



Drought Information Statement

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

Valid November 14, 2024

Issued By: NWS Charleston, WV

Contact Information: rlx.webmaster@noaa.gov

- This product will be updated November 21, 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.
-
- Much needed rain brings drought improvement across southeast OH and central WV



Current Drought Conditions

Latest Drought Monitor

Main Takeaways

- **D4 (Exceptional Drought)**: Improvement across parts of central WV
- **D3 (Extreme Drought)**: Improvement across parts of southeast OH and western WV
- **D2 (Severe Drought)**: No change
- **D1 (Moderate Drought)**: Slight expansion into the far southern WV and southwest VA
- **D0: (Abnormally Dry)**: Slight improvement across parts of northeast KY

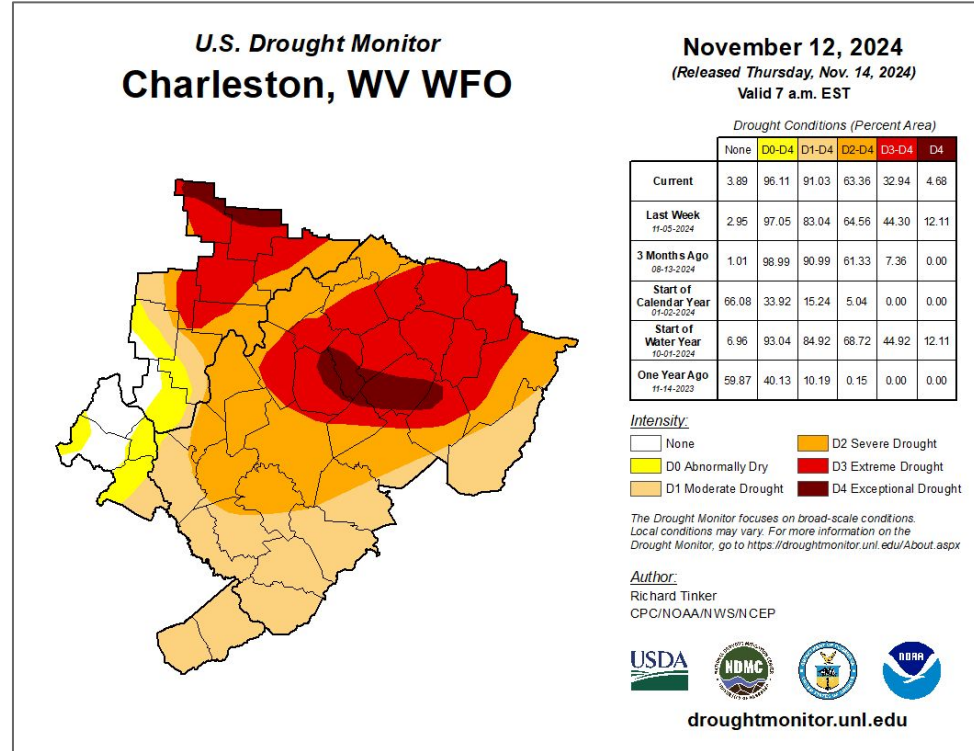


Image Caption: Right: [U.S. Drought Monitor valid 8am EDT November 14, 2024](https://droughtmonitor.unl.edu/About.aspx)





Current Drought Conditions

Latest Drought Monitor Four-Week Change

- **Four Week Drought Monitor Class Change**
 - **Drought Worsened:** Southwest VA and McDowell County WV
 - **No Change:** Areas of southeast northeast KY, OH and WV
 - **Drought Improved:** Areas of southeast OH and western WV

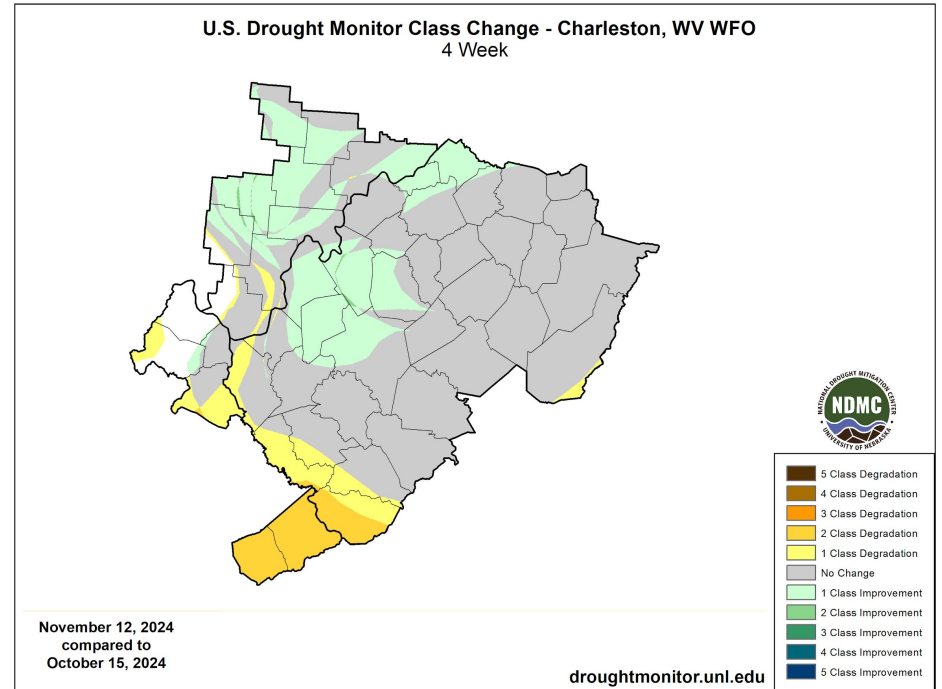


Image Caption:

Right: [U.S. Drought Monitor 4 week change valid 8am EDT November 14, 2024](https://droughtmonitor.unl.edu)





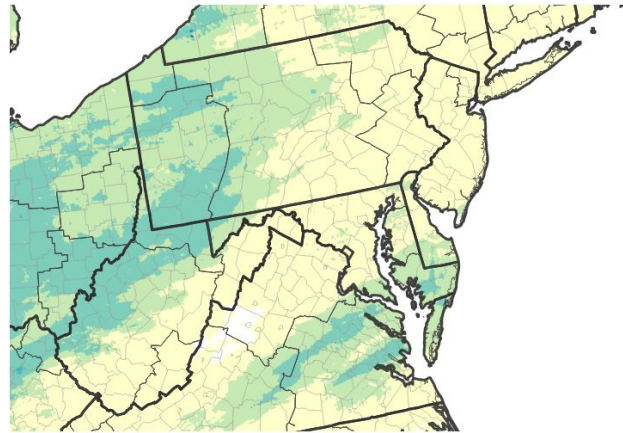
Observed Precipitation

Latest 7 Rainfall and 30-Day Percent of Normal Rainfall

Main Takeaways

- Meaningful rainfall across much of the area
- Significant long term rainfall deficits continue across the mountains

7-Day Precipitation Accumulations (Inches)

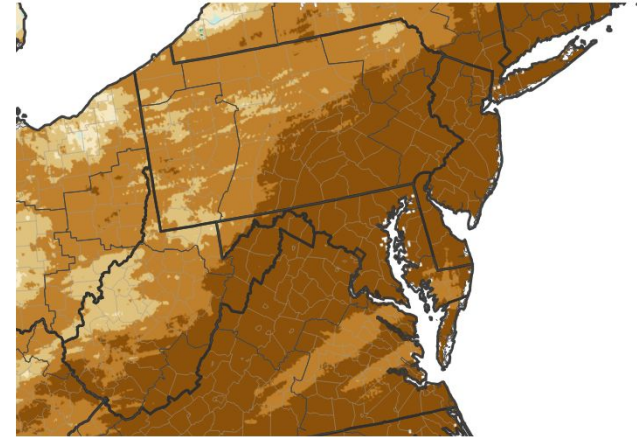


Inches of Precipitation



Source(s): National Weather Service Multi-Radar Multi-Sensor System; image courtesy of Drought.gov Last Updated: 11/14/24

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: 11/14/24

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 14, 2024





Summary of Impacts

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

Hydrologic Impacts

- 7-day average streamflows showing improvement across the area
- Water levels in residential and agricultural recharging across northeast KY and southern WV

Agricultural Impacts

- Near surface soil moisture has recovered across much of the area
 - Dry signal persists in deeper soil profiles
- Hay shortage remains with supplemental feeding needed for winter

Fire Hazard Impacts

- Fire danger low over the next 7 days

Mitigation Actions

- None reported





Hydrologic Conditions and Impacts

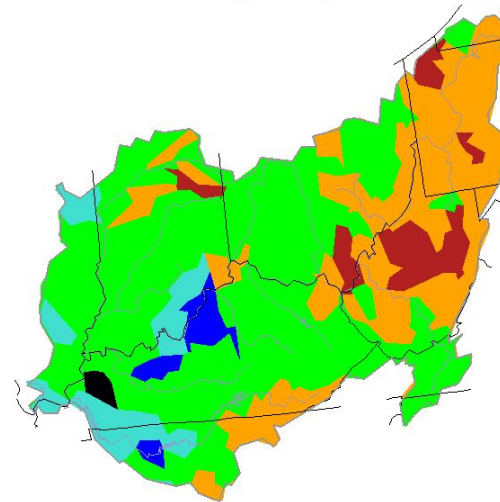
Main Takeaways

- Improving conditions across many basins over the past few days
 - 7 day average for improvement lagging from recent rains
- 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

Thursday, November 14, 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

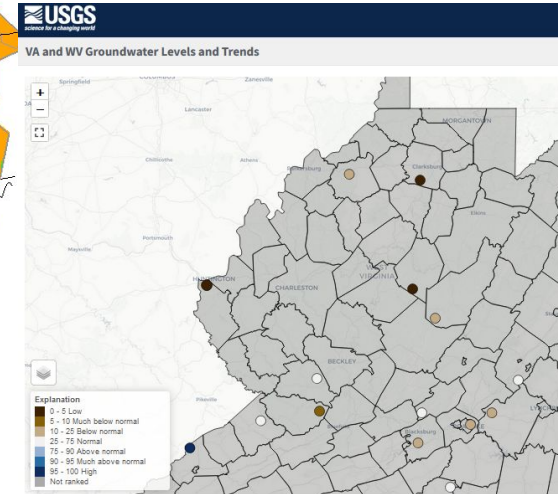


Image Caption:

Left - USGS 7 day average streamflow HUC maps valid November 14, 2024
 Right - USGS groundwater wells valid November 14, 2024





Agricultural Impacts

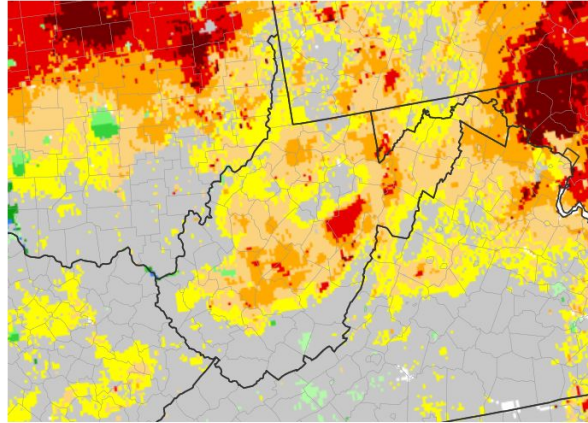
Main Takeaways

- Topsoil recovery noted from recent rains
- Much of the area remains dry in deeper soil profiles

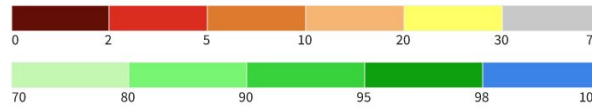
Impacts

- Hay shortage remains with supplemental feeding needed for winter

0-100 cm Soil Moisture Percentile



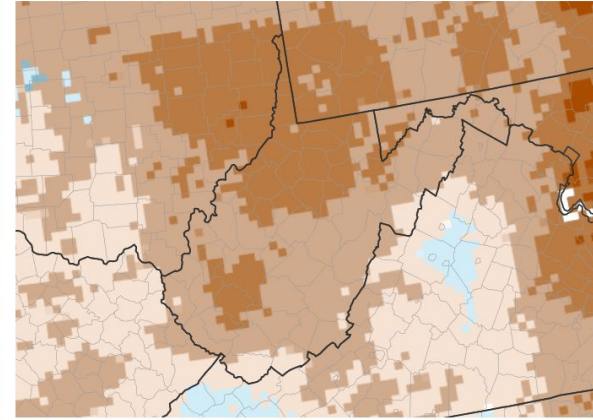
0-100 cm Soil Moisture Percentile



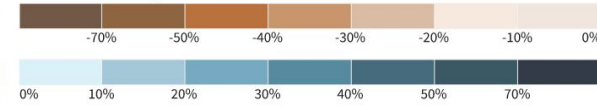
Source(s): NASA
Data Valid: 11/15/24

Drought.gov

Crop-CASMA Subsoil (3 Feet) Soil Moisture Anomaly



Soil Moisture Anomaly



Source(s): NASA
Data Valid: 11/10/24

Drought.gov

USDA Crop Progress and Condition Weekly Reports

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

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

Image Captions:

Left: 0-100 cm soil moisture percentile valid November 15, 2024
Right: CASMA subsoil moisture percentile valid November 10, 2024





Fire Hazard Impacts

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

Main Takeaways

- Low fire danger threat over the next several days
- Significant wildfire outlook has been remains above normal for November

Impacts

- Brush fires over the area have large been doused due to recent rains

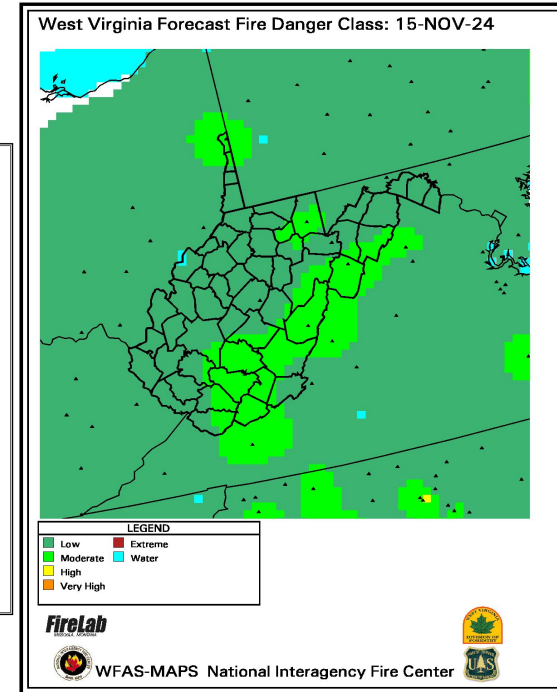
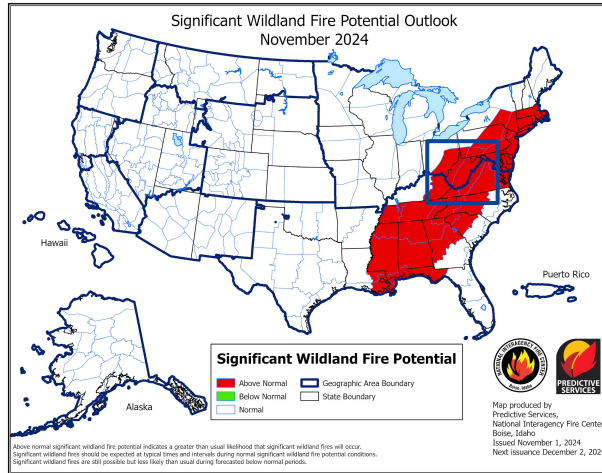


Image Captions:
Left: Significant Wildland Fire Potential monthly outlook valid November, 2024
Right: Area fire danger class, valid November 15, 2024



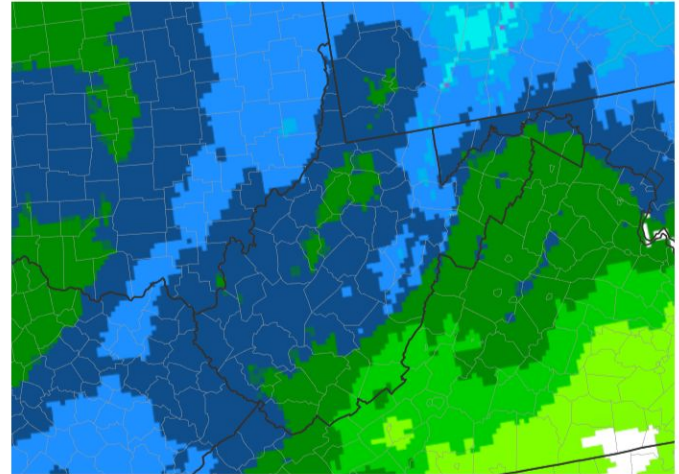


Seven Day Precipitation Forecast

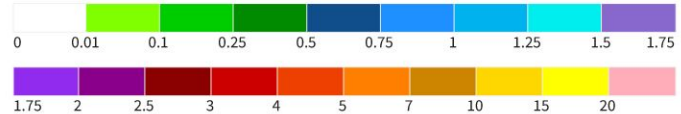
Next 7 days:

- High pressure builds in Friday through Monday night
- Warm front crosses Tuesday with a chance for light showers
- Next cold frontal passage slated for mid week next week with rain showers, changing to snow across the mountains late next week

7-Day Quantitative Precipitation Forecast for November 14–21, 2024



Predicted Inches of Precipitation



Source(s): National Weather Service Weather Prediction Center
Last Updated: 11/14/24

Drought.gov

Image Caption:

Weather Prediction Center 7-day precipitation forecast valid November 14, 2024





8-14 Day Outlook

Temperature and Precipitation Outlook

Main Takeaways

- Below normal temperatures favored with below normal precipitation slightly favored

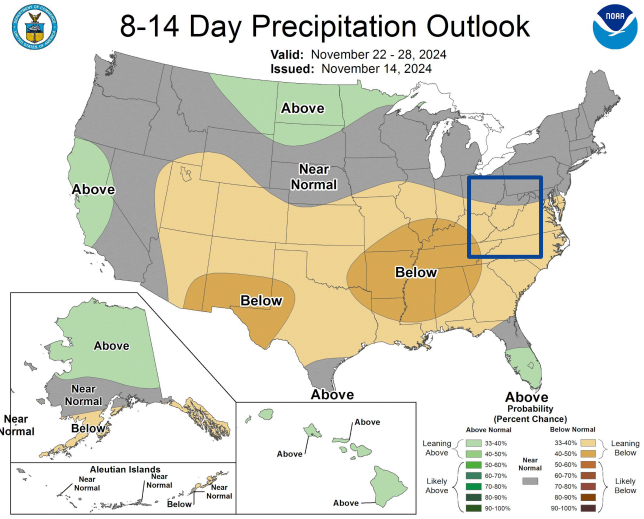
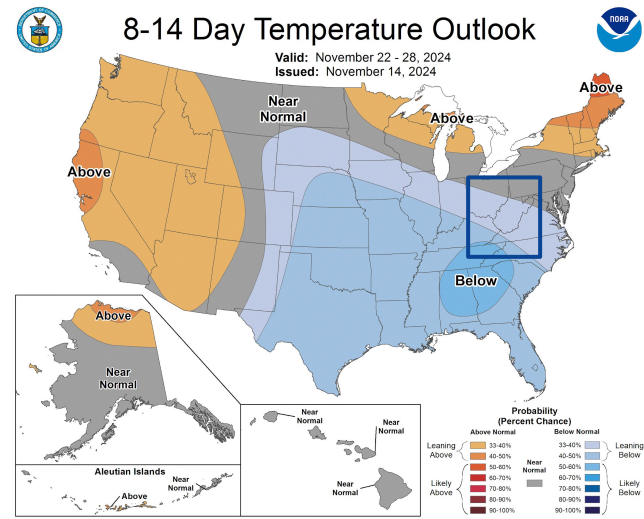


Image Captions: Climate Prediction Center 8-14 day temperature and precipitation outlook valid November 14, 2024



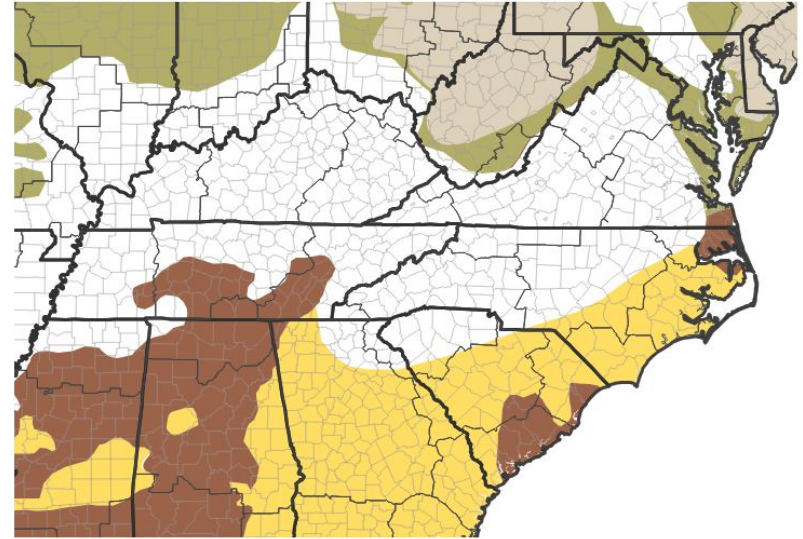
Seasonal (3-Month) Drought Outlook

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

