Key Messages

➔ Drought Information Statement
➔ Drought conditions continue to expand across the area.
➔ Drought conditions are expected to persist through at least the end of July.

New Important Updates
➔ Severe and Extreme drought conditions have increased across the area.

Next Scheduled Briefing
➔ Thursday July 28, 2022
Overview

→ Severe drought conditions have expanded across a large area of southern Missouri.

→ Extreme drought conditions continue across the West Plains and Alton areas.

→ Areas across west central Missouri including Truman Lake over to Lake of the Ozarks are abnormally dry to moderate drought.
Overview

While the worst drought is affecting the western portions of the state, moderate and severe drought is located across far southeast Kansas.
July 21, 2022
10:13 AM

Missouri and Kansas Drought Monitor

U.S. Drought Monitor
Kansas

July 19, 2022
(Released Thursday, Jul. 21, 2022)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

<table>
<thead>
<tr>
<th>Intensity</th>
<th>None</th>
<th>D0 Abnormally Dry</th>
<th>D1 Moderate Drought</th>
<th>D2 Severe Drought</th>
<th>D3 Exceptional Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>17.86</td>
<td>82.14</td>
<td>53.85</td>
<td>40.02</td>
<td>22.59</td>
</tr>
<tr>
<td>Last Week</td>
<td>49.26</td>
<td>50.74</td>
<td>47.63</td>
<td>31.38</td>
<td>16.02</td>
</tr>
<tr>
<td>3 Months Ago</td>
<td>25.94</td>
<td>74.06</td>
<td>66.66</td>
<td>52.59</td>
<td>17.38</td>
</tr>
<tr>
<td>Start of Calendar Year 01/01/2022</td>
<td>25.79</td>
<td>74.81</td>
<td>52.34</td>
<td>14.06</td>
<td>4.85</td>
</tr>
<tr>
<td>Start of Water Year 07/01/2021</td>
<td>51.22</td>
<td>48.78</td>
<td>15.04</td>
<td>4.14</td>
<td>0.00</td>
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<tr>
<td>One Year Ago</td>
<td>69.94</td>
<td>30.11</td>
<td>0.52</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/about.aspx

Author:
Brian Fuchs
National Drought Mitigation Center

droughtmonitor.unl.edu

U.S. Drought Monitor
Missouri

July 19, 2022
(Released Thursday, Jul. 21, 2022)
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<th>D2 Severe Drought</th>
<th>D3 Exceptional Drought</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>29.36</td>
<td>73.64</td>
<td>50.72</td>
<td>33.13</td>
<td>2.08</td>
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<tr>
<td>Last Week</td>
<td>37.41</td>
<td>62.59</td>
<td>40.51</td>
<td>2.27</td>
<td>0.00</td>
</tr>
<tr>
<td>3 Months Ago</td>
<td>39.97</td>
<td>0.01</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Start of Calendar Year 01/01/2022</td>
<td>39.97</td>
<td>0.01</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Start of Water Year 07/01/2021</td>
<td>49.36</td>
<td>35.14</td>
<td>4.43</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>One Year Ago</td>
<td>58.42</td>
<td>1.02</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

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National Drought Mitigation Center

droughtmonitor.unl.edu
## Drought Classification

### Drought Information

- **State Impacts**
- **Drought Impacts Toolkit**
- **Drought Monitor Archive**

### Drought Classification Table

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Possible Impacts</th>
<th>Palmer Drought Severity Index (PDSI)</th>
<th>CPC Soil Moisture Model (Percentiles)</th>
<th>USGS Weekly Streamflow (Percentiles)</th>
<th>Standardized Precipitation Index (SPI)</th>
<th>Objective Drought Indicator Blends (Percentiles)</th>
</tr>
</thead>
</table>
| D0       | Abnormally Dry | Going into drought:  
- short-term dryness slowing planting growth of crops or pastures
Comming out of drought:  
- some lingering water deficits  
- pastures or crops not fully recovered | -1.0 to -1.9 | 21 to 30 | 21 to 30 | -0.5 to -0.7 | 21 to 30 |
| D1       | Moderate Drought |  
- Some damage to crops, pastures  
- Streams, reservoirs, or wells low; some water shortages developing or imminent  
- Voluntary water-use restrictions requested | -2.0 to -2.9 | 11 to 20 | 11 to 20 | -0.8 to -1.2 | 11 to 20 |
| D2       | Severe Drought |  
- Crop or pasture losses likely  
- Water shortages common  
- Water restrictions imposed | -3.0 to -3.9 | 6 to 10 | 6 to 10 | -1.3 to -1.5 | 6 to 10 |
| D3       | Extreme Drought |  
- Major crop/pasture losses  
- Widespread water shortages or restrictions | -4.0 to -4.9 | 3 to 5 | 3 to 5 | -1.6 to -1.9 | 3 to 5 |
| D4       | Exceptional Drought |  
- Exceptional and widespread crop/pasture losses  
- Shortages of water in reservoirs, streams, and wells creating water emergencies | -5.0 or less | 0 to 2 | 0 to 2 | -2.0 or less | 0 to 2 |
Rapid Onset Drought in Southern Missouri

June 21, 2022 Drought Analysis

July 19, 2022 Drought Analysis
Overview

➔ The expected weather pattern through the rest of the summer and early fall would indicate that the drought is likely to persist.

➔ The highest probability for drought persisting is over the southern third of Missouri.

➔ Drought is likely to worsen over central and west central Missouri.
Overview

➔ A high probability for excessive heat continues late next week through next weekend.

➔ These temperatures will further exacerbate the ongoing drought.
While rain chances exist within the next 8 to 14 days, the drought is expected to continue.
Early August Outlook

Above normal temperatures and below normal precipitation

Weeks 3-4 Temperature Outlook
Valid: July 30 - August 12, 2022
Issued: July 15, 2022

Weeks 3-4 Precipitation Outlook
Valid: July 30 - August 12, 2022
Issued: July 15, 2022
August Temps and Precip Outlook

Monthly Temperature Outlook
Valid: August 2022
Issued: July 21, 2022

Probability (Percent Chance)
- Above Normal: 90-100%
- Above: 70-80%
- Likely Above: 60-70%
- Equal Chances: 50-60%
- Likely Below: 40-50%
- Below Normal: 30-40%
- Below: 20-30%
- LEANING: 10-20%

Monthly Precipitation Outlook
Valid: August 2022
Issued: July 21, 2022

Probability (Percent Chance)
- Above Normal: 90-100%
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National Oceanic and Atmospheric Administration
U.S. Department of Commerce
National Weather Service
Springfield, Missouri
Overview

➔ Little to no chance for rain through Sunday with hot temperatures.
➔ Rain chances increase somewhat next week.
While conditions were wet in April and May, precipitation amounts since June 1st are well below normal.
Overview

Rainfall since early June has been well below normal across southeast Kansas and southern Missouri.
Below Normal Streamflows
Compared to historical droughts

Overview

➔ Below normal stream flows are occurring in the James River basin areas of southern Missouri.

➔ The 10-24 streamflow category indicates that the estimated streamflow is between the 10th and 24th percentile for this day of the year (low).

➔ Expectations are for streamflows to further decrease across other river basins unless precipitation occurs.
For Additional Information

➔ NWS Springfield Webpage
➔ IDSS Point Forecasts
➔ NWS Springfield Drought Monitor Resources
➔ Graphical Hazardous Weather Outlook
➔ Missouri Drought Monitor | Kansas Drought Monitor
➔ CPC Drought Information
➔ National Integrated Drought Information System (NIDIS)
➔ National Drought Mitigation Center (NDMC)
➔ Missouri USGS Streamflows | Kansas USGS Streamflows
➔ Drought Safety