



Drought Information Statement

for southeast Ohio, northeast Kentucky, southwest Virginia, and much of West Virginia

Valid August 22, 2024

Issued By: NWS Charleston, WV

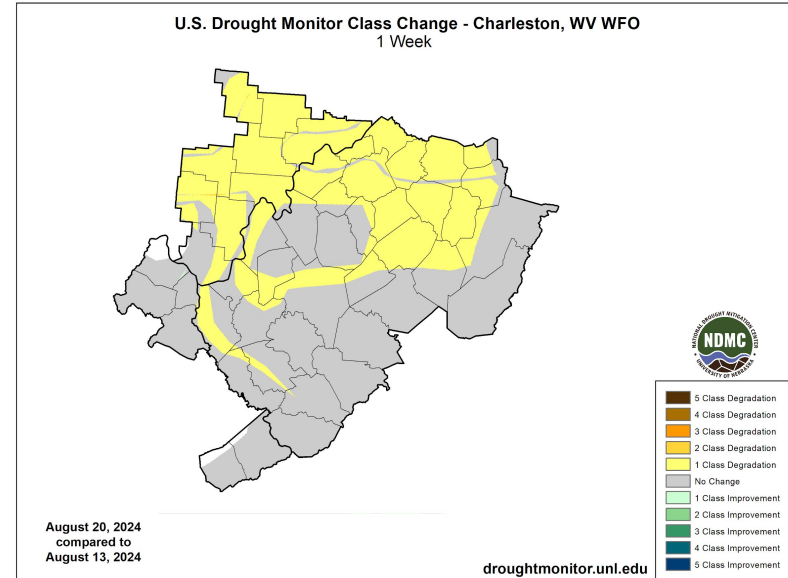
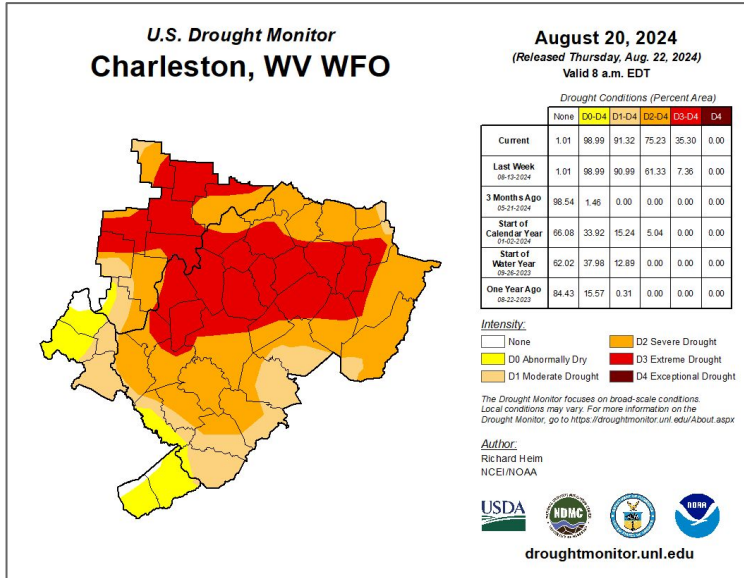
Contact Information: rlx.webmaster@noaa.gov

- This product will be updated August 29, 2024
 - Please see all currently available products at <https://drought.gov/drought-information-statements>.
 - Please visit <https://www.weather.gov/RLX/DroughtInformationStatement> for previous statements.
-
- Extreme Drought now affecting much of southeast OH along with western and central WV



Current Drought Conditions

Latest Drought Monitor and One-Week Change



Main Takeaways

- **D3 (Extreme Drought):** Expansion across western and central WV as well as southeast OH
- **D2 (Severe Drought):** Expanded more into the Coal Fields
- **D1 (Moderate Drought):** No Change
- **D0: (Abnormally Dry):** No change

Image Caption:

Left: [U.S. Drought Monitor valid 8am EDT August 22, 2024](#)

Right: [U.S. Drought Monitor 1-week change map valid 8am EDT August 22, 2024](#)



National Oceanic and Atmospheric Administration

U.S. Department of Commerce

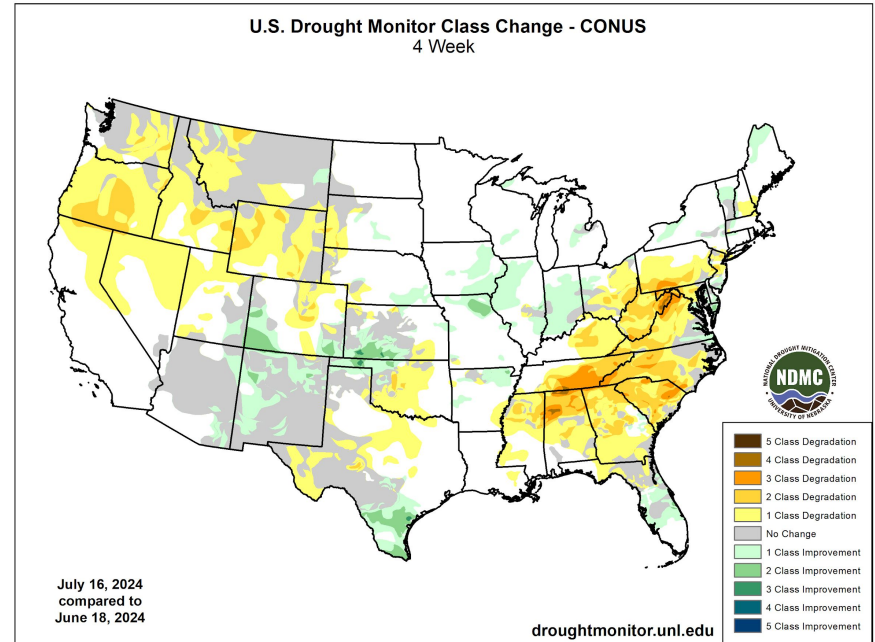
National Weather Service
Charleston, WV



Current Drought Conditions

Latest Drought Monitor One-Week Change

- Four Week Drought Monitor Class Change.
 - Drought Worsened: [State each county or region within WFO region where a class degradation occurred. If nowhere is under a class degradation, remove subheading.]
 - No Change: [State each county or region within WFO region where no class change occurred. If nowhere is under no change, remove subheading.]
 - Drought Improved: [State each county or region within WFO region where a class improvement occurred. If nowhere is under a class improvement, remove subheading.]

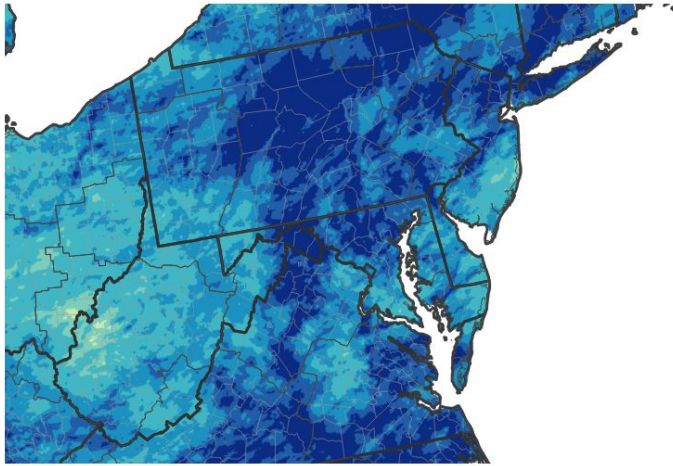




Observed Precipitation

Latest 30-Day Rainfall and Percent of Normal Rainfall

30-Day Precipitation Accumulations (Inches)

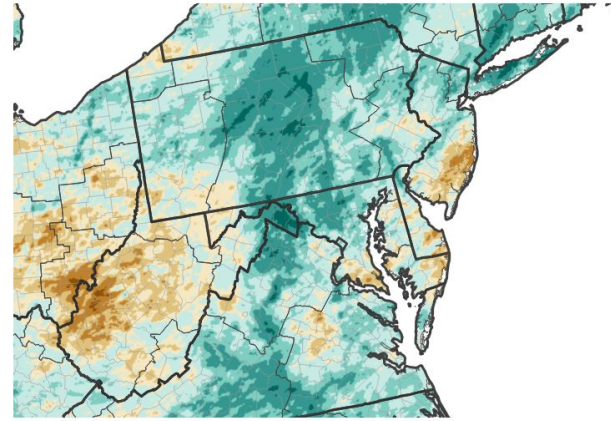


Inches of Precipitation

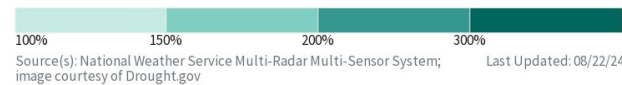
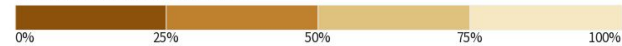


Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 08/22/24

30-Day Percent of Normal Precipitation



Percent of Normal Precipitation (%)



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 08/22/24

Main Takeaways

- Significant rainfall deficits continue in southeast OH and western/central WV

Image Caption:

Left - Precipitation Amount for Mid Atlantic
Right - Percent of Normal Precipitation for Mid Atlantic
Data Courtesy NWS National Water Prediction Service
Data over the past 30 days ending August 22, 2024

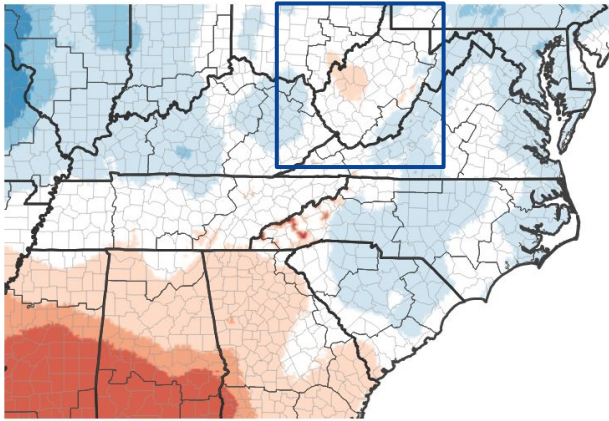




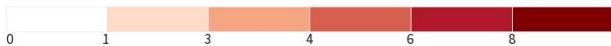
Observed Temperature

Latest 7 and 30-Day Temperature Anomaly

7-Day Temperature Anomaly

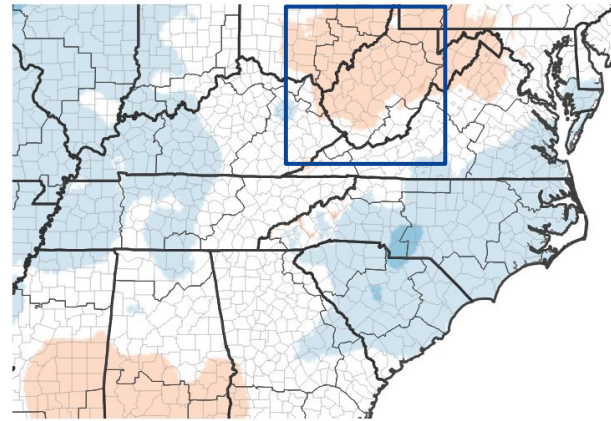


Departure from Normal Max Temperature (°F)

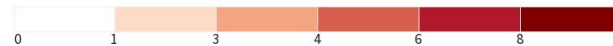


Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov Data Valid: 08/18/24

30-Day Temperature Anomaly



Departure from Normal Max Temperature (°F)



Source(s): NOAA's National Centers for Environmental Information; image courtesy of Drought.gov Data Valid: 08/18/24

Main Takeaways

- Temperatures near normal across the state over the past week but remain slightly above normal for the month

Image Captions:

Left - 7-Day Departure from Normal Temperature for Appalachia
 Right - 30-Day Departure from Normal Temperature for Appalachia
 Data Courtesy NOAA's National Centers for Environmental Information
 Data over the past 30 days ending August 18, 2024





Hydrologic Conditions and Impacts

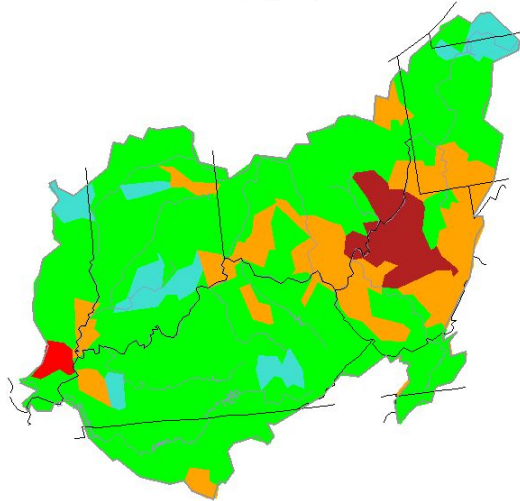
Main Takeaways

- Streamflow remains below to much below normal across much of the WV lowlands and southeast OH
- Groundwater wells remain low across much of the WV lowlands

Impacts

- Reservoir lakes below summer pool:
 - Tygart Lake **31' below**
 - Stonewall Jackson lake **7' below**
 - Burnsville Lake **2.5' below**
 - Sutton Lake **4.4' below**
 - Beech Fork Lake **2' below**
- Some residential and agricultural wells experiencing impacts
- Water supply negatively affected for communities that depend on water from nearby creeks and rivers.
- Water quality may become adversely impacted as well

Wednesday, August 21, 2024



Explanation - Percentile classes							
●	●	●	●	●	●	●	○
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

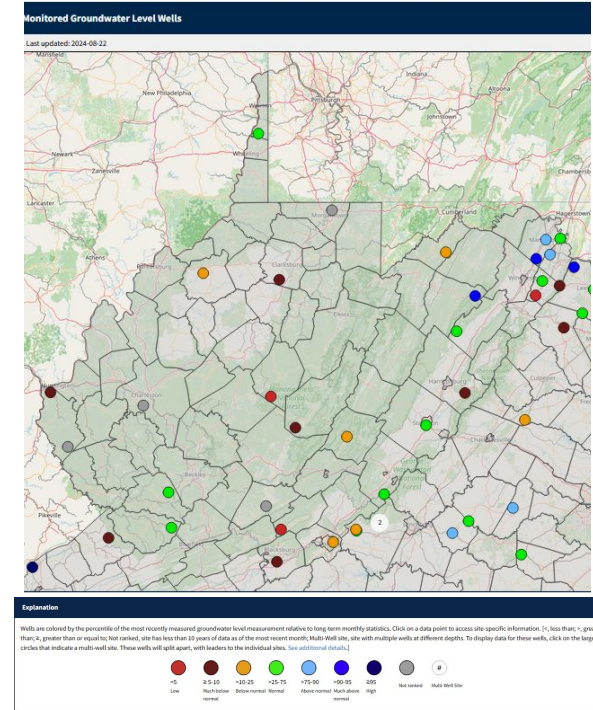


Image Caption:
 Left - USGS 7 day average streamflow HUC maps valid August 21, 2024
 Right - USGS groundwater wells valid August 22, 2024





Agricultural Impacts

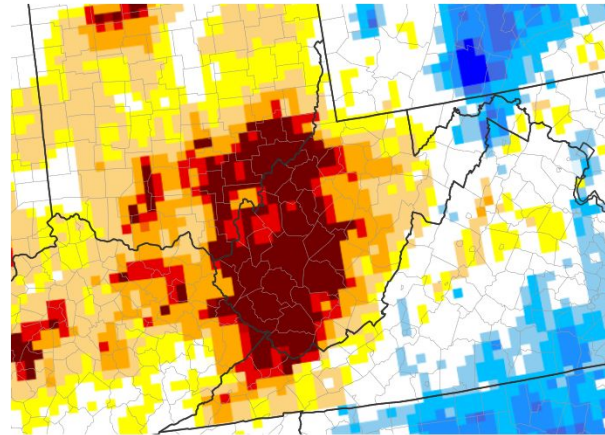
Main Takeaways

- Soil moisture remains well below normal across the much of the lowlands

Impacts

- Declining levels in irrigation wells/ponds have led to hauling of water for livestock across parts of southeast OH and the lowlands of WV
- Crop yield loss reports across much of the western and central WV and now southeast OH
- Hay shortage reported throughout the central lowlands/mountains and now southeast OH
 - supplemental feeding needed

GRACE Root Zone Soil Moisture Percentile



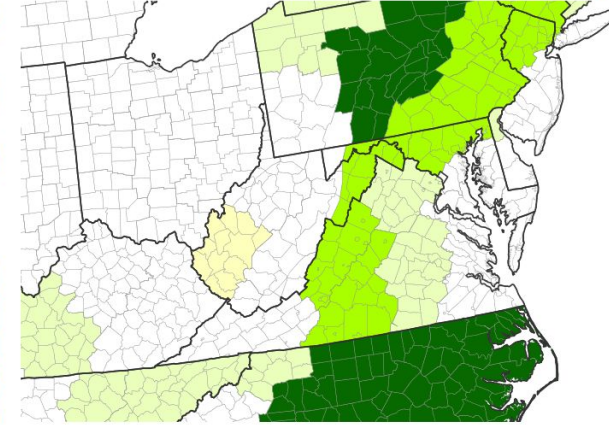
Root Zone Soil Moisture: Wetness Percentile



Source(s): NASA, National Drought Mitigation Center
Data Valid: 08/20/24

Drought.gov

Crop Moisture Index



Crop Moisture Index



Source(s): Climate Prediction Center
Data Valid: 08/17/24

Drought.gov

USDA Crop Progress and Condition Weekly Reports

- [West Virginia](#)
- [Ohio](#)
- [Virginia](#)
- [Kentucky](#)

Image Captions:
Left: CPC Calculated [Soil Moisture Ranking Percentile](#) valid August 21, 2024
Right: USDA Crop Progress Report valid August 17, 2024





Fire Hazard Impacts

Link to [Wildfire Potential Outlooks from the National Interagency Coordination Center](#).

Main Takeaways

- Low ponds
- Potential for navigation issues in the weeks/months ahead on the big rivers (especially Mississippi)

Impacts

Recent dry weather has led to some lower

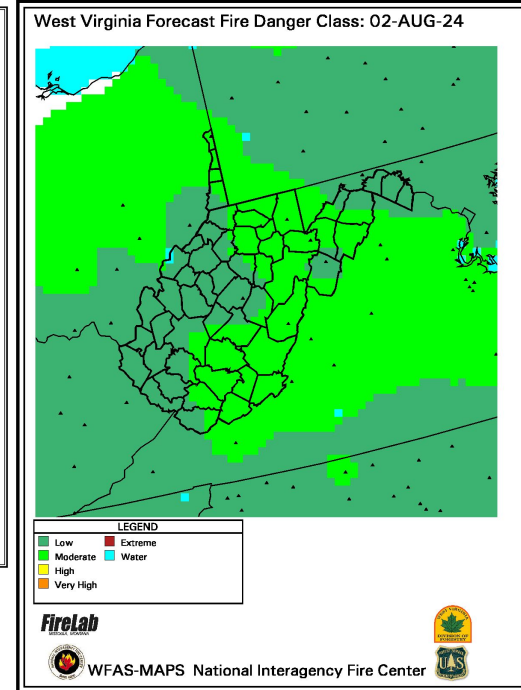
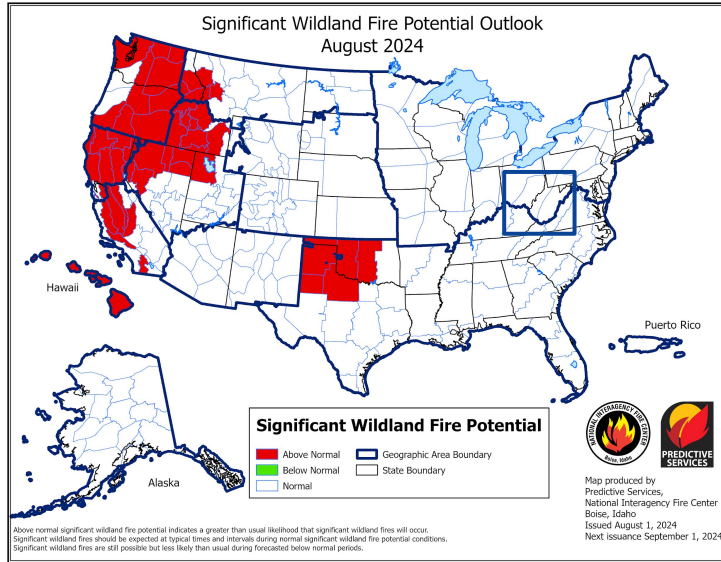


Image Captions:

Left: Significant Wildland Fire Potential monthly outlook valid July, 2024

Right: Area fire danger class, valid August 2, 2024





Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

Hydrologic Impacts

- 7-day average streamflows continue well below much of southeast OH and central/northern WV
- Several reservoir lake levels are below summer pools in WV

Agricultural Impacts

- Low soil moisture has stunted crop growth in many parts of the state now
- Crop yield losses continue to be reported in the state particularly in the western, central, and now southeast OH
 - Lack of hay has resulted in supplemental feeding
- Hauling of water for livestock continues across western and central WV and now in southeast OH

Fire Hazard Impacts

- If dryness persists, above normal brush fire activity is possible during the second half of summer given drying vegetation and the continued potential for above normal temperatures.

Mitigation Actions

- Please refer to your municipality and/or water provider for mitigation information.



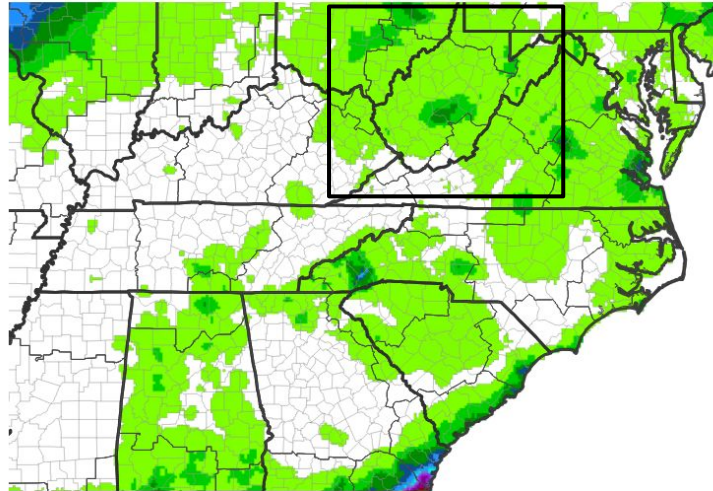


Seven Day Precipitation Forecast

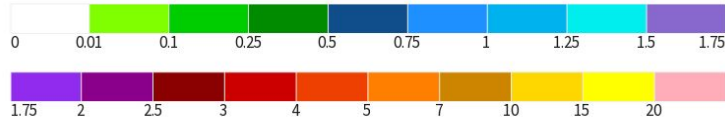
Next 7 days:

- Dry through the weekend with precipitation chances increasing slightly early-mid week next week
 - No significant precipitation expected however

7-Day Quantitative Precipitation Forecast



Predicted Inches of Precipitation



Source(s): National Weather Service Weather Prediction Center; image courtesy of Drought.gov

Last Updated: 08/22/24

Image Caption:

Weather Prediction Center 7-day precipitation forecast valid August 22, 2024





Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

Main Takeaways

- Low ponds
- Potential for navigation issues in the weeks/months ahead on the big rivers (especially Mississippi)

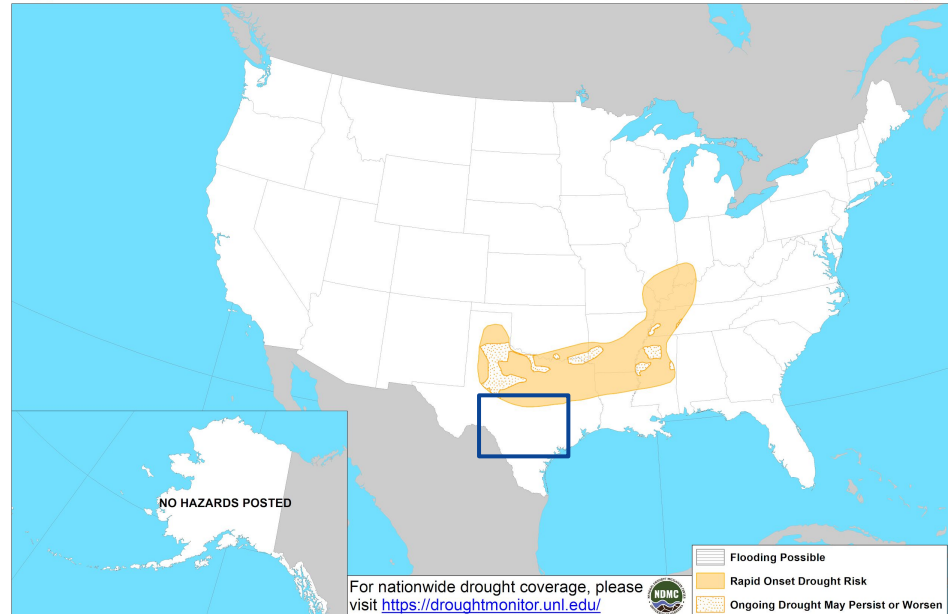
Impacts

Recent dry weather has led to some lower



Day 8-14 U.S. Hazards Outlook

Valid: 08/29/2024-09/04/2024



Climate Prediction Center

Made: 08/21/2024 3PM EDT

Follow us: www.cpc.ncep.noaa.gov



National Oceanic and Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Charleston, WV



8-14 Day Outlook

Temperature and Precipitation Outlook

Main Takeaways

- Above normal temperature with normal precipitation favored

Impacts

- Worsening drought conditions possible across many locations

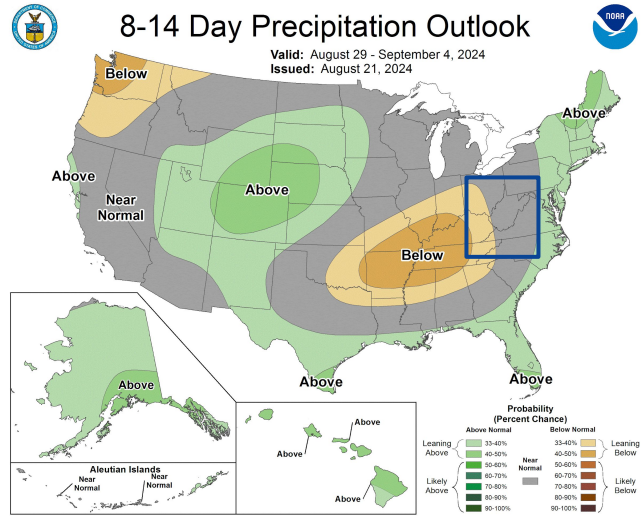
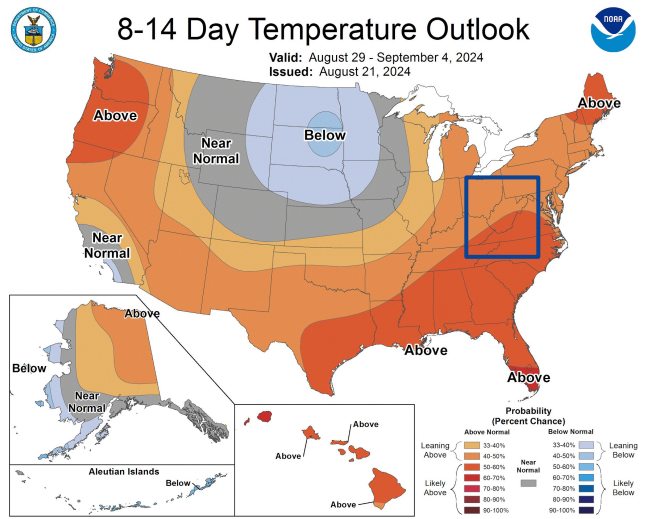


Image Captions: Climate Prediction Center 8-14 day temperature and precipitation outlook valid August 21, 2024



Weeks 3-4 Outlook

Temperature and Precipitation Outlook

Main Takeaways

- Increased probability of above normal temperatures

Impacts

- Worsening drought conditions possible across many locations

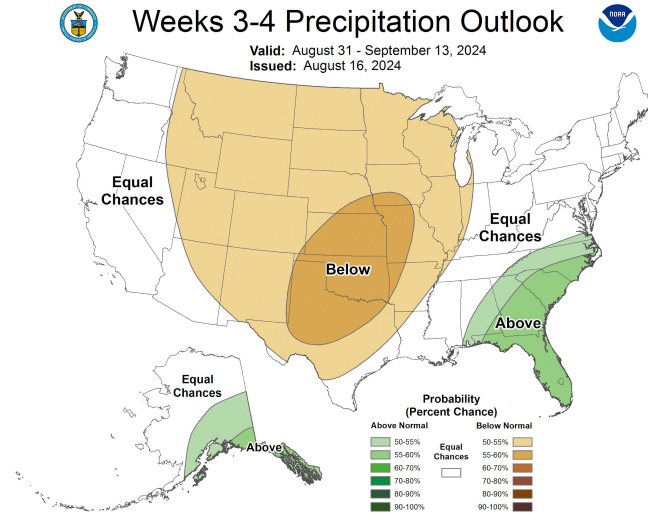
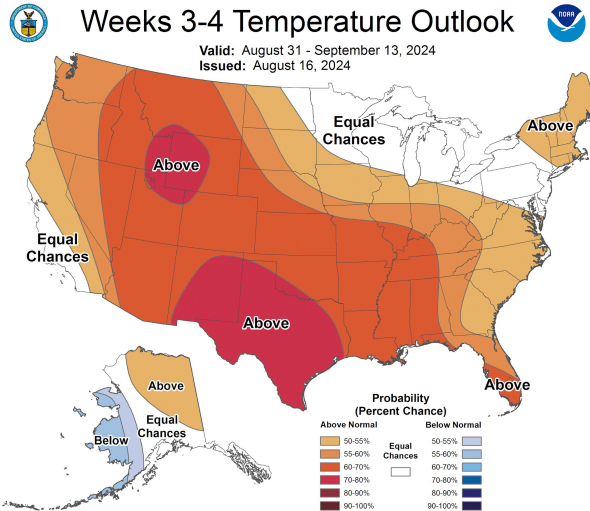


Image Captions:
Climate Prediction Center weeks 3-4 temperature and precipitation outlook valid August 16, 2024





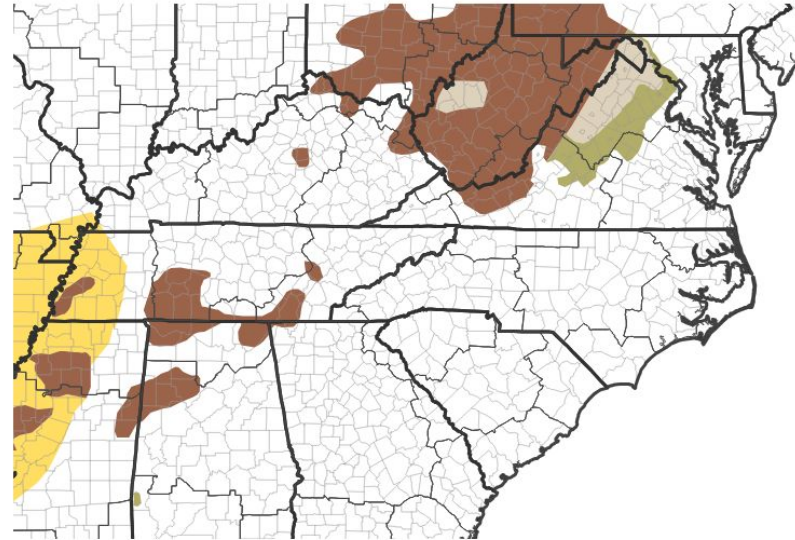
Seasonal (3-Month) Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

Main Takeaways

- Overall improvement in drought conditions is possible through the remainder of the summer months with chances for above normal precipitation in the short and long range outlooks
- However, even near normal rainfall combined with above normal temperatures would result in drought persistence

Seasonal (3-Month) Drought Outlook



Drought Is Predicted To...



Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 08/15/24

Image Caption:

Climate Prediction Center Seasonal Drought Outlook Released August 15, 2024
Valid July 1, 2024 - September 30, 2024

