

Hydrologic and Climate Assessment

November 9, 2017



Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER

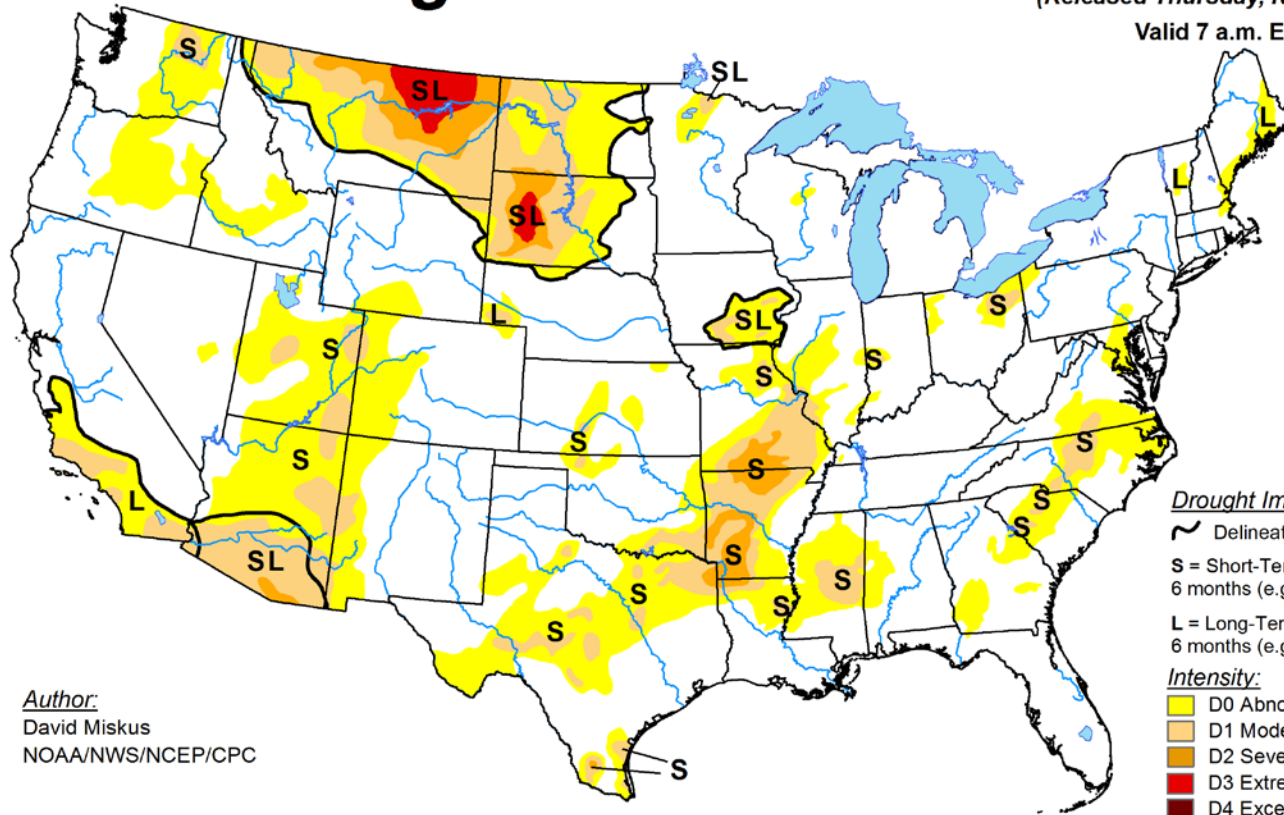
DEPARTMENT OF GEOGRAPHY



THE OHIO STATE UNIVERSITY

U.S. Drought Monitor

November 7, 2017
 (Released Thursday, Nov. 9, 2017)
 Valid 7 a.m. EST



Author:
 David Miskus
 NOAA/NWS/NCEP/CPC

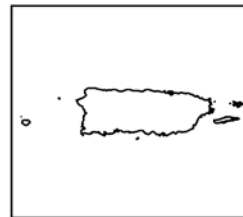
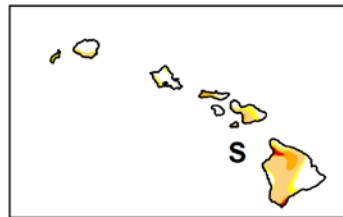
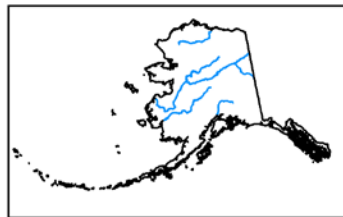
Drought Impact Types:

- ~ 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:

- 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/>

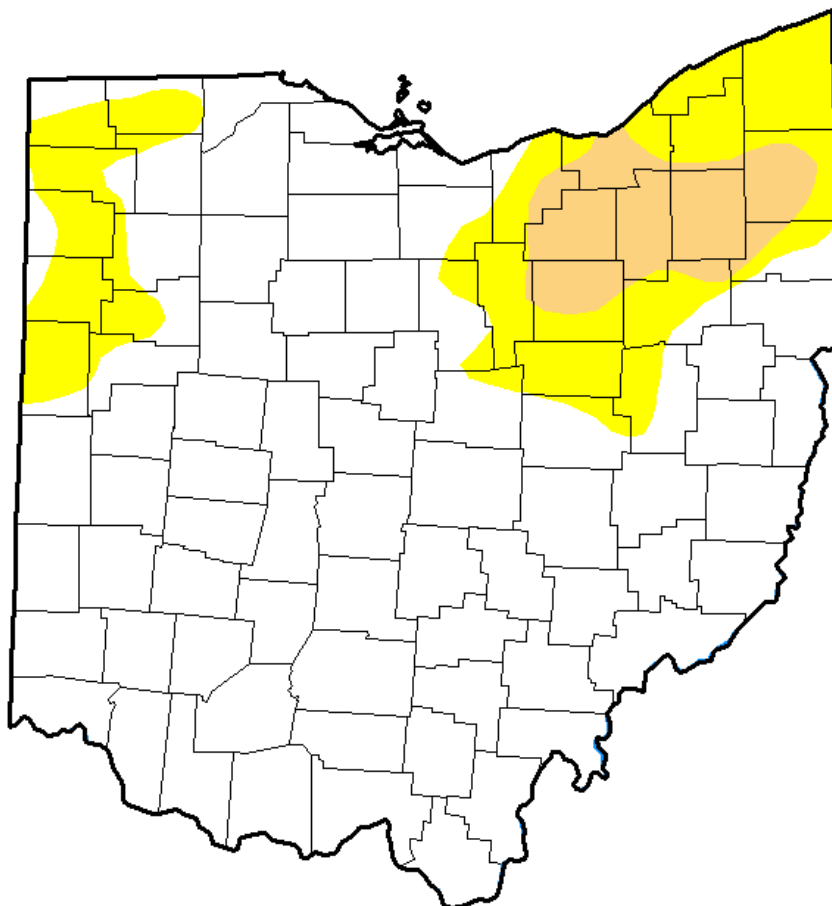


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U.S. Drought Monitor Ohio

November 7, 2017
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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	77.56	22.44	6.42	0.00	0.00	0.00
Last Week <i>10-31-2017</i>	60.25	39.75	10.97	0.00	0.00	0.00
3 Months Ago <i>08-08-2017</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-03-2017</i>	88.16	11.84	0.00	0.00	0.00	0.00
Start of Water Year <i>09-26-2017</i>	71.57	28.43	3.85	0.00	0.00	0.00
One Year Ago <i>11-08-2016</i>	94.02	5.98	0.05	0.00	0.00	0.00

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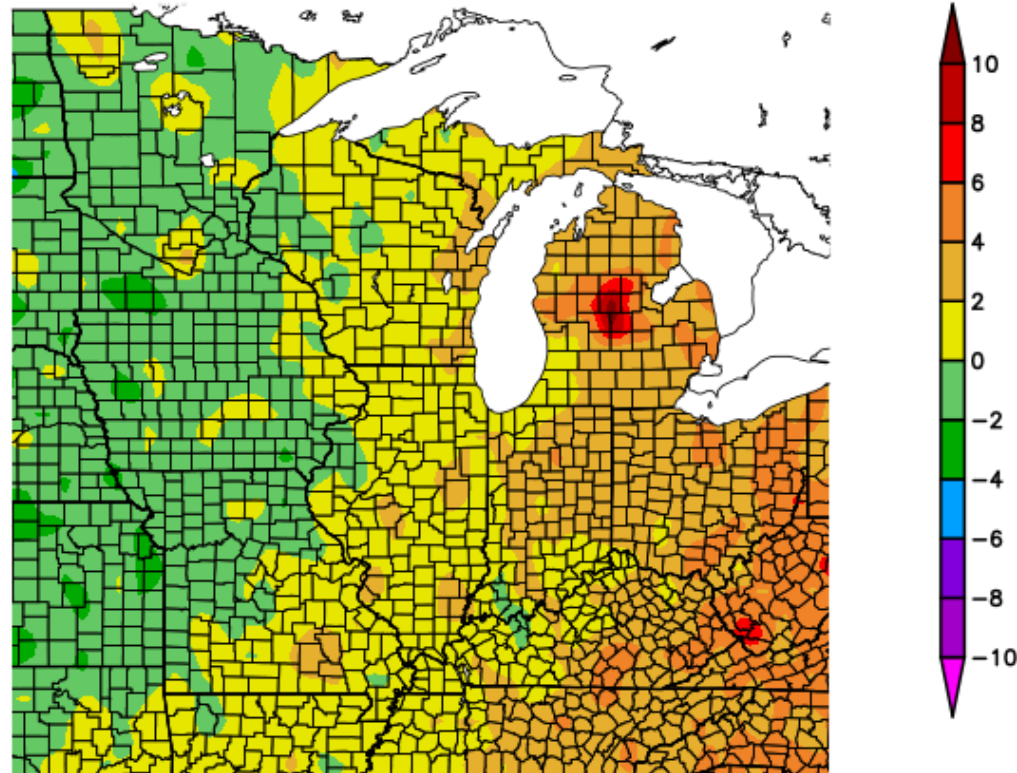
David Miskus
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

Previous 30-Day Temperature Difference Compared to Average (1981-2010)

Departure from Normal Temperature (F)
10/9/2017 - 11/7/2017



NATIONAL INTEGRATED DROUGHT INFORMATION SYSTEM
NIDIS Drought.gov
U.S. Drought Portal

Generated 11/8/2017 at HPRCC using provisional data.

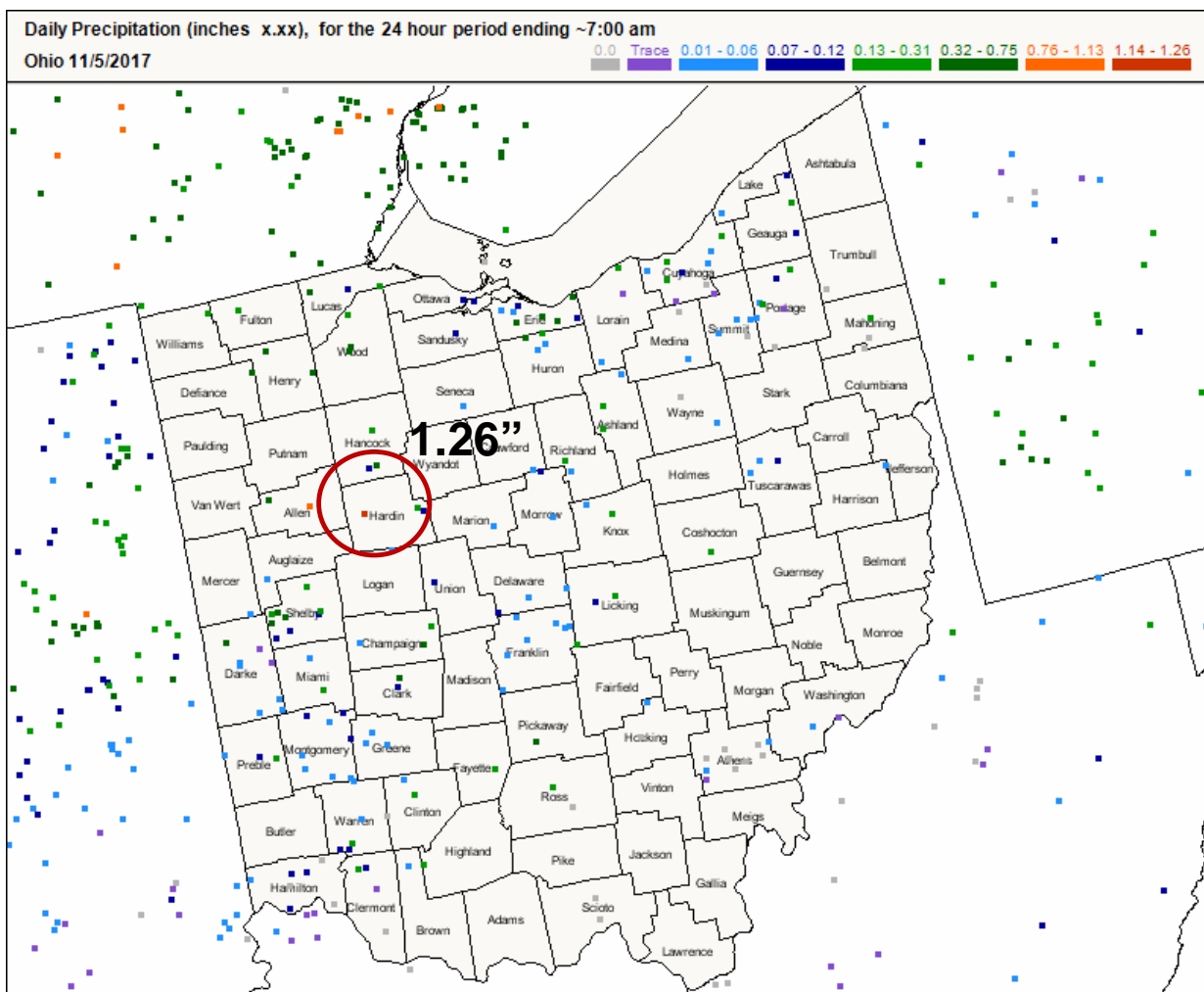
NOAA Regional Climate Centers



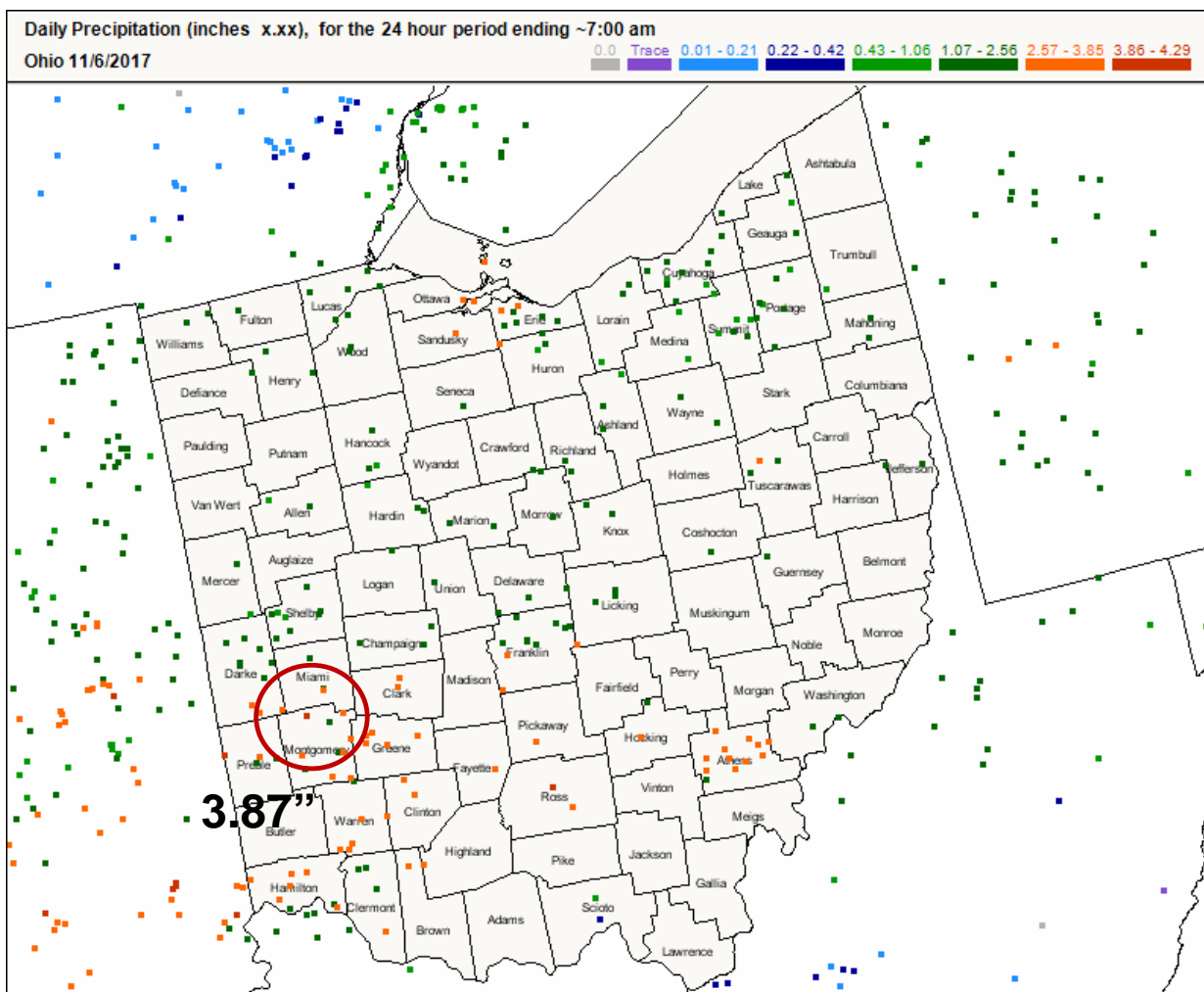
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CoCoRaHS Observed Precipitation: November 5



CoCoRaHS Observed Precipitation: November 6

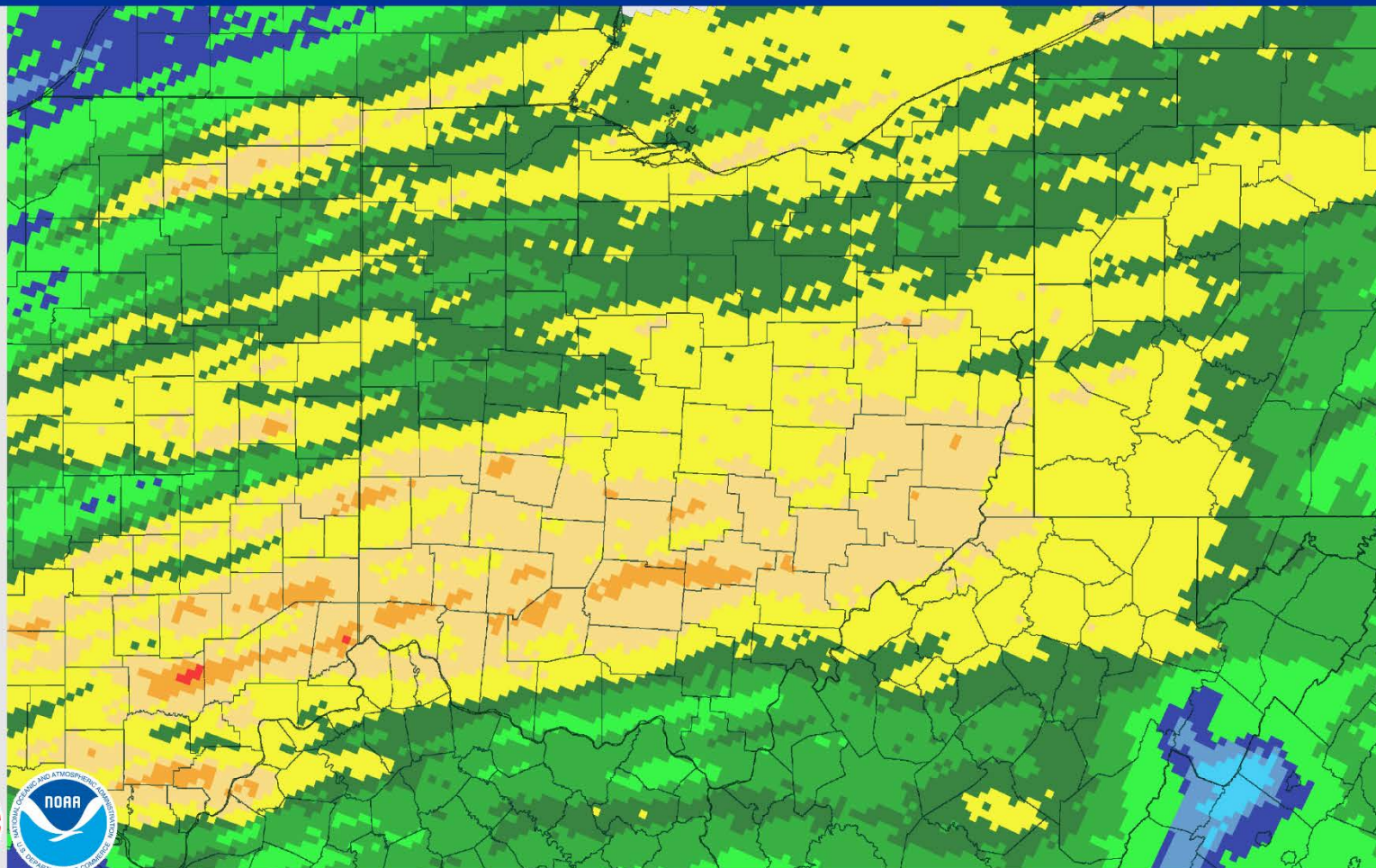


Previous 7-Day Precipitation: Total

November 09, 2017 7-Day Observed Precipitation

Created on: November 09, 2017 - 19:29 UTC

Valid on: November 09, 2017 12:00 UTC



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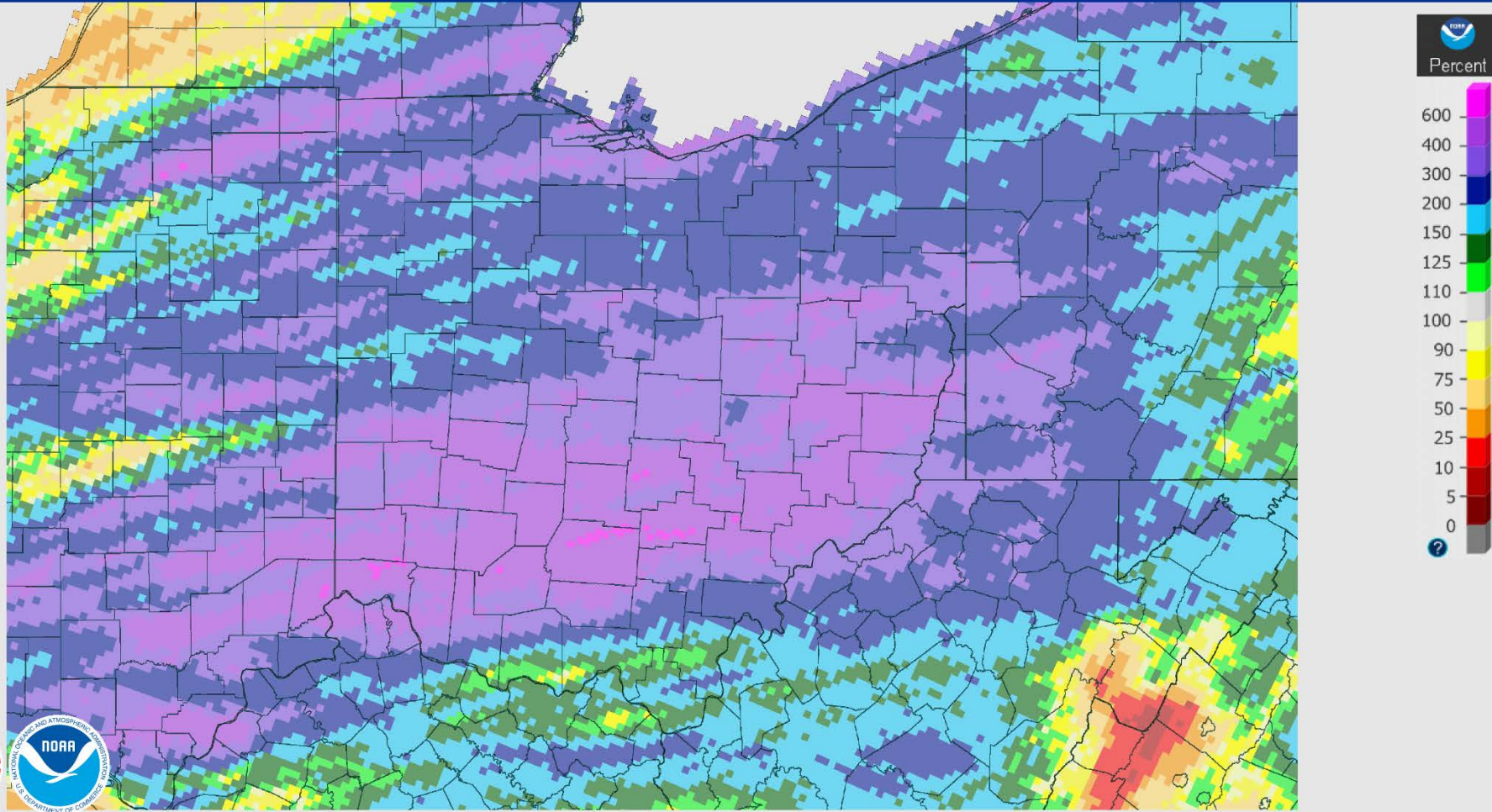
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Previous 7-Day Precipitation: Percent of Normal

November 09, 2017 7-Day Percent Precipitation

Created on: November 09, 2017 - 19:29 UTC

Valid on: November 09, 2017 12:00 UTC

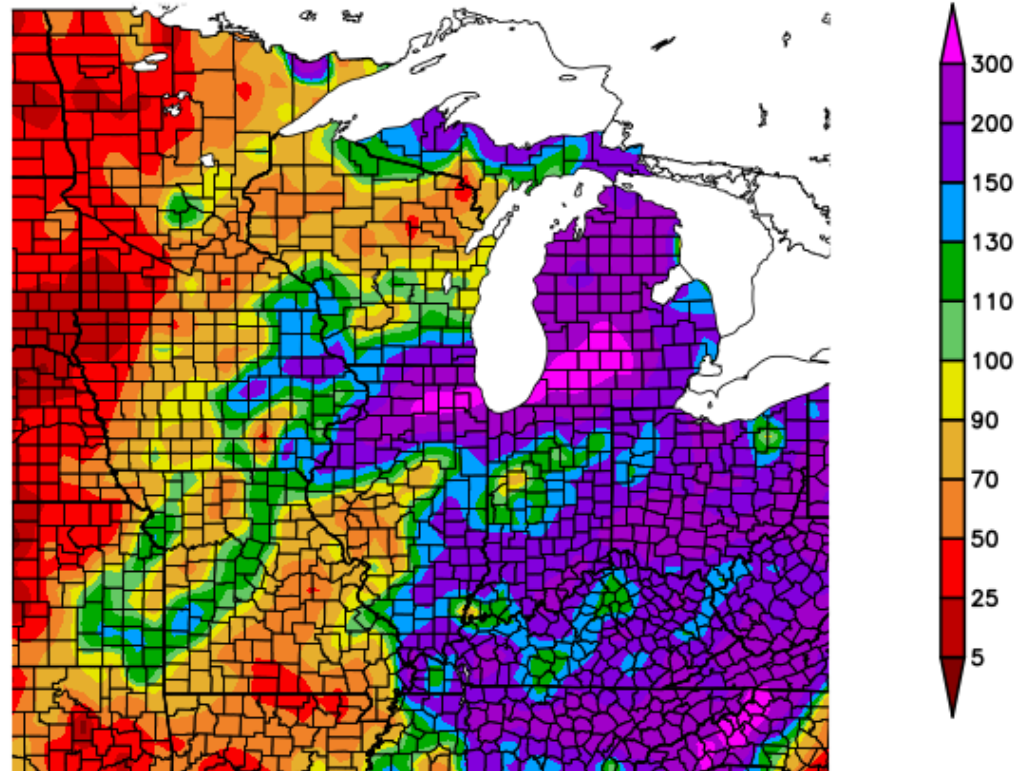


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Previous 30-Day Precipitation Difference Compared to Average (1981-2010)

Percent of Normal Precipitation (%)
10/9/2017 - 11/7/2017



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NIDIS Drought.gov
U.S. Drought Portal

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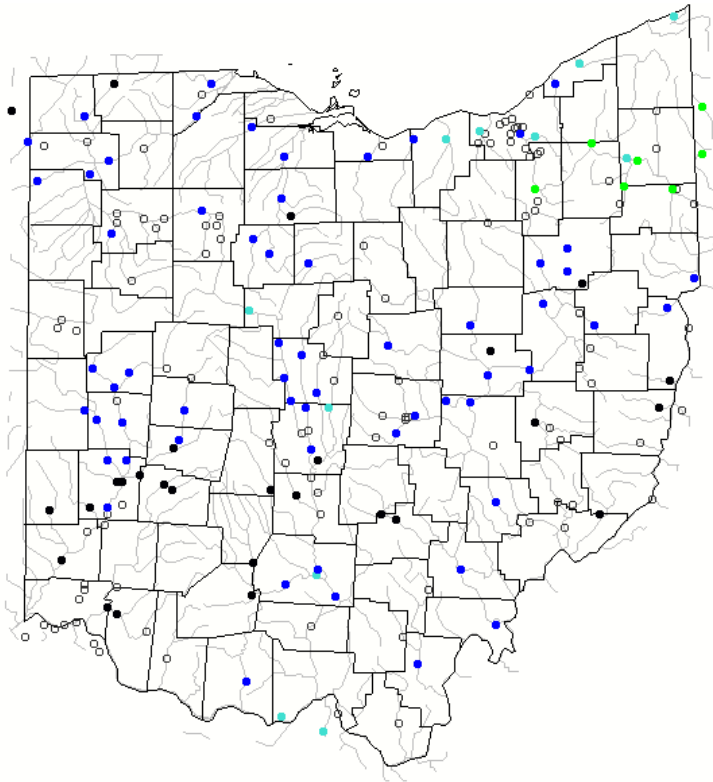
NOAA Regional Climate Centers



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7-DAY



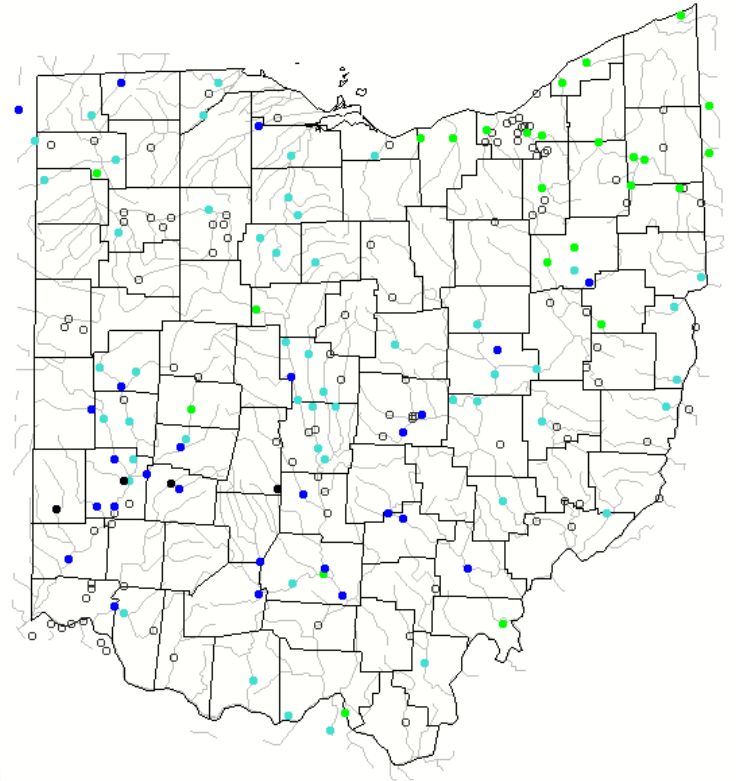
Explanation - Percentile classes

Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

Average streamflow compared to historical streamflow for the day of the year

USGS Streamflow

28-DAY



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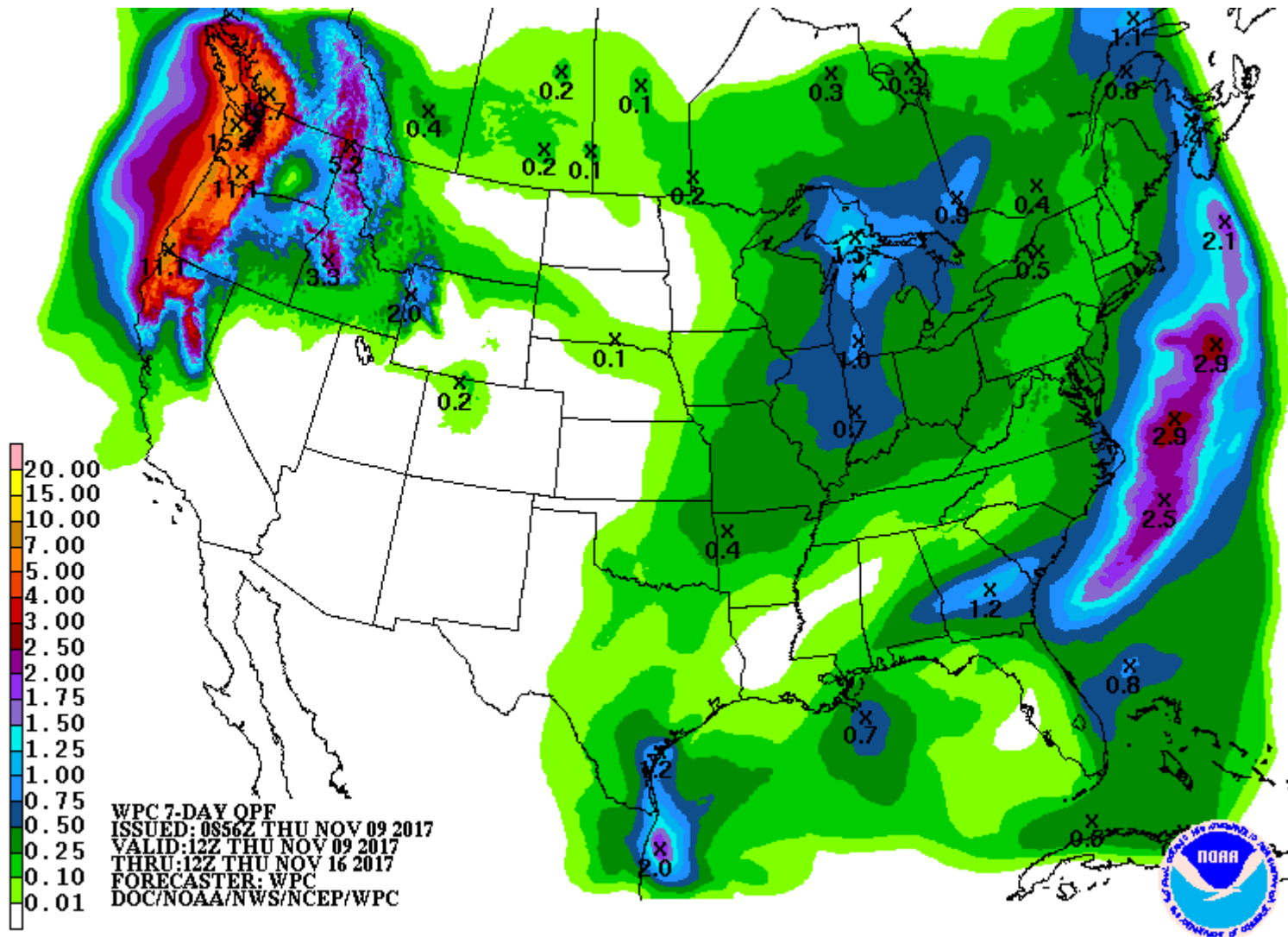
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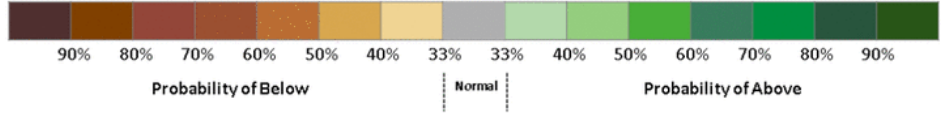
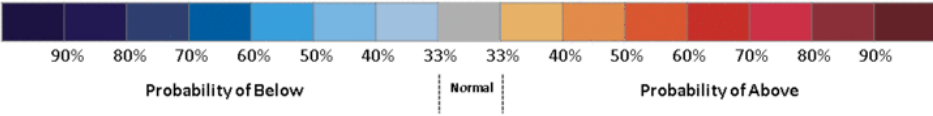
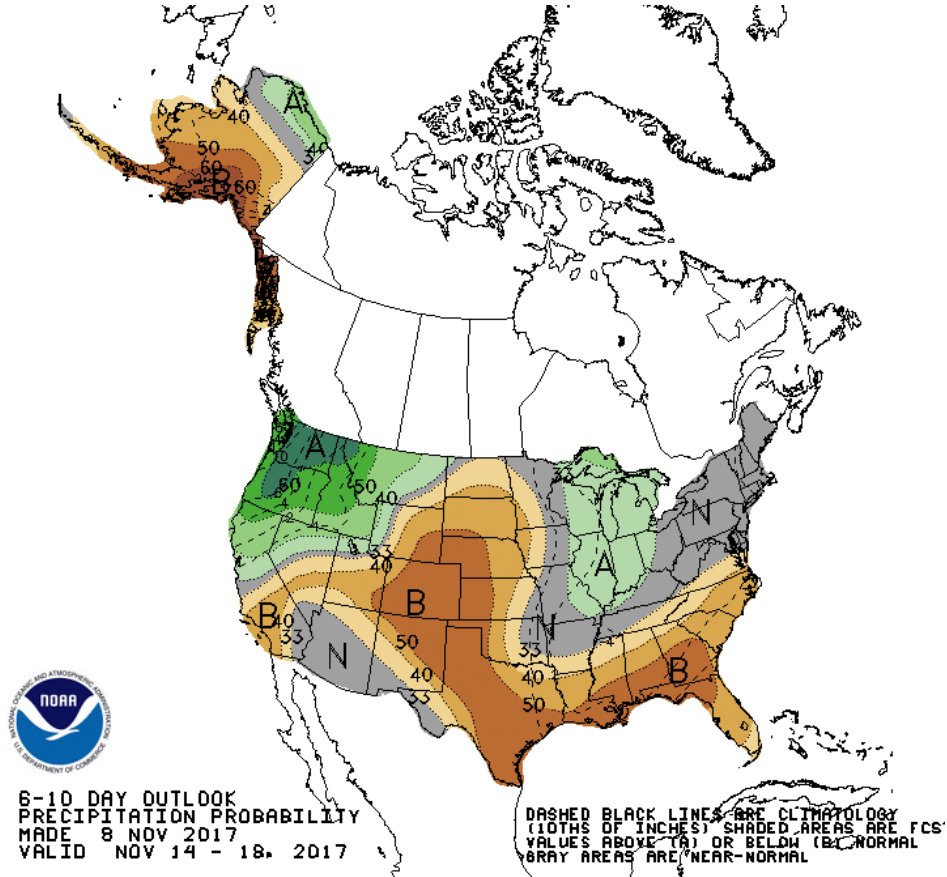
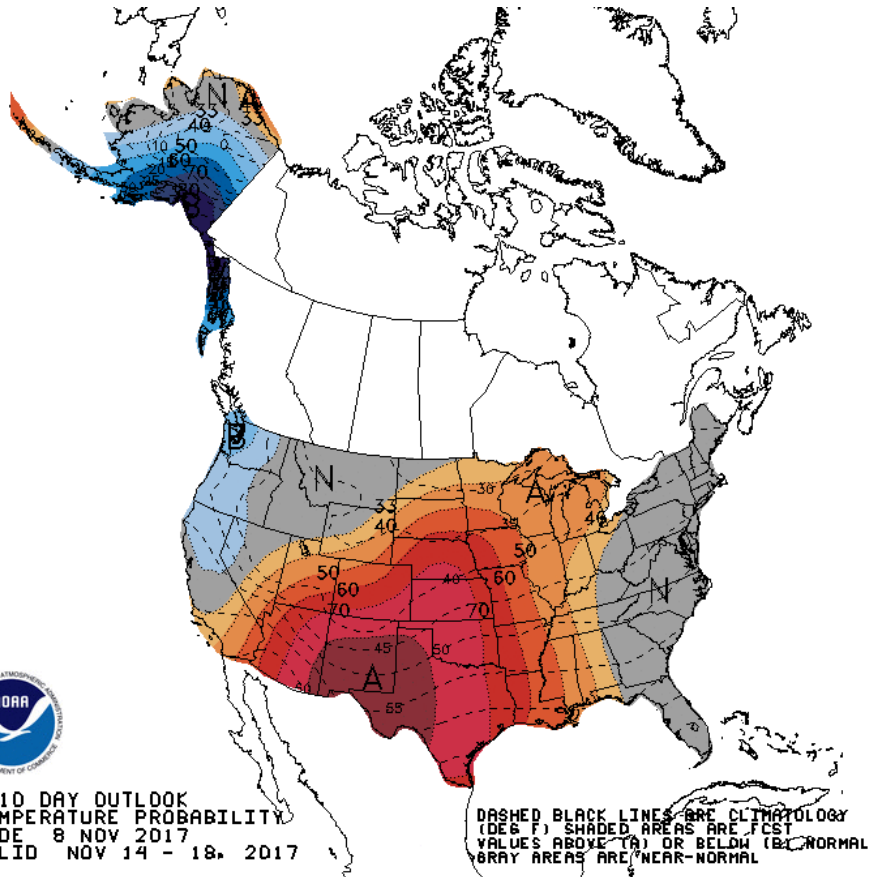
Weather for the Week Ahead



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6-10 Day Outlook



Highs: Mid 50s

Lows: Mid 30s

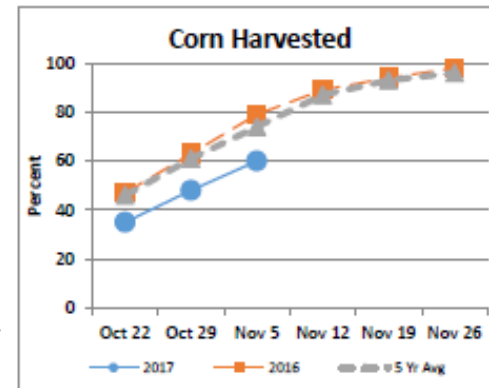
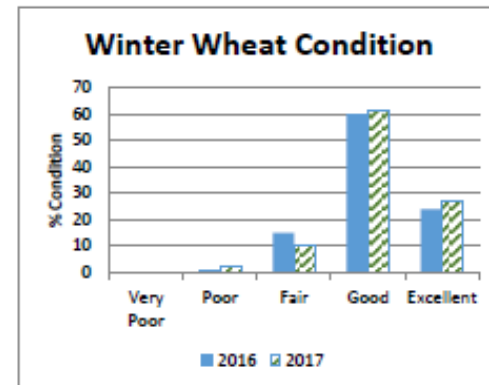
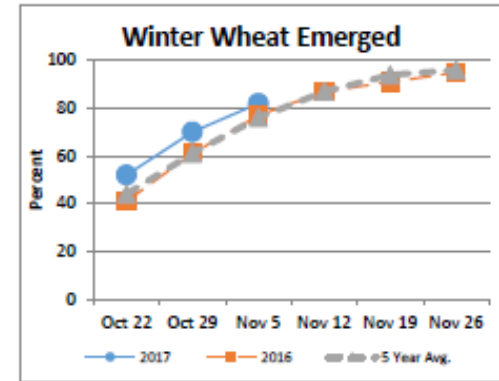


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Ag Highlights

- Only 2.9 days available for fieldwork
- Heavy rain, wind/tornadoes further delayed harvest
- Took several days to dry out and get back into the fields this week



NASS: Cheryl Turner –

https://www.nass.usda.gov/Statistics_by_State/Ohio/Publications/Crop_Progress_&_Condition/2017/cw3017oh.pdf



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Summary of Conditions



Drought Monitor: Heavy rain diminishing drought conditions across the north
30-Day and 60-Day: Very wet in the short-term; long-term still holding onto dryness
The week ahead: First Arctic blast this week; Only light precipitation expected



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