Hydrologic and Climate Assessment

June 19, 2019

Christine Gelley: Noble County ANR Extension Educator

Bill Knapke
U.S. Drought Monitor

June 11, 2019
(Released Thursday, Jun. 13, 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 6 months (e.g. hydrology, ecology)

Intensity:

- None
- 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.

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

7-Day
Departure from Normal Temperature (°F)
6/12/2019 – 6/18/2019

30-Day

60-Day

Departure from Normal Temperature (°F)
5/20/2019 – 6/18/2019

Departure from Normal Temperature (°F)
4/20/2019 – 6/18/2019

NOAA Regional Climate Centers

Generated 6/19/2019 at HPRCC using provisional data.
This Week’s Precipitation

Multi-sensor Precipitation: Observed (inches)
7-Day Period Ending the Morning of 6/18/2019

7-Day Percent of Normal Precipitation (%)
6/12/2019 – 6/18/2019

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

Generated 6/19/2019 at HPRCC using provisional data. NOAA Regional Climate Centers

STATE CLIMATE OFFICE OF OHIO (SCOO)
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES
DEPARTMENT OF EXTENSION
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY
Cheviot: 37.45” since Jan 1

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

30-Day
Percent of Normal Precipitation (%) 5/20/2019 – 6/18/2019

60-Day
Percent of Normal Precipitation (%) 4/20/2019 – 6/18/2019
Soil Moisture

Calculated Soil Moisture Ranking Percentile
JUN 18, 2019

Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: JUN 14, 2019
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
6-10 Day Outlook

Highs: 80-84°F; Lows: 59-64°F; Precip: 1.05-1.15” (per week)
June 2019 Outlook
June – August Outlook
Ag Highlights

- 2.5 days suitable for fieldwork through June 16
- Corn and soybean planting increased again, but well behind 5-year averages
- Poor conditions to cut hay

Summary of Conditions

Elizabeth Hawkins: OSU ANR Extension
Field Specialist, Agronomic Systems

Drought Monitor: None

Climate Recap: Widespread rainfall across the state this past week; a little drier NW

The week ahead: Wet, few breaks, warm and humid
OSU Extension and the State Climate Office of Ohio present:

CLIMATE SMART: Farming with Weather Extremes

Thursday July 18, 2019 • 8:30 a.m. – 3:00 p.m. • Plain City, Ohio

Join us as we discuss climate impacts on farming in Ohio. Key topics include water management, crop insurance, risk management, conservation, and technology. We are pleased to announce that our keynote speaker will be Tyler Williams, Cropping Systems Extension Educator with the University of Nebraska–Lincoln. He will join us to discuss early lessons from the Spring 2019 Nebraska Flood event.

Agenda as follows:
8:30 Registration & Continental Breakfast
9:15 Welcome
9:20 Ohio's Changing Climate (Aaron Wilson)
10:10 Water Management (Jeff Hatry)
11:00 Break
11:10 Price and Production Risk (Ben Brown)
12:00 Lunch, Networking, & Vendors
1:00 Keynote: Nebraska Flooding Spring 2019 (Tyler Williams)
2:00 Panel Discussion (Risk, Conservation, Technology; and more)
2:55 Program Close and Evaluation

Free to Attend! RSVP required by July 11, 2019 to receive lunch.
Follow this link to RSVP: Go.osu.edu/ClimateSmart

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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](https://www.ncdc.noaa.gov)
  • Monthly climate reports (U.S. & Global): [www.ncdc.noaa.gov/sotc/](https://www.ncdc.noaa.gov/sotc/)

• NOAA’s Climate Prediction Center: [www.cpc.ncep.noaa.gov](https://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](https://www.climate.gov)

• U.S. Drought Portal: [www.drought.gov](https://www.drought.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://cocorahs.org](https://cocorahs.org)

• Intro Song: “To Weather A Storm” by Dan Lebowitz