

Storm Data and Unusual Weather Phenomena - March 2011

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

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]

	03/21/11 06:45 CST	0	Flood (due to Heavy Rain / Snow Melt)
	03/24/11 23:00 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Upper Iowa River near Dorchester out of its banks. The river exceeded the flood stage on the 21st and twice on the 24th. The highest crest was around a quarter of a foot above the flood stage at 14.22 feet.

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]

	03/21/11 17:00 CST	0	Flood (due to Heavy Rain / Snow Melt)
	03/25/11 10:00 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Cedar River at Charles City out of its banks. The river exceeded the flood stage from 21st into the 22nd and again from 23rd into the 25th. The highest crest was over three feet above the flood stage at 15.41 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]

	03/23/11 05:45 CST	0	Flood (due to Heavy Rain / Snow Melt)
	03/23/11 15:15 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Turkey River at Elkader out of its banks. The river exceeded the flood stage for a short period on the 23rd. The river crested less than a quarter of a foot over the flood stage at 12.14 feet.

The combination of melting snow and some rainfall pushed some northeast Iowa rivers out of their banks during the latter half of the month.

FLOYD COUNTY --- 0.9 SW NORA SPGS [43.14, -93.01]

	03/22/11 05:35 CST	0	Hail (1.00 in)
	03/22/11 05:35 CST	0	Source: COOP Observer

The hail covered the ground on the west side of Nora Springs.

FLOYD COUNTY --- 2.3 SSW CHARLES CITY [43.04, -92.72]

	03/22/11 18:08 CST	0	Hail (1.00 in)
	03/22/11 18:08 CST	0	Source: Trained Spotter

FLOYD COUNTY --- 0.7 S MARBLE ROCK [42.96, -92.87]

	03/22/11 18:12 CST	0	Hail (0.75 in)
	03/22/11 18:12 CST	0	Source: Public

Penny sized hail fell in Marble Rock.

CHICKASAW COUNTY --- 1.5 NNW LAWLER [43.09, -92.18]

	03/22/11 18:27 CST	0	Hail (0.75 in)
	03/22/11 18:27 CST	0	Source: Public

FAYETTE COUNTY --- 0.7 S WAUCOMA [43.06, -92.03]

	03/22/11 18:31 CST	0	Hail (0.88 in)
	03/22/11 18:31 CST	0	Source: Emergency Manager

A strong early spring storm system produced scattered thunderstorms across northeast Iowa during the early morning and evening hours of the 22nd. Some of these storms produced large hail and enough to cover the ground in Nora Springs (Floyd County).

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 NE MC GREGOR [43.02, -91.17], 0.8 NNE MC GREGOR [43.03, -91.17]

	03/28/11 08:00 CST	0	Flood (due to Heavy Rain / Snow Melt)
	03/31/11 23:59 CST	0	Source: River/Stream Gage

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The combination of rainfall and melting snow pushed the Mississippi River at McGregor out of its banks. The river exceeded the flood stage from the 28th through the end of the month. By the end of the month, the river was less than a half foot above the flood stage at 16.35 feet and was still rising.

The combination of melting snow and some rainfall pushed the Mississippi River out of its banks at some northeast Iowa locations toward the end of the month.

MINNESOTA, Southeast

(MN-Z087) OLMSTED

03/16/11 05:45 CST	10K	Winter Weather
03/16/11 07:30 CST	0	

Some light rain fell in the Rochester (Olmsted County) area during the afternoon of the 15th. As temperatures dropped below freezing during the early morning of the 16th, the left over moisture from the rain, combined with some light fog, froze to create some icy roads. A ten vehicle accident occurred near the intersection of U.S. Highway 63 and County Road 16 that prompted officials to shut down the northbound lanes of Highway 63 for a while. Only one minor injury occurred. At least 17 other minor accidents occurred around Olmsted County as well.

(MN-Z079) WABASHA

03/17/11 11:40 CST	5K	Dense Fog
03/17/11 12:30 CST	0	

State Highway 42 was shut down for around an hour near Plainview (Wabasha County) after a car and farm tractor collided. The driver of the car was attempting to cross Highway 42 and collided with the farm tractor, which was not visible due to fog. Both occupants of the car had non-life threatening injuries. The visibility at the Rochester airport was less than a quarter mile due to fog at the time of the accident.

MOWER COUNTY --- 3.1 W MAPLEVIEW [43.69, -93.04], 2.9 W MAPLEVIEW [43.69, -93.04], 2.9 W MAPLEVIEW [43.68, -93.04], 3.1 W MAPLEVIEW [43.69, -93.04]

03/20/11 13:30 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/24/11 04:45 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed Turtle Creek near Austin out of its banks. The creek exceeded the flood stage from the 20th into the 21st and again from the 23rd into the 24th. The highest crest was over a foot above the flood stage at 11.76 feet on the 23rd.

OLMSTED COUNTY --- 3.1 SSE LITTLE VLY [44.04, -92.11], 3.2 SSE LITTLE VLY [44.04, -92.10], 3.3 SSE LITTLE VLY [44.04, -92.10], 3.3 SSE LITTLE VLY [44.04, -92.10], 3.3 SSE LITTLE VLY [44.04, -92.11], 3.1 SSE LITTLE VLY [44.04, -92.11]

03/22/11 21:45 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/23/11 02:45 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Whitewater River in the Whitewater State Park out of its banks. The river exceeded the flood stage for a period from the 22nd into the 23rd. The river crested less than a half foot over the flood stage at 13.88 feet.

MOWER COUNTY --- 0.6 E LANSING [43.75, -92.96], 0.7 ESE LANSING [43.74, -92.96], 0.8 ESE LANSING [43.75, -92.96], 0.6 E LANSING [43.75, -92.96]

03/23/11 07:45 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/23/11 09:00 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Cedar River at Lansing out of its banks. The river exceeded the flood stage for a short period on the 23rd. The river crested just over the flood stage at 18.02 feet.

WABASHA COUNTY --- 0.5 NNW ZUMBRO FALLS [44.29, -92.43], 0.3 NE ZUMBRO FALLS [44.28, -92.43], 0.2 NE ZUMBRO FALLS [44.28, -92.43], 0.4 NNW ZUMBRO FALLS [44.29, -92.43]

03/23/11 16:45 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/24/11 08:00 CST	0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Zumbro River at Zumbro Falls out of its banks. The river exceeded the flood stage from the 23rd into the 24th. The river crested at less than a foot over the flood stage at 18.69 feet.

The combination of melting snow and some rainfall helped to push some southeast Minnesota rivers out of their banks during the latter half of the month.

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WABASHA COUNTY --- 0.4 NNW READS LNDG [44.41, -92.08], 1.1 NW WABASHA [44.39, -92.05], 0.5 ESE WABASHA [44.38, -92.02], 0.6 E WABASHA [44.38, -92.02], 1.3 NW WABASHA [44.39, -92.05], 1.0 ENE READS LNDG [44.40, -92.06]				
	03/27/11 10:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/31/11 23:59 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Mississippi River at Wabasha out of its banks. The river exceeded the flood stage from the 27th through the end of the month. By the end of the month, the river was just over a foot above the flood stage at 13.05 feet and was still rising.

WINONA COUNTY --- 0.7 NNW WINONA [44.06, -91.66], 0.6 NE WINONA [44.06, -91.64], 1.8 E WINONA [44.05, -91.61], 1.8 E WINONA [44.05, -91.61], 1.2 ENE WINONA [44.05, -91.63], 1.0 NNE WINONA [44.06, -91.64]				
	03/29/11 14:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/31/11 23:59 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Mississippi River at Winona out of its banks. The river exceeded the flood stage from the 29th through the end of the month. By the end of the month, the river was less than a foot above the flood stage at 13.82 feet and was still rising.

The combination of melting snow and some rainfall pushed the Mississippi River out of its banks at some northeast Iowa locations toward the end of the month.

WISCONSIN, Southwest

JACKSON COUNTY --- 2.3 E VAUDREUIL [44.31, -90.83], 1.7 E VAUDREUIL [44.30, -90.85], 1.6 NW PLEASANT VIEW [44.29, -90.85], 1.4 ESE VAUDREUIL [44.29, -90.86], 1.5 SE VAUDREUIL [44.29, -90.86], 1.4 NNW PLEASANT VIEW [44.29, -90.84], 1.9 E VAUDREUIL [44.30, -90.84], 2.4 N PLEASANT VIEW [44.30, -90.83]				
	03/20/11 22:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/23/11 09:45 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Black River at Black River Falls out of its banks. The river exceeded the flood stage from the 20th into the 23rd. The river crested about a foot and a half over the flood stage at 48.35 feet.

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]				
	03/21/11 08:30 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/27/11 04:30 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Trempealeau River at Dodge out of its banks. The river exceeded the flood stage from the 21st into the 27th. The river crested almost four feet over the flood stage at 12.75 feet.

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]				
	03/22/11 18:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/27/11 03:00 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Kickapoo River at Gays Mills out of its banks. The river exceeded the flood stage from the 22nd into the 27th. The river crested over a foot above the flood stage at 14.13 feet.

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]				
	03/22/11 20:15 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/25/11 16:00 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Kickapoo River at Readstown out of its banks. The river exceeded the flood stage from the 22nd into the 25th. The river crested over a foot above the flood stage at 12.19 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]				
	03/23/11 00:30 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/25/11 11:00 CST		0	Source: River/Stream Gage

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>The combination of rainfall and melting snow pushed the Black River near Galesville out of its banks. The river exceeded the flood stage from the 23rd into the 25th. The river crested less than a foot over the flood stage at 12.88 feet.</p>				

<p>VERNON COUNTY --- 2.8 NE KICKAPOO CENTER [43.50, -90.67], 2.7 ESE LIBERTY [43.51, -90.68], 2.4 ESE LIBERTY [43.51, -90.68], 2.5 ESE LIBERTY [43.51, -90.68], 2.7 ESE LIBERTY [43.51, -90.68], 2.8 NNE KICKAPOO CENTER [43.51, -90.67], 2.7 NE KICKAPOO CENTER [43.50, -90.67]</p>				
	03/23/11 12:45 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/24/11 22:00 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Kickapoo River at Viola out of its banks. The river exceeded the flood stage from the 23rd into the 24th. The river crested over a foot above the flood stage at 15.24 feet.

<p>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]</p>				
	03/23/11 13:45 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/28/11 07:15 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Kickapoo River at Stueben out of its banks. The river exceeded the flood stage from the 23rd into the 28th. The river crested less than a foot over the flood stage at 12.51 feet.

<p>CRAWFORD COUNTY --- 0.5 SSW SOLDIERS GROVE [43.39, -90.77], 0.5 SW 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]</p>				
	03/23/11 16:40 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/25/11 19:30 CST		0	Source: River/Stream Gage

The combination of rainfall and melting snow pushed the Kickapoo River at Soldiers Grove out of its banks. The river exceeded the flood stage from the 23rd into the 25th. The river crested less than a foot over the flood stage at 13.36 feet.

The combination of melting snow and some rainfall helped to push some western Wisconsin rivers out of their banks during the latter part of the month.

(WI-Z017) TAYLOR, (WI-Z029) CLARK				
	03/22/11 19:00 CST		0	Winter Storm
	03/23/11 14:00 CST		0	

An early spring storm system tracked out of the lower Plains States to the lower Great Lakes Region from the 22nd through the 23rd of March. This system produced heavy snow across portions of north central Wisconsin with 12 inches reported at Chelsea (Taylor County).

(WI-Z053) VERNON				
	03/22/11 20:55 CST		2K	Winter Weather
	03/22/11 20:55 CST		0	

Rain fell across much of southwest Wisconsin during the evening of the 22nd and in some locations temperatures dipped below freezing to create icy roads. One fatality occurred on State Highway 27 in the southern part of Vernon County. A total of three accidents were reported across the county.