Hydrologic and Climate Assessment
May 3, 2019

Photo Credit: Jeff Stachler – OSU
Extension Educator Ag and Natural Resources - Auglaize County

Photo Credit: The Evening Leader:
https://www.theeveningleader.com/content/flood-waters-invade-st-marys

Aaron B. Wilson
STATE CLIMATE OFFICE OF OHIO (SCO0)
DEPARTMENT OF EXTENSION - CFAES
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY
U.S. Drought Monitor

April 30, 2019
(Released Thursday, May 2, 2019)
Valid 8 a.m. EDT

Drought Impact Types:
- Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 8 months (e.g. hydrology, ecology)

Intensity:
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/
Temperature Differences Compared to Average (1981-2010)

7-Day
Departure from Normal Temperature (F)
4/26/2019 - 5/2/2019

30-Day
Departure from Normal Temperature (F)
4/3/2019 - 5/2/2019

60-Day
Departure from Normal Temperature (F)
3/4/2019 - 5/2/2019

Generated 5/3/2019 at HPRCC using provisional data. NOAA Regional Climate Centers

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This Week’s Precipitation

Multi-sensor Precipitation: Observed (inches)
7-Day Period Ending the Morning of 5/2/2019

7-Day Percent of Normal Precipitation (%)
4/26/2019 - 5/2/2019

Precipitation data from NWS AHPS: http://water.weather.gov/precip

Generated 5/3/2019 at HPRCC using provisional data.
NOAA Regional Climate Centers

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THE OHIO STATE UNIVERSITY
### CoCoRaHS Daily Precipitation Data

**Ohio 4/27/2019**

<table>
<thead>
<tr>
<th>Name</th>
<th>Total Precip (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheviot 3.4 W</td>
<td>27.99</td>
</tr>
<tr>
<td>Fayetteville 0.5 W</td>
<td>26.47</td>
</tr>
<tr>
<td>Cincinnati 8.4 NW</td>
<td>26.33</td>
</tr>
<tr>
<td>Wilmington 2.2 N</td>
<td>25.58</td>
</tr>
<tr>
<td>Wyoming 1.2 NW</td>
<td>25.46</td>
</tr>
<tr>
<td>Wilmington 3.6 W</td>
<td>25.32</td>
</tr>
<tr>
<td>Cincinnati 8.9 NW</td>
<td>25.12</td>
</tr>
<tr>
<td>Clarksville 3.9 ENE</td>
<td>24.84</td>
</tr>
<tr>
<td>Lebanon 3.4 E</td>
<td>24.18</td>
</tr>
<tr>
<td>Amelia 0.3 SSW</td>
<td>23.98</td>
</tr>
</tbody>
</table>

**CoCoRaHS**

**https://cocorahs.org/**
Precipitation Differences Compared to Average (1981-2010)

30-Day

Percent of Normal Precipitation (%)
4/3/2019 – 5/2/2019

60-Day

Percent of Normal Precipitation (%)
3/4/2019 – 5/2/2019

Generated 5/3/2019 at HPRCC using provisional data. NOAA Regional Climate Centers

NOAA Regional Climate Centers

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Soil Moisture

Calculated Soil Moisture Anomaly (mm)
MAY 02, 2019

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Average streamflow compared to historical streamflow for the day of the year.
Evaporative Demand Drought Index (EDDI) can offer early warning of agricultural drought, hydrologic drought, and fire-weather risk by providing near-real-time information on the emergence or persistence of anomalous evaporative demand in a region. A particular strength of EDDI is in capturing the precursor signals of water stress at weekly to monthly timescales, which makes EDDI a strong tool for preparedness for both flash droughts and ongoing droughts.

Image provided by the NOAA/ESRL Physical Sciences Division, Boulder, Colorado, from their web site at: https://www.esrl.noaa.gov/psd/.
6-10 Day Outlook

Highs: 65-70°F; Lows: 44-49°F; Precip: 0.9-1.0” (per week)
• 1.1 days suitable for fieldwork through April 28

• Work on hold with isolated flooding (West Central Ohio)

• Some ponding led to some wheat being drowned out.

• Soybean and corn planting remains slow

Drought Monitor: None

Climate Recap: WET! Cool in the NW; A little above average in the SE

The week ahead: Seasonally mild but multiple opportunities for heavy rainfall
Partners and Additional Information

- SCOO’s Website: [https://climate.osu.edu](https://climate.osu.edu)
- NOAA’s National Climatic Data Center: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)
- NOAA’s Climate Prediction Center: [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)
- Climate Portal: [www.climate.gov](http://www.climate.gov)
- National Drought Mitigation Center: [https://drought.unl.edu/](https://drought.unl.edu/)
- Midwest Regional Climate Center: [https://mrcc.isws.illinois.edu](https://mrcc.isws.illinois.edu)
- Community Collaborative Rain Snow Hail Network (CoCoRaHS): [https://cocosrahs.org](https://cocosrahs.org)