WATCHES, WARNINGS, & ADVISORIES

NWS Kansas City

NWS St. Louis

NWS Quad Cities, IA/IL

NWS Springfield

NWS Paducah

NWS Memphis
WATCHES, WARNINGS, & ADVISORIES

Hazardous Weather Outlook (Today):

• Scattered, generally short lived thunderstorms are expected today primarily from noon to 10 pm for portions of the Missouri Ozarks. Isolated showers and thunderstorms may also be possible toward Wednesday morning. While strong wind gusts will be possible with very isolated storms, organized severe weather is not expected.
• Isolated storms are expected this afternoon for northwest, north central, and west central Missouri. No severe storms are expected, but localized strong wind gusts are possible with any storm that develops.
• Scattered thunderstorms are expected in eastern Missouri.
  
  Days Two Through Seven:

• A stagnant weather pattern will continue this week for portions of the Missouri Ozarks. Scattered thunderstorms will be possible to some degree on a daily basis, mostly during the afternoon and evening hours. While organized severe weather is not expected, localized and brief stronger storms may be possible with gusty winds.
• Scattered storms are expected Wednesday through the end of the week for northwest, north central and west central Missouri. No severe storms are expected, but localized strong wind gusts are possible with any storm that develops.
• The chance for thunderstorms continues for portions of eastern and central Missouri each day from Tuesday afternoon through Sunday.

Current Watches, Warnings & Advisories in Effect:

• Flood Warning for multiple counties across Missouri.
Very warm and humid weather will continue this week with scattered showers and thunderstorms at times.

Isolated to scattered storms are possible each day this week. While severe weather is not expected, localized strong winds gusts will be possible with any storm that develops. As for the evening of the 4th of July, it continues to look like most will be dry.
The forecast sounds a bit like a broken record. An unsettled weather pattern will prevail across the region today through the 4th of July and into the weekend. Scattered mainly afternoon and early evening thunderstorms are expected along with seasonably hot and humid conditions typical of early July.

The forecast is virtually the same today through the extended 4th of July holiday weekend. Expect scattered to numerous showers and thunderstorms each afternoon with small chances of showers and thunderstorms each night. Temperatures will be near seasonal norms, and afternoon heat indices will top out in the middle 90s to near 100 each day.
Hot and humid conditions will continue today with heat index readings of 95 to 102°. Thunderstorms will develop this afternoon and will be capable of producing torrential rainfall and damaging winds. Rainfall rates of 2 inches an hour and very damaging winds are possible from the strongest storms.

NWS Memphis

The probability for widespread hazardous weather is low.
CURRENT FLOODING: NEAR or ABOVE FLOOD STAGE

Major Flood Stage: Missouri River
- Rulo, NE
- Glasgow, MO
- Hermann, MO
- St. Charles, MO

Moderate Flood Stage: Missouri River
- Cape Girardeau, MO

Major Flood Stage: Mississippi River
- Grafton, IL
- Mel Price Lock and Dam, IL
- St. Louis, MO
- Chester, IL
- Thebes, IL

Moderate Flood Stage: Mississippi River
- Osage River at Mari-Osa Campground, MO
- Illinois River at Hardin, IL

Major Flood Stage: Other Rivers
- Osage River near Taberville, MO
- Ohio Rover at Cairo, IL
- Illinois River at Hardin, IL
FLOODING FORECAST – 10 DAY

Most Recent Flood Details:

Major Flood Stage forecast: Missouri River
- Rulo, NE
- Glasgow, MO
- Jefferson City, MO
- Hermann, MO
- St. Charles, MO

Moderate Flood Stage forecast: Missouri River
- Rulo, NE

Major Flood Stage forecast: Mississippi River
- Cape Girardeau, MO

Moderate Flood Stage forecast: Mississippi River
- Cape Girardeau, MO
- Mel Price Lock and Dam, IL
- St. Louis, MO
- Chester, IL
- Thebes, IL

Major Flood Stage forecast: Other Rivers
- Illinois River at Hardin, IL
- Osage River at Mari-Osa Campground, MO

Moderate Flood Stage forecast: Other Rivers
- Osage River near Taberville, MO
- Ohio River at Cairo, IL

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 CAPE GIRARDEAU

Latest observed value: 42.06 ft at 7:30 AM CDT 2 Jul 2019. Flood Stage is 34 ft.

Record: 48.2 ft

Flow (cfs)

Site Time (CDT)

7/2/2019
FLOODING FORECAST: OTHER RIVERS – MAJOR FLOOD STAGE

**OSAGE RIVER AT MARQUESA CAMPGROUND**

- Latest observed value: 27.9 ft at 8:00 AM CDT 1 Jul 2019. Flood Stage is 19 ft.

**ILLINOIS RIVER AT HARDIN**

- Latest observed value: 32.4 ft at 8:00 AM CDT 2 Jul 2019. Flood Stage is 23 ft.

Graphs show stage levels over time with forecasts for future stages. Observations courtesy of US Geological Survey.
FLOODING FORECAST: MISSOURI RIVER – MODERATE FLOOD STAGE

7/2/2019
FLOODING FORECAST: MISSOURI RIVER – MODERATE FLOOD STAGE

MISSOURI RIVER AT JEFFERSON CITY

MISSOURI RIVER AT HERMANN

7/2/2019
FLOODING FORECAST: MISSOURI RIVER – MODERATE FLOOD STAGE

MISSOURI RIVER AT ST. CHARLES

Latest observed value: 22.96 ft at 8:00 AM CDT 2-Jul-2019. Flood Stage is 25 ft

Graph Created (6:24AM Jul 2, 2019)  
Observations courtesy of US Geological Survey
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT GRAFTON
Universal Time (UTC)

Latest observed value: 25.40 ft at 8:00 AM CDT 2-Jul-2019. Flood Stage is 18 ft.

MISSISSIPPI RIVER AT MEL PRICE (ALTON) LOCK AND DAM
Universal Time (UTC)

Latest observed value: 30.63 ft at 8:00 AM CDT 2-Jul-2019. Flood Stage is 21 ft.

Graph Created on: 6:39 AM Jul 2, 2019
Graph Created on: 6:39 AM Jul 2, 2019

Observations courtesy of US Geological Survey
Observations courtesy of US Geological Survey

7/2/2019
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

**MISSISSIPPI RIVER AT ST. LOUIS**

- **Latest observed value:** 37.91 ft at 8:00 AM CDT 2-Jul-2019. Flood Stage is 30 ft
- **Major:** 40.0 ft
- **Moderate:** 35.0 ft
- **Minor:** 30.7 ft
- **Action:** 28.0 ft

**MISSISSIPPI RIVER AT CHESTER**

- **Latest observed value:** 39.32 ft at 8:00 AM CDT 2-Jul-2019. Flood Stage is 27 ft
- **Major:** 42.8 ft
- **Moderate:** 35.0 ft
- **Minor:** 30.7 ft
- **Action:** 28.0 ft

Observations courtesy of US Geological Survey

Graph Created (6:39AM Jul 2, 2019) — Observed — Forecast (issued 9:04PM Jul 1)
FLOODING FORECAST: MISSISSIPPI RIVER – MODERATE FLOOD STAGE

MISSISSIPPI RIVER AT THEBES

Universal Time (UTC)

Latest observed value: 40.27 ft at 8:00 AM CDT 2-Jul-2019. Flood Stage is 33 ft

Record: 47.7'
FLOODING FORECAST: OTHER RIVERS – MODERATE FLOOD STAGE

OSAGE RIVER NEAR TABERVILLE

Universal Time (UTC)

|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Latest observed value: 37.4 ft at 7:45 AM CDT 2 Jul 2019. Flood Stage is 23 ft.

Moderate: 34.5 ft

Graph Created (6:36AM Jul 2, 2019)  ~  Observed  ~  Forecast (issued 9:29AM Jul 1)

Observations courtesy of US Geological Survey

OHIO RIVER AT CAIRO

Universal Time (UTC)

|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Latest observed value: 50.72 ft at 8:00 AM CDT 2 Jul 2019. Flood Stage is 40 ft.

Major: 53.0 ft
Moderate: 47.0 ft
Minor: 40.0 ft

Graph Created (6:47AM Jul 2, 2019)  ~  Observed  ~  Forecast (issued 7:58PM Jul 1)
RECENT EARTHQUAKES
6/02/19 to 7/02/19

1.1 2km E of Ridgely, Tennessee
    2019-07-01 20:11:02 (UTC)  6.2 km

1.4 8km NNW of Tiptonville, Tennessee
    2019-06-30 16:14:54 (UTC)  8.0 km

1.8 12km SSW of New Madrid, Missouri
    2019-06-28 09:11:06 (UTC)  8.7 km

1.2 5km NW of Ridgely, Tennessee
    2019-06-27 07:14:59 (UTC)  7.1 km

1.8 12km SW of Blytheville, Arkansas
    2019-06-27 00:09:07 (UTC)  7.6 km

2.1 5km NNW of Ridgely, Tennessee
    2019-06-24 21:55:25 (UTC)  8.1 km

Magnitude Age (past)
0 ○○○○○○○○ 7+ Hour Day Year Month Day
Current Road Conditions
7/2/2019 at 08:00 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>
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<tbody>
<tr>
<td>Atchison-Holt</td>
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<td>Sac Osage</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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<td>N Central Mo</td>
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<td>Southwest</td>
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<td>Grundy</td>
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<td>Osage Valley</td>
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<td>Three Rivers</td>
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<td>Callaway</td>
<td>1</td>
<td>Howard</td>
<td></td>
<td>Ozark</td>
<td></td>
<td>Tri County</td>
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<tr>
<td>Central MO</td>
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<td>Howell-Oregon</td>
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<td>Ozark Border</td>
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<td>United</td>
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<td>Citizens</td>
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<td>Intercounty</td>
<td></td>
<td>Pemiscot-Dunklin</td>
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<td>Webster</td>
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<td>Co-Mo</td>
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<td>Laclede</td>
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<td>Platte-Clay</td>
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<td>West Central</td>
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<tr>
<td>Consolidated</td>
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<td>Lewis Co</td>
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<td>Ralls Co</td>
<td></td>
<td>White River Valley</td>
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</table>

As of 08:01 hours 7/2/2019
# ELECTRIC SYSTEM OUTAGES

<table>
<thead>
<tr>
<th>System</th>
<th>Outages</th>
<th>Customers</th>
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<tr>
<td>AmerenUE</td>
<td>31</td>
<td>1,243,225</td>
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<tr>
<td><a href="https://outagemap.ameren.com/">https://outagemap.ameren.com/</a></td>
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<td>City of Columbia</td>
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<td>Empire District</td>
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<td>City of Springfield</td>
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<td>113,164</td>
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As of 08:03 hours 7/2/2019
DEPT. OF NATURAL RESOURCES EVENTS

Most Recent:

* Markers shown on map are cumulative for the current month.
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>Fully Mission Capable</td>
</tr>
<tr>
<td><strong>Type 2</strong> (80 person task force/24 hr. Operational Capability, minus CBRNE element)</td>
<td>Partially Mission Capable</td>
</tr>
<tr>
<td><strong>Type 3</strong> (40 person task force/12 hr. Operational Capability)</td>
<td>Not Mission Capable</td>
</tr>
<tr>
<td><strong>Type 4</strong> (25 person task force/12 hr. Operational Capability)</td>
<td></td>
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</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)
MO MORTUARY OPERATIONS RESPONSE TEAM 1 (MO MORT 1)
RESOURCE AVAILABILITY

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>Mission Capable</td>
</tr>
<tr>
<td>Type II team 35 person/24 hours</td>
<td>Mission Capable</td>
</tr>
</tbody>
</table>

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)

<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>Mission Capable</td>
</tr>
<tr>
<td>Fully Mission Capable</td>
<td>Partially Mission Capable</td>
</tr>
</tbody>
</table>
Missouri Department of Health and Senior Services (DHSS)

Guidance for Persons Affected by Flooding – Part 1

Missouri has been experiencing widespread, extensive flooding this year. The Missouri Department of Health and Senior Services (DHSS) recommends the following to prevent certain health-related consequences that can result from this type of incident.

• Flooded private water wells
  - Floodwater may contain raw sewage and hazardous chemicals that can contaminate ground water. Consequently, people with flooded private wells are advised to test their water.
  - It is also advised that well water be boiled before use until the water can be tested.
  - The Missouri State Public Health Laboratory (MSPHL) is waiving the fee for private drinking water testing statewide during the current declared state of emergency.
  - Persons affected can obtain a free well water testing kit by contacting their local public health agency (see https://health.mo.gov/living/lpha/lphas.php), or DHSS at 573-751-3334.
Guidance for Persons Affected by Flooding – Part 1

• Tetanus-diphtheria (Td) vaccine
  - Sharp objects and debris, such as glass or metal objects, may be present in floodwater and in debris left behind.
  - Anyone involved with flood cleanup should have had a booster dose of tetanus-diphtheria (Td) vaccine within the past 10 years.

• Toxic and other harmful materials contained in flood waters
  - People in flooded areas need to be aware that flooding incorporates chemicals, nutrients, sewage, etc. into streams, rivers, and receiving waters in concentrations that frequently exceed water quality standards for designated use and may be unsafe.
  - There should also be awareness that *E. coli* bacteria and harmful algae blooms may, because of interactions with flood waters, be of greater concern this year.
  - As a consequence, direct contact with flood waters should be avoided whenever possible.
Missouri Department of Health and Senior Services (DHSS)

Guidance for Persons Affected by Flooding – Part 1

• Potential contact with dangerous animals and insect vectors
  - Animals, insects, snakes, and other reptiles that have been displaced due to flooding may be in or near floodwaters, or hiding in debris.
  - Standing water serves as a breeding ground for mosquitoes, resulting in a large population of these insects that can potentially spread disease.
  - Be alert for the presence of wild or displaced domestic animals in flooded areas, and wear an insect repellent when working outdoors. For more information on insect repellents, go to https://health.mo.gov/living/healthcondiseases/communicable/tickscarrydisease/repellentqa.php.

Additional flood-related guidance from DHSS:
https://health.mo.gov/living/environment/floodrecovery/index.php

Information and guidance on flooding from the Centers for Disease Control and Prevention (CDC):
https://www.cdc.gov/disasters/floods/index.html

Information and guidance on protecting indoor air quality during flood cleanup from the Environmental Protection Agency (EPA):

7/2/2019