WATCHES, WARNINGS, & ADVISORIES

Current Watches, Warnings, and Advisories

Graphic Created
September 23rd, 2019
7:34 AM CDT
Hazardous Weather Outlook (Today):

- Fog will reduce visibilities to less than a half mile across west central, north central, and northwest Missouri through the mid morning hours.

Days Two Through Seven:

- Chances for showers and thunderstorms will return Tuesday through most of the week for portions of Missouri. A few strong to marginally severe storms will be possible on Tuesday mainly across west-central Missouri. Additional strong to marginally severe storms will also be possible on Wednesday. Locally heavy rainfall and isolated flooding will also be possible Tuesday and Wednesday.
- Brisk and gusty south winds are expected on Friday with gusts over 30 mph possible across western Missouri.
- Thunderstorms will form over Iowa Tuesday evening with strong to severe storms moving into northern Missouri overnight into Wednesday morning. Damaging winds would be the main threat with these storms as they travel south. The next chance for rain will come Friday morning as a cold front pushes through the area.

Current Watches, Warnings & Advisories in Effect:

- Flood warning for multiple counties in Missouri.
- Dense fog advisory for multiple counties in Missouri.
WEATHER STORY

NWS Kansas City
Widespread dense fog over the area with visibilities below 1/4 mile could cause a hazardous commute this morning. Please make sure you lights (taillights included) are on this morning and allow a little extra time to get to your destination. This fog will burn off by late morning leaving a very nice first day of fall as temperatures will get into the upper 70s with much less humidity than we’ve had lately. Weather will continue to be nice through Tuesday evening before the next chances for rain and storms push back into northern Missouri Tuesday night into Wednesday morning.

NWS Springfield
Dense fog will be possible this morning across Southeast Kansas into west central Missouri. Fog will erode by mid-morning. Slow down and give yourself plenty of time if traveling in that region.
Dry weather is expected through early Tuesday with near normal temperatures as high pressure move across Missouri and Illinois. Isolated thunderstorms will be possible over central Missouri on Tuesday afternoon. There will be a chance of showers and thunderstorms Tuesday night into Wednesday night as a cold front moves across the area. Dry weather will return on Thursday before the next chance for rain moves in on Friday.
A Dense Fog Advisory is in effect for much of eastern Iowa through 9 AM, where sudden reductions in visibility to below a quarter of a mile will be possible for the morning commute. If driving, slow down, use headlights and leave plenty of distance ahead of you!
SEVERE WEATHER OUTLOOK

Day 1

Day 2

Day 3
PRECIPITATION LAST 24 HOURS

Estimated Past Total Precipitation
Valid: 09/22/2019 07:00 AM - 09/23/2019 07:00 AM CDT

National Weather Service
St. Louis, Missouri
09/23/2019 07:30 AM CDT

Follow Us: weather.gov/StLouis
POTENTIAL RAINFALL
CURRENT FLOODING: NEAR or ABOVE FLOOD STAGE

Most Recent Flood Details:
- Moderate Flooding: Missouri River
  - Brownville, NE
  - Rulo, NE
  - St. Joseph, MO
FLOODING FORECAST – 10 DAY

Most Recent Flood Details:

- Moderate River Flooding: Missouri River
  - Brownville, NE
  - Rulo, NE
  - St. Joseph, MO
  - Glasgow, MO
- Current warnings can be viewed at: https://alerts.weather.gov/cap/mo.php?x=1
FLOODING FORECAST: MISSOURI RIVER – MODERATE FLOOD STAGE

MISSOURI RIVER AT BROWNVILLE

Universal Time (UTC)

Latest observed value: 40.82 ft at 6:15 AM CDT 23-Sep-2019. Flood Stage is 34 ft

Record: 63.7'

Major: 43.0'

Moderate: 38.5'

Site Time (CDT)

Graph Created (7:30AM Sep 23, 2019)  Observed  Forecast (issued 16:04AM Sep 22)

Site Time (CDT)

Graph Created (7:30AM Sep 23, 2019)  Observed  Forecast (issued 16:04AM Sep 22)

MISSOURI RIVER AT RULO

Universal Time (UTC)

Latest observed value: 22.75 ft at 7:00 AM CDT 23-Sep-2019. Flood Stage is 17 ft

Record: 28.1'

Major: 26.0'

Moderate: 22.0'

Site Time (CDT)

Graph Created (7:30AM Sep 23, 2019)  Observed  Forecast (issued 16:04AM Sep 22)

9/23/2019

Observations courtesy of the Army Corps of Engineers

Observations courtesy of the USGS (08813500)
FLOODING FORECAST: MISSOURI RIVER – MODERATE FLOOD STAGE

MISSOURI RIVER AT ST. JOSEPH

Universal Time (UTC)

Site Time (CDT)

Latest observed value: 21.01 ft at 6:30 AM CDT 23-Sep-2019. Flood Stage is 17 ft

Moderate: 22.8 ft

Minor: 21.8 ft

Graph Created: 7:33AM Sep 23, 2019

Observations courtesy of US Geological Survey

MISSOURI RIVER AT GLASGOW

Universal Time (UTC)

Site Time (CDT)

Latest observed value: 24.94 ft at 6:30 AM CDT 23-Sep-2019. Flood Stage is 25 ft

Moderate: 27.0 ft

Minor: 25.0 ft

Graph Created: 7:33AM Sep 23, 2019

Observations courtesy of US Geological Survey

9/23/2019
### RECENT EARTHQUAKES 8/23/19 to 9/23/19

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<tr>
<th>Magnitude</th>
<th>Date/Time</th>
<th>Location</th>
<th>Depth (km)</th>
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<tr>
<td>2.0</td>
<td>2019-09-21 16:48:23 (UTC)</td>
<td>6km SSW of Lilburn, Missouri</td>
<td>0.3 km</td>
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<tr>
<td>1.7</td>
<td>2019-09-18 08:32:04 (UTC)</td>
<td>7km NW of Tiptonville, Tennessee</td>
<td>8.4 km</td>
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<td>1.3</td>
<td>2019-09-17 16:00:30 (UTC)</td>
<td>Quarry Blast 6km SSE of Owasso,</td>
<td>0.0 km</td>
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<td>1.6</td>
<td>2019-09-15 14:49:14 (UTC)</td>
<td>8km NW of Tiptonville, Tennessee</td>
<td>9.3 km</td>
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<tr>
<td>1.7</td>
<td>2019-09-15 04:07:31 (UTC)</td>
<td>4km SW of Caruthersville, Missouri</td>
<td>7.6 km</td>
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<tr>
<td>1.2</td>
<td>2019-09-14 20:06:15 (UTC)</td>
<td>5km NNW of Ridgely, Tennessee</td>
<td>8.3 km</td>
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**Legend:**
- 0: Hour
- 1: Day
- 2: Week
- 3: Month
- 4: Year

**Map:**
-各地震的地理位置和深度示意图。
Current Road Conditions
9/23/2019 at 07:50 hours
# ELECTRIC COOPERATIVE OUTAGES

https://outages.amec.org/outages/maps

<table>
<thead>
<tr>
<th>System</th>
<th>Outages</th>
<th>System</th>
<th>Outages</th>
<th>System</th>
<th>Outages</th>
<th>System</th>
<th>Outages</th>
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<tbody>
<tr>
<td>Atchison-Holt</td>
<td></td>
<td>Crawford</td>
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<td>Macon</td>
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<td>Sac Osage</td>
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<td>Barry</td>
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<td>Cuivre River</td>
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<td>Missouri Rural</td>
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<td>Se-Ma-No</td>
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<tr>
<td>Barton Co</td>
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<td>Farmers</td>
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<td>N Central Mo</td>
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<td>SEMO</td>
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<tr>
<td>Black River</td>
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<td>Gascosage</td>
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<td>New-Mac</td>
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<td>Southwest</td>
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<td>Grundy</td>
<td></td>
<td>Osage Valley</td>
<td></td>
<td>Three Rivers</td>
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<tr>
<td>Callaway</td>
<td></td>
<td>Howard</td>
<td></td>
<td>Ozark</td>
<td>1</td>
<td>Tri County</td>
<td>1</td>
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<tr>
<td>Central MO</td>
<td></td>
<td>Howell-Oregon</td>
<td>67</td>
<td>Ozark Border</td>
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<td>United</td>
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</tr>
<tr>
<td>Citizens</td>
<td></td>
<td>Intercounty</td>
<td>239</td>
<td>Pemiscot-Dunklin</td>
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<td>Webster</td>
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<tr>
<td>Co-Mo</td>
<td></td>
<td>Laclede</td>
<td>1</td>
<td>Platte-Clay</td>
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<td>West Central</td>
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<tr>
<td>Consolidated</td>
<td></td>
<td>Lewis Co</td>
<td></td>
<td>Ralls Co</td>
<td></td>
<td>White River Valley</td>
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As of 07:51 hours 9/23/2019
# ELECTRIC SYSTEM OUTAGES

<table>
<thead>
<tr>
<th>System</th>
<th>Outages</th>
<th>Customers</th>
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<td>AmerenUE</td>
<td>11</td>
<td>1,210,672</td>
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<tr>
<td><a href="https://outagemap.ameren.com/">https://outagemap.ameren.com/</a></td>
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<tr>
<td>City of Columbia</td>
<td>0</td>
<td>49,025</td>
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<td><a href="http://outageviewer.gocolumbiamo.com">http://outageviewer.gocolumbiamo.com</a></td>
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</tr>
<tr>
<td>Empire District</td>
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<td>170,158</td>
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<tr>
<td>KC Power &amp; Light Greater MO</td>
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<td>896,645</td>
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<td>City of Springfield</td>
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<td>104,141</td>
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<td><a href="https://www.cityutilities.net/outage/map-status/">https://www.cityutilities.net/outage/map-status/</a></td>
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</tr>
</tbody>
</table>

As of 07:53 hours 9/23/2019
Most Recent:

- 9/12/19 – Holt: Commercial motor vehicle accident resulting in release of approximately 100 gallons of diesel fuel.
- 9/6/19 – Stoddard: Truck accident led to release of 150 gallons of diesel fuel.
- 9/6/19 – Butler: Release of 100 plus gallons of diesel fuel to ditch.
- 9/8/19 – McDonald: Release of 100 gallons of diesel fuel from truck.
- 9/17/19 – Holt: Approximately 43 gallons diesel fuel released due to traffic accident.
- 9/18/19 – St. Charles: release of 80 gallons of diesel fuel due to accident.

* Markers shown on map are cumulative for the current month.
Missouri State Emergency Management Agency

Resource Status, Alert Messages, & Long-Term Outlooks
Modular Response Capabilities

- Rescue
  - Structural Collapse
  - Technical Rescue (Ex: Trench, Rope, Confined Space)
- Wide Area Search
- Water Rescue
  - Swift Water
  - Floods & Moving Water
- Canine Search (K-9)
- Hazardous Material
- Command Element

### TASK FORCE Configuration

<table>
<thead>
<tr>
<th>Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1</td>
<td>(80 person task force/24 hr. Operational Capability)</td>
</tr>
<tr>
<td>Type 2</td>
<td>(80 person task force/24 hr. Operational Capability, minus CBRNE element)</td>
</tr>
<tr>
<td>Type 3</td>
<td>(40 person task force/12 hr. Operational Capability)</td>
</tr>
<tr>
<td>Type 4</td>
<td>(25 person task force/12 hr. Operational Capability)</td>
</tr>
</tbody>
</table>

- **Single or Other Resource also available upon request**
  
  Ex: Incident Management Personnel, Plans Section Chief, Ops Section Chief, Logistics Section Chief, etc.
# MO Disaster Medical Assistance Team 1 (MO DMAT 1)

**Medical Response**
- Field Hospital – 6 and 24 bed capability
- Medical Strike Teams
- Augment Hospital Staffing

**Logistics Support**
- Medical Supplies
- Setup of DMAT Cache
- Mobile Communications

## Command Element

<table>
<thead>
<tr>
<th>MO DMAT 1</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six bed ER 12 person/24 hours/3 days</td>
<td>Fully Mission Capable</td>
</tr>
<tr>
<td>Type II team 35 person/24 hours</td>
<td>Not Mission Capable</td>
</tr>
</tbody>
</table>

# MO Mortuary Operations Response Team 1 (MO MORT 1)

**Mortuary Response**
- Full Disaster Portable Morgue (DPMU)
- Fatality Strike Team for Local Coroner Support
- Victim Identification Center (VIC)

## MO MORT 1

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type II team 80 members/12 hour</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fully Mission Capable</th>
<th>Partially Mission Capable</th>
<th>Not Mission Capable</th>
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</table>
Missouri Department of Health and Senior Services (DHSS)

E-Cigarette Products: Updated Information and Guidance

On September 12, 2019, the Missouri Department of Health and Senior Services (DHSS) issued a Health Update and an accompanying media release to provide current information and guidance to medical providers and the public regarding severe lung disease associated with the use of electronic cigarette (e-cigarette) products (i.e., vaping).

• Both the Health Update and the media release:

  - Provide information on currently reported cases of severe lung disease associated with the use of e-cigarette products.

    ▪ As of September 16, 2019, nine possible cases in Missouri have been reported to DHSS, with two cases confirmed, two cases found not to be related to vaping, and the remaining five cases under investigation.*

    ▪ As of September 17, 2019, there are reports of 380 confirmed and probable cases from 36 states and one U.S. territory. To date, seven deaths have been reported from seven states.*

*The numbers of cases and deaths shown here are updated from the older numbers provided in the September 12 Health Update and media release.
Missouri Department of Health and Senior Services (DHSS)

E-Cigarette Products: Updated Information and Guidance

- Indicate that the illnesses are likely associated with a chemical exposure.
- Report that the cases, besides having a history of e-cigarette use, have similar symptoms which include 1) cough, shortness of breath, or chest pain; 2) nausea, vomiting, or diarrhea; 3) fatigue, fever, or weight loss; and 4) elevated heart rate.
- Provide current guidance, including the following:
  - While this investigation is ongoing, consider refraining from using e-cigarette products.
  - If you do use e-cigarette products and you experience symptoms like those reported in this outbreak, seek medical care promptly.
  - If you do use e-cigarette products, you should not buy these products off the street.
Missouri Department of Health and Senior Services (DHSS)

E-Cigarette Products: Updated Information and Guidance

• You should not modify e-cigarette products or add any substances to these products that are not intended by the manufacturer.

• If you are concerned about your health after using an e-cigarette product, you can call the Missouri Poison Center at 800-222-1222.

• Regardless of the ongoing investigation, youth, young adults and women who are pregnant should not use e-cigarette products. Adults who do not currently use tobacco products should not start using e-cigarette products.

• The Health Advisory contains additional information and guidance for clinicians as well as for medical examiners, coroners and pathologists. Cases of severe lung disease associated with the use of e-cigarette products are currently being classified as “vaping-associated pulmonary illness,” or VAPI. Providers are reminded that known or suspected cases are required to be immediately reported to public health officials.

• The media release also includes information for people who wish to quit the use of tobacco products. If individuals need help quitting, they should contact their doctor or other medical provider, or call the Missouri Tobacco Quitline at 1-800-QUIT-NOW (1-800-784-8669). For information on the text-based
Missouri Department of Health and Senior Services (DHSS)

E-Cigarette Products: Updated Information and Guidance

e-cigarette quit program from Truth Initiative, go to https://truthinitiative.org/research-resources/quit-smoking-vaping/quit-e-cigarettes or text “DITCHJUUL” to 88709.

For more information:

Smoking and Tobacco (DHSS)
https://health.mo.gov/living/wellness/tobacco/smokingandtobacco/

Electronic Cigarettes (CDC)
https://www.cdc.gov/tobacco/basic_information/e-cigarettes/index.htm

Smoking and Tobacco Use (CDC)
https://www.cdc.gov/tobacco/