

## Storm Data and Unusual Weather Phenomena - June 2012

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

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**POTTAWATTAMIE COUNTY --- 0.7 S OAKLAND [41.31, -95.40]**

	06/10/12 18:52 CST	0	Hail (0.88 in)
	06/10/12 18:56 CST	0	Source: Emergency Manager

Mostly pea to dime-size but a few nickel-size hailstones fell for several minutes in the Oakland area.

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**MONTGOMERY COUNTY --- RED OAK [41.02, -95.23]**

	06/10/12 19:00 CST	0	Heavy Rain
	06/10/12 22:00 CST	0	Source: AWOS

Rainfall of a little over 3 inches fell in several hours in the Red Oak area. The storms produced some street flooding in town.

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**POTTAWATTAMIE COUNTY --- 1.5 NNW LAKE MANAWA [41.24, -95.86]**

	06/10/12 21:30 CST	0	Hail (0.88 in)
	06/10/12 21:30 CST	0	Source: Public

The hail was estimated at around nickel-size.

**A line of thunderstorms developed along a cold front in eastern Nebraska and southwest Iowa during the afternoon of June 10th. Dew point temperatures in the upper 60s combined with temperatures around 90 to produce a modestly unstable airmass. However, wind shear values were marginal and most of the activity was sub-severe. A second area of thunderstorms developed behind the cold front in the early evening and these storms too produced some small hail and gusty winds. Meanwhile later in the evening the cold front slowed and the storms along it trained across the same area producing areas of heavy rain in southwest Iowa.**

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**MONONA COUNTY --- 1.2 NW MAPLETON MUNI ARPT [42.19, -95.82], 2.8 W MAPLETON MUNI ARPT [42.19, -95.85], 3.8 NE TICONIC [42.20, -95.89], 4.1 WNW MAPLETON MUNI ARPT [42.21, -95.87]**

	06/20/12 16:16 CST	0	Flash Flood (due to Heavy Rain)
	06/20/12 18:16 CST	0	Source: Emergency Manager

Rainfall estimated to have been at least 3 inches caused flash flooding across parts of Monona county, including across highway 141 northwest of Mapleton. The flooding caused no apparent damage.

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**MONONA COUNTY --- 0.8 ENE ONAWA [42.03, -96.09], 0.7 E ONAWA MUNI ARPT [42.02, -96.09], 0.4 WSW ONAWA MUNI ARPT [42.02, -96.11], 0.8 NNW ONAWA [42.04, -96.11]**

	06/20/12 16:24 CST	0	Flash Flood (due to Heavy Rain)
	06/20/12 18:24 CST	0	Source: Broadcast Media

Rainfall of 2 to 3 inches in a few hours caused flash flooding across several street in the Onawa area. However, damage was apparently minimal.

**A broken line of thunderstorms developed behind a slow moving cold front in eastern Nebraska and western Iowa during the afternoon of June 20th. Instability across the region was modestly high, but wind shear was marginal and thus the storms mainly produced areas of heavy rain. However, one wet microburst occurred in the Omaha area causing tree and property damage, and training of heavy rain producing cells caused some flash flooding north of Omaha.**

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**(IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE, (IA-Z079) MILLS, (IA-Z080) MONTGOMERY, (IA-Z090) FREMONT, (IA-Z091) PAGE**

	06/27/12 13:00 CST	0	Heat
	06/28/12 19:00 CST	0	

**As a large upper level ridge built over the central U.S., temperatures across eastern Nebraska and southwest Iowa climbed into the 90s to low 100s. When combined with dew point temperatures in the 70s, heat index values reached 105 to 115 degrees in southwest Iowa during the afternoon and evening of June 27th and 28th. Overnight lows in the 70s to near 80 provided little relief on the 28th. A slow moving cool front brought some relief to parts of the area during the evening and overnight hours of the 28th.**

**NEBRASKA, East**

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**CASS COUNTY --- 4.8 S WEEPING WATER ARPT [40.80, -96.12]**

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/10/12 22:26 CST		0	Hail (0.75 in)
	06/10/12 22:26 CST		0	Source: Trained Spotter

A line of thunderstorms developed along a cold front in eastern Nebraska and southwest Iowa during the afternoon of June 10th. Dew point temperatures in the upper 60s combined with temperatures around 90 to produce a modestly unstable airmass. However, wind shear values were marginal and most of the activity was sub-severe. A second area of thunderstorms developed behind the cold front in the early evening and these storms too produced some small hail and gusty winds. Meanwhile later in the evening the cold front slowed and the storms along it trained across the same area producing areas of heavy rain in southwest Iowa.

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**BUTLER COUNTY --- 4.3 NW DAVID CITY [41.30, -97.18], DAVID CITY [41.25, -97.13]**

06/14/12 15:15 CST	0	Hail (0.75 in)
06/14/12 15:16 CST	0	Source: Trained Spotter

Hail up to 3/4 inch in diameter was reported from a little northwest of David City into town.

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**BUTLER COUNTY --- 3.1 E BRAINARD [41.18, -96.94]**

06/14/12 15:45 CST	0	Hail (0.88 in)
06/14/12 15:45 CST	0	Source: Public

Hail just under quarter-size was reported east of Brainard.

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**BUTLER COUNTY --- 4.7 ESE GARRISON [41.15, -97.09]**

06/14/12 15:55 CST	0	Hail (0.75 in)
06/14/12 15:55 CST	0	Source: Public

Hail up to penny-size was observed a little east southeast of Garrison.

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**SALINE COUNTY --- CRETE [40.63, -96.95]**

06/14/12 16:00 CST	0	Heavy Rain
06/15/12 05:00 CST	0	Source: Trained Spotter

Rainfall of around 4 inches was reported north of Crete from thunderstorms from late afternoon of June 14th until the early morning hours of the 15th. The heavy rain caused the Big Blue River near Crete to get close to flood stage later on the 15th and early on the 16th.

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**BUTLER COUNTY --- 1.5 NNE LOMA [41.15, -96.96]**

06/14/12 16:15 CST	0	Hail (1.00 in)
06/14/12 16:15 CST	0	Source: Public

Rainfall of 1.80 inches fell along with hail that reached quarter-size.

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**BUTLER COUNTY --- DWIGHT [41.08, -97.02]**

06/14/12 16:16 CST	0	Hail (0.88 in)
06/14/12 16:16 CST	0	Source: Public

Hail up to nickel-size was reported near Dwight.

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**BURT COUNTY --- 0.5 E TEKAMAH [41.78, -96.22]**

06/14/12 16:17 CST	0	Hail (0.88 in)
06/14/12 16:17 CST	0	Source: Trained Spotter

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**WASHINGTON COUNTY --- 6.2 NE SPIKER [41.67, -96.22]**

06/14/12 16:45 CST	0	Hail (1.00 in)
06/14/12 16:45 CST	0	Source: Trained Spotter

Hail up to quarter-size.

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**SEWARD COUNTY --- 0.7 N SEWARD [40.91, -97.10]**

06/14/12 16:56 CST	0	Hail (1.00 in)
06/14/12 16:56 CST	0	Source: Trained Spotter

Hail up to quarter-size was reported near Seward.

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<b>SAUNDERS COUNTY --- 0.7 N CERESCO [41.06, -96.65]</b>				
	06/14/12 17:00 CST		0	Thunderstorm Wind (EG 56 kt)
	06/14/12 17:00 CST		0	Source: Trained Spotter
A spotter estimated that thunderstorm outflow winds reached 60 to 70 mph.				
<b>LANCASTER COUNTY --- 1.7 ESE WEST LINCOLN [40.82, -96.69]</b>				
	06/14/12 17:08 CST		0	Thunderstorm Wind (MG 52 kt)
	06/14/12 17:08 CST		0	Source: ASOS
A thunderstorm gust of 60 mph was recorded at the Lincoln airport. The strong winds downed some tree limbs which in turned brought down a few power lines in the Lincoln area. More than 450 LES customers lost power.				
<b>SEWARD COUNTY --- 0.5 E PLEASANT DALE [40.78, -96.91]</b>				
	06/14/12 17:51 CST		0	Hail (0.88 in)
	06/14/12 17:51 CST		0	Source: Emergency Manager
<b>SARPY COUNTY --- 0.7 S (OFF)OFFUTT AFB [41.11, -95.92], 1.2 S FT CROOK [41.10, -95.95]</b>				
	06/14/12 17:57 CST		0	Thunderstorm Wind (MG 60 kt)
	06/14/12 18:16 CST		0	Source: AWOS
A thunderstorm wind gust was measured at 69 mph at Offutt AFB. Similar strength winds were estimated elsewhere near the base and the winds lasted for at least several minutes. Some tree limbs and trees were downed in the area.				
<b>SARPY COUNTY --- 0.9 NE PAPILLION [41.18, -96.04], 0.5 W LA VISTA [41.15, -96.04]</b>				
	06/14/12 18:00 CST		0	Thunderstorm Wind (EG 56 kt)
	06/14/12 18:05 CST		0	Source: NWS Employee
Thunderstorm wind gusts estimated at 65 mph or higher downed numerous large limbs and a few trees in the La Vista area. Power was lost in the area as well. Several tents set up for the Papillion Days festival in Papillion sustained damage because of the wind or because tree limbs fell on them.				
<b>(NE-Z034) BURT, (NE-Z051) SAUNDERS</b>				
	06/14/12 23:00 CST		0	High Wind (MAX 53 kt)
	06/15/12 00:00 CST		0	
Thunderstorms developed late in the afternoon of June 14th along and ahead of a cold front that moved into eastern Nebraska. Temperatures in the 90s ahead of the front combined with dew point temperatures in the mid 60s to near 70 and created moderately unstable conditions. The thunderstorms developed into a line producing large hail and training of the cells brought areas of heavy rain. Areas of damaging winds also occurred in the line.				
<b>BURT COUNTY --- DECATUR [42.00, -96.25], 0.3 WNW DECATUR [42.00, -96.26], 1.1 NNW DECATUR [42.02, -96.26], 1.2 N DECATUR [42.02, -96.25]</b>				
	06/20/12 16:00 CST		0	Flash Flood (due to Heavy Rain)
	06/20/12 18:00 CST		0	Source: Law Enforcement
Rainfall estimated at around 3 inches in several hours caused flash flooding across parts of Highway 75 near Decatur for a few hours. Damage was apparently minimal, but the flooding did detour traffic for a while.				
<b>SARPY COUNTY --- 0.7 NNE CHALCO [41.19, -96.14], 1.9 ENE CHALCO [41.19, -96.12]</b>				
	06/20/12 17:20 CST		0	Thunderstorm Wind (EG 55 kt)
	06/20/12 17:22 CST		0	Source: Public
An apparent wet-microburst caused scattered tree and fence damage from around 130th to 144th Streets a little south of Harrison Street southwest of the Millard airport. Some of the fallen trees caused house, vehicle and light pole damage. The winds were estimated to have been over 60 mph.				
A broken line of thunderstorms developed behind a slow moving cold front in eastern Nebraska and western Iowa during the afternoon of June 20th. Instability across the region was modestly high, but wind shear was marginal and thus the storms mainly produced areas of heavy rain. However, one wet microburst occurred in the Omaha area causing tree and property damage, and training of heavy rain producing cells caused some flash flooding north of Omaha.				
<b>(NE-Z051) SAUNDERS, (NE-Z088) JEFFERSON</b>				
	06/24/12 02:00 CST		4K	Strong Wind (MAX 49 kt)
	06/24/12 03:00 CST		0	

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Gradient winds in the wake of a thunderstorm complex caused scattered damage across parts of eastern Nebraska during the early morning hours of June 23rd. The winds lasted for about an hour or so with sustained speeds of 30 mph or more and some gusts of 50 mph or more.

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(NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON

06/27/12 13:00 CST	1	0	Heat
06/28/12 19:00 CST	45	0	

Direct Fatalities: M48OU

As a large upper level ridge built over the central U.S., temperatures across eastern Nebraska and southwest Iowa climbed into the 90s to low 100s. When combined with dew point temperatures in the 60s and 70s, heat index values reached 105 to 115 degrees in east central and southeast Nebraska and across southwest Iowa during the afternoon and evening of June 27th and 28th. Overnight lows in the 70s to near 80 provided little relief on the 28th. A slow moving cool front brought some relief to parts of the area during the evening of the 27th and to the rest of the area during the evening and overnight hours of the 28th.