D did quite well in estimating rainfall in spite of the hail. KDVN 88D estimated 2.8 inches of rain and KLOT 88D estimated 2.7 inches of rain. KMKX and KARX 88D viewing angles gave estimated rainfall of over 3 inches. Although the rain ended by 1700 CST (2300 UTC), a sheriff deputy reported pushing water with his 4x4 when he left for home between 1730 and 1800 CST (2330 and 0000 UTC). Considerable vehicle damage was done by the storm with an auto dealership reporting 78 cars damaged and 1 insurance company reporting at least 91 auto damage claims

IOWA, East Central and Southeast

Buchanan County

Stanley	05	1648CST			0	0			Heavy Rain
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4.80 inches since 0600 CST

Buchanan County

1.6 E Stanley to Stanley	05 06	1700CST 0000CST			0	0	15K		Flash Flood
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West branch of Buffalo Creek out of its banks closing C57 and W33 due to high water.

Buchanan County

North Portion	05 06	1740CST 0000CST			0	0	70K		Flash Flood
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Widespread flash flooding occurring across Northern Buchanan County. Most roads over Buffalo Creek are closed or will close shortly due to high water. Pine and Otter Creeks coming out of their banks and closing many secondary roads due to high water.

Henry County

1.3 SSW Olds	05	1758CST 1828CST			0	0			Heavy Rain
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1.00 inch in 30 minutes

Johnson County

Iowa City	05	1805CST			0	0			Heavy Rain
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IOWA, East Central and Southeast

1830CST

1.25 inches in 25 minutes; considerable street flooding occurring, especially on Randall Street.

Buchanan County

Stanley

05	1925CST								Heavy Rain
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6.38 inches of rain since 0600 CST

Thunderstorms developed in the warm sector of a storm system during the afternoon hours. The storms organized into a squall line, supported by a strong low level jet, and raced east. Due to already wet antecedent conditions across Eastern Iowa, flash flooding again occurred in areas that had been hit hard from flooding in late May and June. The squall line bowed out as it moved across Henry County Illinois causing isolated wind damage. East Southeast of Stanley, Iowa, several people had to be rescued by boat after Buffalo Creek surrounded a house with high water.

Iowa County

Williamsburg

09	0600CST								Heavy Rain
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0830CST

2.50 inches in past 2.5 hours; water ponding on a gravel road.

Johnson County

Iowa City

09	0645CST								Heavy Rain
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0845CST

Estimated 1.50 inches in two hours with around an inch of it falling in 40 minutes with considerable street flooding. Construction at one of the high schools blocked the storm sewer which caused water to flow into the first floor. However, no damage occurred

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IAZ067-078

Muscatine - Louisa

11	1750CST								Flood
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2100CST

Heavy rain between the 9th and 12th of the month pushed the Cedar River above flood stage near Conesville, IA. Minor flooding resulted with agricultural land being affected.

Jones County

Wyoming

16	1224CST					5K			Thunderstorm Wind (EG52)
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1228CST

Stop signs blown down with power poles downed

Jones County

3 W Oxford Jct

16	1234CST					3K			Hail(0.75)
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1239CST

Also estimated 43 knot (50 mph) winds.

Jones County

Oxford Jct

16	1235CST					3K			Thunderstorm Wind (EG57)
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1240CST

Downburst dropped 12 inch diameter limbs in Wapsipinicon Park with numerous other 3-4 inch limbs down in town. A highway sign was also downed with 1.25 inches of rain in 30 minutes.



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					Killed	Injured	Property	Crops	

IOWA, East Central and Southeast

Jones County

Oxford Mills	16	1237CST 1241CST			0	0	3K	Hail(0.75)
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Also estimated 48 knot (55 mph) winds.

Cedar County

1.5 W Massillon	16	1247CST 1300CST			0	0	2K	Thunderstorm Wind (EG50)
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Winds estimated at 43-52 knots (50-60 mph) for about 15 minutes with numerous limbs down.

Cedar County

6 S Clarence	16	1253CST 1300CST			0	0	3K	Thunderstorm Wind (EG57)
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Large pine tree down on a farm house with a power line down.

Cedar County

Bennett	16	1302CST 1309CST			0	0	4K	Thunderstorm Wind (EG57)
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Large trees down across a road blocking traffic with several trees down on adjacent property.

Scattered thunderstorms developed ahead of an upper level disturbance in a semi-moist atmosphere. Due to the slow movement of the storms, rainfall amounts of 1.25 to 1.50 inches occurred in a 15 to 30 minute time period.