Hydrologic and Climate Assessment
October 29, 2019

Photo Courtesy of Mary Griffith
Temperature Differences Compared to Average (1981-2010)

7-Day Departure from Normal Temperature (F)
10/22/2019 - 10/28/2019

30-Day Departure from Normal Temperature (F)
9/29/2019 - 10/28/2019

60-Day Departure from Normal Temperature (F)
8/30/2019 - 10/28/2019

Generated 10/29/2019 at IPRCC using provisional data.
NOAA Regional Climate Centers
This Week’s Precipitation

Accumulated Precipitation (in)
October 22, 2019 to October 28, 2019

7-Day
Percent of Normal Precipitation (%)
10/22/2019 – 10/28/2019

Generated 10/29/2019 at HPROC using provisional data.
NOAA Regional Climate Centers
CoCoRaHS

Cheviot: 55.09” since Jan 1

Driest since Aug 1

<table>
<thead>
<tr>
<th>CoCoRaHS Name</th>
<th>Total Precip (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huber Heights 1.8 NNW</td>
<td>4.06</td>
</tr>
<tr>
<td>Greenville 1.6 NNW</td>
<td>4.48</td>
</tr>
<tr>
<td>Raymond 3.5 NW</td>
<td>4.69</td>
</tr>
<tr>
<td>Greenville 4.5 N</td>
<td>4.89</td>
</tr>
<tr>
<td>Xenia 2.1 NNE</td>
<td>5.1</td>
</tr>
<tr>
<td>Arcanum 4.1 ENE</td>
<td>5.21</td>
</tr>
<tr>
<td>Xenia 2.8 SW</td>
<td>5.3</td>
</tr>
<tr>
<td>Kettering 0.2 ESE</td>
<td>5.33</td>
</tr>
<tr>
<td>Union 1.0 WSW</td>
<td>5.43</td>
</tr>
<tr>
<td>Centerville 3.9 S</td>
<td>5.48</td>
</tr>
</tbody>
</table>

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

30-Day
Percent of Normal Precipitation (%)
9/29/2019 – 10/28/2019

60-Day
Percent of Normal Precipitation (%)
8/30/2019 – 10/28/2019
Soil Moisture

Calculated Soil Moisture Ranking Percentile
OCT 28, 2019

Ensemble–Mean – Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: OCT 25, 2019

STATE CLIMATE OFFICE OF OHIO (SCOO)
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES
DEPARTMENT OF EXTENSION
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY
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/.
Weather for the Week Ahead

Thursday

Sunday
Weather for the Week Ahead
6-10 Day Outlook

Highs: 56-61°F; Lows: 39-41°F; Precip: 0.60-0.80” (per week)
3-4 Week Outlook

WEEK 3-4 OUTLOOK
TEMPERATURE PROBABILITY
MADE 25 OCT 2019
VALID NOV 08 - 22, 2019

EC MEANS 51/49 CHANCES
FOR ABOVE OR BELOW
A MEANS ABOVE NORMAL
B MEANS BELOW NORMAL

WEEK 3-4 EXPERIMENTAL OUTLOOK
PRECIPITATION PROBABILITY
MADE 25 OCT 2019
VALID NOV 08 - 22, 2019

EC MEANS 51/49 CHANCES
FOR ABOVE OR BELOW
A MEANS ABOVE NORMAL
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Ag Highlights

• 5.3 days suitable for fieldwork during the week ending October 27.

• Corn harvested completion increased 11 percentage points over last week, but lagged behind the 5-year average by 19 points.

• Average corn moisture content was 21 percent and remained higher than the 5-year average.

• Pastures rated in good to excellent condition decreased slightly and some producers were switching to hay for forage.

NASS: Cheryl Turner –
Drought Monitor:  Moderate Drought conditions remained as some areas improved.

Climate Recap:  Warmer than average with first significant rain for some since the end of June!

The week ahead:  Another potent cold front and much colder conditions arrive this week.
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)
- USDA Midwest Climate Hub: [https://www.climatehubs.oce.usda.gov/hubs/midwest](https://www.climatehubs.oce.usda.gov/hubs/midwest)
- 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://coco rahs.org](https://coco rahs.org)
- Song: “Lazy River Rag” by Dan Lebowitz