



Monitoring Drought in Kentucky

Shane Holinde

Outreach Manager, Kentucky Mesonet/Kentucky Climate Center

Midwest DEWS Partners Meeting/NWS Climate Workshop

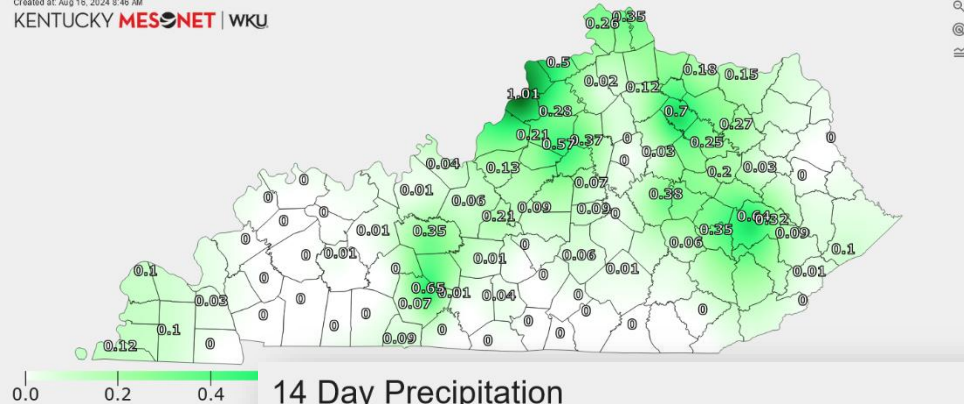
August 21, 2024

2024/05/27 13:57:07 UTC - Kentucky Mesonet - Oldham County - (LGRN) - (SW 225 Degs)

Data Monitoring

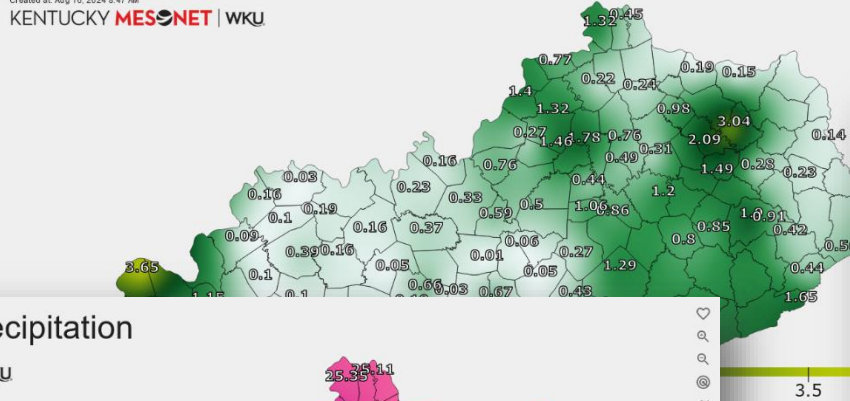
3 Hour Precipitation

Created at: Aug 16, 2024 8:46 AM
KENTUCKY MESONET | WKU



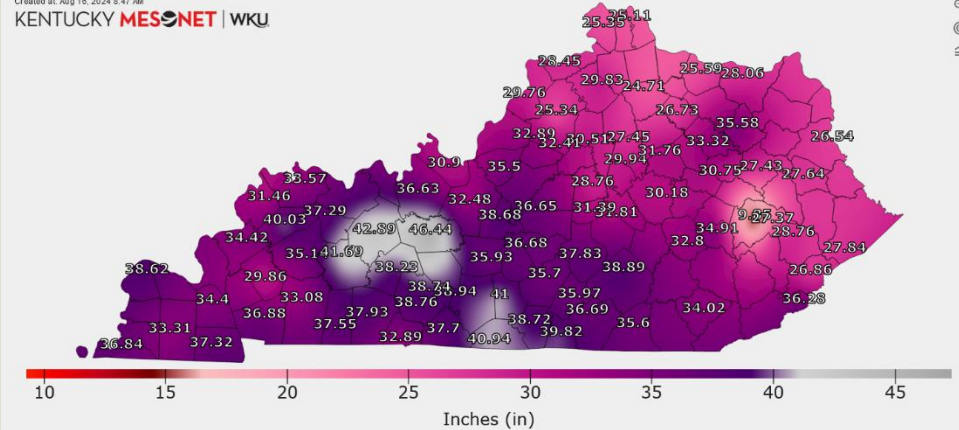
14 Day Precipitation

Created at: Aug 16, 2024 8:47 AM
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Year To Date Precipitation

Created at: Aug 16, 2024 8:47 AM
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SITE

Fayette County (SPIN)

GRAPH TYPE

- SOIL MOISTURE
- SOIL TEMPERATURE
- SOIL MOISTURE PRECIPITATION
- SOIL TEMPERATURE PRECIPITATION

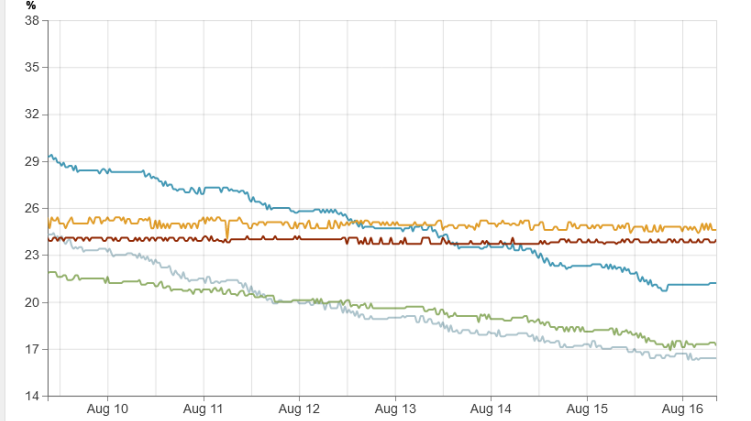
TIME INTERVAL

- 1 WEEK
- 2 WEEKS
- 1 MONTH
- 3 MONTHS
- 6 MONTHS

SYSTEM OF MEASUREMENT

ENGLISH

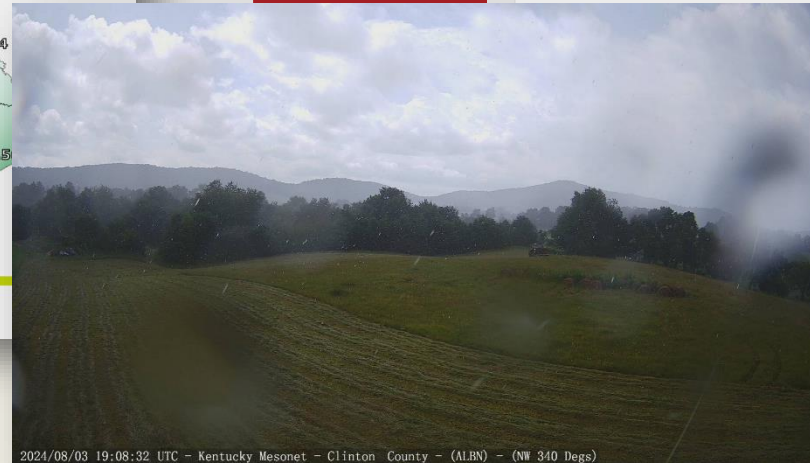
Fayette County Soil Moisture (Water Fraction by Volume, %)



Fayette County

Soil Moisture at 2 in. Soil Moisture at 4 in. Soil Moisture at 8 in. Soil Moisture at 20 in. Soil Moisture at 40 in.

Print



2024/08/03 19:08:32 UTC - Kentucky Mesonet - Clinton County - (ALBN) - (NW 340 Degs)



2024/08/16 13:59:27 UTC - Kentucky Mesonet - Henderson County - (GRHM) - (NN 00 Degs)

Outreach Efforts

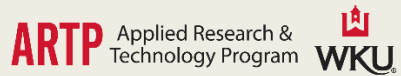


Kentucky Mesonet @kymesonet · 17h
 Here we grow again! A new site is in the works in eastern Kentucky. Our lead field technician, Gavin Connors, is currently fitting this tower with sensors and instrumentation. He also has the precip gauge in place. Expect this new site to appear online soon. Stay tuned! #kywx

Kentucky Mesonet
 Posted by Shane Holinde
 Jul 25

Drought Monitor per National Integrated Drought Information System (NIDIS): Some minor changes from last week, most notably in the percentage of the state under D0 (abnormally dry) conditions. A degradation to D1 (Moderate Drought) shows up in far N KY. D1 encompasses 11.6% of the Commonwealth at this time. #drought #kywx

Drought & Dryness Categories	% of KY
D0 - Abnormally Dry	33.2%
D1 - Moderate Drought	11.6%
D2 - Severe Drought	0.0%
D3 - Extreme Drought	0.0%
D4 - Exceptional Drought	0.0%
Total Area in Drought (D1-D4)	11.6%



Kentucky Monthly Climate Perspective on Drought and Hydrologic Conditions

- *Hosted by the State Climate Office for Kentucky, a division of the Kentucky Climate Center at Western Kentucky University*



College of Agriculture,
Food and Environment
Ag Weather Center



Grants & Funding

- New CLIMBS grant with UK. This \$20 million, 5-year grant will focus on hazard mitigation, including drought
- New KCC grant of \$360,000 from DWI/NCEI/NOAA
 - Grant to focus on organizing existing products and creating new products for users statewide
 - Includes all climate products, but especially drought and flooding, KY's two most frequent hazards

