

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ILLINOIS, South

ALEXANDER COUNTY --- 2.7 ESE CAIRO [36.98, -89.14], 1.8 SSE CAIRO [36.98, -89.17], 0.8 WSW URBAN DALE [37.05, -89.19], 0.2 N URBAN DALE [37.05, -89.18]

05/01/19 00:00 CST	50K	Flood (due to Heavy Rain)
05/31/19 23:59 CST	50K	Source: River/Stream Gage

The Ohio River rose above flood stage at Cairo on February 8 and remained above flood stage through the remainder of the spring. This was the most prolonged flood on the Ohio River at Cairo, IL since records began in the late 1800's. The highest recorded stage in the month of May (2019) was 50.53 feet, which corresponds to the moderate flood category. At this stage, the flooding has a major impact on farming operations in the flood plain, causing some farmers to lose crops. In this prolonged flood, farmers never really had the chance to plant in the flood plain. Flooding of riverside parks and recreational facilities occurred. A few side roads near the river were flooded. Due to the extended duration of the flooding, levees began to show signs of stress. There was concern about the stability of the levees, and seepage became a problem. Some roads nearest the levees began to buckle.

ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.8 SSW FAYVILLE [37.16, -89.44], 1.3 W MILLER CITY [37.12, -89.39], 0.8 NNE MILLER CITY [37.13, -89.36], 0.7 N THEBES JCT [37.21, -89.45]

05/01/19 00:00 CST	50K	Flood (due to Heavy Rain)
05/31/19 23:59 CST	50K	Source: River/Stream Gage

After rising above flood stage in mid-March, the Mississippi River remained above flood stage through the remainder of the spring. At the Thebes river gage, the river crested at 41.83 feet on May 8. However, the river started rising again late in the month. The May crest fell just a little shy of the major flooding category, which starts at 42 feet. A sewage plant at Thebes was inundated with flood water and was shut down, causing the community to be without sewage services. The Thebes Landing area of town was flooded. There was considerable flooding of low-lying farmland and woods. Some county roads were inundated. Since crop planting was not possible in areas that had been flooded all spring, direct crop losses were not high. Due to the extended duration of the flooding, levees began to show signs of stress. There was concern about the stability of the levees, and seepage became a problem. Some roads nearest the levees began to buckle.

FRANKLIN COUNTY --- PLUMFIELD [37.88, -89.00], 2.1 E REND CITY [38.03, -88.94], REND CITY [38.03, -88.98], 1.5 S URBAIN [37.95, -89.03], 2.3 E ROYALTON [37.87, -89.08], 2.6 S ZEIGLER [37.86, -89.05]

05/01/19 00:00 CST	0	Flood (due to Heavy Rain)
05/10/19 22:00 CST	0	Source: River/Stream Gage

After rising above flood stage in late April, minor flooding ended on upper portions of the Big Muddy River by mid May. Low-lying woods and fields were inundated, along with a few rural county roads.

GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 2.4 SW SHAWNEETOWN [37.67, -88.16], 2.0 SSW SHAWNEETOWN [37.67, -88.15], 0.3 SE SHAWNEETOWN [37.70, -88.13]

05/01/19 00:00 CST	0	Flood (due to Heavy Rain)
05/09/19 03:00 CST	0	Source: River/Stream Gage

The Ohio River fell back below flood stage early in the month at Shawneetown. The flooding there was generally minor, causing the delay of crop planting in the flood plain.

JACKSON COUNTY --- GRAND TOWER [37.63, -89.50], 0.4 WSW GRAND TOWER [37.63, -89.51], 2.7 SE NEUNERT [37.69, -89.52], 1.0 S GORHAM [37.71, -89.48]

05/01/19 00:00 CST	50K	Flood (due to Heavy Rain)
05/31/19 23:59 CST	0	Source: River/Stream Gage

The Mississippi River remained above flood stage through the month of May. There was considerable flooding of low-lying farmland and woods. Some county roads were inundated. Due to the extended duration of the flooding, levees began to show signs of stress. There was concern about the stability of the levees, and seepage became a problem. Some roads nearest the levees began to buckle.

JACKSON COUNTY --- MT CARBON [37.75, -89.33], 2.2 W MT CARBON [37.75, -89.37], 2.0 WNW MT CARBON [37.76, -89.36], 0.5 NW MT CARBON [37.76, -89.34]

05/01/19 00:00 CST	0	Flood (due to Heavy Rain)
05/31/19 23:59 CST	0	Source: River/Stream Gage

Lower portions of the Big Muddy River remained above flood stage from mid-March through the remainder of the spring. The flooding was partially due to backwater from the swollen Mississippi River. The highest crest during May was 31.01 feet on the 8th. This crest falls into the moderate flood category. Low-lying woods and fields near the river were flooded, along with sections of a riverfront park. A few streets near the river were flooded.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PULASKI COUNTY --- MOUND CITY [37.08, -89.17], 0.7 ESE MOUND CITY [37.08, -89.16], 2.5 SSE NEW GRAND CHAIN [37.22, -89.00], 0.9 SSE NEW GRAND CHAIN [37.24, -89.01], 0.7 WSW OLMSTED [37.18, -89.09]				
	05/01/19 00:00 CST		0	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		0	Source: River/Stream Gage
Moderate flooding of the Ohio River continued through the month of May. Much of the flooding was due to backwater from the swollen Mississippi River. Considerable flooding of low-lying woods, fields, and parks persisted. Typically, this scale of flooding has a large impact on farming in the flood plain. Due to the lack of planted crops during this extended flood, there was little in the way of direct crop losses.				
UNION COUNTY --- WARE [37.45, -89.40], 0.6 ENE REYNOLDSVILLE [37.37, -89.39], 1.3 WNW REYNOLDSVILLE [37.38, -89.42], 3.0 SSW WOLF LAKE [37.46, -89.46], 2.4 SW LARUE [37.51, -89.49], 1.3 WNW WOLF LAKE [37.51, -89.45]				
	05/01/19 00:00 CST		30K	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		0	Source: River/Stream Gage
The Mississippi River remained above flood stage through the month of May. There was considerable flooding of low-lying farmland and woods. Some county roads were inundated. Due to the extended duration of the flooding, levees began to show signs of stress. There was concern about the stability of the levees, and seepage became a problem. Some roads nearest the levees began to buckle.				
WABASH COUNTY --- MT CARMEL [38.42, -87.77], 1.5 E MT CARMEL [38.42, -87.74], 2.3 SSE PATTON [38.45, -87.73], 1.8 SSW PATTON [38.46, -87.76]				
	05/01/19 00:00 CST		0	Flood (due to Heavy Rain)
	05/28/19 18:00 CST		0	Source: River/Stream Gage
Minor flooding of the Wabash River that began in late April temporarily ended in late May. Fields and woodlands in the flood plain were inundated. Some county river roads were flooded. Access to river hunting cabins was blocked. A flood gate was installed at Mount Carmel.				
WHITE COUNTY --- 1.5 SSE CARMI MUNI ARPT [38.08, -88.14], 2.8 SSE CARMI [38.04, -88.15], 2.7 E BROWNSVILLE [38.03, -88.20], 2.0 SE TRUMBULL [38.06, -88.20], 0.4 SE CARMI [38.08, -88.16]				
	05/01/19 00:00 CST		0	Flood (due to Heavy Rain)
	05/14/19 13:00 CST		0	Source: River/Stream Gage
Minor flooding of the Little Wabash River that began in mid April ended in mid May. Low-lying cropland was flooded, along with some rural county roads.				
WHITE COUNTY --- MAUNIE [38.03, -88.05], 2.2 WNW MAUNIE [38.04, -88.09], 1.1 WNW PHILLIPSTOWN [38.16, -88.04], 4.0 E PHILLIPSTOWN [38.15, -87.95]				
	05/01/19 00:00 CST		0	Flood (due to Heavy Rain)
	05/12/19 02:00 CST		0	Source: River/Stream Gage
Minor flooding of the Wabash River that began in late April ended in mid May. Low-lying woods and fields near the river were inundated, along with a few county roads.				
Several rivers remained above flood stage due to a persistent wet pattern through the winter and spring. May rainfall totals cracked the top five in many locations. At Paducah, KY, 11.09 inches of rain fell, shattering the previous May record by over an inch. In Evansville, IN, 9.15 inches of rain fell, making this the fifth wettest May on record. Normally, 13 to 15 inches of rain falls between March and May. In 2019, however, between 15 and 20 inches of rain was common with some areas receiving between 20 and 25 inches. Paducah experienced its 5th wettest spring on record, with 23.34 inches of rain. Heavy rain was commonplace across most of the Midwest and upper Mississippi Valley, prompting widespread and long lasting flooding throughout the Mississippi, Missouri, and Illinois River basins.				
(IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z083) WHITE, (IL-Z087) GALLATIN				
	05/02/19 00:00 CST		0	Dense Fog
	05/02/19 05:00 CST		0	
Dense fog formed in the humid air just south of a stationary front that extended from central Illinois across central Indiana. Visibility was reduced to one-quarter mile or less during the overnight hours. The dense fog was mainly in the Wabash Valley and parts of the Interstate 64 corridor.				
JACKSON COUNTY --- (MDH)CRBNLD/MRFYSBRO [37.78, -89.25]				
	05/21/19 20:34 CST		0	Thunderstorm Wind (MG 52 kt)
	05/21/19 20:34 CST		0	Source: ASOS
A peak wind gust to 60 mph was measured by the automated observing system at the Carbondale airport.				
WILLIAMSON COUNTY --- CARTERVILLE [37.75, -89.08]				

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	05/21/19 21:15 CST		0	Hail (0.75 in)
	05/21/19 21:15 CST		0	Source: Trained Spotter

Wind gusts to 55 mph were also reported.

UNION COUNTY --- 3.0 SE ANNA [37.44, -89.21]

	05/21/19 21:19 CST		0	Thunderstorm Wind (EG 52 kt)
	05/21/19 21:19 CST		0	Source: Trained Spotter

A trained spotter estimated winds gusted to 60 mph at the intersection of U.S. Highway 51 and County Road 630N.

FRANKLIN COUNTY --- WEST FRANKFORT [37.90, -88.92], 2.0 E WEST FRANKFORT [37.90, -88.88]

	05/21/19 21:32 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/21/19 21:33 CST		0	Source: Broadcast Media

In West Frankfort, a large tree was uprooted and fell onto a detached garage. The garage sustained significant damage. A couple miles east of West Frankfort, one living tree was uprooted and a dead tree was snapped at the base.

FRANKLIN COUNTY --- 0.5 NE BENTON [38.01, -88.91], 0.5 NW BENTON [38.01, -88.93], 0.5 SW BENTON [37.99, -88.93], 0.5 SE BENTON [37.99, -88.91]

	05/21/19 22:00 CST		0	Flood (due to Heavy Rain)
	05/21/19 23:30 CST		0	Source: Trained Spotter

Some street flooding was reported on Route 37 in Benton.

JEFFERSON COUNTY --- WALTONVILLE [38.22, -89.05], 2.4 SE ROACHES [38.30, -89.06], 0.9 SE WOODLAWN [38.32, -89.02], 2.1 ENE WALTONVILLE [38.23, -89.01]

	05/21/19 22:18 CST		0	Flood (due to Heavy Rain)
	05/22/19 00:30 CST		0	Source: Trained Spotter

About four inches of water was over County Road 9.

An extensive line of thunderstorms moved east-northeast in a region of strong wind shear and weak to moderate instability. The storms occurred south of a warm front that extended from the St. Louis area eastward. Enhanced wind shear near the warm frontal zone resulted in locally increased storm intensity. Along the most intense portions of the line near bow echoes, some rotation was observed.

EDWARDS COUNTY --- 1.5 SW ALBION [38.36, -88.07]

	05/25/19 15:07 CST		25K	Thunderstorm Wind (EG 56 kt)
	05/25/19 15:07 CST		0	Source: Trained Spotter

A trained spotter reported a swath of downed trees and power lines near County Road 400.

An isolated thunderstorm pulsed up to severe levels during the very warm and humid late afternoon hours. A deep layer of southwest winds brought plenty of warm and unstable air into the region. The storm dissipated almost as quickly as it developed.

WILLIAMSON COUNTY --- JOHNSTON CITY [37.82, -88.93]

	05/26/19 12:10 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/26/19 12:10 CST		0	Source: Public

Tree limbs and power lines were blown down, causing power outages.

A rather pronounced upper-level shortwave trough moved eastward from the St. Louis area across the Ohio Valley in the afternoon. Daytime heating contributed to moderate instability, resulting in clusters of thunderstorms along a weak stationary front from southern Illinois across southern Indiana. An isolated damaging wind gust accompanied one of the most intense storms.

WHITE COUNTY --- MAUNIE [38.03, -88.05], 1.5 E PHILLIPSTOWN [38.15, -87.99], 3.8 E PHILLIPSTOWN [38.15, -87.95], 4.6 SE PHILLIPSTOWN [38.10, -87.96], 3.8 ENE MAUNIE [38.06, -87.99]

	05/29/19 04:00 CST		0	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		0	Source: River/Stream Gage

WHITE COUNTY --- CARMi [38.08, -88.17], 1.7 ESE BROWNSVILLE [38.02, -88.22], 3.3 N HERALD [38.02, -88.18], 1.8 SSE CARMi MUNI ARPT [38.08, -88.13]

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/30/19 12:00 CST		0	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		0	Source: River/Stream Gage

WABASH COUNTY --- 1.4 E MT CARMEL [38.42, -87.74], 2.1 SSE PATTON [38.45, -87.74], 1.9 S PATTON [38.45, -87.75], 0.7 E MT CARMEL [38.42, -87.76]

05/31/19 08:00 CST	0	Flood (due to Heavy Rain)
05/31/19 23:59 CST	0	Source: River/Stream Gage

In response to repeated thunderstorms in late May, the Wabash and Little Wabash Rivers rose back above flood stage. The flooding was minor, consisting of inundated fields and woods. The flooding continued into June.

WAYNE COUNTY --- 1.5 E MAYBERRY [38.27, -88.52], 1.4 W MAYBERRY [38.27, -88.58], 1.0 W WAYNE CITY [38.35, -88.60], 0.7 ESE WAYNE CITY [38.35, -88.57]

05/29/19 06:08 CST	0	Flood (due to Heavy Rain)
05/29/19 07:15 CST	0	Source: Trained Spotter

A few inches of water covered Highway 242 in several locations between Interstate 64 and Wayne City.

JEFFERSON COUNTY --- 2.0 E MT VERNON [38.32, -88.86], 2.0 S MT VERNON [38.29, -88.90], 2.0 W MT VERNON [38.32, -88.94], 2.0 N MT VERNON [38.35, -88.90]

05/29/19 06:11 CST	0	Flood (due to Heavy Rain)
05/29/19 07:15 CST	0	Source: Broadcast Media

Street flooding was reported around the city of Mt. Vernon.

UNION COUNTY --- 1.0 ENE ALTO PASS [37.58, -89.31]

05/29/19 06:30 CST	4K	Thunderstorm Wind (EG 56 kt)
05/29/19 06:30 CST	0	Source: Trained Spotter

A tree that was snapped at the base fell onto a garage.

WILLIAMSON COUNTY --- 1.0 N MARION [37.74, -88.93]

05/29/19 06:45 CST	1K	Thunderstorm Wind (EG 52 kt)
05/29/19 06:45 CST	0	Source: Broadcast Media

Large maple tree limbs were blown down on the north side of Marion.

EDWARDS COUNTY --- ALBION [38.38, -88.05], 2.0 ENE ELLERY [38.37, -88.12], 4.9 ESE ELLERY [38.31, -88.07], 0.6 ESE BROWNS [38.38, -87.97], 1.1 NE BROWNS [38.39, -87.97]

05/29/19 08:37 CST	20K	Flash Flood (due to Heavy Rain)
05/29/19 10:00 CST	0	Source: Trained Spotter

Several miles southwest of Albion, flash flooding of County Road 400 East occurred near the intersection of County Road 400 North. Parts of the road were washed away. A trained spotter measured a storm total of 5 inches of rain through the mid-morning hours. Near Browns, Illinois Highway 15 was flooded by Bonpas Creek.

A large thunderstorm complex tracked east-northeast across southern Illinois during the morning. These storms produced heavy rainfall, sufficient for some flash flooding in parts of southeast Illinois. A deep southwest wind flow through the depth of the atmosphere brought abundant moisture for storms. Precipitable water values were over 1.5 inches. Moderately strong 850 mb winds around 30 knots contributed plenty of low level moisture. Despite weak instability early in the morning, a few storms were strong enough to damage trees.

ALEXANDER COUNTY --- CAIRO [37.00, -89.18]

05/29/19 15:13 CST	8K	Thunderstorm Wind (EG 52 kt)
05/29/19 15:13 CST	0	Source: Law Enforcement

Tree limbs and power lines were blown down, and a carport was flipped over. The carport debris hit a car.

ALEXANDER COUNTY --- CAIRO [37.00, -89.18], 0.7 ENE CAIRO [37.01, -89.17], 1.2 S URBANDALE [37.03, -89.18], 1.6 SSW URBANDALE [37.03, -89.19]

05/29/19 17:17 CST	0	Flash Flood (due to Heavy Rain)
05/29/19 20:15 CST	0	Source: Unknown

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A portion of U.S. Highway 51 in Cairo was closed due to flooding. A co-operative observer in Cairo measured 3.47 inches, which mostly fell on the 29th.

WAYNE COUNTY --- 1.0 N GEFF [38.46, -88.40], 0.5 NE GEFF [38.46, -88.39], 0.5 NW GEFF [38.46, -88.41], 0.5 NNW GEFF [38.46, -88.40]	05/29/19 20:45 CST	0	0	Flood (due to Heavy Rain)
	05/29/19 20:45 CST	0	0	Source: Law Enforcement

Some water was over U.S. Highway 45 in a flood-prone spot.

A small cluster of thunderstorms developed in the vicinity of the confluence of the Mississippi and Ohio Rivers. An isolated occurrence of damaging winds accompanied the strongest storm. The cluster of storms occurred in a moderately to strongly unstable air mass ahead of a dissipating cold front over northwest Missouri. A weakening 500 mb shortwave moved northeastward from the southern Plains, contributing to the development of the thunderstorms. A larger complex of storms during the evening hours produced flooding rains in a few locations.

INDIANA, Southwest

GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 1.0 ESE CRAWLEYVILLE [38.27, -87.81], 0.5 NNW CRAWLEYVILLE [38.29, -87.83], 2.0 W SKELTON [38.35, -87.82], 1.0 W EAST MT CARMEL [38.40, -87.75]	05/01/19 00:00 CST	0	0	Flood (due to Heavy Rain)
	05/28/19 16:00 CST	0	0	Source: River/Stream Gage

GIBSON COUNTY --- HAZLETON [38.48, -87.53], 1.1 NNW HAZLETON [38.49, -87.54], 1.8 NE HAZLETON [38.50, -87.51], 0.9 WNW GIRO [38.51, -87.49], 1.1 SW GIRO [38.49, -87.48]	05/01/19 00:00 CST	0	0	Flood (due to Heavy Rain)
	05/12/19 14:00 CST	0	0	Source: River/Stream Gage

PIKE COUNTY --- PETERSBURG [38.50, -87.28], 0.9 NW PETERSBURG [38.51, -87.29], 3.9 NE PETERSBURG [38.54, -87.23], 4.7 NNW ALGIERS [38.54, -87.20], 1.5 NW IVY [38.52, -87.14]	05/01/19 00:00 EST	0	0	Flood (due to Heavy Rain)
	05/11/19 09:00 EST	0	0	Source: River/Stream Gage

POSEY COUNTY --- NEW HARMONY [38.13, -87.93], 3.8 SSW NEW HARMONY [38.08, -87.96], 2.3 SW NEW HARMONY [38.11, -87.96], 0.6 WNW NEW HARMONY [38.13, -87.94]	05/01/19 00:00 CST	0	0	Flood (due to Heavy Rain)
	05/14/19 13:00 CST	0	0	Source: River/Stream Gage

GIBSON COUNTY --- 1.2 SW PATOKA [38.41, -87.59], 2.3 ENE EAST MT CARMEL [38.41, -87.69], 2.0 WNW LYLE [38.38, -87.68], 2.6 NE PRINCETON [38.38, -87.54], 2.7 ESE PATOKA [38.41, -87.53]	05/01/19 08:00 CST	0	0	Flood (due to Heavy Rain)
	05/06/19 23:00 CST	0	0	Source: River/Stream Gage

A few rivers remained above flood stage due to a persistent wet pattern through the winter and spring. The May rainfall total cracked the top five at Evansville, IN, where 9.15 inches of rain fell. Normally, 13 to 15 inches of rain falls between March and May. In 2019, however, between 15 and 20 inches of rain was common with some areas receiving between 20 and 25 inches. The Wabash, White, and Patoka Rivers experienced minor flooding from April into May. Fields and woodlands in the floodplain were inundated. Some county river roads were flooded. Access to hunting cabins was blocked. Oil fields in the floodplain were inaccessible.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER	05/02/19 00:00 CST	0	0	Dense Fog
	05/02/19 07:00 CST	0	0	

Dense fog formed in the humid air just south of a stationary front that extended from central Illinois across central Indiana. Visibility was reduced to one-quarter mile or less during the overnight hours.

POSEY COUNTY --- 1.0 WSW NEW HARMONY [38.12, -87.95], 0.7 SSW NEW HARMONY [38.12, -87.94], 3.6 NNE SAVAH [38.06, -87.94], 3.3 NNE SAVAH [38.07, -87.96]	05/29/19 04:00 CST	0	0	Flood (due to Heavy Rain)
	05/31/19 23:59 CST	0	0	Source: River/Stream Gage

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PIKE COUNTY --- 1.0 NW PETERSBURG [38.51, -87.29], 5.0 NNW ALGIERS [38.55, -87.21], 4.9 NNW ALGIERS [38.55, -87.19], 4.4 N ALGIERS [38.54, -87.18], 0.5 WNW PETERSBURG [38.50, -87.29]				
	05/30/19 06:00 EST		0	Flood (due to Heavy Rain)
	05/31/19 23:59 EST		0	Source: River/Stream Gage
GIBSON COUNTY --- HAZLETON [38.48, -87.53], 0.9 NNW HAZLETON [38.49, -87.54], 2.3 NE GIRO [38.53, -87.44], 2.0 ENE GIRO [38.51, -87.44]				
	05/30/19 09:00 CST		0	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		0	Source: River/Stream Gage
GIBSON COUNTY --- EAST MT CARMEL [38.40, -87.73], 0.3 WNW CRAWLEYVILLE [38.28, -87.84], 1.9 N CRAWLEYVILLE [38.31, -87.83], 1.9 W SKELTON [38.35, -87.82], 1.9 WSW EAST MT CARMEL [38.39, -87.76]				
	05/31/19 07:00 CST		0	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		0	Source: River/Stream Gage

In response to repeated thunderstorms in late May, the Wabash and White Rivers rose back above flood stage. The flooding was minor, consisting of inundated fields and woods. The flooding continued into June.

GIBSON COUNTY --- 2.0 NW FT BRANCH [38.27, -87.61], 2.0 SW FT BRANCH [38.23, -87.61], 2.0 SE FT BRANCH [38.23, -87.55], 2.0 NE FT BRANCH [38.27, -87.55]				
	05/29/19 07:58 CST		5K	Flash Flood (due to Heavy Rain)
	05/29/19 11:00 CST		0	Source: 911 Call Center

A couple of main roads were closed in the Fort Branch area. One bridge was flooded over. Several other roads were flooded but passable.

POSEY COUNTY --- POSEYVILLE [38.17, -87.78], 1.9 S CYNTHIANA [38.15, -87.71], CYNTHIANA [38.18, -87.70], 0.9 N POSEYVILLE [38.18, -87.78]				
	05/29/19 08:28 CST		0	Flash Flood (due to Heavy Rain)
	05/29/19 09:30 CST		0	Source: Broadcast Media

Water was reported flowing across Interstate 64 in a few places.

VANDERBURGH COUNTY --- 0.5 W ELLIOTT [38.12, -87.48], 2.0 W ELLIOTT [38.12, -87.51], 2.1 WNW ELLIOTT [38.13, -87.51], 0.8 WNW ELLIOTT [38.13, -87.48]				
	05/29/19 08:48 CST		2K	Flash Flood (due to Heavy Rain)
	05/29/19 10:15 CST		0	Source: Emergency Manager

Baseline Road was flooded west of Petersburg Road. Vehicles were stranded in the water. A trained spotter measured 1.2 inches of rain in 30 minutes.

A large thunderstorm complex tracked slowly east across southwest Indiana during the morning. These storms produced heavy rainfall and isolated flooding. A deep southwest wind flow through the depth of the atmosphere brought abundant moisture for storms. Precipitable water values were near 1.5 inches.

GIBSON COUNTY --- 2.9 SSE FRANCISCO [38.29, -87.43], 3.3 NNE DOUGLAS [38.37, -87.48], 1.3 WNW LYLE [38.38, -87.67], 3.2 S LYLE [38.32, -87.66]				
	05/29/19 21:00 CST		0	Flash Flood (due to Heavy Rain)
	05/29/19 23:00 CST		0	Source: Law Enforcement

A water rescue was conducted along County Road 550 E south of Francisco. West of Princeton, water was over County Road 100 N just west of County Road 500 W.

PIKE COUNTY --- 0.7 N CAMPBELLTOWN [38.44, -87.25], 1.6 S IVY [38.48, -87.12], 1.0 NNE OTWELL [38.46, -87.10], 0.3 SW OTWELL [38.45, -87.10], 0.1 WSW CAMPBELLTOWN [38.43, -87.25]				
	05/29/19 23:00 EST		0	Flash Flood (due to Heavy Rain)
	05/30/19 01:00 EST		0	Source: Law Enforcement

Several inches of water were flowing over the junction of Highways 56 and 61 south of Petersburg, as well as along Highway 356 west of Otwell.

Another round of storms occurred, producing heavy rain and localized flash flooding. The storms occurred in a strongly unstable air mass ahead of a dissipating cold front over northwest Missouri. A weakening 500 mb shortwave moved northeastward from the southern Plains, contributing to the development of the thunderstorms. Precipitable water values were nearly two inches.

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BALLARD COUNTY --- 1.3 SW HOLLOWAY [37.06, -89.17], 3.4 WNW OSCAR [37.15, -89.09], 2.6 N MONKEYS EYEBROW [37.22, -88.98], 2.0 NW BANDANA [37.17, -88.98], 2.3 SSE EAST CAIRO [36.99, -89.13], 1.3 WNW EAST CAIRO [37.03, -89.17]				
	05/01/19 00:00 CST		20K	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		10K	Source: River/Stream Gage
<p>The Ohio River rose above flood stage in early February and remained above flood stage through the spring. This was the most prolonged flood on the Ohio River at the Cairo, IL river gage since records began in the late 1800's. The highest recorded stage in the month of May (2019) was 50.53 feet at Cairo, IL, which corresponds to the moderate flood category. At this stage, the flooding has a major impact on farming operations in the flood plain, causing some farmers to lose crops. In this prolonged flood, farmers never really had the chance to plant in the flood plain. Much of the high water on this end of the Ohio River was due to backwater from the swollen Mississippi River. Considerable flooding of low-lying woods, fields, and a wildlife management area persisted through the month.</p> <p>The Ohio River remained above flood stage at Cairo due to a persistent wet pattern through the winter and spring. May rainfall totals cracked the top five in many locations. At Paducah, 11.09 inches of rain fell, shattering the previous May record by over an inch. Normally, 13 to 15 inches of rain falls in the spring months of March through May. In 2019, however, between 15 and 20 inches of rain was common with some areas receiving between 20 and 25 inches. Paducah experienced its 5th wettest spring on record, with 23.34 inches of rain. Heavy rain was commonplace across most of the Midwest and upper Mississippi Valley, prompting widespread and long lasting flooding throughout the Mississippi River basin.</p>				
BALLARD COUNTY --- 0.6 SSW LA CENTER [37.06, -88.98], 0.4 SE LA CENTER [37.07, -88.97]				
	05/01/19 05:08 CST		35K	Tornado (EF1, L: 0.58 mi , W: 85 yd)
	05/01/19 05:09 CST		0	Source: NWS Storm Survey
<p>A National Weather Service damage survey determined EF-1 tornado damage occurred near La Center, with maximum peak winds of 105 mph. The tornado began about one-half mile south-southwest of La Center along Kentucky Highway 802. Several trees lost large limbs, and a few large trees were snapped along the path. A 20-by-25 foot section of roof on a home on Kentucky Highway 358 was lifted and thrown about 150 feet. A nearby storage building had its doors blown in, and the base of an exterior wall was shifted by a couple of feet. A few other homes in the vicinity received minor shingle damage. The tornado lifted shortly after crossing Highway 358, about half a mile southeast of La Center.</p> <p>A line of thunderstorms organized over southeast Missouri and moved eastward into far western Kentucky. Along the leading edge of the line, low-level wind shear was strong enough for a brief tornado. The storms occurred in a fairly strong southwest wind flow ahead of a cold front that extended from northern Illinois to west central Missouri.</p>				
(KY-Z010) CRITTENDEN, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN				
	05/02/19 00:00 CST		0	Dense Fog
	05/02/19 05:00 CST		0	
<p>Dense fog formed in the humid air just south of a stationary front that extended from central Illinois across central Indiana. Visibility was reduced to one-quarter mile or less during the overnight hours. The dense fog was mainly in the northwest part of Kentucky from Madisonville and Marion northward.</p>				
TODD COUNTY --- 3.0 NNE CLIFTY [37.02, -87.13]				
	05/02/19 18:00 CST		0	Hail (0.75 in)
	05/02/19 18:00 CST		0	Source: Trained Spotter
FULTON COUNTY --- CRUTCHFIELD [36.58, -88.93]				
	05/02/19 19:10 CST		0	Hail (0.88 in)
	05/02/19 19:10 CST		0	Source: Emergency Manager
HICKMAN COUNTY --- BEELERTON [36.60, -88.87]				
	05/02/19 19:25 CST		0	Hail (0.88 in)
	05/02/19 19:25 CST		0	Source: Emergency Manager
LIVINGSTON COUNTY --- 2.0 E LEDBETTER [37.05, -88.44]				
	05/02/19 20:45 CST		0	Hail (0.75 in)
	05/02/19 20:45 CST		0	Source: Public
MARSHALL COUNTY --- 3.0 S CALVERT CITY [36.99, -88.35]				
	05/02/19 21:18 CST		0	Hail (0.75 in)
	05/02/19 21:18 CST		0	Source: NWS Employee

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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An off-duty meteorologist reported mostly one-quarter to one-half inch hailstones, but a few stones were up to three-quarters of an inch.

Ahead of a MCV (mesoscale convective vortex) over Arkansas, strong thunderstorms moved northeast from Tennessee into western Kentucky. Some of these storms produced dime to nickel-size hail. The storms weakened as they encountered more stable air along and north of a stationary front near the southern Kentucky border.

HENDERSON COUNTY --- HENDERSON [37.83, -87.58]

05/26/19 13:54 CST			4K	Thunderstorm Wind (EG 52 kt)
05/26/19 13:54 CST			0	Source: Broadcast Media

A large tree was blown onto a house.

DAVIESS COUNTY --- 1.8 NW OWENSBORO [37.79, -87.14]

05/26/19 14:27 CST			0	Thunderstorm Wind (EG 61 kt)
05/26/19 14:27 CST			0	Source: Public

Wind was strong enough to move a barge on the Ohio River close to an industrial area.

DAVIESS COUNTY --- ST JOSEPH [37.70, -87.33], 1.0 S WEST LOUISVILLE [37.69, -87.28]

05/26/19 14:30 CST			0.20M	Thunderstorm Wind (EG 78 kt)
05/26/19 14:35 CST			0	Source: NWS Storm Survey

A National Weather Service damage survey determined that a microburst with peak winds near 90 mph struck the St. Joseph and West Louisville area. The most significant structural damage occurred less than a mile north of St. Joseph, where a storage shed sustained extensive damage. The west-facing wall collapsed inward, despite the presence of hurricane straps. Roofing and roof trusses were blown to the east across County Road 500. A pull-behind covered trailer weighing over 2,000 pounds was pushed about 30 feet. At a house adjacent to the trailer and metal shed, there was partial loss of shingles, along with minor damage to windows, decking, and gutters. Some of the damage appeared to be associated with a short, brief gustnado. Elsewhere across the affected area, most of the damage consisted of scattered snapped and uprooted trees, some of which were several feet in diameter. Several old wooden barns were damaged or destroyed, and a few outbuildings were damaged. A mobile home was unroofed. Over 100 trees were down at a campground on Diamond Lake near West Louisville. A few of the trees landed on campers or vehicles. There were some downed power poles and lines. The total length of the damage area was three miles, and the width was about 2.2 miles.

A rather pronounced upper-level shortwave trough moved eastward from the St. Louis area across the Ohio Valley in the afternoon. Daytime heating contributed to moderate instability, resulting in clusters of thunderstorms south of a weak stationary front from southern Illinois across southern Indiana. An isolated microburst accompanied one of the most intense storm clusters in northwest Kentucky.

DAVIESS COUNTY --- 5.0 S STANLEY [37.75, -87.25]

05/29/19 09:30 CST			0	Hail (0.88 in)
05/29/19 09:30 CST			0	Source: Public

Dime to nickel-size hail was reported in western Daviess County.

A thunderstorm complex tracked east across northwest Kentucky during the morning. The strongest storms produced some hail. A deep southwest wind flow through the depth of the atmosphere brought abundant moisture for storms. Precipitable water values were just over 1.5 inches.

CALDWELL COUNTY --- 2.1 SE FRIENDSHIP [37.03, -87.72]

05/29/19 12:25 CST			0	Hail (1.00 in)
05/29/19 12:25 CST			0	Source: Broadcast Media

This large hail was reported southeast of Princeton along Kentucky Highway 91 near the Christian County line.

CHRISTIAN COUNTY --- CROFTON [37.05, -87.48]

05/29/19 12:43 CST			0	Hail (1.00 in)
05/29/19 12:43 CST			0	Source: Trained Spotter

TODD COUNTY --- 1.3 ESE KIRKMANSVILLE [37.01, -87.23]

05/29/19 13:16 CST			3K	Thunderstorm Wind (EG 56 kt)
05/29/19 13:16 CST			0	Source: Emergency Manager

Trees were down along Highway 107 east of Kirkmansville.

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TODD COUNTY --- 3.0 ENE TYEWHOPPETY [37.05, -87.08]				
	05/29/19 13:30 CST		0	Hail (1.50 in)
	05/29/19 13:30 CST		0	Source: Public
Quarter to ping-pong ball size hail was reported near Lake Malone on Kentucky Highway 1985.				
TODD COUNTY --- 3.0 ENE TYEWHOPPETY [37.05, -87.08]				
	05/29/19 13:30 CST		3K	Thunderstorm Wind (EG 56 kt)
	05/29/19 13:30 CST		0	Source: Public
Trees were blown down on Kentucky Highway 1985 near Lake Malone.				
CHRISTIAN COUNTY --- 4.0 NNW HOPKINSVILLE [36.90, -87.51]				
	05/29/19 13:35 CST		3K	Thunderstorm Wind (EG 56 kt)
	05/29/19 13:35 CST		0	Source: Emergency Manager
Trees were blown down in the area of Kentucky Highways 91 and 109.				
MUHLENBERG COUNTY --- DUNMOR [37.07, -87.00]				
	05/29/19 13:38 CST		0	Hail (1.75 in)
	05/29/19 13:38 CST		0	Source: State Official
<p>A supercell thunderstorm developed over the Pennyriale region of western Kentucky, producing large hail and damaging winds along its path. A cluster of strong to severe thunderstorms then formed in the Hopkinsville area, causing isolated tree damage and heavy rainfall. The storms formed during the very warm and unstable afternoon hours as a weakening cold front crossed northwest Missouri. A moderately strong southwest wind flow at and above 850 mb provided abundant moisture.</p>				
MISSOURI, Southeast				
CAPE GIRARDEAU COUNTY --- 3.4 ESE GULF JCT [37.25, -89.49], (CGI)CAPE GIRARDEAU [37.23, -89.57], 0.3 N GULF JCT [37.27, -89.55], 1.5 SSE NEELYS LNDG [37.48, -89.49], 3.0 ESE EGYPT MILLS [37.38, -89.42]				
	05/01/19 00:00 CST		50K	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		50K	Source: River/Stream Gage
<p>After rising above flood stage in mid-March, the Mississippi River remained above flood stage through the remainder of the spring. At the Cape Girardeau river gage, the river crested at 43.81 feet on May 8. However, the river started rising again late in the month. The May flood crest was well into the major flooding category, which starts at 42 feet. There was considerable flooding of low-lying farmland and woods. About 18,000 acres were flooded, which included at least 11,000 acres of cropland. Highway 177 was closed at the northern city limits of Cape Girardeau. Over a dozen county roads were inundated and closed in Cape Girardeau County. These roads were closed near the river, as well as along some tributary creeks extending well away from the river to Allenville and Dutchtown. Near and east of Dutchtown, Highway 74 was covered with about a foot of backwater from flooding of the Mississippi River diversion channel. Most residents of Dutchtown accepted a government buyout of their property, leaving only a few permanent residents behind. Facilities at riverfront parks were closed, including the campground and boat ramp at Trail of Tears State Park. Railroad tracks through the county were shut down. Across the county, flood risk reduction measures that were taken after major floods since the 1990's helped mitigate damage. Personnel from the U.S. Army Corps of Engineers assessed the effectiveness of these measures, which included trenches and relief wells. The Corps of Engineers conducted daily inspections of levees for seepage and other problems. The flood gates were closed in downtown Cape Girardeau. Since crop planting was not possible in areas that had been flooded all spring, direct crop losses were not high.</p>				
NEW MADRID COUNTY --- 1.5 S NEW MADRID [36.58, -89.53], 4.5 S BAYOUVILLE [36.58, -89.37], 9.3 SE NEW MADRID [36.50, -89.41], 6.3 NE LINDA [36.48, -89.47]				
	05/01/19 00:00 CST		0	Flood (due to Heavy Rain)
	05/23/19 12:00 CST		0	Source: River/Stream Gage
<p>Minor flooding continued from April into late May along the Mississippi River. The flooding along this portion of the river (below the confluence with the Ohio River) was generally minor and shorter-lived than places to the north. The flood crest dampened out as it moved down the river, so that only minor flooding of low-lying woods and fields was observed. A few roads were flooded.</p>				
SCOTT COUNTY --- SCOTT CITY [37.25, -89.52], COMMERCE [37.15, -89.45], 3.4 NNW LUSK [37.08, -89.40], 3.5 N LUSK [37.08, -89.38], 1.8 ENE ILLMO [37.23, -89.47]				
	05/01/19 00:00 CST		30K	Flood (due to Heavy Rain)
	05/31/19 23:59 CST		40K	Source: River/Stream Gage

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Major flooding of the Mississippi River inundated thousands of acres of cropland. Flood mitigation buyouts in recent decades helped reduce property damage, particularly in the flood plain from Scott City to Commerce. Three homes on Scott County Road 308 alongside the Mississippi River were underwater, with over a foot of water covering the first floor. The primary effect on residents near the river was difficulty traveling due to flooded roads. Access to the small community of Commerce was affected. The river crested early in the month and then began to rise again late in the month.</p> <p>The Mississippi River remained above flood stage due to a persistent wet pattern through the winter and spring. May rainfall totals cracked the top five in many locations. At Paducah, KY, 11.09 inches of rain fell, shattering the previous May record by over an inch. Normally, 13 to 15 inches of rain falls in the spring months from March through May. In 2019, however, between 15 and 20 inches of rain was common with some areas receiving between 20 and 25 inches. In Cape Girardeau, 19.13 inches of rain fell. This was 4.91 inches above normal, making it the 10th wettest spring on record. Heavy rain was commonplace across most of the Midwest and upper Mississippi Valley, prompting widespread and long lasting flooding throughout the Mississippi, Missouri, and Illinois River basins.</p>				
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WAYNE COUNTY --- OLD GREENVILLE [37.10, -90.47], 0.8 NE OLD GREENVILLE [37.11, -90.46], 3.0 NW BURBANK [37.18, -90.46], 3.3 SW LODI [37.21, -90.49], 2.1 N SILVA [37.20, -90.51]				
	05/02/19 17:00 CST		0	Flood (due to Heavy Rain)
	05/04/19 23:00 CST		0	Source: River/Stream Gage
<hr/>				
RIPLEY COUNTY --- 2.0 WNW DONIPHAN [36.63, -90.86], 3.9 SW DONIPHAN [36.58, -90.87], 3.1 SSW DONIPHAN [36.58, -90.84], 0.7 SW DONIPHAN [36.61, -90.83]				
	05/02/19 22:00 CST		0	Flood (due to Heavy Rain)
	05/03/19 17:00 CST		0	Source: River/Stream Gage
<p>The St. Francis River and lower parts of the Current River rose above flood stage due to several rounds of slow-moving showers and thunderstorms. The heaviest round occurred during the early morning hours on the 2nd, when over an inch fell quickly. A weak stationary front over Missouri caused the showers and storms. The river flooding was minor, consisting of inundated low-lying woods and fields.</p>				
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RIPLEY COUNTY --- 3.0 W FAIRDEALING [36.67, -90.67], FAIRDEALING [36.67, -90.62]				
	05/15/19 14:00 CST		0	Hail (1.75 in)
	05/15/19 14:05 CST		0	Source: Broadcast Media
<p>Quarter to golf-ball size hail was reported from Fairdealing to three miles west of Fairdealing.</p>				
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RIPLEY COUNTY --- PAYNOR [36.52, -90.92]				
	05/15/19 14:45 CST		0	Hail (1.00 in)
	05/15/19 14:45 CST		0	Source: Broadcast Media
<p>Quarter-size hail fell near Poynor.</p> <p>A couple of isolated storms became severe near the Arkansas border. The storms produced some large hail before they moved south into Arkansas. The storms developed along a southward moving cold front during the warmest and most unstable time of day. Northwest winds aloft were sufficiently strong to result in wind shear profiles supportive of severe multicell storms.</p>				
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WAYNE COUNTY --- 2.0 E TASKEE STATION [36.97, -90.44]				
	05/21/19 01:35 CST		4K	Thunderstorm Wind (EG 56 kt)
	05/21/19 01:35 CST		0	Source: Utility Company
<p>Trees fell on power lines off U.S. Highway 67 near the Butler County line.</p>				
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BUTLER COUNTY --- 1.9 N (P02)POPLAR BLUFF AR [36.80, -90.34]				
	05/21/19 01:58 CST		12K	Thunderstorm Wind (EG 61 kt)
	05/21/19 02:05 CST		0	Source: Emergency Manager
<p>Three trees came down on a house on T Highway just north of U.S. Highway 60. The highest wind gust at the nearby Poplar Bluff airport was 54 mph.</p>				
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STODDARD COUNTY --- 3.0 NW DEXTER [36.83, -89.99], 7.0 E BLOOMFIELD [36.90, -89.79]				
	05/21/19 02:31 CST		50K	Thunderstorm Wind (EG 87 kt)
	05/21/19 02:42 CST		0	Source: NWS Storm Survey
<p>An area of scattered thunderstorm wind damage occurred across the Dexter-Bloomfield area. The area of most concentrated damage was along and north of Highway E from about three to seven miles east of Bloomfield. At least a dozen power poles were broken. Dozens of trees were uprooted, and numerous limbs were broken.</p>				

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SCOTT COUNTY --- VANDUSER [37.00, -89.68], BLODGETT [37.00, -89.53]				
	05/21/19 02:50 CST		8K	Thunderstorm Wind (EG 61 kt)
	05/21/19 03:00 CST		0	Source: Law Enforcement
There were several reports of trees down across the Vanduser, Morley, Blodgett, and Haywood City areas. This included County Highways 439, 408, 407, and 402.				
A line of thunderstorms tracked east-northeast across southeast Missouri, very close to a warm front draped from the southern Ozarks across the Missouri Bootheel to western Tennessee. Wind profiles near the warm front were favorable for organized storm structures.				
BUTLER COUNTY --- 3.0 W HARVIELL [36.67, -90.52]				
	05/21/19 18:02 CST		5K	Thunderstorm Wind (EG 61 kt)
	05/21/19 18:02 CST		0	Source: Trained Spotter
A covered rear deck was picked up and thrown about 100 yards north of the home. The roof and chimney of the home were damaged. Tin was blown off a barn roof.				
CAPE GIRARDEAU COUNTY --- FRIEDHEIM [37.57, -89.83]				
	05/21/19 19:22 CST		1K	Thunderstorm Wind (EG 70 kt)
	05/21/19 19:22 CST		0	Source: NWS Storm Survey
A National Weather Service storm survey estimated peak winds were near 80 mph at the location of an uprooted tree.				
CAPE GIRARDEAU COUNTY --- 4.0 SE BURFORDVILLE [37.33, -89.77]				
	05/21/19 19:40 CST		1K	Thunderstorm Wind (EG 65 kt)
	05/21/19 19:40 CST		0	Source: NWS Storm Survey
A tree was uprooted. A National Weather Service storm survey estimated peak winds were near 75 mph.				
CAPE GIRARDEAU COUNTY --- 1.0 NE JACKSON [37.39, -89.66]				
	05/21/19 19:49 CST		0	Funnel Cloud
	05/21/19 19:49 CST		0	Source: Trained Spotter
A funnel cloud was seen from the northeast side of Jackson.				
CARTER COUNTY --- 3.0 N VAN BUREN [37.04, -91.02], 3.0 E VAN BUREN [37.00, -90.97], 3.0 S VAN BUREN [36.96, -91.02], 3.0 W VAN BUREN [37.00, -91.07]				
	05/21/19 20:36 CST		0	Flash Flood (due to Heavy Rain)
	05/21/19 22:30 CST		0	Source: Emergency Manager
The county emergency manager reported several roads were covered by water.				
An extensive line of thunderstorms moved east-northeast in a region of strong wind shear and moderate instability. The storms occurred south of a warm front that extended from the St. Louis area eastward. Enhanced wind shear near the warm frontal zone resulted in locally increased storm intensity. Along the most intense portions of the line near bow echoes, some rotation was observed, including a funnel cloud.				
CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53]				
	05/29/19 06:53 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/29/19 06:53 CST		0	Source: Public
Trees were reported down around Cape Girardeau, including a tree that fell onto a house.				
NEW MADRID COUNTY --- RISCO [36.57, -89.82]				
	05/29/19 07:24 CST		0	Funnel Cloud
	05/29/19 07:24 CST		0	Source: Emergency Manager
SCOTT COUNTY --- 1.3 NNE MINER [36.92, -89.52], 2.0 NE MINER [36.92, -89.50]				
	05/29/19 07:44 CST		50K	Tornado (EF1, L: 0.97 mi , W: 75 yd)
	05/29/19 07:46 CST		0	Source: NWS Storm Survey

Storm Data and Unusual Weather Phenomena - May 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>An EF-1 tornado resulted in a house losing a portion of its roof, including the roof decking. Several small outbuildings or porches lost part of their roofs or walls. Limbs were broken off a couple dozen trees, and a few smaller trees were uprooted or broken. Wooden fencing and swing sets were blown over. Peak winds were estimated near 95 mph.</p>				

A large thunderstorm complex tracked east-northeast across southeast Missouri during the morning. These storms produced an isolated tornado in addition to gusty winds and heavy rainfall. A deep southwest wind flow through the depth of the atmosphere brought abundant moisture for storms. Precipitable water values were over 1.5 inches. Moderately strong 850 mb winds around 30 knots provided enough low level wind shear for an isolated tornado, despite weak instability early in the morning.

RIPLEY COUNTY --- 5.0 WSW DONIPHAN [36.59, -90.90], FLATWOODS [36.68, -90.70]				
	05/29/19 16:40 CST		25K	Thunderstorm Wind (MG 56 kt)
	05/29/19 16:55 CST		0	Source: Emergency Manager

Many trees were blown down throughout the county, including the city of Doniphan. One home in Doniphan sustained roof damage from a fallen tree. Numerous power outages were reported. The automated Doniphan fire weather observation site measured a wind gust to 65 mph. A trained spotter in Flatwoods estimated winds gusted to 60 mph.

NEW MADRID COUNTY --- NEW MADRID [36.60, -89.53]				
	05/29/19 17:00 CST		25K	Thunderstorm Wind (EG 61 kt)
	05/29/19 17:00 CST		0	Source: Emergency Manager

Emergency management officials estimated 70 mph winds downed trees.

BUTLER COUNTY --- 3.0 NNW PARKS [36.66, -90.59]				
	05/29/19 17:05 CST		1K	Thunderstorm Wind (EG 52 kt)
	05/29/19 17:05 CST		0	Source: Public

Medium-size tree branches were blown down near U.S. Highway 160 near the Ripley County line.

NEW MADRID COUNTY --- 2.0 S NEW MADRID [36.57, -89.53], 2.0 E NEW MADRID [36.60, -89.49], 2.0 N NEW MADRID [36.63, -89.53], 2.0 W NEW MADRID [36.60, -89.57]				
	05/29/19 17:40 CST		0	Flash Flood (due to Heavy Rain)
	05/29/19 20:15 CST		0	Source: Law Enforcement

Extensive flash flooding was reported in New Madrid. Water was over numerous roads, including U.S. Highway 61 in front of the high school. Two CoCoRaHS (Community Collaborative Rain, Hail, and Snow) observers measured 7 to 7.5 inches of rain in the 24-hour period ending at 6 A.M. on the 30th.

STODDARD COUNTY --- PUXICO [36.95, -90.18], DEXTER [36.80, -89.95]				
	05/29/19 17:45 CST		50K	Thunderstorm Wind (EG 56 kt)
	05/29/19 17:55 CST		0	Source: Emergency Manager

Trees were down on roads and homes in Dexter. Other trees were blown down between Puxico and Dexter. Power lines were also down.

SCOTT COUNTY --- SCOTT CITY [37.25, -89.52], 1.0 SW ORAN [37.07, -89.68]				
	05/29/19 18:25 CST		25K	Thunderstorm Wind (EG 70 kt)
	05/29/19 18:37 CST		0	Source: NWS Storm Survey

Scattered straight-line wind damage occurred, primarily in the form of broken tree limbs and a few uprooted or snapped trees. At least one house was damaged from a large fallen tree limb. The area of scattered wind damage extended from southwest of Morley and Oran northeast to near Scott City. Peak winds in this area were estimated near 80 mph. A wind gust to 60 mph was measured at the Cape Girardeau Regional Airport near Scott City.

A small but well-organized complex of thunderstorms moved east-northeast from the Ozark foothills across the Poplar Bluff area to the Mississippi River between Cape Girardeau and New Madrid. A sustained area of damaging winds accompanied the leading edge of the storms from Doniphan to Dexter to the Mississippi River. The storms occurred in a moderately to strongly unstable air mass ahead of a dissipating cold front over northwest Missouri. A weakening 500 mb shortwave moved northeastward from the southern Plains, contributing to the development of the thunderstorm complex.