WATCHES, WARNINGS, & ADVISORIES

Hazardous Weather Outlook (Today):

- Moderate to major river flooding is ongoing at points on the Mississippi and Illinois Rivers.
- Heightened fire danger this afternoon for portions of eastern and southwestern Missouri.
- Gusty winds up to 40mph expected for much of Missouri.

Days Two Through Seven:

- Thunderstorms possible for parts of Missouri Saturday and into Sunday, and again on Wednesday and Thursday.
- Accumulating snow of one to two inches expected Sunday morning across central and northeastern Missouri.
- Major river flooding will continue at Saverton Lock and Dam on the Mississippi River and at Hardin along the Illinois River. Moderate flooding will continue at several other points on the Mississippi River.

Current Watches, Warnings & Advisories in Effect:

- Flood Warning in effect for multiple counties across Missouri.
- Freeze Warning in effect for Buchanan, Caldwell, Cass, Clay, Clinton, Jackson, Platte, Ray.
- Frost Advisory in effect for Barry, Barton, Jasper, Lawrence, McDonald, and Newton Counties.
Cool and Sunny conditions are expected today. A storm system will move across the southern plains Saturday and bring rain to the region for the weekend.
Look for dry weather and mostly sunny skies on Friday. Highs will range from the mid-50s to mid-60s. Breezy conditions are expected across parts of west central and southwestern IL.
A strong storm system will produce winds of 25 to 35 mph with gusts to 45 mph across the area today. The very windy conditions combined with low humidity levels and dry vegetation will create a very high fire danger.

NWS Memphis

Severe storms are likely Saturday afternoon through early Sunday morning, mainly over east-central Arkansas and North Mississippi. Damaging winds and a few tornadoes are the main threats. A strong tornado is possible. Large hail is a secondary threat. Rainfall amounts of up to 3 inches could result in localized flash flooding. A few strong to severe storms are possible Wednesday into Thursday.
PRECIPITATION LAST 24 HOURS
PREcipitation Forecast Next 72 Hours

Day 1

Day 2

Day 3
PRECIPITATION FORECAST NEXT 72 HOURS

Day 1-3
CURRENT FLOODING: NEAR or ABOVE FLOOD STAGE

Major Flood Stage: Mississippi River
- Keokuk, IA
- Saverton Lock and Dam 22, MO

Moderate Flood Stage: Mississippi River
- Gregory Landing, MO
- Canton Lock and Dam 20, MO
- Quincy, IL
- Quincy Lock and Dam 21, IL
- Hannibal, MO
- Louisiana, MO
- Clarksville Lock and Dam 24, MO
- Winfield Lock and Dam 25, MO
- Grafton, IL
- Chester, IL
- Cape Girardeau, MO
- Thebes, IL

Moderate Flood Stage: Other Rivers
- Illinois River at Hardin, IL
- Cuivre River at Old Monroe, MO
Most Recent Flood Details:

Major Flood Stage Forecast: Mississippi River
- Keokuk, IA
- Saverton Lock and Dam 22, MO

Moderate Flood Stage forecast: Missouri River
- Rulo, NE
- Gregory Landing, MO
- Canton Lock and Dam 20, MO
- Quincy, IL
- Quincy Lock and Dam 21, IL
- Hannibal, MO
- Louisiana, MO
- Clarksville Lock and Dam 24, MO
- Winfield Lock and Dam 25, MO
- Grafton, IL
- Chester, IL
- Cape Girardeau, MO
- Thebes, IL

Moderate Flood Stage forecast: Other Rivers
- Illinois River at Hardin, IL
- Cuivre River at Old Monroe, MO

Current warnings can be viewed at: https://alerts.weather.gov/cap/mo.php?x=1
FLOODING FORECAST: MISSISSIPPI RIVER – MAJOR FLOOD STAGE

MISSISSIPPI RIVER AT KEOKUK

Latest observed value: 19.72 ft at 7:40 AM CDT 12-Apr-2019. Flood Stage is 18 ft.

MISSISSIPPI RIVER AT SAVERTON LOCK AND DAM 22

Latest observed value: 22.63 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 18 ft.

4/12/2019
FLOODING FORECAST: MISSOURI RIVER – MODERATE FLOOD STAGE

Latest observed value: 19.43 ft at 7:45 AM CDT 12 April 2019. Flood Stage is 17 ft

Moderate: 21.0' 21.1' 19.9'
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT GREGORY LANDING

Universal Time (UTC)

Latest observed value: 20.91 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 15 ft

MISSISSIPPI RIVER AT CANTON LOCK AND DAM 20

Universal Time (UTC)

Latest observed value: 20.1 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 14 ft

Observations courtesy of U.S. Army Corps of Engineers

4/12/2019
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT QUINCY

Latest observed value: 22.46 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 17 ft.

MISSISSIPPI RIVER AT QUINCY LOCK AND DAM 21

Latest observed value: 22.46 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 17 ft.

4/12/2019
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT HANNIBAL

Universal Time (UTC)

Latest observed value: 23.52 ft at 7:15 AM CDT 12-Apr-2019. Flood Stage is 16 ft.

Maj. 24.0’

Moderate 22.0’

MISSISSIPPI RIVER AT LOUISIANA

Universal Time (UTC)

Latest observed value: 22.06 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 15 ft.

Maj. 25.0’

Moderate 20.0’

Graph Created: 8:39 AM Apr 12, 2019
Observations courtesy of US Army Corps of Engineers

4/12/2019
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT CLARKSVILLE LOCK AND DAM 24

Universal Time (UTC)

Latest observed value: 32.25 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 25 ft

Record: 37.2'

MISSISSIPPI RIVER AT WINFIELD LOCK AND DAM 25

Universal Time (UTC)

Latest observed value: 33.09 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 25 ft

Record: 35.6'

Graph Created: 8:39AM Apr 12, 2019

Observations courtesy of US Army Corps of Engineers

4/12/2019
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT GRAFTON

MISSISSIPPI RIVER AT CHESTER

4/12/2019
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT CAPE GIRARDEAU

Latest observed value: 39.00 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 32 ft

MISSISSIPPI RIVER AT THEBES

Latest observed value: 37.76 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 33 ft

Graph Created (8:47AM Apr 12, 2019) - Observations courtesy of US Geological Survey

4/12/2019
FLOODING FORECAST: OTHER RIVERS – MODERATE FLOOD STAGE

ILLINOIS RIVER AT HARDIN

- Latest observed value: 31.86 ft at 8:00 AM CDT 12-Apr-2019. Flood Stage is 28 ft.

CUIVRE RIVER AT OLD MONROE

- Latest observed value: 27.91 ft at 7:30 AM CDT 12-Apr-2019. Flood Stage is 24 ft.
**RECENT EARTHQUAKES**

3/9/19 to 4/9/19

<table>
<thead>
<tr>
<th>Magnitude</th>
<th>Date/Time (UTC)</th>
<th>Location</th>
<th>Depth (km)</th>
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<tbody>
<tr>
<td>1.5</td>
<td>2019-04-12 08:22:08 (UTC)</td>
<td>1km ESE of Ridgely, Tennessee</td>
<td>7.1 km</td>
</tr>
<tr>
<td>1.9</td>
<td>2019-04-10 14:40:10 (UTC)</td>
<td>9km S of New Madrid, Missouri</td>
<td>7.3 km</td>
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<td>2.1</td>
<td>2019-04-08 17:09:47 (UTC)</td>
<td>14km WSW of Lilbourn, Missouri</td>
<td>3.8 km</td>
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<td>1.2</td>
<td>2019-04-06 19:35:55 (UTC)</td>
<td>5km S of Lilbourn, Missouri</td>
<td>8.9 km</td>
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<tr>
<td>1.6</td>
<td>2019-04-04 18:43:42 (UTC)</td>
<td>11km N of Tiptonville, Tennessee</td>
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<tr>
<td>1.9</td>
<td>2019-04-04 07:55:12 (UTC)</td>
<td>9km SSW of New Madrid, Missouri</td>
<td>6.8 km</td>
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4/12/2019
Current Road Conditions
4/12/2019 at 09:12 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>
</tr>
</thead>
<tbody>
<tr>
<td>Atchison-Holt</td>
<td>Crawford</td>
<td>Macon</td>
<td>2</td>
<td>Sac Osage</td>
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<tr>
<td>Barry</td>
<td>Cuivre River</td>
<td>Missouri Rural</td>
<td>3</td>
<td>Se-Ma-No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barton Co</td>
<td>Farmers</td>
<td>N Central Mo</td>
<td></td>
<td>SEMO</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Black River</td>
<td>Gascosage</td>
<td>New-Mac</td>
<td></td>
<td>Southwest</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boone</td>
<td>Grundy</td>
<td>Osage Valley</td>
<td></td>
<td>Three Rivers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Callaway</td>
<td>Howard</td>
<td>Ozark</td>
<td></td>
<td>Tri County</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central MO</td>
<td>1</td>
<td>Howell-Oregon</td>
<td></td>
<td>United</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citizens</td>
<td>Intercounty</td>
<td>Pemiscot-Dunklin</td>
<td></td>
<td>Webster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-Mo</td>
<td>Laclede</td>
<td>Platte-Clay</td>
<td>3</td>
<td>West Central</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consolidated</td>
<td>2</td>
<td>Lewis Co</td>
<td></td>
<td>Ralls Co</td>
<td>1</td>
<td>White River Valley</td>
<td>2</td>
</tr>
</tbody>
</table>

As of 09:15 hours 4/12/2019
# ELECTRIC SYSTEM OUTAGES

<table>
<thead>
<tr>
<th>System</th>
<th>Outages</th>
<th>Customers</th>
</tr>
</thead>
<tbody>
<tr>
<td>AmerenUE</td>
<td>239</td>
<td>1,243,225</td>
</tr>
<tr>
<td><a href="https://outagemap.ameren.com/">https://outagemap.ameren.com/</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City of Columbia</td>
<td>0</td>
<td>49,025</td>
</tr>
<tr>
<td><a href="http://outageviewer.gocolumbiamo.com">http://outageviewer.gocolumbiamo.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Empire District</td>
<td>0</td>
<td>170,158</td>
</tr>
<tr>
<td>KC Power &amp; Light Greater MO</td>
<td>12</td>
<td>638,375</td>
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<tr>
<td>City of Springfield</td>
<td>0</td>
<td>113,164</td>
</tr>
<tr>
<td><a href="https://www.cityutilities.net/outage/map-status/">https://www.cityutilities.net/outage/map-status/</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

As of 09:17 hours 4/12/2019
CYBER SECURITY

Incidents by Month

Year over Year

This chart depicts the number of non-trivial incidents by month C/G has detected/investigated.

- Current Year (2018)
- Last Year (2017)

Low

Missouri's alert level is low as there are no unusual activities above the normal baseline of incidents and threats.
Statewide Activity Report
4/12/2019
For Official Use Only
DEPT. OF NATURAL RESOURCES EVENTS

Most Recent:

- 4/11/19-Springfield: release of 50 gallons diesel fuel from private vehicle to service station parking lot.
- 4/9/19-Lee’s Summit: release of leachate from landfill.
- 4/8/19-Cameron: release of 300 gallons diesel due to line being struck.
- 4/3/19-Monett: Spill of 250 gallons material from tote during transit.
- 4/1/19 – Cape Girardeau Co: release of approximately 1,000 gallons of 32 percent liquid nitrogen fertilizer and less than 50 gallons of diesel fuel released due to commercial motor vehicle accident.
- 3/31/19 – Lafayette Co: release of approximately 150 gallons of diesel fuel due to commercial motor vehicle accident.

* Markers shown on map are cumulative for the current month.
MARCH 2019 INCIDENTS

MISSOURI
STATE EMERGENCY MANAGEMENT
STATE WATCH CENTER

Weather Reports

Environmental Reports

Golf Ball and Larger Hail Reported
Missouri State Emergency Management Agency

Resource Status, Alert Messages, & Long-Term Outlooks

For Official Use Only
MISSOURI TASK FORCE 1 (MO-TF1)
URBAN SEARCH & RESCUE
RESOURCE AVAILABILITY

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**

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

- **Fully Mission Capable**
- **Partially Mission Capable**
- **Not Mission Capable**

- **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></td>
</tr>
<tr>
<td>Type II team 35 person/24 hours</td>
<td></td>
</tr>
</tbody>
</table>

**Status**
- **Fully Mission Capable**
- **Partially Mission Capable**
- **Not Mission Capable**

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

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

### Logistics Support

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 MORT 1</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type II team 80 members/12 hour</td>
<td></td>
</tr>
</tbody>
</table>

**Status**
- **Fully Mission Capable**
- **Partially Mission Capable**
- **Not Mission Capable**
Ebola and Highly Infectious Diseases – Part 1

• What is Ebola Virus Disease (EVD)?
  – EVD is a rare and deadly disease that occurs in people and non-human primates.
  – The viruses that cause EVD are located mainly in sub-Saharan Africa.
  – People can be infected through direct contact with an infected animal (bat or nonhuman primate), or a sick or dead person infected with Ebola virus.
  – EVD can potentially impact the United States.
    ▪ During the West African Ebola outbreak from 2014-2016, 11 people were treated for EVD in the U.S., 2 of whom died.
      o The majority were infected with Ebola virus outside of the U.S. and either medically evacuated into the U.S. for treatment or entered the country as a regular airline passenger.
      o Two nurses in the U.S. who cared for a sick Ebola patient contracted EVD, marking the first known transmission of Ebola virus in this country.
Missouri Department of Health and Senior Services (DHSS)

Ebola and Highly Infectious Diseases – Part 1

- Between October 2014 - February 2016, the Missouri Department of Health and Senior Services (DHSS) received 286 notifications of incoming travelers from the area of the outbreak in West Africa; 177 individuals required monitoring by state and local public health officials.


• EVD Funding
  - The U.S. Department of Health and Human Services (DHHS) Assistant Secretary for Preparedness and Response (ASPR) offered funding opportunities in response to the 2014 Ebola situation.
  - As a result, Missouri was awarded $1,648,208 for the period from May 18, 2015 to May 17, 2020.
  - Although designated for Ebola, Missouri partners have used this funding to robustly build out our entire infectious disease healthcare system.
Ebola and Highly Infectious Diseases – Part 1

• Current EVD situation
  − There is currently an outbreak of EVD ongoing in the Democratic Republic of the Congo (DRC).
  − Although the global risk for the spread of Ebola from this outbreak remains low, DHSS continues to work with public health and healthcare providers to assure readiness.
  − On February 19, 2019, DHSS issued a Health Update entitled “Infection Prevention and Control Recommendations for Ebola Virus Disease and Other Dangerous Diseases.”
    ▪ It encouraged healthcare providers, in light of the DRC outbreak, to review infection prevention and control procedures as they relate to communicable infections, including Ebola.
    ▪ Providers were also reminded of the Missouri State Ebola Response Plan, and the availability of transport options as well as the presence of two assessment hospitals for suspected EVD patients.
• More information from the Centers for Disease Control and Prevention (CDC) on EVD, including guidance for outbreak preparedness, is found at https://www.cdc.gov/vhf/ebola/index.html.