

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Northeast				
FAYETTE COUNTY --- 3.6 E ALPHA [43.01, -91.98]				
	06/07/13 14:48 CST		0	Funnel Cloud
	06/07/13 14:48 CST		0	Source: Public
A funnel cloud was spotted southeast of Waucoma.				
CHICKASAW COUNTY --- 1.2 SE NEW HAMPTON [43.06, -92.31]				
	06/07/13 19:20 CST		0	Funnel Cloud
	06/07/13 19:20 CST		0	Source: Law Enforcement
Funnel clouds were sighted near New Hampton.				
Isolated weak showers developed during the afternoon and evening of June 7th over northeast Iowa along a nearly stationary trough of low pressure. Conditions were favorable for funnel clouds to develop despite the showers being very weak. No touchdowns were reported.				
CLAYTON COUNTY --- 0.7 S MARQUETTE [43.04, -91.18]				
	06/12/13 15:00 CST		3K	Thunderstorm Wind (EG 50 kt)
	06/12/13 15:02 CST		0	Source: 911 Call Center
Trees were blown down between Marquette and McGregor with at least one of these trees going down on a power line. Other trees were blown down just north of Marquette on to State Highway 76.				
CLAYTON COUNTY --- 0.7 N GUTTENBURG [42.79, -91.10]				
	06/12/13 15:15 CST		0	Funnel Cloud
	06/12/13 15:15 CST		0	Source: Law Enforcement
A funnel cloud was sighted in Guttenberg.				
FLOYD COUNTY --- 0.7 N FLOYD CROSSING [43.09, -92.75]				
	06/12/13 18:03 CST		2K	Thunderstorm Wind (EG 50 kt)
	06/12/13 18:03 CST		0	Source: Fire Department/Rescue
Trees were blown down just northwest of Charles City.				
FLOYD COUNTY --- 0.9 SW NORA SPGS [43.14, -93.01]				
	06/12/13 19:11 CST		4K	Thunderstorm Wind (MG 51 kt)
	06/12/13 19:11 CST		0	Source: Fire Department/Rescue
A wind gust of 59 mph was measured in Nora Springs which blew down numerous trees and power lines with one tree landing on a garage.				
FAYETTE COUNTY --- 0.2 ENE ORAN [42.70, -92.08]				
	06/12/13 19:18 CST		0	Hail (1.00 in)
	06/12/13 19:18 CST		0	Source: Emergency Manager
Quarter sized hail fell in Oran.				
FLOYD COUNTY --- 1.4 N AUREOLA [42.99, -92.88]				
	06/12/13 19:22 CST		1K	Thunderstorm Wind (EG 50 kt)
	06/12/13 19:22 CST		0	Source: Law Enforcement
Trees were blown down northwest of Marble Rock.				
FLOYD COUNTY --- 2.1 NW CARRVILLE [43.04, -92.63], 2.7 W ROCKFORD [43.04, -93.02], 4.3 N NORA SPGS [43.21, -93.01], 4.0 NE FLOYD HANRY ARPT [43.21, -92.63]				
	06/12/13 20:30 CST		80K	Flash Flood (due to Heavy Rain)
	06/12/13 22:30 CST		0	Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Heavy rain across Floyd County caused flash flooding to occur at numerous locations. Water covered some roads near Floyd causing some washouts. Numerous roads became impassable with washouts in and near Nora Springs and roads on the east side of Charles City also became covered with water. The Shell Rock River topped the levee in Nora Springs washing away a 40 foot section of the levee.				

MITCHELL COUNTY --- 4.0 SSW NEW HAVEN [43.23, -92.69], 3.9 SSE NEW HAVEN [43.23, -92.61], 5.0 SSE NEW HAVEN [43.21, -92.61], 4.5 ESE ORCHARD [43.21, -92.69]

	06/12/13 20:30 CST		0	Flash Flood (due to Heavy Rain)
	06/12/13 22:30 CST		0	Source: 911 Call Center

Heavy rain caused the Little Cedar River to rise rapidly and produce flooding that closed roads east of Orchard.

FLOYD COUNTY --- 0.8 E CHARLES CITY [43.07, -92.68], 1.7 SSW WALLER [43.06, -92.66], 1.8 SSW WALLER [43.06, -92.67], 0.8 ESE CHARLES CITY [43.07, -92.69]

	06/13/13 08:45 CST		0	Flood (due to Heavy Rain)
	06/13/13 17:00 CST		0	Source: River/Stream Gage

Runoff from heavy rain pushed the Cedar River out of its banks in Charles City. The river crested less than a half foot above the flood stage at 12.39 feet.

A couple rounds of severe thunderstorms rolled across northeast Iowa during the afternoon and evening of June 12th. These storms developed ahead of an area of low pressure that was moving east across the Upper Midwest. The storms primarily produced high winds that blew down trees near Marquette (Clayton County) in the afternoon and around Nora Springs and Marble Rock (Floyd County) in the evening. Some quarter sized hail also fell in Oran (Fayette County).

WINNESHIEK COUNTY --- DECORAH [43.30, -91.80]

	06/21/13 00:00 CST		0	Heavy Rain
	06/21/13 07:13 CST		0	Source: Public

In Decorah, 3 inches of rain was reported.

ALLAMAKEE COUNTY --- WAUKON [43.27, -91.48]

	06/21/13 06:00 CST		0	Heavy Rain
	06/22/13 03:00 CST		0	Source: Public

In Waukon, 4.5 inches of rain fell.

WINNESHIEK COUNTY --- 5.3 NNW KENDALLVILLE [43.50, -92.08], 4.6 NE HIGHLANDVILLE [43.50, -91.62], 5.0 ESE CASTALIA [43.09, -91.61], 3.8 SW JACKSON JCT [43.08, -92.08]

	06/21/13 06:45 CST		0	Flash Flood (due to Heavy Rain)
	06/21/13 08:45 CST		0	Source: 911 Call Center

Locally heavy rain produced rapid runoff and flash flooding at several locations across the county.

ALLAMAKEE COUNTY --- 3.4 S CHESTER [43.42, -91.51]

	06/21/13 06:46 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	06/21/13 06:46 CST		0	Source: Emergency Manager

A tree limb was blown down onto a tent at a campground near Dorchester. One person in the tent was injured and taken to a local hospital.

CLAYTON COUNTY --- EDGEWOOD [42.67, -91.43]

	06/21/13 07:00 CST		0	Heavy Rain
	06/22/13 07:00 CST		0	Source: Emergency Manager

In Edgewood, 3.5 inches of rain fell.

WINNESHIEK COUNTY --- 1.5 NNE DECORAH [43.32, -91.79]

	06/21/13 07:13 CST		0	Hail (0.75 in)
	06/21/13 07:13 CST		0	Source: Broadcast Media

FAYETTE COUNTY --- 2.1 NNE ALPHA [43.03, -92.04], 2.4 NNE ALPHA [43.03, -92.02], 1.5 ENE ALPHA [43.01, -92.02], 0.8 NE ALPHA [43.01, -92.04]

	06/21/13 07:24 CST		0	Flood (due to Heavy Rain)
	06/21/13 09:00 CST		0	Source: CoCoRaHS

Some minor flooding occurred south of Wacoma as just over 2 inches of rain fell in an hour.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FAYETTE COUNTY --- 2.3 NNW STANLEY [42.68, -91.82]				
	06/21/13 07:26 CST		0	Hail (1.00 in)
	06/21/13 07:26 CST		0	Source: Emergency Manager
Quarter sized hail was reported east of Oelwein.				
CLAYTON COUNTY --- 0.5 W STRAWBERRY PT [42.68, -91.54]				
	06/21/13 07:42 CST		0	Hail (0.75 in)
	06/21/13 07:42 CST		0	Source: Trained Spotter
FAYETTE COUNTY --- 1.5 W OELWEIN [42.68, -91.93], 1.6 WSW OELWEIN [42.67, -91.93], 1.7 ESE OELWEIN MUNI ARPT [42.67, -91.95], 1.6 ENE OELWEIN MUNI ARPT [42.69, -91.95]				
	06/21/13 07:47 CST		0.70M	Flash Flood (due to Heavy Rain)
	06/21/13 10:00 CST		0	Source: 911 Call Center
Several roads were closed northwest of Oelwein as locally heavy rain produced some flash flooding. Almost two inches of rain fell in about an hour.				
ALLAMAKEE COUNTY --- 3.4 S CHESTER [43.42, -91.51], 3.5 S CHESTER [43.42, -91.51], 3.0 S CHESTER [43.43, -91.52], 3.0 S CHESTER [43.43, -91.52]				
	06/22/13 04:40 CST		0	Flood (due to Heavy Rain)
	06/25/13 21:45 CST		0	Source: River/Stream Gage
Runoff from heavy rain pushed the Upper Iowa River out of its banks near Dorchester. The river crested over six feet above the flood stage at 20.02 feet.				
CLAYTON COUNTY --- 0.6 N GARBER [42.74, -91.27], 0.9 NE GARBER [42.74, -91.26], 1.1 NNE GARBER [42.74, -91.26], 1.1 NE GARBER [42.74, -91.26], 0.9 NE GARBER [42.74, -91.26], 0.6 NNE GARBER [42.74, -91.27], 0.5 N GARBER [42.74, -91.27]				
	06/22/13 06:00 CST		0	Flood (due to Heavy Rain)
	06/22/13 23:00 CST		0	Source: River/Stream Gage
Runoff from heavy rain pushed the Turkey River out of its banks in Garber. The river crested over ten feet above the flood stage at 27.18 feet.				
CLAYTON COUNTY --- 0.4 SSW ELKADER [42.84, -91.40], 0.5 SSE ELKADER [42.84, -91.40], 0.6 SSE ELKADER [42.84, -91.40], 0.6 S ELKADER [42.84, -91.40], 0.5 SSW ELKADER [42.84, -91.40], 0.5 SW ELKADER [42.84, -91.41]				
	06/22/13 06:20 CST		0	Flood (due to Heavy Rain)
	06/22/13 14:15 CST		0	Source: River/Stream Gage
Runoff from heavy rain pushed the Turkey River out of its banks in Elkader. The river crested about a foot and a half above the flood stage at 13.66 feet.				
Thunderstorms that developed over northwest Minnesota during the evening of June 20th, moved across northeast Iowa during the early morning hours of the 21st. These storms produced locally heavy rains that caused some flash flooding to occur across Winneshiek County and dropped hail across Winneshiek, Fayette and Clayton Counties. The largest hail reported was quarter sized east of Oelwein (Fayette County).				
ALLAMAKEE COUNTY --- 0.7 NW WAUKON [43.28, -91.49], 0.7 N WAUKON MUNI ARPT [43.28, -91.47], 1.1 S WAUKON MUNI ARPT [43.25, -91.47], 1.1 SSW WAUKON [43.26, -91.49]				
	06/22/13 01:35 CST		0	Flash Flood (due to Heavy Rain)
	06/22/13 03:45 CST		0	Source: Law Enforcement
Very heavy rain fell at such a fast rate that the sewer stations in Waukon were not able to keep up with the rain and as a result, flooding occurred around the city.				
ALLAMAKEE COUNTY --- 0.7 SE MAUD [43.22, -91.37], 2.2 ENE WATERVILLE [43.23, -91.26], 1.8 NNE WAUKON JCT [43.17, -91.17], 4.7 S WAUKON JCT [43.08, -91.18], 3.1 S VOLNEY [43.09, -91.39]				
	06/22/13 06:25 CST		0	Flash Flood (due to Heavy Rain)
	06/22/13 09:30 CST		0	Source: Law Enforcement
Locally heavy rain produced flash flooding across portions of Allamakee County. Paint Creek was pushed out of it banks with the water covering a road northeast of Waterville.				
CLAYTON COUNTY --- 2.6 SW ST OLAF [42.90, -91.42], 2.8 SE CLAYTON [42.88, -91.10], 2.9 SE GRAHAM [42.65, -91.07], 3.7 ESE EDGEWOOD [42.65, -91.36]				

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	06/22/13 07:29 CST		0.65M	Flash Flood (due to Heavy Rain)
	06/22/13 09:30 CST		0	Source: Law Enforcement

Locally heavy rain produced flash flooding in numerous low lying areas across the county with many secondary roads under water. A campground outside of McGregor suffered extensive damage with a bridge and part of a road washed out, a bathroom facility destroyed and numerous picnic tables washed away. Some permanent camp foundations were also washed away and four campers had to be evacuated.

A nearly stationary band of thunderstorms developed across northeast Iowa during the evening of June 21st. These storms remained in place until another line of storms pushed in from the west during the early morning hours of the 22nd. Rainfall amounts exceeded four inches with flash flooding reported in parts of Allamakee and Clayton Counties. A campground outside of McGregor (Clayton County) suffered extensive damage with numerous picnic tables washed away, a bathroom destroyed, part of a road washed out and a bridge destroyed.

CLAYTON COUNTY --- 0.7 N GUTTENBURG [42.79, -91.10]

06/22/13 05:00 CST	0	Heavy Rain
06/23/13 05:00 CST	0	Source: COOP Observer

The COOP observer at the Guttenberg Lock and Dam reported 4.05 inches of rain.

ALLAMAKEE COUNTY --- 0.5 E CHESTER [43.47, -91.51]

06/22/13 06:00 CST	0	Heavy Rain
06/23/13 06:00 CST	0	Source: COOP Observer

The COOP observer in Dorchester reported 3.36 inches of rain.

ALLAMAKEE COUNTY --- 3.3 WNW WAUKON JCT [43.17, -91.24]

06/22/13 06:07 CST	0	Heavy Rain
06/23/13 06:07 CST	0	Source: Mesonet

The mesonet observing equipment near the Yellow River southeast of Waterville measured 4 inches of rain.

WINNESHIEK COUNTY --- 0.9 NE CALMAR [43.19, -91.87]

06/22/13 08:52 CST	0	Heavy Rain
06/23/13 08:52 CST	0	Source: Public

In Calmar, 3.5 inches of rain was reported.

ALLAMAKEE COUNTY --- 1.2 SSE LANSING [43.36, -91.22], 3.9 E WEXFORD [43.28, -91.09], 1.8 NNE WAUKON JCT [43.17, -91.17], 4.8 S WAUKON JCT [43.08, -91.18], 1.3 WNW POSTVILLE [43.08, -91.61], 3.3 WNW DORCHESTER [43.50, -91.61], 5.2 E NEW ALBIN [43.50, -91.23]

06/22/13 23:25 CST	6.40M	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

Mudslides occurred over the eastern section of the county from Lansing to north of Harpers Ferry covering portions of County Road X52. Other flash flooding occurred over much of the county. A campground in the Yellow River State Forest had to be evacuated with 80 campers moved to community building in Harpers Ferry. No injuries occurred, but one car was swept away by flood waters on Little Paint Creek. In Waukon, a number of businesses had water up to two feet deep in them with basements completely filled with water. The flooding also caused the utility company to shut off natural gas service to about 60 customers to prevent the possibility of gas leaks to appliances that could have been submerged and pilot lights extinguished. Homes in the Lansing area were damaged by the mudslides with a least one home knocked off its foundation and evacuations of other homes were required along Wall Street.

HOWARD COUNTY --- 5.2 NNE RICEVILLE [43.44, -92.53], 7.6 N RICEVILLE [43.48, -92.55], 9.0 N RICEVILLE [43.50, -92.55], 2.5 E FLORENCEVILLE [43.50, -92.08], 4.6 SSE FLORENCEVILLE [43.44, -92.08]

06/22/13 23:50 CST	0	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

Heavy rain pushed the Upper Iowa River and numerous smaller streams that drain into the Upper Iowa River out of their banks. The water covered several roads across the northern portion of Howard County.

WINNESHIEK COUNTY --- 5.0 ESE CASTALIA [43.10, -91.61], 2.7 WNW KENDALLVILLE [43.44, -92.08], 5.5 NNW KENDALLVILLE [43.50, -92.08], 4.9 NE HIGHLANDVILLE [43.50, -91.61]

06/23/13 02:08 CST	0.90M	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

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Heavy rain caused flash flooding to occur across Winneshiek County, especially the northern sections. Rapidly rising waters along the Upper Iowa River caused a campground in Bluffton to be evacuated and covered numerous roads in Burr Oak Township stranding residences.

FLOYD COUNTY --- 0.8 E CHARLES CITY [43.07, -92.68], 1.7 SSW WALLER [43.06, -92.66], 1.8 SSW WALLER [43.06, -92.67], 0.8 ESE CHARLES CITY [43.07, -92.69]

	06/24/13 03:15 CST	0	Flood (due to Heavy Rain)
	06/24/13 13:00 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Cedar River out of its banks in Charles City. The river crested just over flood stage at 12.18 feet.

For the second night in a row, thunderstorms with very heavy rain rolled across northeast Iowa producing widespread flash flooding during the evening of June 22nd. At least three rounds of thunderstorms moved across the area dumping another 3 to 4 inches of rain on ground that was saturated from heavy rains that fell less than 24 hours before. Numerous mudslides occurred across Allamakee County, a campground had be evacuated near Bluffton (Winneshiek County) and water along the Upper Iowa River closed several roads in Howard County. Officials also had to evacuate around 80 people from a campground south of Harpers Ferry (Allamakee County). With the repeated episodes of severe weather with flash flooding, the Governor of the State of Iowa declared disaster proclamations for Allamakee, Chickasaw, Clayton, Fayette, Floyd, Mitchell and Winneshiek Counties. FEMA declared a federal disaster area for the following counties: Allamakee, Clayton and Winneshiek.

WINNESHIEK COUNTY --- 1.9 WSW FT ATKINSON [43.14, -91.98], 1.0 SW FT ATKINSON [43.14, -91.96], 1.0 SSW FT ATKINSON [43.14, -91.96], 1.7 SW FT ATKINSON [43.13, -91.97], 2.0 ENE JACKSON JCT [43.13, -91.98]

	06/24/13 21:45 CST	75K	Flash Flood (due to Heavy Rain)
	06/25/13 00:30 CST	0	Source: Law Enforcement

Rapidly rising waters along Krumm Creek washed out a railroad bridge west of Fort Atkinson.

CLAYTON COUNTY --- 0.6 ESE MC GREGOR [43.02, -91.17], 0.7 SW MC GREGOR [43.01, -91.19], 1.3 NW MC GREGOR [43.03, -91.20], 1.0 SSE MARQUETTE [43.04, -91.17]

	06/24/13 23:00 CST	44K	Flash Flood (due to Heavy Rain)
	06/25/13 00:00 CST	0	Source: Law Enforcement

Heavy rain produced some street flooding in McGregor. Along with damaging streets, the flooding caused several storm sewer pipes to collapse.

CLAYTON COUNTY --- 0.4 SSW ELKADER [42.84, -91.40], 0.5 SSE ELKADER [42.84, -91.40], 0.6 SSE ELKADER [42.84, -91.40], 0.6 S ELKADER [42.84, -91.40], 0.5 SSW ELKADER [42.84, -91.40], 0.5 SW ELKADER [42.84, -91.41]

	06/25/13 01:20 CST	0	Flood (due to Heavy Rain)
	06/26/13 06:15 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Turkey River out of its banks in Elkader. The river crested almost three feet above the flood stage at 14.95 feet.

CLAYTON COUNTY --- 0.6 N GARBER [42.74, -91.27], 0.9 NE GARBER [42.74, -91.26], 1.1 NNE GARBER [42.74, -91.26], 1.1 NE GARBER [42.74, -91.26], 0.9 NE GARBER [42.74, -91.26], 0.6 NNE GARBER [42.74, -91.27], 0.5 N GARBER [42.74, -91.27]

	06/25/13 05:00 CST	0	Flood (due to Heavy Rain)
	06/26/13 07:00 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Turkey River out its banks in Garber. The river crested four and a half feet above the flood stage at 21.59 feet.

CLAYTON COUNTY --- 0.7 NNE MC GREGOR [43.03, -91.17], 0.6 NE MC GREGOR [43.03, -91.17], 0.5 NE MC GREGOR [43.02, -91.17], 0.6 ENE MC GREGOR [43.02, -91.17], 0.8 NNE MC GREGOR [43.03, -91.17]

	06/25/13 07:20 CST	0	Flood (due to Heavy Rain)
	06/30/13 01:00 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Mississippi River out of its banks in McGregor. The river crested less than a half foot over flood stage at 16.29 feet.

CLAYTON COUNTY --- 0.2 W GUTTENBERG ARPT [42.82, -91.10], 1.0 SSW GUTTENBERG ARPT [42.81, -91.11], 0.4 NNE GUTTENBURG [42.79, -91.10], 2.0 SSE GUTTENBURG [42.75, -91.09], 1.9 NNW TURKEY RIVER [42.75, -91.07], 1.0 ENE GUTTENBERG ARPT [42.83, -91.08]

	06/25/13 22:00 CST	0	Flood (due to Heavy Rain)
	06/27/13 02:00 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Mississippi River out of its banks in Guttenberg. The river crested just over flood stage at 15.1 feet.

More thunderstorms with heavy rain moved across northeast Iowa during the evening of June 24th into the early morning hours of June 25th. The heavy rain produced yet more flash flooding with a railroad bridge washed out west of Fort Atkinson (Winneshiek County).

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CHICKASAW COUNTY --- 1.8 NW NASHUA [42.96, -92.56], 3.7 S LITTLE TURKEY [43.08, -92.09], 6.0 SE FREDRICKSBURG [42.92, -92.10], 1.4 SW NASHUA [42.94, -92.55]				
	06/26/13 00:18 CST		0.12M	Flash Flood (due to Heavy Rain)
	06/26/13 03:30 CST		0	Source: Law Enforcement

Locally heavy rain produced some street flooding and caused water to go in some basements in Nashua. Flooding also impacted Lawler and caused damage to secondary roads across the southern sections of the county.

Thunderstorms with heavy rain developed across eastern Iowa during the evening of June 25th and briefly moved into portions of northeast Iowa before dropping south of the region. With saturated soils from all the rain that had fallen in the previous few days, there was just enough heavy rain to produce some problems in Chickasaw County. Street flooding and water in basements was reported in Nashua and Lawler. Secondary roads over the southern part of Chickasaw County also suffered some damage.

MINNESOTA, Southeast

DODGE COUNTY --- 2.0 NW WEST CONCORD [44.17, -92.93]				
	06/05/13 16:35 CST		0	Funnel Cloud
	06/05/13 16:35 CST		0	Source: Emergency Manager

A funnel cloud was sighted northwest of West Concord.

DODGE COUNTY --- 4.0 WNW WEST CONCORD [44.18, -92.97]				
	06/05/13 16:42 CST		0	Tornado (EF0, L: 0.01 mi , W: 5 yd)
	06/05/13 16:42 CST		0	Source: Trained Spotter

A tornado briefly touched down west of West Concord. The tornado was not on the ground long enough to produce any damage.

Showers and a few thunderstorms developed during the late afternoon of June 5th along a nearly stationary cold front. Some of this activity produced funnel clouds and a brief tornado touchdown west of West Concord (Dodge County). The tornado was not on the ground long enough to produce any damage.

MOWER COUNTY --- 1.0 E DEXTER [43.72, -92.70]				
	06/07/13 18:45 CST		0	Funnel Cloud
	06/07/13 18:45 CST		0	Source: Broadcast Media

A funnel cloud was spotted near Dexter.

MOWER COUNTY --- DEXTER [43.72, -92.72]				
	06/07/13 19:10 CST		0	Funnel Cloud
	06/07/13 19:10 CST		0	Source: Broadcast Media

Another funnel cloud was spotted near Dexter.

Isolated weak showers developed during the evening of June 7th over southeast Minnesota along a nearly stationary trough of low pressure. Conditions were favorable for funnel clouds to develop despite the showers being very weak. No touchdowns were reported.

MOWER COUNTY --- 0.7 ENE AUSTIN [43.67, -92.92]				
	06/12/13 02:50 CST		20K	Lightning
	06/12/13 04:00 CST		0	Source: Broadcast Media

A lightning strike from an early morning thunderstorm destroyed the garage at a home on the east side of Austin.

A lightning strike from early morning thunderstorms on June 12th in the Austin area (Mower County) caused a garage to start on fire. No injuries occurred in the fire, but the garage was destroyed.

FILLMORE COUNTY --- 2.8 N AMHERST [43.66, -91.93]				
	06/12/13 17:10 CST		0	Hail (1.75 in)
	06/12/13 17:10 CST		0	Source: Public

Ping pong ball sized hail was reported south of Whalan.

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Severe thunderstorms rolled across southeast Minnesota during the late afternoon of June 12th. These storms developed ahead of an area of low pressure that was moving east across the Upper Midwest. The storms produced ping pong sized hail south of Whalan (Fillmore County).

OLMSTED COUNTY --- 2.1 WSW LAIRD [43.96, -92.27]

	06/18/13 08:50 CST	0	0	Funnel Cloud
	06/18/13 08:50 CST	0	0	Source: Trained Spotter

Small wispy funnel clouds from some showers were sighted southwest of Eyota.

Showers formed across southeast Minnesota during the morning of June 18th behind a cold front that had moved through the region. A few funnel clouds were seen with the showers near Eyota (Olmsted County).

WABASHA COUNTY --- 2.0 S KELLOGG [44.29, -92.00]

	06/21/13 04:31 CST	0	0	Hail (0.75 in)
	06/21/13 04:31 CST	0	0	Source: Trained Spotter

OLMSTED COUNTY --- 1.5 SSW ROCHESTER [44.01, -92.48]

	06/21/13 04:45 CST	0	0	Hail (0.88 in)
	06/21/13 04:45 CST	0	0	Source: Trained Spotter

OLMSTED COUNTY --- 0.9 NW STEWARTVILLE [43.86, -92.49]

	06/21/13 04:52 CST	0	0	Hail (0.75 in)
	06/21/13 04:52 CST	0	0	Source: Social Media

OLMSTED COUNTY --- 2.8 S ROCHESTER [43.99, -92.46]

	06/21/13 05:00 CST	0	0	Hail (0.75 in)
	06/21/13 05:00 CST	0	0	Source: Broadcast Media

Thunderstorms that developed over northwest Minnesota during the evening of June 20th, moved across southeast Minnesota during the early morning hours of the 21st. These storms produced large hail and gusty winds.

OLMSTED COUNTY --- 1.5 SSW ROCHESTER [44.01, -92.48]

	06/22/13 01:55 CST	5K	0	Thunderstorm Wind (EG 55 kt)
	06/22/13 01:55 CST	0	0	Source: Law Enforcement

At least two large trees were blown down on roads and a shed was blown off its foundation on the northwest side of Rochester. On the southwest side of the city, widespread power outages occurred.

OLMSTED COUNTY --- 0.6 NE ROCHESTER [44.03, -92.46]

	06/22/13 02:00 CST	10K	0	Lightning
	06/22/13 03:00 CST	0	0	Source: Broadcast Media

The corner of a house on the northeast side of Rochester was started on fire by a lightning strike.

OLMSTED COUNTY --- 0.7 N EYOTA [43.99, -92.23]

	06/22/13 02:10 CST	2K	0	Thunderstorm Wind (EG 55 kt)
	06/22/13 02:10 CST	0	0	Source: Law Enforcement

Power lines were blown down in Eyota.

WINONA COUNTY --- 0.4 SW THE ARCHES [44.00, -91.83]

	06/22/13 02:37 CST	2K	0	Thunderstorm Wind (EG 50 kt)
	06/22/13 02:37 CST	0	0	Source: Law Enforcement

Trees were blown down east of Lewiston along U.S. Highway 14.

OLMSTED COUNTY --- 3.7 NW ROCHESTER [44.06, -92.53], 2.9 WNW ROCHESTER [44.04, -92.53], 1.5 SE ROCHESTER [44.02, -92.45], 1.3 ESE ROCHESTER [44.02, -92.45]

	06/22/13 03:00 CST	0	0	Flood (due to Heavy Rain)
	06/22/13 04:00 CST	0	0	Source: Public

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Locally heavy rains produced street flooding on the northwest and southeast sides of Rochester.

Thunderstorms that developed over western Minnesota during the evening of June 21st, rolled across southeast Minnesota before sunrise on the 22nd. These storms produced high winds and heavy rains. Trees were blown down and a shed moved off its foundation in Rochester (Olmsted County) while more trees were blown down near Lewiston (Winona County). The heavy rain produced street flooding in Rochester.

HOUSTON COUNTY --- 2.9 SSW WILLINGTON [43.51, -91.57]

06/22/13 02:00 CST	0	Heavy Rain
06/23/13 02:00 CST	0	Source: Public

Southeast of Spring Grove, 4.5 inches of rain fell during the evening of the 22nd. This brought the total rainfall since June 21st to 11.5 inches.

FILLMORE COUNTY --- 3.0 E WHALAN [43.73, -91.87]

06/22/13 02:45 CST	0	Heavy Rain
06/23/13 02:45 CST	0	Source: Fire Department/Rescue

East of Whalan, 4.25 inches of rain was reported.

WINONA COUNTY --- 1.6 ENE WINONA MUNI ARPT [44.09, -91.67]

06/22/13 05:00 CST	0	Heavy Rain
06/23/13 05:00 CST	0	Source: COOP Observer

The COOP observer at the Winona Lock and Dam reported 3.05 inches of rain.

FILLMORE COUNTY --- 2.4 SW CHOICE [43.65, -91.84]

06/22/13 06:00 CST	0	Heavy Rain
06/23/13 06:00 CST	0	Source: COOP Observer

The COOP observer southwest of Choice reported 4.26 inches of rain.

HOUSTON COUNTY --- 2.6 ESE BLACK HAMMER [43.61, -91.62]

06/22/13 06:00 CST	0	Heavy Rain
06/23/13 06:00 CST	0	Source: COOP Observer

The COOP observer north of Spring Grove reported 5.01 inches of rain.

FILLMORE COUNTY --- 1.5 E TAWNEY [43.62, -91.77]

06/22/13 10:26 CST	0	Heavy Rain
06/23/13 10:26 CST	0	Source: Public

Southeast of Lanesboro, 4.2 inches of rain was reported.

OLMSTED COUNTY --- 3.1 SSW ROCHESTER [43.99, -92.49]

06/22/13 17:15 CST	0	Hail (1.00 in)
06/22/13 17:15 CST	0	Source: Social Media

Quarter sized hail fell in the southwest part of Rochester.

FILLMORE COUNTY --- 0.9 NE HARMONY [43.56, -92.01]

06/22/13 20:00 CST	0	Heavy Rain
06/23/13 06:00 CST	0	Source: Public

In Harmony, 4 inches of rain was reported.

HOUSTON COUNTY --- HOUSTON [43.77, -91.57], 1.0 NNE MOUND PRAIRIE [43.79, -91.44], 0.3 NNW HOKAH [43.77, -91.33], 7.1 E EITZEN [43.50, -91.33], 1.3 S NEWHOUSE [43.50, -91.72], 3.6 W PERKINS [43.79, -91.72]

06/22/13 23:13 CST	7.10M	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0.70M	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Very heavy rain caused widespread flash flooding across a good portion of Houston County. Roads around the town of Houston became covered with water and impassable. Rapidly rising water along Riceford Creek caused a campground to be evacuated. A mudslide occurred just outside of Spring Grove. Numerous other roads around the county sustained damage, including County Highway 27 which had a complete section washed out. State Highway 16 east of Houston, State Highway 76 between Caledonia and Houston and County Highway 43 along with numerous other county roads were closed along with at least 20 township roads. In the western part of the county, one vehicle was swept off a road and the driver had to be rescued and at least three campers and a 73 foot mobile home were washed down Crystal Creek. In Hokah, the Root River rise high enough to top the levee requiring a local auto dealership to move about 60 cars to save them from the water. The flooding washed away a gravel road and two walking bridges at Camp Winnebago near Caledonia.</p>				

WINONA COUNTY --- 0.4 WNW WHITMAN [44.15, -91.81], 0.3 NW WHITMAN [44.15, -91.80], 0.1 NW WHITMAN [44.15, -91.80], 0.1 W WHITMAN [44.15, -91.80]

06/22/13 23:14 CST	7K	Flash Flood (due to Heavy Rain)
06/23/13 01:15 CST	0	Source: Law Enforcement

Heavy rain caused a mud slide southeast of Minneiska. The mud slide took down some trees, one of which went across U.S. Highway 61 and blocked a lane of traffic.

FILLMORE COUNTY --- 3.0 E FILLMORE [43.75, -92.21], 2.8 WNW PILOT MOUND [43.84, -92.08], 2.6 NE RUSHFORD [43.85, -91.73], 2.8 ESE MABEL [43.50, -91.73], 8.3 S OSTRANDER [43.50, -92.45], 1.0 WSW OSTRANDER [43.62, -92.45]

06/23/13 00:08 CST	3.50M	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

Heavy rain produced widespread flash flooding across the eastern half of Fillmore County. Mahoney Creek north of Lanesboro quickly came out of its banks sending water over State Highway 250. The South Branch of the Root River also rose rapidly causing a campground in Lanesboro to be evacuated and destroyed about a dozen RV's. Rescues were needed east of Whalan as numerous small creeks in the area flooded. Bridges were washed out on County Highway 23 and State Highway 43 near Choice, where a family was also stranded by flood water. The state fish hatchery near Lanesboro was inundated by flood waters which killed several fish and allowed the different species of trout to swim together. Workers spent many hours repairing the tubs used to store the fish in along with scooping up and sorting the fish the survived.

MOWER COUNTY --- 3.8 ESE LE ROY [43.50, -92.45], 3.6 SSE TAOPI [43.50, -92.63], 2.7 NNE TAOPI [43.59, -92.63], 5.4 SSE RACINE [43.71, -92.45]

06/23/13 01:14 CST	0	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

Heavy rain produced flash flooding over the southeast corner of Mower County. Rapidly rising water from the Upper Iowa River covered State Highway 56 near Le Roy.

FILLMORE COUNTY --- 0.9 SSW PRESTON [43.67, -92.08], 0.9 SSW PRESTON [43.67, -92.08], 0.9 S PRESTON [43.67, -92.08], 0.8 S PRESTON [43.67, -92.08], 0.7 S PRESTON [43.67, -92.08], 0.7 S PRESTON [43.67, -92.08], 0.9 S PRESTON [43.67, -92.08], 1.0 S PRESTON [43.67, -92.08]

06/23/13 02:20 CST	0	Flood (due to Heavy Rain)
06/23/13 06:20 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the South Branch of the Root River out of its banks in Preston. The river crested around a half foot over flood stage at 937.61 feet.

FILLMORE COUNTY --- 0.9 SSW LANESBORO [43.71, -91.98], 0.7 S LANESBORO [43.71, -91.98], 0.2 SE LANESBORO [43.72, -91.98], 0.3 NNE LANESBORO [43.72, -91.98], 0.5 ENE LANESBORO [43.72, -91.97], 0.6 ENE LANESBORO [43.72, -91.97], 0.4 NNE LANESBORO [43.73, -91.98], 0.3 N LANESBORO [43.72, -91.98]

06/23/13 05:50 CST	0	Flood (due to Heavy Rain)
06/23/13 12:45 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the South Branch of the Root River out of its banks in Lanesboro. The river crested almost two feet over flood stage at 13.76 feet.

WINONA COUNTY --- 4.9 NNW ST CHARLES [44.04, -92.11], 4.8 NNW ST CHARLES [44.04, -92.10], 4.8 NNW ST CHARLES [44.04, -92.10], 4.7 NNW ST CHARLES [44.04, -92.10], 4.7 NNW ST CHARLES [44.04, -92.11], 4.9 NNW ST CHARLES [44.04, -92.11]

06/25/13 03:50 CST	0	Flood (due to Heavy Rain)
06/25/13 07:25 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Whitewater River out of its banks in the Whitewater State Park. The river crested less than a half foot over flood stage at 13.95 feet.

Several rounds of thunderstorms with very heavy rain rolled across southeast Minnesota during the late afternoon and evening of June 22nd. The heavy rain produced widespread flash flooding across much of Houston County into the eastern sections of Fillmore County. Numerous roads were washed out or covered with water which caused extensive damage, requiring the roads to be closed. The rapid

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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rise of water on Riceford Creek northwest of Spring Grove (Houston County) forced the evacuation of a campground while a family was stranded in Choice (Fillmore County) as the South Fork of the Root River rose out of its banks. A campground near Caledonia (Houston County) that serves adults with disabilities lost a gravel road and two walking bridges and had to close a low portion of the campground for an extended period of time. The states largest fish hatchery near Lanesboro (Fillmore County) was hit hard by the flooding. The ponds of water that separated the fish by species were inundated by flood waters allowing the different species of fish to freely swim together. Some fish were killed while others were left flailing in muddy pools of water. Workers spent numerous hours scooping up and sorting the fish that survived. The Governor of Minnesota declared a state of emergency for Houston, Fillmore and Winona Counties. FEMA declared a federal disaster area for the following counties: Houston and Fillmore.

WISCONSIN, Southwest

TREMPEALEAU COUNTY --- 1.9 W PINE CREEK [44.13, -91.56], 1.6 W PINE CREEK [44.13, -91.55], 1.6 W PINE CREEK [44.13, -91.55], 1.6 W PINE CREEK [44.13, -91.55], 1.9 W PINE CREEK [44.13, -91.56]

06/01/13 08:45 CST	0	Flood (due to Heavy Rain)
06/04/13 18:45 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Trempealeau River out of its banks in Dodge. The river crested almost a foot over flood stage at 9.96 feet.

TREMPEALEAU COUNTY --- 1.5 S BUTMAN CORNERS [44.06, -91.28], 1.2 S BUTMAN CORNERS [44.06, -91.28], 1.1 S BUTMAN CORNERS [44.06, -91.28], 1.3 S BUTMAN CORNERS [44.06, -91.28], 1.6 SW BUTMAN CORNERS [44.07, -91.31], 1.9 SW BUTMAN CORNERS [44.06, -91.31], 1.7 SW BUTMAN CORNERS [44.06, -91.31]

06/01/13 14:15 CST	0	Flood (due to Heavy Rain)
06/02/13 16:30 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Black River out of its banks near Galesville. The river crested around a half foot over flood stage at 12.59 feet.

Thunderstorms with heavy rain moved across portions of western Wisconsin early in the month of June. The runoff from these storms caused some river flooding to occur along the Trempealeau and Black Rivers.

RICHLAND COUNTY --- 0.7 N PORT ANDREW [43.21, -90.57]

06/12/13 15:40 CST	0	Thunderstorm Wind (EG 52 kt)
06/12/13 15:40 CST	0	Source: Amateur Radio

An estimated 60 mph wind gust occurred in Port Andrew.

GRANT COUNTY --- 0.9 NW BOSCOBEL [43.14, -90.71], 1.0 NE BOSCOBEL [43.14, -90.69], 0.4 SE BOSCOBEL [43.13, -90.70], 0.8 WSW BOSCOBEL [43.13, -90.71]

06/12/13 16:08 CST	0	Flood (due to Heavy Rain)
06/12/13 18:15 CST	0	Source: Trained Spotter

Locally heavy rain caused some street flooding in Boscobel.

Severe thunderstorms rolled across southwest Wisconsin during the afternoon of June 12th. These storms developed ahead of an area of low pressure that was moving east across the Upper Midwest. The storms produced a 60 mph wind gust in Port Andrew (Richland County) and some street flooding in Boscobel (Grant County).

BUFFALO COUNTY --- 0.5 E MONDOVI [44.57, -91.67]

06/21/13 04:07 CST	3K	Thunderstorm Wind (EG 50 kt)
06/21/13 04:07 CST	0	Source: Emergency Manager

Trees and power lines were blown down in Mondovi.

TREMPEALEAU COUNTY --- 0.9 SE TREMPEALEAU [43.99, -91.42]

06/21/13 05:00 CST	3K	Thunderstorm Wind (EG 55 kt)
06/21/13 05:00 CST	0	Source: Public

Trees and power poles were blown down near Lock and Dam 6 in Trempealeau.

LA CROSSE COUNTY --- 1.9 SSW COUNCIL BAY [44.03, -91.30]

06/21/13 05:12 CST	0	Hail (0.75 in)
06/21/13 05:12 CST	0	Source: NWS Employee

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LA CROSSE COUNTY --- 1.8 WNW (LSE)LA CROSSE MUNI [43.89, -91.28]				
	06/21/13 05:14 CST		1K	Thunderstorm Wind (EG 55 kt)
	06/21/13 05:14 CST		0	Source: Public
A pontoon boat was flipped upside down on Lake Onalaska.				
MONROE COUNTY --- 0.7 N TOMAH [43.99, -90.50]				
	06/21/13 05:20 CST		0	Hail (0.88 in)
	06/21/13 05:20 CST		0	Source: Amateur Radio
LA CROSSE COUNTY --- 1.0 E LA CROSSE [43.80, -91.23]				
	06/21/13 05:23 CST		1K	Thunderstorm Wind (EG 50 kt)
	06/21/13 05:23 CST		0	Source: Public
Trees and large branches were blown down in the city of La Crosse.				
VERNON COUNTY --- 0.5 W WESTBY [43.65, -90.86]				
	06/21/13 05:52 CST		3K	Thunderstorm Wind (EG 60 kt)
	06/21/13 05:52 CST		0	Source: Law Enforcement
Trees and power lines were blown down in Westby.				
LA CROSSE COUNTY --- 1.5 S WEST LA CROSSE [43.83, -91.25], 2.0 NE LA CROSSE [43.82, -91.22], 1.3 NNE CALVERT [43.77, -91.21], 0.7 S LA CROSSE [43.79, -91.25]				
	06/21/13 06:30 CST		0	Flood (due to Heavy Rain)
	06/21/13 08:30 CST		0	Source: Broadcast Media
Locally heavy rain caused street flooding to occur in several locations across the city of La Crosse.				
GRANT COUNTY --- 0.9 SE BOSCOBEL ARPT [43.16, -90.67]				
	06/21/13 06:31 CST		1K	Thunderstorm Wind (MG 50 kt)
	06/21/13 06:31 CST		0	Source: ASOS
The automatic weather observing equipment at the Boscobel airport measured a wind gust of 58 mph. Trees were blown down in Boscobel from this wind gust.				
CRAWFORD COUNTY --- 1.0 N PRAIRIE DU CHIEN [43.06, -91.15], 1.3 NE PRAIRIE DU CHIEN [43.06, -91.14], 0.3 SE CRAWFORD [43.03, -91.13], 0.7 WSW CRAWFORD [43.03, -91.14]				
	06/21/13 06:35 CST		0	Flash Flood (due to Heavy Rain)
	06/21/13 06:35 CST		0	Source: NWS Employee
Roads in Prairie du Chien were closed as runoff from locally heavy rains produced flooding.				
GRANT COUNTY --- 0.6 NE MUSCODA [43.19, -90.44]				
	06/21/13 06:42 CST		2K	Thunderstorm Wind (EG 60 kt)
	06/21/13 06:42 CST		0	Source: Law Enforcement
Several trees were blown down in Muscodia.				
VERNON COUNTY --- 1.1 NNW CHASEBURG [43.66, -91.11], 1.4 NE WESTBY [43.67, -90.83], 1.1 ESE VIROQUA [43.54, -90.86], 1.7 WSW VIROQUA [43.54, -90.91], 1.0 SW CHASEBURG [43.64, -91.12]				
	06/21/13 07:00 CST		0	Flood (due to Heavy Rain)
	06/21/13 09:00 CST		0	Source: Law Enforcement
Locally heavy rain produced street flooding in Chaseburg, Westby and Viroqua.				
VERNON COUNTY --- 0.9 SSW GENOA [43.57, -91.23], 0.9 SSW GENOA [43.57, -91.23], 1.0 SSW GENOA [43.57, -91.23], 1.1 SSW GENOA [43.57, -91.23]				
	06/21/13 07:05 CST		2K	Flash Flood (due to Heavy Rain)
	06/21/13 09:00 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A minor mud slide just south of Genoa covered part of State Highway 35.				
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LA CROSSE COUNTY --- 0.9 SW HOLMEN [43.96, -91.26]	06/21/13 07:13 CST		2K	Lightning
	06/21/13 07:13 CST		0	Source: Social Media
A couple of power poles were struck by lightning in Holmen.				
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GRANT COUNTY --- 2.3 NNE BRODTVILLE [42.98, -90.99], 2.3 NE BRODTVILLE [42.97, -90.99], 2.1 NE BRODTVILLE [42.97, -90.99], 2.1 NNE BRODTVILLE [42.98, -91.00]	06/21/13 07:24 CST		0	Flood (due to Heavy Rain)
	06/21/13 09:00 CST		0	Source: Emergency Manager
Locally heavy rain caused some water to go over State Highway 35 near Patch Grove.				
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GRANT COUNTY --- 0.7 N PLATTEVILLE [42.74, -90.48]	06/21/13 07:25 CST		2K	Thunderstorm Wind (EG 50 kt)
	06/21/13 07:25 CST		0	Source: Law Enforcement
Several trees were blown down in Platteville.				
<p>Thunderstorms that developed over northwest Minnesota during the evening of June 20th, moved across western Wisconsin during the early morning hours of the 21st. These storms produced large hail and winds strong enough to cause damage. Trees were blown down in the city of La Crosse (La Crosse County) and a pontoon boat was flipped by the high winds on Lake Onalaska (La Crosse County). Most of the hail that fell was penny to nickel sized. Locally heavy rain caused street flooding to occur in the city of La Crosse and a minor mud slide south of Genoa (Vernon County) that covered part of State Highway 35.</p>				
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GRANT COUNTY --- 5.6 S MUSCODA [43.10, -90.43]	06/21/13 05:26 CST		0	Heavy Rain
	06/22/13 05:26 CST		0	Source: Public
South of Muscoda, 5.4 inches of rain was reported.				
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CRAWFORD COUNTY --- 0.7 N MT ZION [43.26, -90.73]	06/21/13 06:00 CST		0	Heavy Rain
	06/22/13 06:00 CST		0	Source: Amateur Radio
In Mt. Zion, 3 inches of rain was reported.				
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CRAWFORD COUNTY --- 0.5 W STEUBEN [43.18, -90.86]	06/21/13 06:26 CST		0	Heavy Rain
	06/22/13 06:26 CST		0	Source: COOP Observer
The COOP observer near Stueben reported 6.47 inches of rain.				
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GRANT COUNTY --- 0.7 N BOSCOBEL [43.14, -90.70]	06/21/13 06:26 CST		0	Heavy Rain
	06/22/13 06:26 CST		0	Source: Park/Forest Service
The mesonet observing equipment in Boscobel measured 7.79 inches of rain.				
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CRAWFORD COUNTY --- 1.4 N BOYDTOWN [43.14, -90.80]	06/21/13 23:00 CST		0	Heavy Rain
	06/22/13 02:53 CST		0	Source: COOP Observer
The COOP observer northeast of Wauzeka reported 3.1 inches of rain bringing the total to over 4 inches in the past 24 hours.				
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GRANT COUNTY --- 1.2 WNW BOSCOBEL [43.13, -90.72], 1.9 W MILLVILLE [43.03, -90.97], 1.1 N BAGLEY [42.91, -91.12], 1.5 ESE BAGLEY [42.89, -91.09], 4.0 NE FENNIMORE [43.02, -90.59], 4.4 N CASTLE ROCK [43.11, -90.53], 1.7 NE BLUE RIVER [43.20, -90.55]	06/22/13 02:00 CST		7.10M	Flash Flood (due to Heavy Rain)
	06/22/13 06:30 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Very heavy rain produced flash flooding across the northeast part of Grant County. In Boscobel, numerous houses became surrounded by water with evacuations needed, most streets were flooded and cars were under water. 650 homes were impacted by the flood waters with two dozen families displaced. County Roads M and S near Boscobel were impassable due to high water and several other county roads between Blue River and Fennimore were covered with water and impassable. Portions of County Road C southwest of Woodman were under water. The flooding washed out sections of State Highway 133 outside of Woodman and Blue River. Debris was washed down Glass Hollow and Dry Hollow Creeks where it became lodged across railroad bridges in Bagley producing flooding in the town. The railroad tracks through Woodman were washed out. Flooding debris blocked some roads around Patch Grove. 54 canoeists had to be rescued from the Wisconsin River because of rising water.</p>				
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GRANT COUNTY --- 0.7 N BOSCOBEL [43.14, -90.70]				
	06/22/13 02:43 CST		0	Hail (0.88 in)
	06/22/13 02:43 CST		0	Source: Law Enforcement
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CRAWFORD COUNTY --- 3.9 SE MT ZION [43.21, -90.67], 5.2 SE PLUGTOWN [43.17, -90.67], 4.4 SE PLUGTOWN [43.17, -90.70], 3.0 WSW WAUZEKA [43.07, -90.94], 1.5 SW PRAIRIE DU CHIEN ARP [43.00, -91.14], 1.1 NNW PRAIRIE DU CHIEN [43.06, -91.16], 2.1 SSW CHARME [43.14, -91.14], 0.5 SW LYNXVILLE [43.24, -91.06]				
	06/22/13 03:54 CST		4.30M	Flash Flood (due to Heavy Rain)
	06/22/13 09:30 CST		0	Source: Law Enforcement
<p>Locally heavy rain produced flash flooding across portions of Crawford County. Water covered roads in the Steuben area. Mudslides occurred that closed U.S. Highway 61 and State Highway 60 in the southeast part of the county. Other mudslides closed State Highway 35 between Lynxville and Prairie du Chien. Numerous streets and basements were flooded in Prairie du Chien. Homes and businesses were evacuated in Gays Mills and Stueben ahead of the expected flooding along the Kickapoo River.</p>				
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LA CROSSE COUNTY --- 0.9 SW HOLMEN [43.96, -91.26]				
	06/22/13 05:00 CST		10K	Lightning
	06/22/13 05:00 CST		0	Source: Public
<p>A house in Holmen was struck by lightning. The electrical box, some windows and the roof were damaged.</p>				
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RICHLAND COUNTY --- 1.3 SW TRAVERA [43.26, -90.67], 0.4 NNW PORT ANDREW [43.21, -90.57], 2.3 SW WESTPORT [43.17, -90.66], 2.6 SW WESTPORT [43.17, -90.66]				
	06/22/13 08:16 CST		0	Flash Flood (due to Heavy Rain)
	06/22/13 09:30 CST		0	Source: Emergency Manager
<p>Locally heavy rain produced flash flooding across mainly the far southwest part of Richland County. Knapp Creek and numerous other small streams were out of their banks with County Road F flooded south of Excelsior.</p> <p>A nearly stationary band of thunderstorms developed across southwest Wisconsin during the evening of June 21st. These storms remained in place until another line of storms pushed in from the west during the early morning hours of the 22nd. Rainfall amounts exceeded six inches with flash flooding reported in parts of Crawford, Grant and Richland Counties. The area in and around Boscobel (Grant County) was hit extremely hard by the flooding. 650 homes were impacted by the flooding with two dozen families displaced, most homes had basements full of water with some having the water reach the first level. Roads in the region had numerous washouts and some bridges were blown out. Rescue crews had to save 54 canoeists who became stranded on the Wisconsin River due to rising waters.</p>				
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RICHLAND COUNTY --- 0.7 N RICHLAND CENTER [43.34, -90.38]				
	06/21/13 22:39 CST		0	Heavy Rain
	06/22/13 22:39 CST		0	Source: Public
<p>In Richland Center, 3.1 inches of rain was reported.</p>				
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VERNON COUNTY --- 0.7 N DE SOTO [43.43, -91.20]				
	06/22/13 02:00 CST		0	Heavy Rain
	06/23/13 02:00 CST		0	Source: Trained Spotter
<p>In De Soto, 3.77 inches of rain was reported.</p>				
<hr/>				
CRAWFORD COUNTY --- 1.2 WNW STEUBEN [43.19, -90.87], 1.3 WNW STEUBEN [43.19, -90.87], 0.8 W STEUBEN [43.18, -90.87], 0.1 E STEUBEN [43.18, -90.85], 0.3 ENE STEUBEN [43.18, -90.84], 0.3 NE STEUBEN [43.18, -90.85], 1.0 WNW STEUBEN [43.19, -90.87]				
	06/22/13 04:45 CST		0	Flood (due to Heavy Rain)
	06/29/13 10:20 CST		0	Source: River/Stream Gage

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Runoff from heavy rain pushed the Kickapoo River out of its banks in Steuben. The river crested over two feet above the flood stage at 14.19 feet.

CRAWFORD COUNTY --- 3.1 NNE CHARME [43.21, -91.10]

06/22/13 05:00 CST	0	Heavy Rain
06/23/13 05:00 CST	0	Source: COOP Observer

The COOP observer at the Lynxville Lock and Dam reported 3.87 inches of rain.

VERNON COUNTY --- 0.9 SW GENOA [43.57, -91.23]

06/22/13 05:00 CST	0	Heavy Rain
06/23/13 05:00 CST	0	Source: COOP Observer

The COOP observer at the Genoa Lock and Dam reported 3.2 inches of rain.

CRAWFORD COUNTY --- 0.9 SW SOLDIERS GROVE [43.39, -90.78]

06/22/13 05:20 CST	0	Heavy Rain
06/23/13 05:20 CST	0	Source: COOP Observer

The COOP observer in Soldiers Grove reported 3.93 inches of rain.

CRAWFORD COUNTY --- 0.5 E DE SOTO [43.42, -91.19]

06/22/13 06:00 CST	0	Heavy Rain
06/23/13 06:00 CST	0	Source: COOP Observer

The COOP observer near De Soto reported 3.62 inches of rain.

TREMPEALEAU COUNTY --- ETRICK [44.17, -91.27]

06/22/13 18:35 CST	3K	Thunderstorm Wind (EG 50 kt)
06/22/13 18:35 CST	0	Source: Broadcast Media

Numerous trees and power lines were blown down in Ettrick.

TREMPEALEAU COUNTY --- 1.3 NW GALESVILLE [44.09, -91.37], 2.0 WSW FRENCHVILLE [44.14, -91.36], 1.1 WSW FRENCHVILLE [44.14, -91.34], 2.2 NNE GALESVILLE [44.11, -91.34], 1.0 N GALESVILLE [44.09, -91.35]

06/22/13 18:50 CST	0	Flash Flood (due to Heavy Rain)
06/22/13 21:00 CST	0	Source: Emergency Manager

Locally heavy rain pushed small creeks out of their banks across southern Trempealeau County. Water over the road caused County Highway T to be closed in several locations north of Galesville.

CRAWFORD COUNTY --- 3.1 NNW BELL CENTER [43.32, -90.85], 2.6 NNW BELL CENTER [43.31, -90.85], 2.7 NW BELL CENTER [43.31, -90.85], 3.3 NNW BELL CENTER [43.32, -90.85], 3.2 NNW BELL CENTER [43.32, -90.85], 3.3 NNW BELL CENTER [43.32, -90.85], 3.2 NNW BELL CENTER [43.32, -90.85]

06/22/13 19:30 CST	0	Flood (due to Heavy Rain)
06/28/13 00:00 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Kickapoo River out of its banks in Gays Mills. The river crested around three and a half feet over flood stage at 16.63 feet.

RICHLAND COUNTY --- 0.6 SSE LONE ROCK [43.17, -90.19], 1.8 SSE WOODSTOCK [43.45, -90.42], 2.6 NNW SYLVAN [43.45, -90.66], 1.9 SSW WESTPORT [43.17, -90.65], 1.1 W PORT ANDREW [43.20, -90.59], 0.9 S GOTHAM [43.21, -90.30]

06/22/13 20:47 CST	0.29M	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

Heavy rain produced flash flooding across the southwest half of Richland County. Numerous streams were forced out of their banks with water reported over County Highway JJ between Gotham and Lone Rock, State Highway 56 near Gillingham and the intersection of County Highways O and OO near Richland Center. Mud slides closed County Highway O northwest of Gotham. State Highway 60 between Gotham and the Crawford County line southwest of Westport was closed by a mudslide with other damage reducing the road to one lane at times.

CRAWFORD COUNTY --- 3.4 SE FERRYVILLE [43.31, -91.05], 0.4 SE DE SOTO [43.42, -91.19], 1.8 SSE REED [43.36, -91.01], 3.4 SSW STEUBEN [43.13, -90.87], 1.4 E WAUZEKA [43.08, -90.85], 0.3 N PRAIRIE DU CHIEN [43.05, -91.15], 1.5 NNE CHARME [43.19, -91.12]

06/22/13 21:35 CST	0	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Broadcast Media

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Heavy rain caused mud slides to occur closing State Highway 35 in several places north of Prairie du Chien to the Vernon County line just south of De Soto. High water covered State Highway 131 between Wauzeka and Stueben.				

VERNON COUNTY --- 0.8 NNW DE SOTO [43.43, -91.21], 1.3 S VICTORY [43.46, -91.22], 0.5 WNW GENOA [43.58, -91.23], 1.5 NNE CHASEBURG [43.67, -91.08], 1.7 ESE READSTOWN [43.44, -90.74]

06/22/13 21:55 CST	0.50M	Flash Flood (due to Heavy Rain)
06/23/13 06:00 CST	0	Source: Law Enforcement

Heavy rain produced flash flooding across the southwest sections of Vernon County. High water went over State Highway 162 near Chaseburg. Flash flooding was reported around Genoa where a boulder the size of a dump truck slid off a bluff and on to State Highway 56. Streams that drained into the Kickapoo River around Readstown were out of their banks.

VERNON COUNTY --- 0.4 NE READSTOWN [43.45, -90.76], 0.3 ENE READSTOWN [43.45, -90.76], 0.2 E READSTOWN [43.45, -90.77], 0.4 SE READSTOWN [43.44, -90.77], 0.5 SE READSTOWN [43.44, -90.76], 0.3 E READSTOWN [43.45, -90.76], 0.4 ENE READSTOWN [43.45, -90.76], 0.5 NE READSTOWN [43.45, -90.76]

06/22/13 22:55 CST	0	Flood (due to Heavy Rain)
06/26/13 14:30 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Kickapoo River out of its banks twice in Readstown. The first event occurred from late in the evening of the 22nd into the afternoon of the 24th with a crest of almost a foot and a half over flood stage at 12.4 feet. The second event occurred from the early morning of the 25th to the afternoon of the 26th with a crest once again almost a foot and a half above the flood stage at 12.38 feet.

CRAWFORD COUNTY --- 0.5 SSW SOLDIERS GROVE [43.39, -90.77], 0.5 SSW SOLDIERS GROVE [43.39, -90.78], 0.5 SW SOLDIERS GROVE [43.40, -90.78], 0.4 SW SOLDIERS GROVE [43.40, -90.78], 0.5 WSW SOLDIERS GROVE [43.40, -90.78], 0.4 SW SOLDIERS GROVE [43.40, -90.78], 0.5 SW SOLDIERS GROVE [43.39, -90.78], 0.5 SSW SOLDIERS GROVE [43.39, -90.77]

06/23/13 00:00 CST	0	Flood (due to Heavy Rain)
06/26/13 16:50 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Kickapoo River out of its banks twice in Soldiers Grove. The first event occurred from the early morning of the 23rd to the morning of the 24th with a crest around a foot over flood stage at 14.06 feet. The second event occurred from the afternoon of the 24th to the afternoon of the 26th with a crest just under a foot above flood stage at 13.92 feet.

For the second night in a row, thunderstorms with very heavy rain rolled across southwest Wisconsin producing widespread flash flooding during the evening of June 22nd. At least three rounds of thunderstorms moved across the area dumping another 3 to 4 inches of rain on ground that was saturated from heavy rains that fell less than 24 hours before. Numerous mud slides occurred in Richland and Crawford Counties causing state and county highways to be closed. The Governor of Wisconsin declared a state of emergency following the flooding in Crawford, Grant and Richland Counties. FEMA declared a federal disaster area for the following counties: Crawford, Grant, Richland and Vernon.

CRAWFORD COUNTY --- 0.4 NNE PRAIRIE DU CHIEN ARP [43.03, -91.12], 1.0 WSW CRAWFORD [43.02, -91.15], 1.1 N PRAIRIE DU CHIEN [43.07, -91.15], 1.5 NE PRAIRIE DU CHIEN [43.07, -91.13], 4.8 SE PLUGTOWN [43.18, -90.67], 2.4 E BOYDTOWN [43.13, -90.75]

06/24/13 23:00 CST	0	Flash Flood (due to Heavy Rain)
06/25/13 01:00 CST	0	Source: Law Enforcement

Heavy rain produced street flooding in Prairie du Chien that caused some vehicles to become stalled. The automated weather observing equipment at the Prairie du Chien airport measured 1.71 inches of rain in less than two hours. A mudslide in the southern part of the county closed U.S. Highway 61 between State Highway 60 and Boscobel in Grant County. The slide was estimated to be 200 yards long.

GRANT COUNTY --- 1.5 ESE BAGLEY [42.89, -91.09], 1.0 ENE PATCH GROVE [42.93, -90.95], 2.2 NNE PATCH GROVE [42.96, -90.95], 1.0 N BAGLEY [42.91, -91.12]

06/24/13 23:28 CST	0	Flash Flood (due to Heavy Rain)
06/25/13 01:00 CST	0	Source: Law Enforcement

Heavy rain produced rapidly rising water in the Bagley area that forced the evacuation of one trailer home and caused water to go over County Highway X. Water also covered State Highway 35 in Patch Grove.

More thunderstorms with heavy rain moved across southwest Wisconsin during the evening of June 24th into the early morning hours of June 25th. The heavy rain produced yet more flash flooding that led to the evacuation of a trailer home near Bagley (Grant County). Many roads became covered with water in Crawford and Grant Counties.