

Storm Data and Unusual Weather Phenomena - June 2015

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

HARRISON COUNTY --- 3.0 NNW RIVER SIOUX [41.84, -96.07]				
	06/06/15 22:46 CST		0	Thunderstorm Wind (EG 52 kt)
	06/06/15 22:46 CST		0	Source: COOP Observer

The COOP observer reported winds to near 60 mph. No damage was reported.

An active early June weather pattern continued into the day on June 6th. Warm front lifted northward from Kansas and Missouri into eastern Nebraska and western Iowa. This allowed for moisture to return to the region and instability to increase. At the same time a storm system moving across the northern Plains allowed for a cold front to move into the region. Thunderstorms developed by mid to late afternoon at the intersection of where these fronts met. As these thunderstorms moved east and southeast across the area during the evening isolated severe hail and strong were reported with this line. There were also periods of heavy rainfall observed in northeast Nebraska as well.

FREMONT COUNTY --- 24.8 E SHENANDOAH [40.82, -94.90], 21.7 ESE SHENANDOAH [40.63, -95.00], 20.2 ESE SHENANDOAH [40.65, -95.02], 20.1 E SHENANDOAH [40.73, -94.99], 22.4 E SHENANDOAH [40.82, -94.95]				
	06/11/15 10:45 CST		0	Flood (due to Heavy Rain)
	06/12/15 05:00 CST		30K	Source: River/Stream Gage

Minor agricultural flooding was observed along both banks of the East Nodaway River near Clarinda. The Iowa Flood Network gauge indicated the river crested nearly 5 feet above flood stage at 20.68 feet.

FREMONT COUNTY --- 2.7 E SIDNEY [40.74, -95.60], 1.4 WNW FARRAGUT [40.73, -95.49], 0.4 NNW RIVERTON [40.69, -95.57], 3.4 NNE HAMBURG [40.64, -95.62], 3.3 WSW RIVERTON [40.66, -95.63]				
	06/12/15 17:45 CST		0	Flood (due to Heavy Rain)
	06/17/15 01:45 CST		50K	Source: River/Stream Gage

The USGS Gages near Riverton on both the West and East Nishnabotna Rivers showed minor flooding with two crests. The first, and more minor of the two crests, came on the 12th and was just 0.3 above food stage on the East Nishnabotna and 0.9 above on the West Nishnabotna. The second higher crests came on the 15th into the 16th and was 0.47 above on the East, and 2.92 feet above on the West. Both crests caused minor low land flooding along the river.

MONTGOMERY COUNTY --- 1.3 NE STENNETT [41.09, -95.18], 0.5 WSW RED OAK [41.02, -95.24], 1.7 NE COBURG [40.94, -95.26], 2.3 N COBURG [40.95, -95.29], 1.9 NW STENNETT [41.10, -95.23]				
	06/15/15 11:00 CST		0	Flood (due to Heavy Rain)
	06/15/15 22:30 CST		25K	Source: River/Stream Gage

Minor flooding was observed along the East Nishnabotna River near Red Oak. The river crested 2.23 feet above flood stage at 20.23 feet. This resulted in flooding generally of agricultural low lands along the west bank of the river.

FREMONT COUNTY --- 3.2 SW RIVERTON [40.65, -95.61], 0.9 ENE HAMBURG REIDS ARPT [40.58, -95.63], 0.4 NNW HAMBURG REIDS ARPT [40.59, -95.65], 0.5 N HAMBURG [40.61, -95.65], 3.6 N HAMBURG [40.65, -95.64]				
	06/15/15 20:30 CST		0	Flood (due to Heavy Rain)
	06/15/15 22:00 CST		25K	Source: River/Stream Gage

Minor flooding was observed along the main stem of the Nishnabotna River near Hamburg. The flooding was confined to agricultural low lands within the levee.

With ground already saturated from repeated heavy rainfall events in May and early June, another complex of thunderstorms producing very heavy rainfall moved across eastern Nebraska and western Iowa starting during the evening on the 10th and continued into the early morning hours on the 11th. This was followed with additional thunderstorms on the afternoon of the 11th over southeast Nebraska and southwest Iowa. This additional rainfall led to more significant flooding along area rivers.

SHELBY COUNTY --- 0.9 SE ELK HORN [41.59, -95.06]				
	06/24/15 18:22 CST		0	Hail (1.00 in)
	06/24/15 18:22 CST		0	Source: Trained Spotter

A volatile atmosphere developed over western Iowa during the afternoon of June 24th with the juxtaposition of high instability, strong wind shear, and a warm front in the area. A strong capping inversion prevented widespread severe weather, but one isolated supercell developed in Shelby County and tracked southeast. The storm produced some hail and several reports of wall clouds.

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NEBRASKA, East				
SALINE COUNTY --- 6.9 S FRIEND [40.55, -97.28]				
	06/04/15 04:52 CST		0	Thunderstorm Wind (EG 52 kt)
	06/04/15 04:52 CST		0	Source: Trained Spotter
Spotter reported winds in excess of 60 mph, possibly as high as 70 mph. Tree branches were blown down at the residence.				
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	06/04/15 05:52 CST		0	Hail (0.88 in)
	06/04/15 05:52 CST		0	Source: Emergency Manager
GAGE COUNTY --- 2.9 NNW CORTLAND [40.54, -96.73], 1.2 WNW CORTLAND [40.51, -96.72], 1.2 ENE CORTLAND [40.51, -96.68], 2.5 NNE CORTLAND [40.54, -96.69]				
	06/04/15 16:13 CST		20K	Flash Flood (due to Heavy Rain)
	06/04/15 16:13 CST		25K	Source: Emergency Manager
Emergency management reported that water was starting to flood United States Highway 77.				
LANCASTER COUNTY --- 2.2 SSE ROCA [40.62, -96.64], 2.3 SSE ROCA [40.62, -96.63], 2.3 ENE HICKMAN [40.62, -96.63], 2.2 ENE HICKMAN [40.62, -96.64], 2.1 NE HICKMAN [40.62, -96.64]				
	06/04/15 16:23 CST		20K	Flash Flood (due to Heavy Rain)
	06/04/15 16:23 CST		0	Source: Broadcast Media
Flash flooding was reported in the city part in Hickman.				
JOHNSON COUNTY --- 1.5 WSW STERLING [40.46, -96.40], 1.5 SSE STERLING [40.45, -96.36], 2.7 S STERLING [40.43, -96.37], 2.1 SW STERLING [40.45, -96.40]				
	06/04/15 17:32 CST		20K	Flash Flood (due to Heavy Rain)
	06/04/15 17:32 CST		25K	Source: Law Enforcement
Water was reported over some county roads near the town of Sterling.				
SALINE COUNTY --- 1.6 W CRETE [40.63, -96.98], 0.8 NW CRETE [40.64, -96.96], 0.4 WNW CRETE [40.63, -96.96], 1.7 WSW CRETE [40.62, -96.98]				
	06/04/15 21:02 CST		50K	Flash Flood (due to Heavy Rain)
	06/04/15 21:05 CST		50K	Source: Trained Spotter
Spotters reported water multiple roads near the town of Crete.				
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	06/04/15 21:50 CST		0	Thunderstorm Wind (MG 56 kt)
	06/04/15 21:50 CST		0	Source: Emergency Manager
There were also 8 inch limbs reported downed in the city of Fairbury.				
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18], 1.2 W FAIRBURY [40.15, -97.19], 1.7 WSW FAIRBURY [40.14, -97.20], 1.4 SW FAIRBURY [40.13, -97.19], 1.2 SSW FAIRBURY [40.13, -97.18]				
	06/04/15 22:01 CST		50K	Flash Flood (due to Heavy Rain)
	06/04/15 22:01 CST		0	Source: Emergency Manager
Emergency management reported multiple roads flooded in the city of Fairbury.				
JEFFERSON COUNTY --- 2.2 WNW DAYKIN [40.33, -97.32], 0.9 SW HELVEY [40.26, -97.26], 6.3 E HELVEY [40.27, -97.13], 7.8 WNW PLYMOUTH [40.33, -97.12]				
	06/04/15 23:25 CST		10K	Flash Flood (due to Heavy Rain)
	06/04/15 23:25 CST		25K	Source: Emergency Manager

Water was reported over several rural county roads.

A very moist and unstable atmosphere developed over eastern Nebraska on June 4th as southerly winds brought rich gulf moisture northward into the region. This moisture interacted with a frontal boundary across southern Nebraska and produced several rounds of heavy thunderstorms with the first in the morning, and then again in the late afternoon and evening. The heavy rainfall produced flash

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flooding in many of the same areas that saw flash flooding in May. The far majority of the thunderstorms were non-severe, but some isolated damage winds were reported in southeast Nebraska.

SALINE COUNTY --- 1.8 WSW SHESTAK [40.52, -97.00], 3.3 W SHESTAK [40.52, -97.03], 3.6 W DE WITT [40.39, -96.99], 2.8 SSE DE WITT [40.36, -96.90]

	06/04/15 06:30 CST		0.10M	Flood (due to Heavy Rain)
	06/10/15 06:00 CST		75K	Source: River/Stream Gage

Repeated heavy rainfall during the month of June brought Turkey Creek above flood stage with 3 main crests. This was the first, and most significant of the crests with the creek reaching 16.82 feet on the 5th of June, which is 4.52 feet above flood stage. Although the flooding near Wilbur was mainly confined to agricultural low-lands, more significant flooding was observed down stream near De Witt where there were road closures and some structural flooding.

RICHARDSON COUNTY --- 2.8 NNE RULO [40.09, -95.41], 0.5 ENE RULO [40.05, -95.42], 2.6 SE RULO [40.03, -95.39], 0.3 NE RULO [40.05, -95.43], 2.7 N RULO [40.09, -95.42]

	06/04/15 11:30 CST		0	Flood (due to Heavy Rain)
	06/07/15 01:00 CST		10K	Source: River/Stream Gage

Minor flooding was observed along the Missouri River near Rulo. The river crested 3.34 feet above flood stage. The flooding was confined to mainly low areas near the river channel.

RICHARDSON COUNTY --- 1.6 ESE SALEM [40.07, -95.69], 1.9 S FALLS CITY [40.04, -95.60], 0.8 SSE RULO [40.04, -95.43], 3.4 SSE RULO [40.00, -95.41], 3.4 S SALEM [40.03, -95.71]

	06/04/15 18:30 CST		0.13M	Flood (due to Heavy Rain)
	06/06/15 08:30 CST		50K	Source: River/Stream Gage

Significant flooding was observed along the Big Nemaha River near Falls City. The flooding including closing of many gravel and county roads, as well State Highway 8. The flooding also included agricultural low-lands along the river as well.

GAGE COUNTY --- 3.2 S BARNESTON [40.00, -96.58], 3.7 SW BARNESTON [40.01, -96.62], 2.4 NW BARNESTON [40.08, -96.61], 1.8 N BARNESTON [40.08, -96.59], 0.3 S BARNESTON [40.05, -96.58]

	06/04/15 23:00 CST		0	Flood (due to Heavy Rain)
	06/09/15 06:30 CST		50K	Source: River/Stream Gage

Significant agricultural flooding was observed along the Big Blue River near Barneston as the river crested 6.59 feet above flood stage.

GAGE COUNTY --- 2.0 E HOLMESVILLE [40.20, -96.61], 2.1 NNW BLUE SPGS [40.16, -96.69], 2.1 WNW HOAG [40.33, -96.87], 1.8 NNE HOAG [40.34, -96.82]

	06/04/15 23:15 CST		0.10M	Flood (due to Heavy Rain)
	06/18/15 04:00 CST		75K	Source: River/Stream Gage

Repeated episodes of heavy rainfall resulted in a long duration flood along the Big Blue River near Beatrice with multiple crests observed. The initial crest on the 6th of June was the most significant, with a second significant crest on the 17th. Besides significant agricultural flooding along both banks of the river, several rural roads were closed near the river as well as State Highway 136.

JEFFERSON COUNTY --- 2.1 WNW FAIRBURY ARPT [40.19, -97.21], 0.6 ENE HEDRIX [40.18, -97.24], 2.7 WNW ENDICOTT [40.09, -97.15], 2.5 NW ENDICOTT [40.10, -97.14]

	06/05/15 05:30 CST		0	Flood (due to Heavy Rain)
	06/06/15 08:15 CST		10K	Source: River/Stream Gage

Minor lowland flooding was observed along the Little Blue river near Fairbury. The flooding was confined to agricultural areas very near the river.

SEWARD COUNTY --- 0.7 W BEAVER CROSSING ARPT [40.78, -97.29], 1.3 WSW BEAVER CROSSING ARPT [40.77, -97.30], 6.8 S MILFORD [40.67, -97.06], 5.8 S MILFORD [40.69, -97.06], 3.7 ESE BEAVER CROSSING [40.76, -97.20]

	06/05/15 05:30 CST		0.10M	Flood (due to Heavy Rain)
	06/06/15 08:15 CST		75K	Source: River/Stream Gage

Significant flooding occurred along the West Fork of Big Blue River, especially upstream of Dorchester near Beaver Crossing. Here some county road were closed and structures near the river channel at Beaver Crossing were flooded. Only minor low-land agricultural flooding near the river channel was observed near Dorchester.

SALINE COUNTY --- 4.4 NNW CRETE [40.69, -96.99], 1.8 N WILBER MUNI ARPT [40.50, -96.98], 1.3 NE WILBER [40.49, -96.93], 1.4 SSW CRETE [40.61, -96.96], 4.1 NNW CRETE [40.69, -96.97]

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	06/08/15 13:15 CST		0.10M	Flood (due to Heavy Rain)
	06/16/15 19:45 CST		75K	Source: River/Stream Gage

Several heavy rain events in early to mid June brought the the Big Blue River near Crete into flood. The combination of the repeated events allowed for each crest of the river to be a bit higher than the last, finally crested in moderate flood stage at 26.05 feet on June 12th. Besides significant agricultural flooding along both sides of the river, some areas on the east side of Crete near Tuxedo Park on the north side of Highway 33.

Several rounds of thunderstorms led to significant river flooding along many river in southeast Nebraska and southwest Iowa during the early part of June. The first episode of heavy rainfall came during the early morning hours on June 4th when thunderstorms lifted north across southeast Nebraska into southwest Iowa to the north of a warm front. Additional thunderstorms moved along this warm front during the morning on the 4th, followed by even heavier and slower moving thunderstorms during the late afternoon and evening of the 4th. The combination of these repeated rainfalls on already saturated ground led to river flooding.

PLATTE COUNTY --- 2.2 ESE TARNOV [41.61, -97.48]

06/06/15 07:50 CST	0	Thunderstorm Wind (EG 60 kt)
06/06/15 07:50 CST	0	Source: Emergency Manager

A microburst caused a camper being pulled by a pickup truck to be blown over on Highway 81. Other damage included tree limbs down in Tarnov, a grain bin was blown off the foundation, and several center irrigation center pivots were blown over.

PIERCE COUNTY --- 3.1 W PIERCE [42.20, -97.59]

06/06/15 18:09 CST	0	Hail (1.00 in)
06/06/15 18:09 CST	0	Source: Law Enforcement

CUMING COUNTY --- 2.2 WNW WISNER [41.99, -96.97]

06/06/15 21:35 CST	0	Thunderstorm Wind (EG 61 kt)
06/06/15 21:35 CST	0	Source: Storm Chaser

A storm chaser reported winds up to 70 mph that resulted in the back window of their vehicle being blow out.

THURSTON COUNTY --- 2.1 SW MACY [42.10, -96.38]

06/06/15 22:06 CST	0	Thunderstorm Wind (EG 52 kt)
06/06/15 22:06 CST	0	Source: Emergency Manager

There were 3 trees reported blown down just to the southwest of the city of Macy.

An active early June weather pattern continued into the day on June 6th. Warm front lifted northward from Kansas and Missouri into eastern Nebraska and western Iowa. This allowed for moisture to return to the region and instability to increase. At the same time a storm system moving across the northern Plains allowed for a cold front to move into the region. Thunderstorms developed by mid to late afternoon at the intersection of where these fronts met. As these thunderstorms moved east and southeast across the area during the evening isolated severe hail and strong were reported with this line. There were also periods of heavy rainfall observed in northeast Nebraska as well.

CASS COUNTY --- 1.3 WSW UNION [40.81, -95.92]

06/10/15 14:43 CST	0	Hail (0.75 in)
06/10/15 14:43 CST	0	Source: Trained Spotter

ANTELOPE COUNTY --- 132.1 SE TILDEN [40.84, -95.85]

06/10/15 15:33 CST	0	Hail (1.00 in)
06/10/15 15:33 CST	0	Source: Social Media

SAUNDERS COUNTY --- 1.0 E ASHLAND [41.05, -96.36]

06/10/15 16:28 CST	0	Hail (0.88 in)
06/10/15 16:28 CST	0	Source: Public

MADISON COUNTY --- 0.5 E MADISON [41.83, -97.46]

06/10/15 19:15 CST	0	Thunderstorm Wind (EG 52 kt)
06/10/15 19:15 CST	0	Source: Law Enforcement

Local law enforcement reported that some trees were downed in town and the power is also out.

PLATTE COUNTY --- 0.9 NE HUMPHREY [41.69, -97.49]

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	06/10/15 19:36 CST		0	Thunderstorm Wind (EG 52 kt)
	06/10/15 19:36 CST		0	Source: COOP Observer

The local COOP observer estimated wind gusts to 60 mph at this location.

Ample June moisture and a weak front in the area allowed for scattered thunderstorms to develop over parts of central and eastern Nebraska. The majority of these storms were non severe in nature due to limited vertical wind shear, but sufficient instability allowed for an isolated large hail report, and later as storms developed more into an eastward moving complex, a couple of reports of strong wind gusts.

SEWARD COUNTY --- 0.6 W SEWARD [40.90, -97.11], 0.9 WNW SEWARD [40.91, -97.11], 3.0 NW SEWARD [40.92, -97.15], 3.4 WNW SEWARD [40.92, -97.16], 2.3 WNW SEWARD [40.91, -97.14]

06/11/15 03:45 CST	0	Flood (due to Heavy Rain)
06/13/15 13:45 CST	20K	Source: River/Stream Gage

Minor flooding was observed along the Lincoln Creek near Seward. The creek crested at 16.52 feet and was responsible for minor agricultural low-level flooding along the creek.

SALINE COUNTY --- 2.0 SE DE WITT [40.38, -96.89], 2.8 SSE DE WITT [40.36, -96.90], 3.8 W DE WITT [40.41, -96.99], 3.5 WSW SHESTAK [40.51, -97.03], 2.2 SW SHESTAK [40.51, -97.00]

06/11/15 06:30 CST	0.50M	Flood (due to Heavy Rain)
06/18/15 05:15 CST	0.10M	Source: River/Stream Gage

This was the second significant flood of June along Turkey Creek, and the third of the year. The river crested over 4 feet above flood stage, and although briefly fell below flood stage on the 13th, additional heavy rain on the 14th allowed the creek to stay above flood stage until the 18th. Significant flooding of row crops in the flood plain was observed from Wilbur downstream to De Witt where some structures near town were again flooded.

RICHARDSON COUNTY --- 3.3 NNE RULO [40.09, -95.41], 1.1 NNE RULO [40.06, -95.42], 2.2 SE RULO [40.03, -95.40], 0.6 N RULO [40.06, -95.43], 3.2 N RULO [40.10, -95.42]

06/11/15 18:30 CST	75K	Flood (due to Heavy Rain)
06/15/15 02:30 CST	50K	Source: River/Stream Gage

This was the second, and more significant flood of the Missouri River near Rulo in the month of June. The river crested at 21.47 ft, or 5.47 feet above flood stage. In addition to significant agricultural low-land flooding, some cabins along the river also flooded.

DODGE COUNTY --- 3.3 WNW NICKERSON [41.55, -96.53], 0.8 NW NICKERSON [41.54, -96.49], 1.3 NE NICKERSON [41.54, -96.46], 1.5 NNE NICKERSON [41.55, -96.47], 3.1 NW NICKERSON [41.56, -96.52]

06/11/15 19:00 CST	0	Flood (due to Heavy Rain)
06/12/15 01:15 CST	20K	Source: River/Stream Gage

Minor flooding was observed along the Maple Creek near Nickerson. The flooding was confined to low-lined agricultural areas along the river.

OTOE COUNTY --- 2.8 N NEBRASKA CITY ARPT [40.71, -95.88], 1.3 ENE NEBRASKA CITY ARPT [40.68, -95.85], 2.9 E NEBRASKA CITY [40.65, -95.79], 2.8 N NEBRASKA CITY ARPT [40.71, -95.87]

06/12/15 17:15 CST	0	Flood (due to Heavy Rain)
06/12/15 19:45 CST	5K	Source: River/Stream Gage

The Missouri River at Nebraska City rose to just above flood stage during the late afternoon of the 12th, and crested and fell below later that evening. The flooding was confined to minor over-band flooding along the river.

NEMAHA COUNTY --- 1.5 NW BROWNVILLE [40.42, -95.67], 0.3 SW BROWNVILLE [40.40, -95.65], 1.5 S BROWNVILLE [40.38, -95.65], 0.2 WSW BROWNVILLE [40.40, -95.65], 1.3 NNW BROWNVILLE [40.42, -95.66]

06/12/15 19:30 CST	0	Flood (due to Heavy Rain)
06/18/15 03:45 CST	25K	Source: River/Stream Gage

Minor flooding was observed along the Missouri River near Brownville. The river crested at 35.21 feet and led to significant flooding of agricultural low-lands along the river.

With ground already saturated from repeated heavy rainfall events in May and early June, another complex of thunderstorms producing very heavy rainfall moved across eastern Nebraska and western Iowa starting during the evening on the 10th and continued into the early morning hours on the 11th. This was followed with additional thunderstorms on the afternoon of the 11th over southeast Nebraska and southwest Iowa. This additional rainfall led to more significant flooding along area rivers.

KNOX COUNTY --- 0.9 SE VERDEL [42.81, -98.19]

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	06/20/15 01:45 CST		0	Thunderstorm Wind (EG 52 kt)
	06/20/15 01:45 CST		0	Source: COOP Observer

Trees were downed along State Highway 12 and near the town of Verdel on some county roads.

KNOX COUNTY --- NIOBRARA [42.75, -98.03]

	06/20/15 01:50 CST		0	Thunderstorm Wind (EG 52 kt)
	06/20/15 01:50 CST		0	Source: Public

A few large tree limbs down and some shingle damage to roofs were reported.

A strong complex of thunderstorms moved across southern South Dakota during the evening of June 19th, and into the early morning hours of June 20th. Although the majority of these storms stayed in South Dakota, the southern edge of the squall line moved across Knox County in northeast Nebraska producing strong winds.

JEFFERSON COUNTY --- 1.3 WSW REYNOLDS [40.06, -97.35]

	06/23/15 09:50 CST		0	Hail (1.00 in)
	06/23/15 09:50 CST		0	Source: Trained Spotter

JEFFERSON COUNTY --- 2.1 SSE GLADSTONE [40.14, -97.29]

	06/23/15 10:25 CST		0	Hail (1.25 in)
	06/23/15 10:29 CST		0	Source: Trained Spotter

JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]

	06/23/15 10:40 CST		0	Hail (1.50 in)
	06/23/15 10:40 CST		0	Source: Emergency Manager

JEFFERSON COUNTY --- 2.6 NW THOMPSON [40.10, -97.28]

	06/23/15 11:03 CST		0	Hail (1.75 in)
	06/23/15 11:03 CST		0	Source: Public

JEFFERSON COUNTY --- 3.7 E THOMPSON [40.07, -97.18]

	06/23/15 11:13 CST		0	Hail (2.50 in)
	06/23/15 11:23 CST		0	Source: COOP Observer

The hail lasted for 10 minutes.

JEFFERSON COUNTY --- 0.7 N STEELE CITY [40.04, -97.02]

	06/23/15 11:45 CST		0	Hail (2.50 in)
	06/23/15 11:55 CST		0	Source: SHAVE Project

Thunderstorms developed during the mid to late morning, and continued into the afternoon hours along an elevated warm front near the Kansas and Nebraska border. Due to strong shear along the boundary and sufficient instability, some of the hail was significant and damaging.