



Drought Information Statement

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

Valid November 7, 2024

Issued By: NWS Charleston, WV

Contact Information: rlx.webmaster@noaa.gov

- This product will be updated November 14, 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.
-
- Slight degradation in southern areas





Current Drought Conditions

Latest Drought Monitor

Main Takeaways

- **D4 (Exceptional Drought)**: No change
- **D3 (Extreme Drought)**: No change
- **D2 (Severe Drought)**: No change
- **D1 (Moderate Drought)**: Slight expansion into the Tug Valley
- **D0: (Abnormally Dry)**: Slight expansion in northeast KY and southwest VA

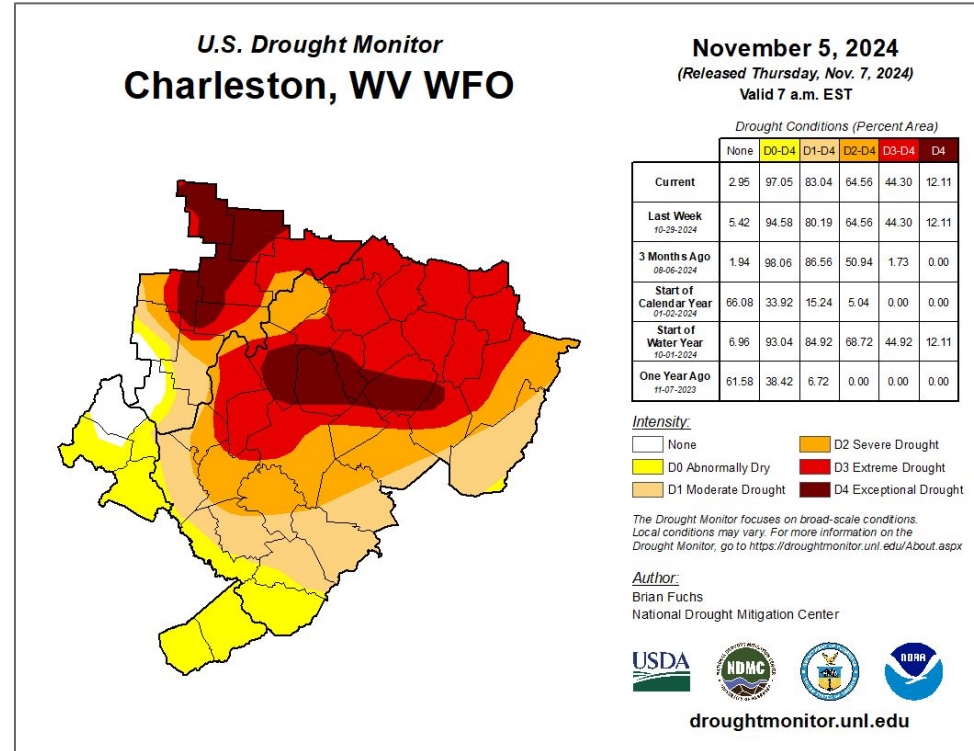


Image Caption: Right: [U.S. Drought Monitor](https://droughtmonitor.unl.edu/) valid 8am EDT November 7, 2024





Current Drought Conditions

Latest Drought Monitor Four-Week Change

- **Four Week Drought Monitor Class Change**
 - **Drought Worsened:** Southwest VA and slivers of northeast KY, southern WV, southeast OH
 - **No Change:** Areas of southeast northeast KY, OH and WV
 - **Drought Improved:** None

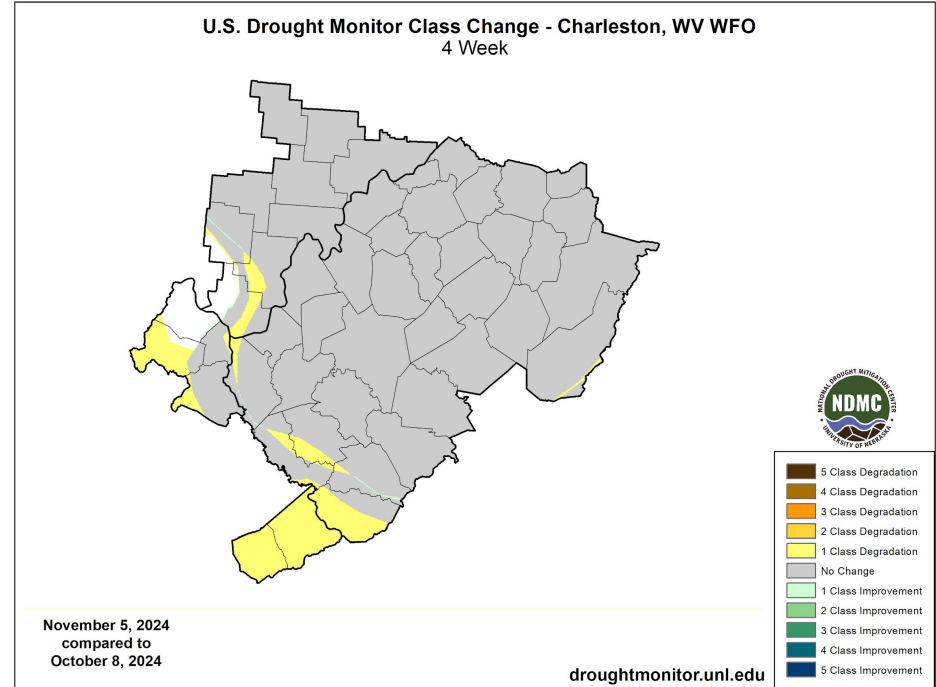


Image Caption:
Right: [U.S. Drought Monitor 4 week change valid 8am EDT November 7, 2024](https://droughtmonitor.unl.edu)





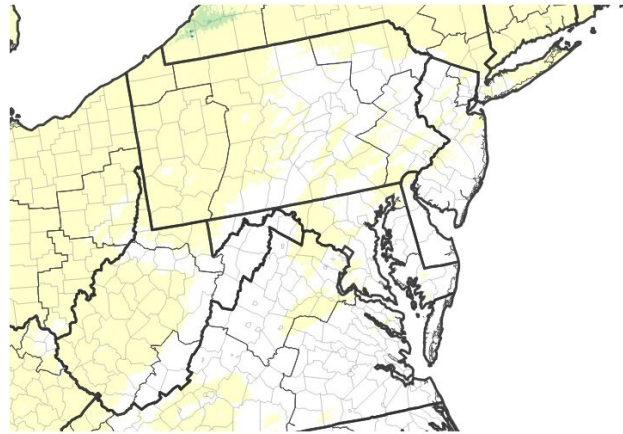
Observed Precipitation

Latest 7 Rainfall and 30-Day Percent of Normal Rainfall

Main Takeaways

- Dry over the past week
- 30 day rain deficits encompass the entire area
- Significant long term rainfall deficits continue across northern WV lowlands and southeast OH

7-Day Precipitation Accumulations (Inches)

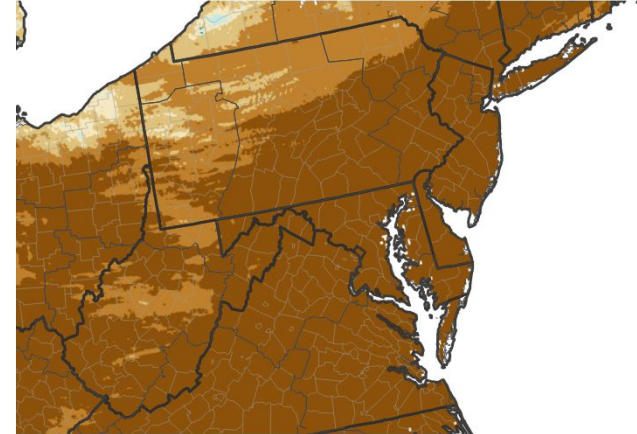


Inches of Precipitation

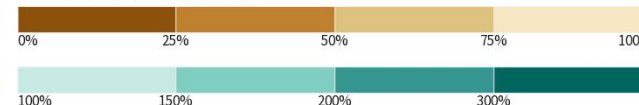


Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 11/07/24

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: 11/07/24

Image Caption:

Left - 7 Day Precipitation Amount for Mid Atlantic
Right - 30 Day Percent of Normal Precipitation for Mid Atlantic
Data Courtesy NWS National Water Prediction Service
ending November 7, 2024





Summary of Impacts

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

Hydrologic Impacts

- 7-day average streamflows well below normal in southeast OH and northern/western WV
- Water levels in residential and agricultural wells are low or dry

Agricultural Impacts

- Near surface soil moisture is below normal across most areas
 - Dry signal persists in deeper soil profiles
- Hay shortage remains with supplemental feeding needed for winter

Fire Hazard Impacts

- Fire danger may lower over the next 7 days

Mitigation Actions

- Putnam PSD is reporting abnormally low reservoir levels





Hydrologic Conditions and Impacts

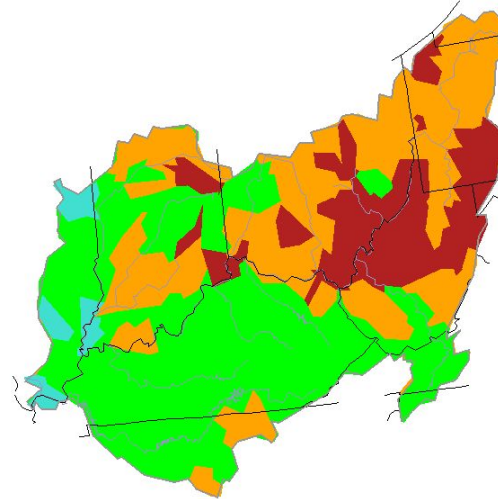
Main Takeaways

- Much below normal Muskingum, Hocking, Upper Ohio, Tygart, Little Kanawha, and lower Kanawha basins
 - Streamflow is typically lowest this time of year for perspective
- Groundwater wells remain low across most areas

Impacts

- Most reservoir lakes releases for winter drawdown delayed until mid December due to the extraordinary low summer pools
- Putnam PSD is reporting abnormally low reservoir levels
 - Not low enough for any kind of restrictions at this time

Hednesday, November 06, 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

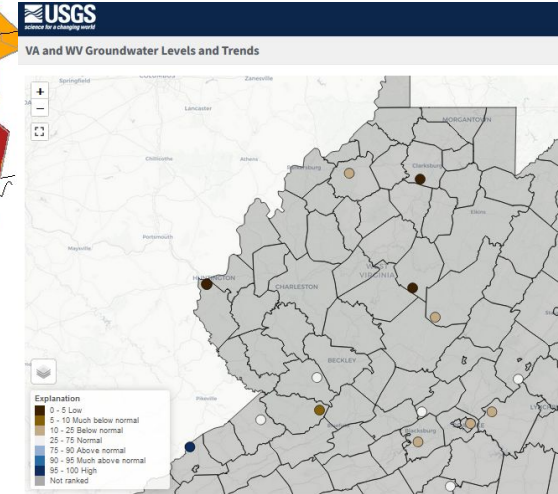


Image Caption:

Left - USGS 7 day average streamflow HUC maps valid November 6, 2024
Right - USGS groundwater wells valid November 7, 2024





Agricultural Impacts

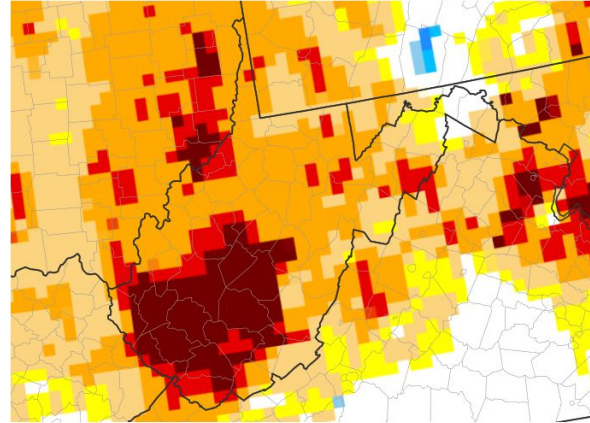
Main Takeaways

- Emerging drying topsoil across the Coal Fields
- Much of the area is dry in the subsoil
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Impacts

- Hay shortage remains with supplemental feeding needed for winter

GRACE Root Zone Soil Moisture Percentile

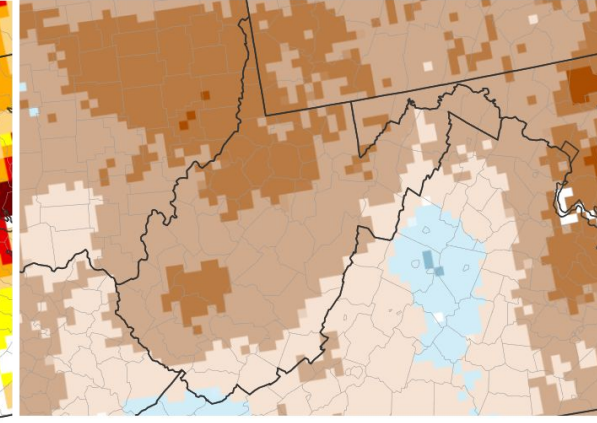


Root Zone Soil Moisture: Wetness Percentile

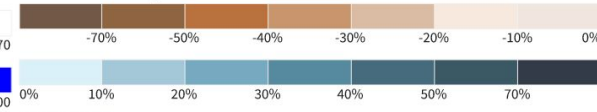


Source(s): NASA, National Drought Mitigation Center
Data Valid: 11/02/24

Crop-CASMA Subsoil (3 Feet) Soil Moisture Anomaly



Soil Moisture Anomaly



Source(s): NASA
Data Valid: 11/02/24

Drought.gov

Drought.gov

USDA Crop Progress and Condition Weekly Reports

[West Virginia](#)
[Virginia](#)

[Ohio](#)
[Kentucky](#)

Image Captions:

Left: GRACE root zone soil moisture percentile valid November 2, 2024

Right: CASMA subsoil moisture percentile valid November 2, 2024



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

National Weather Service
Charleston, WV



Fire Hazard Impacts

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

Main Takeaways

- Brush fires ongoing across the Coal Fields
- Significant wildfire outlook has been updated to above normal for November

Impacts

- Areas downwind of brush fires can expect air quality issues
- Expect fire danger to remain elevated at times over the next two weeks due to leaf drop
 - Amplified during warm days with wind and low relative humidity

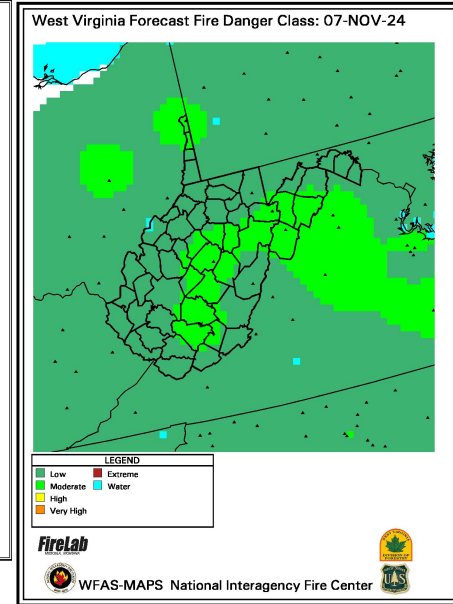
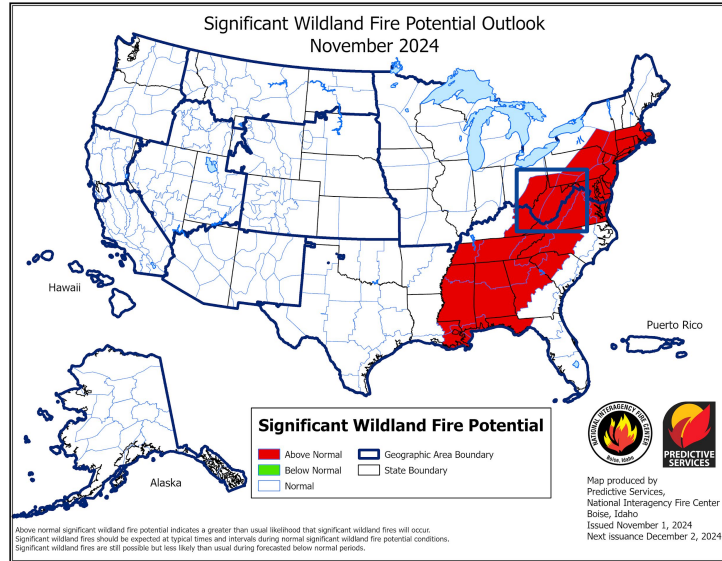


Image Captions:
 Left: Significant Wildland Fire Potential monthly outlook valid November, 2024
 Right: Area fire danger class, valid November 7, 2024



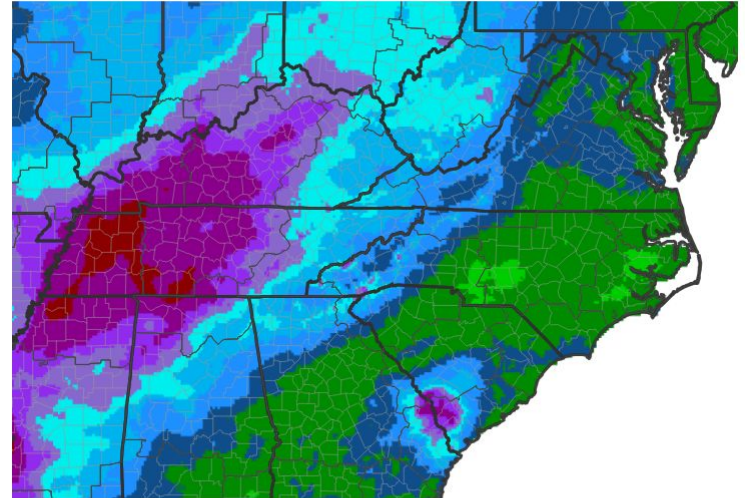


Seven Day Precipitation Forecast

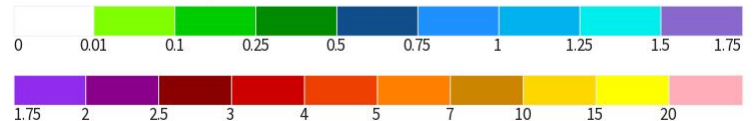
Next 7 days:

- Cold front crosses today with decreasing showers
- Next frontal passage slated for next Sunday with a good chance rain statewide
 - Highest rainfall amounts to 1" along the Ohio River and central areas
 - Much less far southeast and eastern panhandle
- Strong cold front late next week with another round of showers
 - Rainfall amounts around half an inch expected

7-Day Quantitative Precipitation Forecast for November 7, 2024–November 14, 2024



Predicted Inches of Precipitation



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

Last Updated: 11/07/24

Image Caption:

Weather Prediction Center 7-day precipitation forecast valid November 7, 2024





8-14 Day Outlook

Temperature and Precipitation Outlook

Main Takeaways

- Above normal temperatures favored with above normal precipitation slightly favored

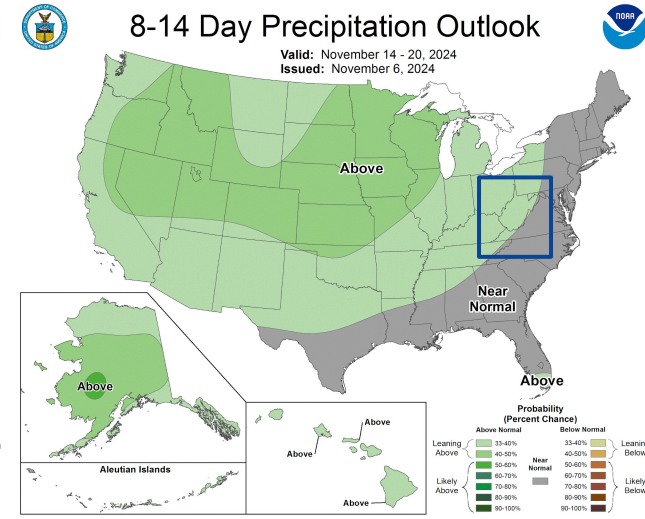
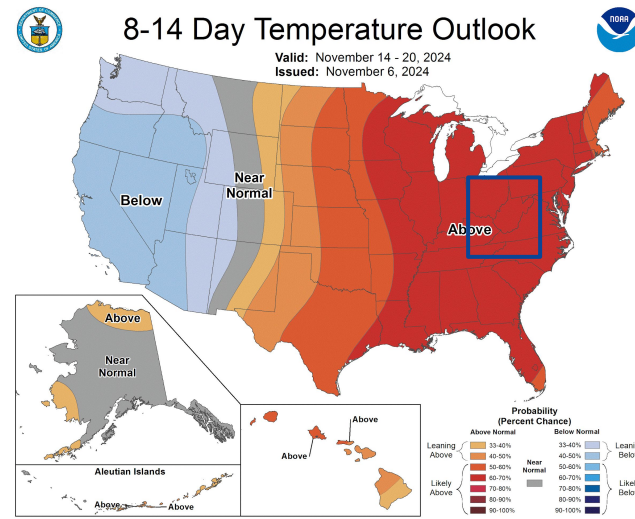


Image Captions:
Climate Prediction Center 8-14 day temperature and precipitation outlook valid November 6, 2024



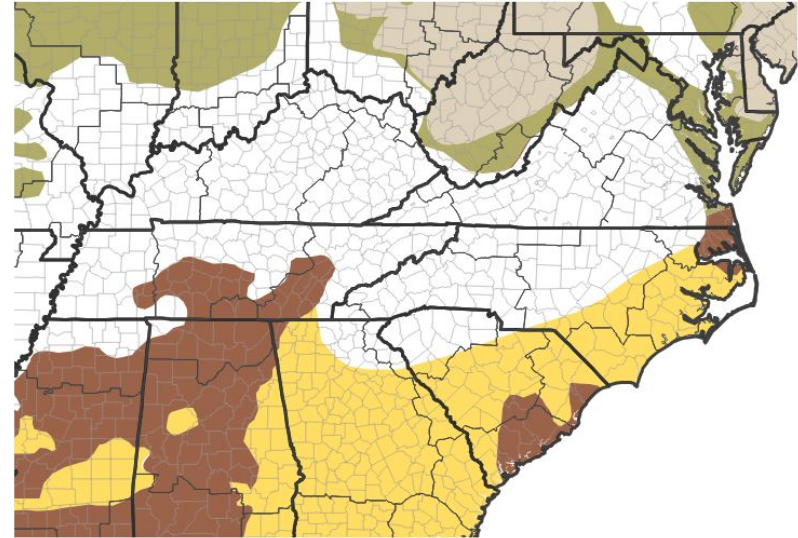
Seasonal (3-Month) Drought Outlook

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

Main Takeaways

- Favors drought remaining but improving through January across WV lowlands and southeast OH but ends elsewhere

Seasonal (3-Month) Drought Outlook for October 31, 2024–January 31, 2025



Drought Is Predicted To...



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

Last Updated: 10/31/24

Image Caption:
Climate Prediction Center Seasonal Drought Outlook Released October 31, 2024
Valid October 31, 2024 - January 31, 2024

