

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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KANSAS, Extreme Southeast

BOURBON COUNTY --- 1.5 SSW REDFIELD [37.81, -94.89]

07/06/10 06:00 CST	2K	Thunderstorm Wind (EG 52 kt)
07/06/10 06:00 CST	0	Source: Emergency Manager

Several power poles were downed near the intersection of 140th Street and Jayhawk Road.

BOURBON COUNTY --- 1.8 SW MARMATON [37.81, -94.85]

07/06/10 06:00 CST	2K	Lightning
07/06/10 06:00 CST	0	Source: Emergency Manager

Lightning struck power lines near the intersection of 140th Street and Jayhawk Road and caused brief power outages.

The remnants of a weak tropical circulation over Louisiana spread deep moisture into the Ozarks. This interacted with a stalled front and numerous outflow boundaries which produced persistent, heavy rain producing, thunderstorms across the region.

BOURBON COUNTY --- 4.4 E FULTON [37.99, -94.64], 4.6 ESE FULTON [37.98, -94.64], 4.6 ESE FULTON [37.98, -94.64], 4.5 E FULTON [37.99, -94.64]

07/06/10 07:00 CST	0	Flash Flood (due to Heavy Rain)
07/06/10 13:00 CST	0	Source: Emergency Manager

Flood waters closed and damaged the road surface of 255th Street between Valley and Wagon roads.

BOURBON COUNTY --- 0.6 E REDFIELD [37.83, -94.87], 0.7 SE REDFIELD [37.82, -94.87], 0.8 SE REDFIELD [37.82, -94.87], 0.7 E REDFIELD [37.83, -94.87]

07/06/10 15:44 CST	0	Flash Flood (due to Heavy Rain)
07/06/10 21:00 CST	0	Source: Emergency Manager

About 90 to 120 feet of 130th Road between Kansas Road and Limestone Road was covered with water.

BOURBON COUNTY --- 0.9 NW FT SCOTT [37.84, -94.71], 3.4 SSE EDWARD [37.72, -94.70], 0.9 SE GARLAND [37.72, -94.62], 4.2 E FT SCOTT [37.83, -94.62]

07/07/10 18:18 CST	0	Flash Flood (due to Heavy Rain)
07/08/10 00:00 CST	0	Source: Emergency Manager

Numerous secondary roads within the Drywood Creek basin were flooded and impassable to motorists. The roads were south of Fort Scott and across rural southeast Bourbon County.

BOURBON COUNTY --- 2.7 E PORTERVILLE [37.72, -95.02], 3.3 E PORTERVILLE [37.72, -95.01], 3.2 E PORTERVILLE [37.71, -95.01], 2.8 E PORTERVILLE [37.71, -95.02]

07/07/10 20:23 CST	0	Flash Flood (due to Heavy Rain)
07/08/10 02:00 CST	0	Source: Emergency Manager

Flash flooding was reported near the intersection of Highway 39 and 50th Street.

Localized flash flooding occurred as a slow moving front interacted with a very moist air mass. This produced very efficient rain producing thunderstorms.

CHEROKEE COUNTY --- 0.6 E FAULKNER [37.10, -95.01]

07/12/10 19:21 CST	0	Thunderstorm Wind (EG 70 kt)
07/12/10 19:21 CST	0	Source: Emergency Manager

Thunderstorm winds were estimated to between 70 and 80 mph.

CHEROKEE COUNTY --- 0.5 ESE MELROSE [37.03, -94.94], 2.6 WNW TREECE [37.02, -94.89]

07/12/10 19:25 CST	0.13M	Tornado (EF1, L: 2.82 mi , W: 60 yd)
07/12/10 19:40 CST	0	Source: NWS Storm Survey

A National Weather Service storm survey team confirmed an EF-1 tornado touched down with estimated winds of 90 mph. The tornado tracked east southeast along a broken path approximately three miles in length with a maximum path width of 60 yards. The tornado uprooted and snapped several large trees, blew over two large grain bins, heavily damaged two well constructed out buildings, and damaged one home.

CHEROKEE COUNTY --- 0.6 W MELROSE [37.03, -94.96]

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	07/12/10 19:25 CST		8K	Thunderstorm Wind (EG 52 kt)
	07/12/10 19:25 CST		0	Source: Emergency Manager

Significant roof damage was reported to one home in the town of Melrose.

CHEROKEE COUNTY --- 1.5 NNW TREECE [37.02, -94.86]

	07/12/10 19:25 CST		5K	Thunderstorm Wind (EG 52 kt)
	07/12/10 19:25 CST		0	Source: Emergency Manager

Thunderstorm winds damaged a 60 by 80 foot pole barn.

CHEROKEE COUNTY --- 0.6 E TREECE [37.00, -94.84]

	07/12/10 19:28 CST		0	Thunderstorm Wind (EG 55 kt)
	07/12/10 19:28 CST		0	Source: Law Enforcement

A few large trees were reported down along Star Road.

CHEROKEE COUNTY --- 0.6 W BAXTER SPGS [37.02, -94.74]

	07/12/10 19:49 CST		0	Thunderstorm Wind (EG 61 kt)
	07/12/10 19:49 CST		0	Source: Emergency Manager

Wind gusts were estimated to be 70 mph.

CHEROKEE COUNTY --- 0.1 SE TREECE [37.00, -94.85], 0.2 SSE TREECE [37.00, -94.85], 0.3 ESE TREECE [37.00, -94.85], 0.2 ESE TREECE [37.00, -94.85]

	07/12/10 21:00 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 21:00 CST		0	Source: Law Enforcement

Treece Road was closed briefly due to flash flooding from heavy rainfall.

CHEROKEE COUNTY --- 0.7 NE COLUMBUS [37.18, -94.82], 0.7 NE COLUMBUS [37.18, -94.82], 0.6 NNE COLUMBUS [37.18, -94.82], 0.7 NNE COLUMBUS [37.18, -94.82]

	07/12/10 21:00 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 21:00 CST		0	Source: Law Enforcement

The low water crossing on west bound Highway 69 in Columbus was closed due to flooding.

A supercell thunderstorm moved across portions of extreme southeast Kansas producing an EF-1 tornado in Cherokee County. The storm developed along a remnant surface boundary in the wake of previous storms during the day.

CHEROKEE COUNTY --- 0.6 W MELROSE [37.03, -94.96], 5.6 SSW FAULKNER [37.03, -95.07], 6.8 WSW MELROSE [37.01, -95.07], 2.5 SW MELROSE [37.00, -94.98]

	07/16/10 18:00 CST		0	Flash Flood (due to Heavy Rain)
	07/17/10 00:00 CST		0	Source: Emergency Manager

Road flooding occurred in some areas in the southern part of the county, mainly south of Highway 166.

Scattered thunderstorms developed in a very moist summer time air mass. Slow storm movement resulted in areas of very heavy rainfall and flooding.

CHEROKEE COUNTY --- 0.6 W BAXTER SPGS [37.02, -94.74], 0.6 WSW BAXTER SPGS [37.02, -94.74], 0.2 SSE BAXTER SPGS [37.02, -94.73], 0.3 NNE BAXTER SPGS [37.02, -94.73], 0.6 WNW BAXTER SPGS [37.02, -94.74]

	07/24/10 22:00 CST		0	Flash Flood (due to Heavy Rain)
	07/24/10 23:00 CST		0	Source: Emergency Manager

Heavy rain produced brief street flooding.

Scattered thunderstorms from a decaying Mesoscale Convective System and ahead of a slow moving cold front produced very heavy rainfall across portions of southeast Kansas.

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
VERNON COUNTY --- 4.1 W STOTESBURY [37.98, -94.64], 3.7 WNW STOTESBURY [37.98, -94.64], 3.9 WNW STOTESBURY [37.99, -94.64], 4.2 WNW STOTESBURY [37.99, -94.64]				
	07/06/10 07:00 CST		2K	Flash Flood (due to Heavy Rain)
	07/06/10 13:00 CST		0	Source: Emergency Manager
The low water area on 255 Street was closed between Valley and Wagon Roads. Damage to the road surface by flood waters kept the road closed after the water had receded.				
WRIGHT COUNTY --- 1.8 SE NORWOOD [37.10, -92.41]				
	07/06/10 17:00 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/06/10 17:00 CST		0	Source: Amateur Radio
The Wright County Sheriff reported damage to a barn, several downed trees, and a home due to a fallen tree near the intersection of Art Kelly Road and Highway C.				
The remnants of a weak tropical circulation over Louisiana spread deep moisture into the Ozarks. This interacted with a stalled front and numerous outflow boundaries which produced persistent, heavy rain producing, thunderstorms across the region.				
JASPER COUNTY --- 0.5 NE CARTHAGE [37.18, -94.32], 0.5 NE CARTHAGE [37.18, -94.31], 0.6 NE CARTHAGE [37.18, -94.31], 0.6 NNE CARTHAGE [37.18, -94.31]				
	07/08/10 08:40 CST		0	Flash Flood (due to Heavy Rain)
	07/08/10 15:00 CST		0	Source: Newspaper
Several road closures occurred due to flooding including Garrison Street at the intersection of Central and 4th.				
WEBSTER COUNTY --- 1.1 W SEYMOUR [37.15, -92.80], 1.1 W SEYMOUR [37.15, -92.80], 1.2 W SEYMOUR [37.15, -92.80], 1.2 W SEYMOUR [37.15, -92.80]				
	07/08/10 18:02 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 00:00 CST		0	Source: Fire Department/Rescue
Finley Falls Road west of Seymour was reported as impassable due to water flowing over the roadway.				
WEBSTER COUNTY --- 0.6 E SEYMOUR [37.15, -92.77], 0.2 NE SEYMOUR [37.15, -92.78], 0.3 S SEYMOUR [37.15, -92.78], 0.9 ESE SEYMOUR [37.14, -92.77]				
	07/08/10 18:25 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 00:00 CST		0	Source: Emergency Manager
Many streets were reported as flooded in Seymour with up to one foot of flowing water.				
WEBSTER COUNTY --- 0.6 E SEYMOUR [37.15, -92.77], 0.6 E SEYMOUR [37.15, -92.77], 0.6 E SEYMOUR [37.15, -92.77], 0.6 E SEYMOUR [37.15, -92.77]				
	07/08/10 19:15 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 01:00 CST		0	Source: Emergency Manager
Rising flood waters from very heavy rainfall threatened the Seymour Senior Citizen Center. The center was evacuated as a result.				
LACLEDE COUNTY --- 0.9 SE SLEEPER [37.74, -92.59], 0.9 ESE SLEEPER [37.74, -92.59], 0.8 ESE SLEEPER [37.74, -92.59], 0.8 SE SLEEPER [37.74, -92.59]				
	07/08/10 19:25 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 01:00 CST		0	Source: Emergency Manager
The Interstate 44 east bound exit ramp at mile marker 135 flooded. Moving water of at least one foot in depth made the road impassable.				
HICKORY COUNTY --- 1.8 ESE GALMAY [37.89, -93.35], 1.8 ESE GALMAY [37.89, -93.35], 1.8 ESE GALMAY [37.89, -93.35], 1.7 ESE GALMAY [37.89, -93.35]				
	07/08/10 19:30 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 01:00 CST		0	Source: COOP Observer
An observer's driveway was impassable due to flooding after 1.71 inches of rain fell in 1 hour.				
WEBSTER COUNTY --- 1.5 W SEYMOUR [37.15, -92.81], 1.5 W SEYMOUR [37.15, -92.81], 0.9 W SEYMOUR [37.15, -92.80], 1.0 W SEYMOUR [37.15, -92.80]				

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	07/08/10 19:35 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 01:00 CST		0	Source: Emergency Manager
A water rescue was performed in near waist deep, flowing water near the intersection of Findley Falls and Burnett Roads.				
CEDAR COUNTY --- 5.3 ENE SEXON [37.79, -93.59], 4.4 NE SEXON [37.79, -93.61], 4.5 NE SEXON [37.80, -93.62], 5.2 NE SEXON [37.80, -93.59]				
	07/08/10 19:53 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 02:00 CST		0	Source: Law Enforcement
Missouri State Highway N, east of Highway AA, was flooded and impassable due to high water.				
WEBSTER COUNTY --- 0.5 ENE SEYMOUR [37.15, -92.77], 0.5 NE SEYMOUR [37.15, -92.77], 0.6 ENE SEYMOUR [37.15, -92.77], 0.5 ENE SEYMOUR [37.15, -92.77]				
	07/08/10 20:30 CST		2K	Flash Flood (due to Heavy Rain)
	07/09/10 02:00 CST		0	Source: Emergency Manager
Flood water from heavy rainfall entered two homes on Division Street in Seymour.				
PULASKI COUNTY --- 4.6 N ROBERT [37.90, -92.15], 4.6 N ROBERT [37.90, -92.14], 4.5 N ROBERT [37.89, -92.14], 4.5 N ROBERT [37.89, -92.15]				
	07/08/10 21:30 CST		0	Flash Flood (due to Heavy Rain)
	07/09/10 03:00 CST		0	Source: Law Enforcement
State Highway Y, near the intersection of Lydia Lane was water covered.				
Localized flash flooding occurred as a slow moving front interacted with a very moist air mass. This produced very efficient rain producing thunderstorms.				
MORGAN COUNTY --- 2.8 S GLENSTED [38.48, -92.87]				
	07/11/10 12:57 CST		0	Hail (0.75 in)
	07/11/10 12:57 CST		0	Source: Law Enforcement
MORGAN COUNTY --- 2.8 S GLENSTED [38.48, -92.87]				
	07/11/10 12:57 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 12:57 CST		0	Source: Law Enforcement
A county sheriff's deputy reported a 60 mph wind gust at the intersection of Highways BB and D.				
BENTON COUNTY --- 1.8 WSW BRANDON [38.51, -93.46]				
	07/11/10 13:15 CST		3K	Thunderstorm Wind (EG 52 kt)
	07/11/10 13:15 CST		0	Source: Law Enforcement
Thunderstorm winds downed 6 to 12 inch diameter trees and detached a porch from a home.				
MORGAN COUNTY --- 0.9 E VERSAILLES OTTEN ARP [38.43, -92.85], 0.9 E VERSAILLES OTTEN ARP [38.43, -92.85], 0.9 E VERSAILLES OTTEN ARP [38.43, -92.85], 0.9 E VERSAILLES OTTEN ARP [38.43, -92.85]				
	07/11/10 13:28 CST		0	Flash Flood (due to Heavy Rain)
	07/11/10 19:00 CST		0	Source: Trained Spotter
Water was reported over the road at Highway 52 and Westview Road.				
MILLER COUNTY --- 2.6 NW TUSCUMBIA [38.26, -92.50]				
	07/11/10 13:35 CST		25K	Hail (1.75 in)
	07/11/10 13:35 CST		0	Source: Emergency Manager
Numerous windows were broken out of vehicles and homes along Highway 52. Several roofs were also damaged with holes noted in siding.				
BENTON COUNTY --- 0.7 S COLE CAMP [38.46, -93.20]				
	07/11/10 13:36 CST		0	Hail (0.88 in)
	07/11/10 13:36 CST		0	Source: Law Enforcement
BENTON COUNTY --- 0.7 S COLE CAMP [38.46, -93.20], 0.7 S COLE CAMP [38.46, -93.20], 0.7 S COLE CAMP [38.46, -93.20], 0.7 S COLE CAMP [38.46, -93.20]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/11/10 13:37 CST		0	Flash Flood (due to Heavy Rain)
	07/11/10 19:00 CST		0	Source: Law Enforcement

The County Sherriff reported that a water rescue was performed where three feet of running water was over the road. No injuries were reported.

MILLER COUNTY --- 0.5 E TUSCUMBIA [38.23, -92.46]				
	07/11/10 13:45 CST		0	Hail (1.75 in)
	07/11/10 13:45 CST		0	Source: Law Enforcement

MORGAN COUNTY --- 4.9 S GRAVOIS MILLS ARPT [38.20, -92.83]				
	07/11/10 14:05 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/11/10 14:05 CST		0	Source: Law Enforcement

Several power lines and tree limbs were reported down in the town of Laurie and also along Seals Road in central Morgan County.

DOUGLAS COUNTY --- 0.6 W AVA [36.95, -92.66]				
	07/11/10 14:10 CST		0	Hail (0.88 in)
	07/11/10 14:10 CST		0	Source: Law Enforcement

MILLER COUNTY --- 3.0 SW BAGNELL [38.20, -92.64]				
	07/11/10 14:15 CST		3K	Thunderstorm Wind (EG 55 kt)
	07/11/10 14:15 CST		0	Source: Emergency Manager

Roof damage occurred to a business on Business Highway 54 just west of the dam.

MORGAN COUNTY --- 0.5 W VERSAILLES [38.43, -92.84], 2.2 ESE STOVER [38.44, -92.94], 3.5 S ZWANZIG [38.28, -92.93], 2.3 SE GRAVOIS MILLS [38.30, -92.79]				
	07/11/10 14:30 CST		0	Flash Flood (due to Heavy Rain)
	07/11/10 20:00 CST		0	Source: Law Enforcement

Numerous low water crossings throughout Morgan County were reported to have been flooded.

MILLER COUNTY --- 1.1 NNW ST ANTHONY [38.19, -92.29], 0.8 N ST ANTHONY [38.18, -92.28], 1.0 NNW ST ANTHONY [38.18, -92.29], 1.1 NNW ST ANTHONY [38.18, -92.29]				
	07/11/10 14:45 CST		1K	Flash Flood (due to Heavy Rain)
	07/11/10 21:00 CST		0	Source: Emergency Manager

State Highway A was flooded and the road surface was damaged.

MILLER COUNTY --- 2.2 WNW WEST AURORA [38.33, -92.64], 2.4 WNW WEST AURORA [38.33, -92.64], 2.4 WNW WEST AURORA [38.33, -92.64], 2.3 WNW WEST AURORA [38.33, -92.64]				
	07/11/10 14:45 CST		0	Flash Flood (due to Heavy Rain)
	07/11/10 21:00 CST		0	Source: Emergency Manager

The intersection of Highways Y and Z was flooded and closed.

PULASKI COUNTY --- WAYNESVILLE [37.83, -92.20]				
	07/11/10 14:50 CST		5K	Thunderstorm Wind (EG 55 kt)
	07/11/10 14:50 CST		0	Source: Trained Spotter

Thunderstorm winds snapped several 12 inch diameter trees in half, blew shingles off of homes, and downed sections of a wooden fence.

PULASKI COUNTY --- WAYNESVILLE [37.83, -92.20]				
	07/11/10 14:51 CST		2K	Thunderstorm Wind (EG 52 kt)
	07/11/10 14:51 CST		0	Source: Law Enforcement

Trees and power lines were reported down just north of Waynesville on Highway 17.

PULASKI COUNTY --- 2.1 NNW BLOODLAND [37.71, -92.16]				
	07/11/10 14:58 CST		0	Thunderstorm Wind (MG 53 kt)
	07/11/10 14:58 CST		0	Source: AWOS

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An automated weather station reported a 53 knot gust.				
PHELPS COUNTY --- 0.9 SE ROLLA [37.94, -91.76]				
	07/11/10 15:20 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 15:20 CST		0	Source: Public
Several large tree limbs were reported down.				
PHELPS COUNTY --- 2.8 ENE VIDA [37.86, -91.77]				
	07/11/10 15:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 15:35 CST		0	Source: Amateur Radio
Several large trees and numerous large limbs were reported down.				
DENT COUNTY --- 0.6 E SALEM [37.65, -91.54]				
	07/11/10 15:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 15:50 CST		0	Source: Emergency Manager
A few power lines were reported down.				
DALLAS COUNTY --- 3.1 ENE URBANA [37.85, -93.12]				
	07/11/10 16:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 16:30 CST		0	Source: Emergency Manager
A two foot diameter tree was reported down across Grayling Road along State Road BB north of the town of Urbana.				
POLK COUNTY --- 0.9 SE BOLIVAR [37.61, -93.41], 0.4 SSE BOLIVAR [37.62, -93.42], 0.6 E BOLIVAR [37.62, -93.41], 0.9 ESE BOLIVAR [37.61, -93.41]				
	07/11/10 16:45 CST		0	Flash Flood (due to Heavy Rain)
	07/11/10 23:00 CST		0	Source: County Official
Street flooding caused a car to stall in high water.				
MILLER COUNTY --- 0.5 E TUSCUMBIA [38.23, -92.46], 3.8 WSW TUSCUMBIA [38.20, -92.53], 4.1 W ULMAN [38.18, -92.52], 1.4 ESE TUSCUMBIA [38.22, -92.45]				
	07/11/10 17:00 CST		0	Flash Flood (due to Heavy Rain)
	07/11/10 23:00 CST		0	Source: Law Enforcement
Numerous low water crossings were flooded.				
BARTON COUNTY --- 1.5 NNE IRWIN [37.60, -94.29]				
	07/11/10 17:07 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 17:07 CST		0	Source: Storm Chaser
Metal caution and speed limit signs were blown into both lanes of construction zone on US 71.				
GREENE COUNTY --- 1.1 E WILLARD [37.30, -93.41]				
	07/11/10 17:55 CST		0	Hail (1.00 in)
	07/11/10 17:55 CST		0	Source: Emergency Manager
HOWELL COUNTY --- WEST PLAINS [36.73, -91.85], 4.6 E MOODY [36.52, -91.90], 4.6 ENE LANTON [36.53, -91.72], 3.4 SW FANCHON [36.76, -91.74]				
	07/11/10 17:55 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 00:00 CST		0	Source: Emergency Manager
Numerous low water crossings were flooded.				
GREENE COUNTY --- 0.6 E SPRINGFIELD [37.20, -93.29]				
	07/11/10 18:00 CST		0	Hail (0.75 in)
	07/11/10 18:00 CST		0	Source: Emergency Manager
CHRISTIAN COUNTY --- 0.9 SE NIXA [37.04, -93.29]				

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	07/11/10 18:20 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 18:20 CST		0	Source: Emergency Manager
Several trees were downed and blocking Pawnee and West Glenn Roads.				
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CHRISTIAN COUNTY --- 0.6 E OZARK [37.02, -93.21]				
	07/11/10 18:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 18:30 CST		0	Source: Emergency Manager
A few power lined were reported down.				
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CHRISTIAN COUNTY --- 0.6 E OZARK [37.02, -93.21]				
	07/11/10 18:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 18:30 CST		0	Source: Emergency Manager
A few power lines were reported down.				
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GREENE COUNTY --- 2.0 WNW SGF DOWNTOWN ARPT [37.23, -93.26], 1.8 WNW SGF DOWNTOWN ARPT [37.23, -93.26], 1.8 WNW SGF DOWNTOWN ARPT [37.23, -93.26], 1.9 WNW SGF DOWNTOWN ARPT [37.23, -93.26]				
	07/11/10 18:30 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 01:00 CST		0	Source: Emergency Manager
Two feet of water was flowing over the road at Glenstone Avenue and Commercial Streets.				
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DOUGLAS COUNTY --- 0.6 W AVA [36.95, -92.66]				
	07/11/10 18:32 CST		0	Thunderstorm Wind (EG 52 kt)
	07/11/10 18:32 CST		0	Source: Emergency Manager
A large tree was reported across Highways 5 South and West Highway 76.				
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GREENE COUNTY --- 1.4 NW SEQUIOTA [37.16, -93.25], 1.4 SW LANGSTON [37.17, -93.25], 1.6 SW LANGSTON [37.17, -93.25], 1.5 NW SEQUIOTA [37.16, -93.25]				
	07/11/10 20:00 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 02:00 CST		0	Source: NWS Employee
Two feet of water was reported flowing over Marlin and Edgewood Roads.				
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GREENE COUNTY --- 0.8 NW SEQUIOTA [37.16, -93.24], 0.7 NW SEQUIOTA [37.16, -93.24], 0.8 NW SEQUIOTA [37.16, -93.24], 0.9 NW SEQUIOTA [37.16, -93.24]				
	07/11/10 20:22 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 02:00 CST		0	Source: NWS Employee
A foot of water over was reported covering the intersection of Battlefield and Lone Pine Roads.				
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GREENE COUNTY --- 0.6 E SPRINGFIELD [37.20, -93.29], 0.5 ENE SPRINGFIELD [37.20, -93.29], 0.7 ENE SPRINGFIELD [37.20, -93.29], 0.7 E SPRINGFIELD [37.20, -93.29]				
	07/11/10 20:55 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 03:00 CST		0	Source: Broadcast Media
Three feet of water at was reported at the intersection of Manchester and Glendale Roads. Flooding also occurred in the park near the intersection.				
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TANEY COUNTY --- 1.7 NNE TANEYVILLE [36.75, -93.02], 1.3 E SWAN [36.80, -93.05], 1.5 WSW SWAN [36.80, -93.10], 2.0 W DICKENS [36.73, -93.09]				
	07/11/10 21:00 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 03:00 CST		0	Source: Emergency Manager
Numerous low water crossings north of Taneyville, were reported to have been flooded.				
Convective clusters with bowing segments and a few supercells produced scattered wind damage and a few reports of hail. In addition, heavy rainfall in excess of three inches occurred at some locations resulted in localized flash flooding.				
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GREENE COUNTY --- 2.7 S NICHOLS [37.18, -93.36], 2.8 S NICHOLS [37.18, -93.37], 3.3 E BROOKLINE [37.17, -93.37], 3.0 S NICHOLS [37.18, -93.36]				

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/10 01:30 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 08:00 CST		0	Source: Law Enforcement

Approximately 6 inches of running water was reported flowing over the intersection of Farm Roads 151 and 123.

HOWELL COUNTY --- 0.9 SE LEOTA [36.52, -92.02], 0.5 ESE LEOTA [36.53, -92.02], 1.3 WSW MOODY [36.52, -92.00], 1.6 WSW MOODY [36.52, -92.00]

	07/12/10 01:40 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 08:00 CST		0	Source: Law Enforcement

State Route 142 was closed between Highways FF and E due to flooding. Law enforcement reported that numerous additional low water crossings across the southern half of Howell County were full with running water to unknown depth.

OZARK COUNTY --- 0.9 NE MAMMOTH [36.54, -92.39], 1.2 NE MAMMOTH [36.54, -92.39], 1.6 ENE MAMMOTH [36.54, -92.37], 1.2 ENE MAMMOTH [36.53, -92.38]

	07/12/10 01:45 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 08:00 CST		0	Source: Law Enforcement

A water rescue was performed at a low water crossing on Highway T near Possum Walk Creek.

OZARK COUNTY --- 1.7 W MAMMOTH [36.53, -92.43], 1.3 NNW MAMMOTH [36.55, -92.41], 1.6 ENE MAMMOTH [36.54, -92.37], 1.3 E MAMMOTH [36.53, -92.38]

	07/12/10 01:45 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 08:00 CST		0	Source: Law Enforcement

Highway T in the vicinity of Lick Creek was closed due to flooding.

OZARK COUNTY --- 3.6 NNW ELIJAH [36.67, -92.17], 3.4 N ELIJAH [36.67, -92.14], 2.9 N ELIJAH [36.66, -92.14], 3.0 NNW ELIJAH [36.66, -92.17]

	07/12/10 01:45 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 08:00 CST		0	Source: Law Enforcement

County Road 350 near Spring Creek was closed due to flooding.

WEBSTER COUNTY --- 3.1 W ROGERSVILLE [37.12, -93.13], 3.5 W ROGERSVILLE [37.11, -93.13], 2.3 WSW ROGERSVILLE [37.11, -93.11], 2.0 W ROGERSVILLE [37.12, -93.11]

	07/12/10 02:00 CST		0	Flash Flood (due to Heavy Rain)
	07/12/10 08:00 CST		0	Source: Law Enforcement

Over two feet of water was flowing over the road near the intersection of Highways 60 and 125 near the Rogersville High School.

BARTON COUNTY --- 2.6 N LAMAR [37.54, -94.27], 2.7 NNE LAMAR [37.54, -94.27]

	07/12/10 14:47 CST		0	Tornado (EF0, L: 0.27 mi , W: 25 yd)
	07/12/10 14:50 CST		0	Source: NWS Storm Survey

A National Weather Service storm survey team confirmed that an EF-0 tornado with estimated winds of 75 mph tracked from west to east about one quarter of a mile and uprooted two trees.

BARTON COUNTY --- 0.6 E MILFORD [37.58, -94.16]

	07/12/10 14:55 CST		0	Hail (1.00 in)
	07/12/10 14:55 CST		0	Source: Emergency Manager

NEWTON COUNTY --- 0.9 SW SENECA [36.84, -94.61]

	07/12/10 20:25 CST		0	Thunderstorm Wind (EG 52 kt)
	07/12/10 20:25 CST		0	Source: Law Enforcement

Several trees were reported down in town.

NEWTON COUNTY --- REDINGS MILL [37.02, -94.52]

	07/12/10 20:30 CST		0	Thunderstorm Wind (EG 52 kt)
	07/12/10 20:30 CST		0	Source: Emergency Manager

Several large tree limbs were reported down and blocking the west bound lane of Gumm Road near Redings Mill.

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MCDONALD COUNTY --- 0.7 S PINEVILLE [36.59, -94.38]				
	07/12/10 20:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/12/10 20:50 CST		0	Source: Law Enforcement
A large tree was reported down in town.				
MCDONALD COUNTY --- NOEL [36.55, -94.48]				
	07/12/10 20:55 CST		0	Thunderstorm Wind (EG 52 kt)
	07/12/10 20:55 CST		0	Source: Law Enforcement
A large tree was reported down in town.				
MCDONALD COUNTY --- 3.5 SSE KLONDIKE [36.67, -94.61], 3.7 SSE KLONDIKE [36.67, -94.60], 3.5 SSE KLONDIKE [36.67, -94.60], 3.3 SSE KLONDIKE [36.67, -94.60]				
	07/12/10 21:30 CST		0	Flash Flood (due to Heavy Rain)
	07/13/10 03:00 CST		0	Source: Law Enforcement
A low water crossing on Highway 43 along the Buffalo Creek was flooded and impassable.				
JASPER COUNTY --- 0.6 E JOPLIN [37.08, -94.51]				
	07/12/10 22:13 CST		30K	Lightning
	07/12/10 22:13 CST		0	Source: Emergency Manager
A home caught on fire from a lightning strike in the city of Joplin.				
NEWTON COUNTY --- 3.5 N DIAMOND [37.05, -94.31], 3.7 WNW PEPSIN [37.05, -94.31], 3.8 N DIAMOND [37.06, -94.32], 3.5 N DIAMOND [37.05, -94.32]				
	07/13/10 03:30 CST		0	Flash Flood (due to Heavy Rain)
	07/13/10 09:00 CST		0	Source: Law Enforcement
The intersection of Highway 59 and FF was flooded and closed.				
JASPER COUNTY --- 1.8 NW DUQUESNE [37.10, -94.49], 1.2 E CHITWOOD [37.10, -94.53], 0.9 NNW JOPLIN [37.09, -94.53], 1.1 WNW DUQUESNE [37.09, -94.49]				
	07/13/10 05:45 CST		2K	Flash Flood (due to Heavy Rain)
	07/13/10 12:00 CST		0	Source: Public
Several streets in the northeast side of Joplin experienced flash flooding due to excessive rainfall. Several home owners experienced flood water running into garages. One home owner had two inches of standing water in his garage.				
Storms developed along a remnant boundary across southwest Missouri during the afternoon. Ample instability in conjunction with the development of storms along the boundary, developed a brief EF-0 tornado which touched down in Barton County. Additional storms produce areas of heavy rainfall, high winds and hail. During the evening hours, a supercell which developed over southeast Kansas moved across extreme southwest Missouri, producing hail, wind damage and flooding after producing an EF-1 tornado in Cherokee County, Kansas.				
DOUGLAS COUNTY --- 2.8 W SWEDEN [36.87, -92.55], 2.3 WSW SWEDEN [36.87, -92.54], 2.0 ENE SQUIRES [36.86, -92.59], 1.7 ENE SQUIRES [36.86, -92.59]				
	07/15/10 17:40 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 00:00 CST		0	Source: Emergency Manager
Flash flooding occurred along Highway P southeast of Ava in between Highway 14 and Highway N.				
GREENE COUNTY --- 0.6 E SPRINGFIELD [37.20, -93.29]				
	07/16/10 15:57 CST		0	Hail (0.75 in)
	07/16/10 15:57 CST		0	Source: Amateur Radio
GREENE COUNTY --- 0.8 SSE SPRINGFIELD [37.19, -93.29]				
	07/16/10 15:57 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/10 15:57 CST		0	Source: Amateur Radio
Thunderstorm winds downed a large tree near the intersection of West Bennett Street and South Campbell Avenue.				

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GREENE COUNTY --- 0.6 E SPRINGFIELD [37.20, -93.29], 1.2 SSW NICHOLS [37.20, -93.38], 1.6 N BATTLEFIELD [37.14, -93.38], 0.6 S GALLOWAY [37.12, -93.23], 1.2 N LANGSTON [37.20, -93.23]				
	07/16/10 16:08 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 18:00 CST		0	Source: Emergency Manager
Widespread street flooding was reported in southern parts of the city of Springfield.				
GREENE COUNTY --- 0.7 SSW SPRINGFIELD [37.19, -93.30], 0.5 SSW SPRINGFIELD [37.19, -93.30], 0.6 SE SPRINGFIELD [37.19, -93.29], 0.8 SSE SPRINGFIELD [37.19, -93.29]				
	07/16/10 16:15 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 22:00 CST		0	Source: NWS Employee
Fassnight Creek in Springfield was flowing out of its banks and flooding nearby streets.				
NEWTON COUNTY --- NEOSHO [36.87, -94.37], 1.7 S NEOSHO [36.85, -94.38], 1.5 SSE NEOSHO [36.85, -94.36], 0.3 ESE NEOSHO [36.87, -94.37]				
	07/16/10 16:29 CST		10K	Flash Flood (due to Heavy Rain)
	07/16/10 18:00 CST		0	Source: Law Enforcement
Widespread street flooding was reported in the city of Neosho. Several cars were pushed off of roadways by high water.				
NEWTON COUNTY --- 2.8 SSW SENECA [36.81, -94.61]				
	07/16/10 17:30 CST		1K	Thunderstorm Wind (EG 56 kt)
	07/16/10 17:30 CST		0	Source: Law Enforcement
Thunderstorm winds damaged an outbuilding.				
MCDONALD COUNTY --- 4.1 SW COY [36.63, -94.59], 4.2 SW COY [36.63, -94.59], 4.2 SW COY [36.63, -94.59], 4.1 SW COY [36.63, -94.59]				
	07/16/10 18:00 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 19:20 CST		0	Source: Law Enforcement
High water flooded a low water crossing near Missouri Highway 43 and Langley Road.				
WEBSTER COUNTY --- 0.6 E HENDERSON [37.15, -93.06]				
	07/16/10 18:00 CST		1K	Thunderstorm Wind (EG 52 kt)
	07/16/10 18:00 CST		0	Source: Broadcast Media
Thunderstorm winds damaged trees and an outbuilding along Missouri Highway B just north of Rogersville.				
POLK COUNTY --- 1.5 ENE BOLIVAR [37.62, -93.39], 1.4 E BOLIVAR [37.62, -93.39], 1.6 E BOLIVAR [37.62, -93.39], 1.6 ENE BOLIVAR [37.62, -93.39]				
	07/16/10 18:21 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 20:00 CST		0	Source: Law Enforcement
High water briefly closed Highway D north of Highway 32 in Bolivar.				
MCDONALD COUNTY --- 2.3 ESE MT SHIRA [36.57, -94.43], 2.3 ESE MT SHIRA [36.57, -94.43], 2.3 WSW HAVENHURST [36.57, -94.42], 2.3 WSW HAVENHURST [36.57, -94.42]				
	07/16/10 18:30 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 21:00 CST		0	Source: Public
High water caused the closure of a segment of Missouri Highway H in McDonald County.				
NEWTON COUNTY --- 3.5 S SENECA [36.80, -94.61], 3.5 SSW SENECA [36.80, -94.61], 3.6 SSW SENECA [36.80, -94.61], 3.5 S SENECA [36.80, -94.61]				
	07/16/10 19:03 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 21:00 CST		0	Source: Law Enforcement
High water closed Missouri Highway 43 just north of Highway DD.				
DADE COUNTY --- 1.5 SSW PENNSBORO [37.31, -93.86], 1.4 SSW PENNSBORO [37.31, -93.86], 1.5 SSW PENNSBORO [37.31, -93.86]				
	07/16/10 19:22 CST		0	Flash Flood (due to Heavy Rain)
	07/16/10 22:00 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
High water flooded a low water crossing at Farm Road 182 about a half mile west of Missouri Highway 39.				
TEXAS COUNTY --- 0.6 E LICKING [37.50, -91.86]				
	07/16/10 20:15 CST	0		Thunderstorm Wind (EG 52 kt)
	07/16/10 20:15 CST	0		Source: Law Enforcement
Law enforcement estimated thunderstorm wind gusts of 60 mph.				
Scattered thunderstorms developed in a very moist summer time air mass. Storms develop and moved very slowly producing localized flooding along with localized downburst winds.				
PHELPS COUNTY --- 1.1 E ROLLA [37.95, -91.75]				
	07/18/10 08:47 CST	0		Thunderstorm Wind (EG 52 kt)
	07/18/10 08:47 CST	0		Source: Law Enforcement
Thunderstorm winds downed tree limbs on the east side of Rolla.				
PHELPS COUNTY --- 4.9 S ROSATI [37.96, -91.54], 5.3 NNE VILEAN [37.95, -91.54], 5.2 S ROSATI [37.95, -91.53], 4.8 S ROSATI [37.96, -91.53]				
	07/19/10 03:35 CST	0		Flash Flood (due to Heavy Rain)
	07/19/10 06:00 CST	0		Source: Law Enforcement
Very heavy rainfall from slow moving thunderstorms flooded the Maramec Spring Campground in eastern Phelps County . The flooding forced an evacuation of the campground at 445 am.				
PHELPS COUNTY --- 4.9 S ROSATI [37.96, -91.54], 4.7 S ROSATI [37.96, -91.53], 5.4 S ROSATI [37.95, -91.52], 4.7 ENE ZION HILL [37.95, -91.55]				
	07/19/10 05:30 CST	0		Flash Flood (due to Heavy Rain)
	07/19/10 12:00 CST	0		Source: Park/Forest Service
Water, a foot and a half deep, was flowing over road to the campground in Maramec Spring State Park.				
Isolated thunderstorms developed during the late afternoon and continued into the early morning. Isolated serious flash flooding occurred in central Missouri. Some isolated wind damage also occurred.				
BENTON COUNTY --- 4.3 NE WARSAW [38.29, -93.32]				
	07/20/10 18:38 CST	0		Thunderstorm Wind (EG 52 kt)
	07/20/10 18:38 CST	0		Source: Law Enforcement
Thunderstorm winds downed a tree near the intersection of Missouri Highways BB and OO.				
MORGAN COUNTY --- 2.6 SW GRAVOIS MILLS ARPT [38.24, -92.85]				
	07/20/10 19:05 CST	0		Thunderstorm Wind (EG 52 kt)
	07/20/10 19:05 CST	0		Source: Law Enforcement
Thunderstorm winds downed a tree onto a roadway.				
LACLEDE COUNTY --- 1.1 E ELDRIDGE [37.83, -92.75]				
	07/20/10 19:40 CST	10K		Thunderstorm Wind (EG 61 kt)
	07/20/10 19:40 CST	0		Source: Emergency Manager
Thunderstorm winds caused a radio tower to fall onto a fire station building.				
Back building thunderstorms developed across the Missouri Ozarks in response to an upper level short wave and a very moist air mass in place across the region. The storms produced isolated high winds causing sporadic wind damage.				
PHELPS COUNTY --- ROLLA [37.95, -91.77]				
	07/21/10 13:00 CST	5K		Lightning
	07/21/10 13:00 CST	0		Source: Law Enforcement
Lightning damaged a vehicle and caused it's air bags to deploy.				
CAMDEN COUNTY --- 5.8 ESE FREEDOM [38.00, -92.48], 6.6 NE WET GLAIZE [38.00, -92.46]				
	07/21/10 17:00 CST	0		Thunderstorm Wind (EG 52 kt)
	07/21/10 17:00 CST	0		Source: County Official

Storm Data and Unusual Weather Phenomena - July 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A large tree was reported down across Twelve Corners Road.

Isolated air mass thunderstorms during the early evening produced strong winds and near continuous lightning across portions of central Missouri.

HICKORY COUNTY --- 1.4 N ELKTON [37.87, -93.43]

07/26/10 16:35 CST	0	Hail (0.75 in)
07/26/10 16:35 CST	0	Source: Law Enforcement

Scattered thunderstorms developed during the early evening hours in a moist and unstable atmosphere. Numerous outflow boundaries aided in the development of storms which produced small hail.

CHRISTIAN COUNTY --- 2.8 N CHRISTIAN CENTER [36.97, -93.17]

07/29/10 15:49 CST	15K	Thunderstorm Wind (EG 52 kt)
07/29/10 15:49 CST	0	Source: Public

A roof of a hay barn was damaged and collapsed onto a nearby horse barn along Missouri Highway W south of Ozark.

BENTON COUNTY --- 3.3 WNW COLE CAMP [38.48, -93.26], 3.0 WNW COLE CAMP [38.48, -93.25], 3.1 SW MORA [38.48, -93.25], 3.2 SW MORA [38.48, -93.26]

07/29/10 16:30 CST	0	Flash Flood (due to Heavy Rain)
07/29/10 17:30 CST	0	Source: COOP Observer

Heavy rains from thunderstorms briefly flooded the roadway at the intersection of Hi Lonesome Road and Morarity Avenue northwest of Cole Camp.

PHELPS COUNTY --- 1.0 E ROLLA [37.95, -91.75], 1.0 E ROLLA [37.95, -91.75], 1.0 E ROLLA [37.95, -91.75], 1.0 E ROLLA [37.95, -91.75]

07/29/10 17:59 CST	0	Flash Flood (due to Heavy Rain)
07/29/10 19:00 CST	0	Source: Trained Spotter

Heavy rainfall from thunderstorms produced street flooding in Rolla at 10th Street and Forum Drive. One to two feet of water was flowing over the roadway.

Isolated thunderstorms developed across portions of the Missouri Ozarks during the early evening. The storms developed in a very moist and unstable atmosphere and produced isolated heavy rain and flash flooding along with localized wind damage.