

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>KANSAS, Extreme Southeast</b>				
<b>CHEROKEE COUNTY --- CRESTLINE [37.17, -94.70]</b>				
	07/21/13 23:50 CST		0	Hail (1.00 in)
	07/21/13 23:50 CST		0	Source: Trained Spotter
A stalled out frontal boundary across the area developed an isolated thunderstorm which produced a report of large hail.				
<b>BOURBON COUNTY --- 4.9 WNW PETERSBURG [37.79, -95.07], 5.0 N PORTERVILLE [37.79, -95.07]</b>				
	07/29/13 16:05 CST		0.10M	Tornado (EF1, L: 0.40 mi , W: 100 yd)
	07/29/13 16:06 CST		0	Source: NWS Storm Survey
A brief EF-1 tornado touched down near the southern end of the Bourbon County Lake and traveled northwestward towards the corner of 20th Street and Indian Road. One mobile home which was properly tied down was shifted approximately four feet off its foundation and had severe damage to the exterior . There was a couple outbuildings or small barns that were totally destroyed. There was a couple of trees that were uprooted. Numerous large tree branches were either blown down or snapped. Another house had numerous shingles torn off the roof. A pontoon boat was lifted and thrown 10 yards. The estimated winds were at 90 mph and path width of 100 yards.				
<b>BOURBON COUNTY --- 1.5 NNE HARDING [38.02, -94.81], 1.2 NE HARDING [38.01, -94.81], 1.7 NE HARDING [38.02, -94.80], 1.9 NNE HARDING [38.03, -94.81]</b>				
	07/29/13 19:59 CST		0	Flash Flood (due to Heavy Rain)
	07/29/13 20:59 CST		0	Source: Law Enforcement
The Mapleton turnoff was closed due to flooding. Water covered Highway 7 in the northern portions of Bourbon County.				
<b>BOURBON COUNTY --- DEVON [37.92, -94.82]</b>				
	07/29/13 21:25 CST		0	Heavy Rain
	07/29/13 22:25 CST		0	Source: Law Enforcement
A storm total rainfall of 5.53 inches was reported.				
<b>BOURBON COUNTY --- 0.6 NE HARDING [38.01, -94.81], 0.5 WNW HARDING [38.00, -94.83], 1.1 NNW HARDING [38.01, -94.83], 1.2 N HARDING [38.02, -94.82]</b>				
	07/29/13 21:27 CST		0	Flash Flood (due to Heavy Rain)
	07/29/13 22:27 CST		0	Source: Law Enforcement
The intersection of Highway 31 and Highway 7 was closed due to flooding.				
<b>BOURBON COUNTY --- 3.3 W DEVON [37.92, -94.88], 3.0 W DEVON [37.92, -94.87], 3.1 W DEVON [37.92, -94.88], 3.4 W DEVON [37.92, -94.88]</b>				
	07/29/13 21:28 CST		0	Flash Flood (due to Heavy Rain)
	07/29/13 22:28 CST		0	Source: Law Enforcement
The intersection of Range Road and 125th Street was closed due to flooding.				
<b>CRAWFORD COUNTY --- 1.9 E GREENBUSH [37.52, -94.95], 2.3 E GREENBUSH [37.52, -94.94], 2.4 ESE GREENBUSH [37.51, -94.94], 1.9 ESE GREENBUSH [37.51, -94.95]</b>				
	07/29/13 22:35 CST		0	Flash Flood (due to Heavy Rain)
	07/29/13 23:35 CST		0	Source: Fire Department/Rescue
The intersection of Highway 47 and 90th Street was closed due to flooding.				
<b>CRAWFORD COUNTY --- 1.9 E GIRARD [37.50, -94.81], 1.8 W RINGO [37.50, -94.80], 1.8 WSW RINGO [37.49, -94.80], 2.1 E GIRARD [37.49, -94.81]</b>				
	07/29/13 22:50 CST		0	Flash Flood (due to Heavy Rain)
	07/29/13 23:50 CST		0	Source: Emergency Manager
Numerous low water crossings were flooded throughout the county.				
<b>CRAWFORD COUNTY --- 1.0 NE RINGO [37.51, -94.76], 1.1 SSW POLK [37.52, -94.76], 1.1 NNE RINGO [37.52, -94.76], 0.9 NNE RINGO [37.51, -94.76]</b>				
	07/29/13 23:10 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 00:10 CST		0	Source: Fire Department/Rescue

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The intersection of Highway 47 and 190th Street was flooded.				
<b>CHEROKEE COUNTY --- 0.9 SW STIPPVILLE [37.21, -94.84], 0.6 S STIPPVILLE [37.21, -94.83], 0.4 S STIPPVILLE [37.21, -94.83], 0.6 SW STIPPVILLE [37.21, -94.84]</b>				
	07/29/13 23:50 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 00:50 CST		0	Source: Emergency Manager
Highway 7 just north of Columbus was closed due to flooding.				
<b>CRAWFORD COUNTY --- 0.9 SW FRANKLIN [37.51, -94.71], 0.7 S FRANKLIN [37.51, -94.70], 0.5 SW FRANKLIN [37.51, -94.70], 0.6 SW FRANKLIN [37.51, -94.71]</b>				
	07/29/13 23:50 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 00:50 CST		0	Source: Fire Department/Rescue
The intersection of 620th Street and Highway 69 was closed due to flooding.				
<b>CHEROKEE COUNTY --- 0.9 SE SCAMMON [37.27, -94.81], 1.2 SE SCAMMON [37.27, -94.80], 0.9 SSE TURCK [37.26, -94.83], 0.4 SSE TURCK [37.26, -94.83]</b>				
	07/30/13 00:05 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 02:05 CST		0	Source: Emergency Manager
Highway K7 was closed in Scammon due to flooding. Numerous low water crossings in the Scammon and the rest of northern Cherokee County were flooded and impassable.				
<b>CHEROKEE COUNTY --- 0.7 N WEIR [37.31, -94.77], 0.6 NNW WEIR [37.31, -94.77], 0.8 NNW WEIR [37.31, -94.78], 0.9 NNW WEIR [37.31, -94.77]</b>				
	07/30/13 00:24 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 01:24 CST		0	Source: Emergency Manager
Most streets in Weir were flooded.				
<b>CHEROKEE COUNTY --- 3.9 W LAWTON [37.23, -94.70], 3.8 N CRESTLINE [37.23, -94.71], 4.3 N CRESTLINE [37.23, -94.71], 4.1 WNW LAWTON [37.23, -94.70]</b>				
	07/30/13 00:24 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 01:24 CST		0	Source: Emergency Manager
Highway 69 was closed due to flooding north of Crestline.				
<b>CHEROKEE COUNTY --- 0.7 N WEIR [37.31, -94.77], 0.8 NW WEIR [37.31, -94.78], 1.3 NW WEIR [37.31, -94.79], 1.0 NNW WEIR [37.31, -94.78]</b>				
	07/30/13 00:31 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 01:31 CST		0	Source: Emergency Manager
Up to two feet of standing water was reported in the western part of Weir.				
<b>CHEROKEE COUNTY --- 3.9 W LAWTON [37.23, -94.70], 3.7 N CRESTLINE [37.22, -94.70], 3.9 N CRESTLINE [37.23, -94.71], 4.3 WNW LAWTON [37.23, -94.71]</b>				
	07/30/13 00:45 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 01:45 CST		0	Source: Emergency Manager
Over two feet of flowing water was reported over Highway 69 and the highway was closed.				
<b>CHEROKEE COUNTY --- SCAMMON [37.28, -94.82], 0.4 NNW TURCK [37.28, -94.83], 0.7 E ROSELAND [37.28, -94.84], 0.5 WNW SCAMMON [37.28, -94.83]</b>				
	07/30/13 01:00 CST		0.10M	Flash Flood (due to Heavy Rain)
	07/30/13 02:00 CST		0	Source: Emergency Manager
There was three feet of water in a gas station just off of Highway 7 in Scammon and several people had to be rescued.				
<b>CRAWFORD COUNTY --- 0.9 NE GIRARD [37.51, -94.84], 1.4 NE GIRARD [37.51, -94.83], 1.6 NE GIRARD [37.51, -94.83], 1.3 NE GIRARD [37.51, -94.84]</b>				
	07/30/13 01:30 CST		0.25M	Flash Flood (due to Heavy Rain)
	07/30/13 02:30 CST		0	Source: Emergency Manager

Numerous travel trailers at the fairgrounds near Girard were flooded with estimated depth of 3 to 4 feet.

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<b>CHEROKEE COUNTY --- SCAMMON [37.28, -94.82], 0.5 WSW SCAMMON [37.28, -94.83], 0.5 WNW SCAMMON [37.28, -94.83], 0.3 N SCAMMON [37.28, -94.82]</b>				
	07/30/13 01:55 CST		0.25M	Flash Flood (due to Heavy Rain)
	07/30/13 02:55 CST		0	Source: Emergency Manager

At least two homes in Scammon were flooded and evacuated.

<b>CRAWFORD COUNTY --- 0.7 S PITTSBURG [37.41, -94.70]</b>				
	07/30/13 06:14 CST		0	Heavy Rain
	07/30/13 07:14 CST		0	Source: COOP Observer

A storm total rainfall of 7.93 inches was reported at Pittsburg State University.

**A large complex of strong to isolated severe thunderstorms produced an isolated brief tornado along with widespread flooding.**

### MISSOURI, Southwest

<b>GREENE COUNTY --- 0.8 SSW NICHOLS [37.21, -93.37]</b>				
	07/03/13 21:35 CST		0	Hail (1.00 in)
	07/03/13 21:35 CST		0	Source: NWS Employee

<b>GREENE COUNTY --- 1.2 ESE NICHOLS [37.21, -93.35]</b>				
	07/03/13 21:40 CST		1K	Thunderstorm Wind (EG 43 kt)
	07/03/13 21:40 CST		0	Source: NWS Employee

A portion of a tree was blown down near the intersection of Tarkio and Dove Valley Roads . A picture via social media showed a trampoline destroyed by the gusty winds as well.

<b>GREENE COUNTY --- 3.8 WNW WILDWOOD ESTATES [37.14, -93.31]</b>				
	07/03/13 21:40 CST		50K	Lightning
	07/03/13 21:40 CST		0	Source: Broadcast Media

A lightning strike hit a house and caused severe damage to the garage and upstairs rooms.

<b>CAMDEN COUNTY --- 0.9 NE CAMDENTON [38.01, -92.74]</b>				
	07/04/13 16:50 CST		0	Hail (1.00 in)
	07/04/13 16:50 CST		0	Source: Public

An off duty NWS meteorologist relayed a report of quarter size hail in Camdenton.

<b>GREENE COUNTY --- 1.5 NNE MUMFORD [37.20, -93.21]</b>				
	07/04/13 17:17 CST		0	Hail (1.00 in)
	07/04/13 17:17 CST		0	Source: Amateur Radio

Quarter size hail was reported near Sunshine Avenue and Highway 65.

<b>MARIES COUNTY --- 0.7 N VIENNA [38.19, -91.95]</b>				
	07/05/13 15:45 CST		0	Hail (1.00 in)
	07/05/13 15:45 CST		0	Source: Emergency Manager

Hail ranging in size of dime to quarter size was reported in Vienna.

<b>PHELPS COUNTY --- 1.8 SE DILLON [37.95, -91.70]</b>				
	07/05/13 16:26 CST		0	Hail (0.75 in)
	07/05/13 16:26 CST		0	Source: CoCoRaHS

**An upper level low pressure system over Missouri lead to isolated severe thunderstorms in the afternoon. These thunderstorms produced marginal severe hail and strong gusty winds.**

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<b>PULASKI COUNTY --- 0.7 S RICHLAND MUNI ARPT [37.86, -92.40]</b>				
	07/10/13 16:05 CST		0	Thunderstorm Wind (EG 52 kt)
	07/10/13 16:05 CST		0	Source: County Official
Wind gusts were estimated between 50 to 60 mph and pea size hail was reported. This report was relayed from fire personnel through county dispatch.				
<b>An isolated severe pulse thunderstorm produced strong gusty winds.</b>				
<b>(MO-Z104) TANEY</b>				
	07/12/13 15:00 CST		25K	Wildfire
	07/12/13 17:00 CST		0	
<b>Dry conditions around the Missouri Ozarks helped in the development of a brush fire which caused some minor damage.</b>				
<b>TANEY COUNTY --- 0.7 S HOLLISTER [36.61, -93.22]</b>				
	07/19/13 14:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/19/13 14:50 CST		0	Source: Public
Large tree limbs were blown down.				
<b>An isolated pulse thunderstorm caused a downburst and a report of wind damage.</b>				
<b>TEXAS COUNTY --- 2.3 ESE TYRONE [37.19, -91.84]</b>				
	07/20/13 13:30 CST		0	Thunderstorm Wind (EG 60 kt)
	07/20/13 13:30 CST		0	Source: Law Enforcement
A tree was blown down across Highway 137.				
<b>LACLEDE COUNTY --- 0.6 E LEBANON [37.68, -92.66]</b>				
	07/20/13 14:45 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/20/13 14:45 CST		0	Source: Public
Several large limbs were blown down. A trampoline was blown about 100 yards away. Time was estimated by radar. There were pictures of the damage on social media outlets.				
<b>POLK COUNTY --- 2.6 SW VIOLET [37.64, -93.36]</b>				
	07/20/13 15:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/20/13 15:40 CST		0	Source: Public
A couple large trees were blown down across South 150th Road.				
<b>VERNON COUNTY --- 2.8 S MILO [37.71, -94.31]</b>				
	07/20/13 17:15 CST		0	Hail (0.75 in)
	07/20/13 17:15 CST		0	Source: Public
<b>DADE COUNTY --- 3.0 SSW ERNEST [37.44, -93.94]</b>				
	07/20/13 18:00 CST		0	Thunderstorm Wind (EG 52 kt)
	07/20/13 18:00 CST		0	Source: Law Enforcement
A large tree limb was blocking West Dade 92.				
<b>GREENE COUNTY --- 1.6 ENE SPRINGFIELD [37.21, -93.27], 1.9 WSW SGF DOWNTOWN ARPT [37.21, -93.26]</b>				
	07/21/13 18:18 CST		0.10M	Tornado (EF0, L: 0.62 mi , W: 50 yd)
	07/21/13 18:19 CST		0	Source: NWS Storm Survey

A NWS storm survey indicated that an EF-0 tornado touched down near the intersection of East Cairo Street and South Pickwick Avenue . The tornado traveled east along East Cairo Street and lifted at the the intersection of East Cairo Street and Glenstone. The tornado caused several large tree branches to be blown down and damage to roofs to several houses along with several power lines to be blown down. Several windows to homes and businesses were broken or blown out. At least two businesses had roof and window damage. Winds were estimated around 60 mph with a path width of 50 yards and about half a mile length.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>JASPER COUNTY --- 0.9 NE NECK CITY [37.26, -94.44]</b>				
	07/22/13 01:05 CST		0	Hail (1.00 in)
	07/22/13 01:05 CST		0	Source: Public
<b>BARRY COUNTY --- 2.1 S PURDY [36.79, -93.92]</b>				
	07/22/13 03:05 CST		0	Thunderstorm Wind (EG 52 kt)
	07/22/13 03:05 CST		0	Source: Public
The public reported 60 mph wind gusts and dime size hail two miles south of Purdy.				
<b>PULASKI COUNTY --- 0.5 E CROCKER [37.95, -92.26]</b>				
	07/23/13 02:00 CST		0	Hail (1.75 in)
	07/23/13 02:00 CST		0	Source: Law Enforcement
There were no reports of damage.				
<b>LAWRENCE COUNTY --- 0.6 E MT VERNON [37.10, -93.82]</b>				
	07/23/13 03:00 CST		0	Hail (1.00 in)
	07/23/13 03:00 CST		0	Source: Law Enforcement
<b>HOWELL COUNTY --- 2.3 WSW WILLOW SPGS [36.99, -92.01]</b>				
	07/23/13 13:50 CST		5K	Thunderstorm Wind (EG 60 kt)
	07/23/13 13:50 CST		0	Source: Broadcast Media
A greenhouse was destroyed and several 18 inch in diameter trees were uprooted. Quarter size hail was also reported.				
<b>DALLAS COUNTY --- 0.9 SE PUMPKIN CENTER [37.74, -93.07]</b>				
	07/23/13 14:06 CST		0	Hail (0.88 in)
	07/23/13 14:06 CST		0	Source: Emergency Manager
<b>HOWELL COUNTY --- 0.7 S WILLOW SPGS [36.99, -91.97]</b>				
	07/23/13 14:07 CST		0	Hail (1.00 in)
	07/23/13 14:07 CST		0	Source: Emergency Manager
<b>HOWELL COUNTY --- 0.7 S WILLOW SPGS [36.99, -91.97], 0.9 SSE WILLOW SPGS [36.99, -91.97], 1.0 SSE WILLOW SPGS [36.99, -91.97], 1.0 S WILLOW SPGS [36.99, -91.97], 0.8 SSW WILLOW SPGS [36.99, -91.97]</b>				
	07/23/13 14:07 CST		0	Flood (due to Heavy Rain)
	07/23/13 16:07 CST		0	Source: Law Enforcement
Water was flowing over roadways in Willow Springs but the depth was unknown.				
<b>HOWELL COUNTY --- 0.9 SE BURNHAM [36.92, -91.94]</b>				
	07/23/13 14:10 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/23/13 14:10 CST		0	Source: Emergency Manager
Severe thunderstorm winds blew over a tractor trailer and caused severe damage to an exterior wall of a building.				
<b>OZARK COUNTY --- 0.6 E BAKERSFIELD [36.52, -92.14]</b>				
	07/23/13 14:25 CST		0	Hail (1.00 in)
	07/23/13 14:25 CST		0	Source: County Official
<b>HOWELL COUNTY --- 0.6 W MOODY [36.53, -91.99]</b>				
	07/23/13 14:40 CST		0	Hail (0.88 in)
	07/23/13 14:40 CST		0	Source: Public
<b>CAMDEN COUNTY --- 0.5 W CAMDENTON MEM ARPT [37.98, -92.71]</b>				
	07/23/13 14:50 CST		0	Hail (0.88 in)
	07/23/13 14:50 CST		0	Source: Public

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<b>WEBSTER COUNTY --- 0.9 NE MARSHFIELD [37.34, -92.91]</b>				
	07/23/13 15:14 CST		0	Hail (0.88 in)
	07/23/13 15:14 CST		0	Source: Broadcast Media
<b>WEBSTER COUNTY --- 1.8 ENE MARSHFIELD [37.34, -92.89]</b>				
	07/23/13 15:20 CST		25K	Hail (1.00 in)
	07/23/13 15:20 CST		0	Source: Public
A report from social media that hail caused dents to cars and cracked windshields.				
<b>TEXAS COUNTY --- 1.5 NNE HOUSTON [37.35, -91.96]</b>				
	07/23/13 16:19 CST		0	Hail (1.25 in)
	07/23/13 16:19 CST		0	Source: Law Enforcement
<b>TEXAS COUNTY --- 1.1 E SUMMERSVILLE [37.18, -91.66]</b>				
	07/23/13 16:48 CST		0	Hail (0.75 in)
	07/23/13 16:48 CST		0	Source: Public
<b>HOWELL COUNTY --- 1.1 W MOODY [36.53, -92.00], 1.1 W MOODY [36.53, -92.00], 1.0 W MOODY [36.53, -92.00], 1.0 W MOODY [36.53, -92.00]</b>				
	07/23/13 18:00 CST		0	Flash Flood (due to Heavy Rain)
	07/23/13 20:00 CST		0	Source: Law Enforcement
One to two feet of flowing water was over a low water crossing near Moody.				
<b>WEBSTER COUNTY --- 1.3 ESE NIANGUA JCT [37.39, -92.83]</b>				
	07/23/13 18:09 CST		0	Hail (1.00 in)
	07/23/13 18:09 CST		0	Source: Emergency Manager
Dime to quarter size hail was reported near CC and M Highway.				
<b>BARRY COUNTY --- 4.9 ESE WAYNE [36.60, -93.87]</b>				
	07/23/13 18:12 CST		0	Thunderstorm Wind (EG 52 kt)
	07/23/13 18:12 CST		0	Source: Amateur Radio
Small to medium size limbs were blown down by winds estimated up to 60 mph.				
<b>BARRY COUNTY --- 5.2 NW EAGLE ROCK [36.60, -93.82]</b>				
	07/23/13 20:39 CST		0	Thunderstorm Wind (EG 52 kt)
	07/23/13 20:39 CST		0	Source: Park/Forest Service
Several trees were blown down at Roaring River State Park.				
<b>A stalled out frontal boundary was across the area. A northwest flow with embedded upper level impulses caused scattered thunderstorms which produced reports of damaging winds and large hail. A tornado was also observed and caused minor damaged on the east side of Springfield.</b>				
<b>BARTON COUNTY --- 2.8 ESE MINDENMINES [37.47, -94.55], 2.5 ESE MINDENMINES [37.47, -94.56], 2.6 ESE MINDENMINES [37.47, -94.56], 3.0 ESE MINDENMINES [37.47, -94.55]</b>				
	07/30/13 00:39 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 02:39 CST		0	Source: Law Enforcement
The road at M Highway and 40th Street was closed due to flooding.				
<b>JASPER COUNTY --- 0.6 W DUENWEG [37.08, -94.43], 0.6 WNW DUENWEG [37.08, -94.43], 0.5 WNW DUENWEG [37.08, -94.43], 0.5 WNW DUENWEG [37.08, -94.43]</b>				
	07/30/13 01:12 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 03:12 CST		0	Source: State Official
Pebble Road at 7th Street was closed due to flooding.				

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<b>JASPER COUNTY --- 0.9 NE CARTHAGE [37.18, -94.31], 0.8 NE CARTHAGE [37.18, -94.31], 0.8 NE CARTHAGE [37.18, -94.31], 0.9 NE CARTHAGE [37.18, -94.31]</b>				
	07/30/13 01:12 CST		20K	Flash Flood (due to Heavy Rain)
	07/30/13 03:12 CST		0	Source: State Official
Three cars were submerged under water on Central Street. Hazel Road was closed at Airport Road.				
<b>JASPER COUNTY --- 0.9 NE PROSPERITY [37.14, -94.42], 0.9 NNE PROSPERITY [37.14, -94.42], 1.0 NNE PROSPERITY [37.14, -94.42], 1.0 NE PROSPERITY [37.14, -94.42]</b>				
	07/30/13 01:12 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 03:12 CST		0	Source: State Official
County Road 200 at Highway HH was closed due to flooding.				
<b>JASPER COUNTY --- 1.3 WSW CARL JCT [37.17, -94.59], 1.3 E SMITHFIELD [37.17, -94.60], 1.3 E SMITHFIELD [37.17, -94.60], 1.3 WSW CARL JCT [37.17, -94.59]</b>				
	07/30/13 01:12 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 03:12 CST		0	Source: State Official
Hunter Road between County Road 290 and 300 was closed due to flooding.				
<b>JASPER COUNTY --- 1.4 N CARL JCT [37.20, -94.57], 1.3 N CARL JCT [37.20, -94.57], 1.4 N CARL JCT [37.20, -94.57], 1.5 N CARL JCT [37.20, -94.57]</b>				
	07/30/13 01:12 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 03:12 CST		0	Source: State Official
A road was closed due to flooding at County Road 284 and Roney.				
<b>JASPER COUNTY --- 2.2 W JASPER [37.33, -94.36], 2.3 W JASPER [37.33, -94.36], 2.2 WSW JASPER [37.32, -94.36], 2.0 W JASPER [37.33, -94.36]</b>				
	07/30/13 01:12 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 03:12 CST		0	Source: State Official
County Road 170 was closed at Sumac Road due to flooding.				
<b>MCDONALD COUNTY --- 1.5 NNW CAVERNA [36.52, -94.29]</b>				
	07/30/13 01:15 CST		0	Thunderstorm Wind (EG 52 kt)
	07/30/13 03:15 CST		0	Source: Emergency Manager
Large tree limbs were blown down across Highway 71.				
<b>LAWRENCE COUNTY --- 1.2 W MT VERNON [37.10, -93.85], 1.2 WNW MT VERNON [37.10, -93.85], 1.1 WNW MT VERNON [37.10, -93.85], 1.1 W MT VERNON [37.10, -93.85]</b>				
	07/30/13 02:04 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 04:04 CST		0	Source: Law Enforcement
Numerous low water crossings across Lawrence County were flooded.				
<b>DADE COUNTY --- 2.3 ENE KINGS PT [37.33, -93.91], 2.1 ENE KINGS PT [37.33, -93.91], 2.3 ENE KINGS PT [37.33, -93.91], 2.5 ENE KINGS PT [37.33, -93.91]</b>				
	07/30/13 02:45 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 04:45 CST		0	Source: State Official
Six inches of water was flowing over Route Z about two and a half miles east of Highway 97.				
<b>GREENE COUNTY --- 2.3 S SPRINGFIELD [37.17, -93.30], 2.3 S SPRINGFIELD [37.17, -93.30], 2.4 SSE SPRINGFIELD [37.17, -93.29], 2.3 SSE SPRINGFIELD [37.17, -93.29]</b>				
	07/30/13 02:45 CST		0	Flash Flood (due to Heavy Rain)
	07/30/13 04:45 CST		0	Source: Broadcast Media
Water up to a foot was flowing over Sunset Street between Fort and Campbell Road . Water up to a foot was also reported at Fort and Edgewood . South Creek was at bank full along Sunset Street.				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>GREENE COUNTY --- 0.9 SW SEQUIOTA [37.14, -93.24], 0.6 NW GALLOWAY [37.13, -93.24], 0.5 WNW GALLOWAY [37.13, -93.24], 0.8 NNW GALLOWAY [37.14, -93.24]</b>				
	07/30/13 04:30 CST	0		Flash Flood (due to Heavy Rain)
	07/30/13 06:30 CST	0		Source: Broadcast Media
Lone Pine Road near Republic Road was closed due to flooding from Galloway Creek.				
<b>GREENE COUNTY --- 1.8 ENE SPRINGFIELD [37.21, -93.27], 1.7 ENE SPRINGFIELD [37.21, -93.27], 1.8 ENE SPRINGFIELD [37.21, -93.27], 2.0 ENE SPRINGFIELD [37.21, -93.27]</b>				
	07/30/13 04:30 CST	0		Flash Flood (due to Heavy Rain)
	07/30/13 06:30 CST	0		Source: Broadcast Media
Fremont Road was closed south of Chestnut Expressway due to flooding.				
<b>CHRISTIAN COUNTY --- 1.5 NNW NIXA [37.07, -93.31], 1.4 NNW NIXA [37.07, -93.31], 1.6 NNW NIXA [37.07, -93.31], 1.7 NNW NIXA [37.07, -93.31]</b>				
	07/30/13 04:40 CST	0		Flash Flood (due to Heavy Rain)
	07/30/13 06:40 CST	0		Source: State Official
West Tracker Road was closed due to flooding.				
<b>GREENE COUNTY --- 0.7 N CODY [37.13, -93.12], 0.5 N CODY [37.13, -93.12], 0.5 NNE CODY [37.13, -93.12], 0.9 N CODY [37.13, -93.12]</b>				
	07/30/13 04:50 CST	0		Flash Flood (due to Heavy Rain)
	07/30/13 06:50 CST	0		Source: State Official
Water was over Highway 125 between Farm Roads 170 and 174.				
<b>LAWRENCE COUNTY --- 2.4 NNW RED OAK [37.26, -94.04], 2.1 NNW RED OAK [37.26, -94.04], 2.0 NNW RED OAK [37.26, -94.03], 2.4 NNW RED OAK [37.26, -94.03]</b>				
	07/30/13 05:01 CST	0		Flash Flood (due to Heavy Rain)
	07/30/13 07:01 CST	0		Source: Department of Highways
Route AA was closed due to flooding.				
<b>GREENE COUNTY --- 2.1 S NICHOLS [37.19, -93.37], 2.2 S NICHOLS [37.19, -93.37], 2.2 S NICHOLS [37.19, -93.36], 2.0 S NICHOLS [37.19, -93.37]</b>				
	07/30/13 05:49 CST	0		Flash Flood (due to Heavy Rain)
	07/30/13 07:49 CST	0		Source: Public
Water was over Farm Road 146 at Wilsons Creek just west of Rutledge Wilson Farm.				
<b>JASPER COUNTY --- 2.1 NW REEDS [37.14, -94.20], 2.0 NW REEDS [37.14, -94.20], 1.8 NW REEDS [37.14, -94.19], 1.9 NW REEDS [37.14, -94.19]</b>				
	07/30/13 07:00 CST	0		Flood (due to Heavy Rain)
	07/30/13 09:00 CST	0		Source: County Official
There was a high water rescue near Fir Road and County Road 80. There were several flooded roads in the Avilla area.				
<b>BARTON COUNTY --- 3.1 ESE MINDENMINES [37.46, -94.55], 2.9 SE MINDENMINES [37.46, -94.56], 2.5 ESE MINDENMINES [37.46, -94.56], 2.9 ESE MINDENMINES [37.46, -94.55]</b>				
	07/30/13 08:05 CST	0		Flood (due to Heavy Rain)
	07/30/13 10:05 CST	0		Source: Department of Highways
There was flooding along Route M just south of Highway 60 along Glendale Fork.				
<b>JASPER COUNTY --- 1.5 NNE MAPLE GROVE [37.27, -94.12], 1.1 N MAPLE GROVE [37.27, -94.13], 1.8 N MAPLE GROVE [37.28, -94.13], 2.0 NNE MAPLE GROVE [37.28, -94.12]</b>				
	07/30/13 08:05 CST	0		Flood (due to Heavy Rain)
	07/30/13 10:05 CST	0		Source: Department of Highways
There was flooding along Route 37 south of Highway 96 and north of Route F.				
<b>LAWRENCE COUNTY --- 2.4 NNW RED OAK [37.26, -94.04], 2.2 NNW RED OAK [37.26, -94.04], 2.0 NNW RED OAK [37.26, -94.03], 2.3 NNW RED OAK [37.26, -94.03]</b>				

## Storm Data and Unusual Weather Phenomena - July 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/30/13 08:05 CST		0	Flood (due to Heavy Rain)
	07/30/13 10:05 CST		0	Source: Department of Highways

There was flooding along Route AA just north of Route C.

**LAWRENCE COUNTY --- 3.0 NNE STOTTS CITY [37.14, -93.95], 2.7 NNE STOTTS CITY [37.14, -93.95], 2.8 NNE STOTTS CITY [37.14, -93.95], 3.0 SSW PHELPS [37.14, -93.95]**

	07/30/13 08:05 CST		0	Flood (due to Heavy Rain)
	07/30/13 10:05 CST		0	Source: Department of Highways

There was flooding on Highway 97 along the Spring River.

**JASPER COUNTY --- 2.1 NNW DUDENVILLE [37.33, -94.09], 2.6 NNW DUDENVILLE [37.34, -94.09], 2.6 N DUDENVILLE [37.34, -94.08], 2.1 N DUDENVILLE [37.33, -94.08]**

	07/30/13 09:06 CST		0	Flood (due to Heavy Rain)
	07/30/13 11:06 CST		0	Source: Department of Highways

There was flooding along Route A just east of Highway 37.

**A large complex of thunderstorms produced heavy rainfall which led to widespread flooding and isolated reports of wind damage. This was the start of an unsettled and very wet weather patten for the area that lasted into early August.**