Hydrologic and Climate Assessment

April 27, 2018

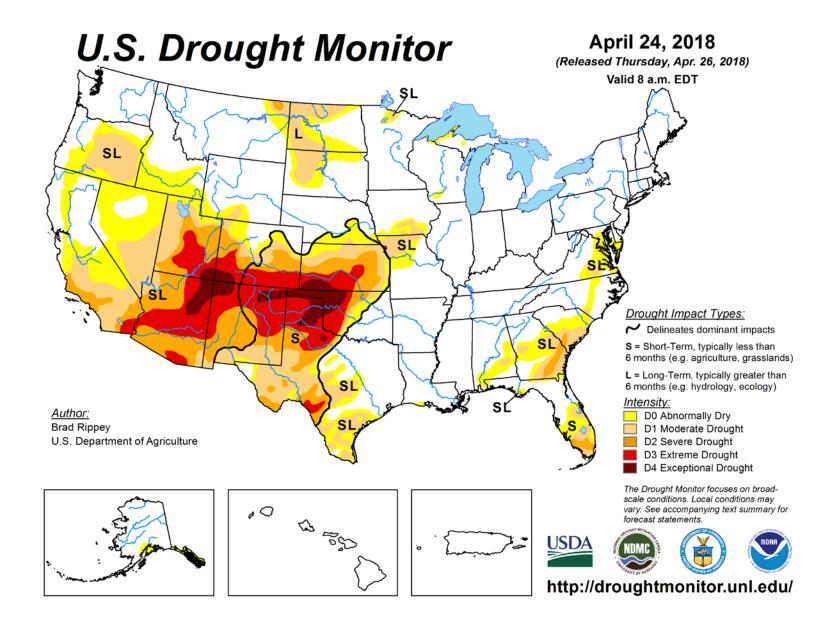




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)

DEPARTMENT OF EXTENSION - CFAES
BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

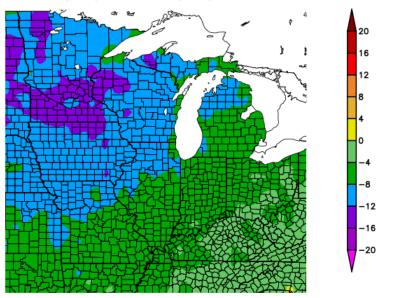




Temperature Differences Compared to Average (1981-2010)

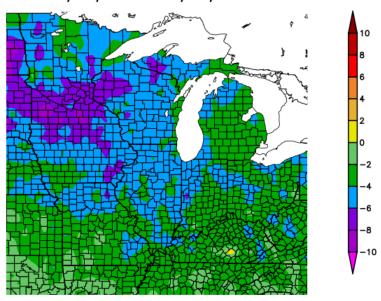
30-Day

Departure from Normal Temperature (F) 3/28/2018 - 4/26/2018



60-Day

Departure from Normal Temperature (F) 2/26/2018 - 4/26/2018



Generated 4/27/2018 at HPRCC using provisional data.

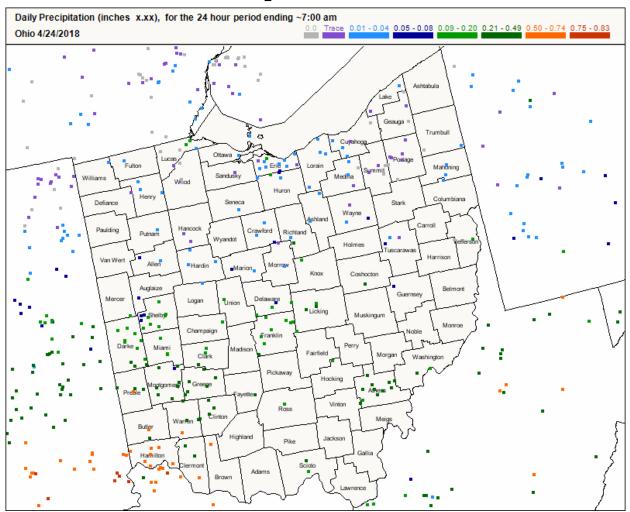
NOAA Regional Climate Centers Generated 4/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers



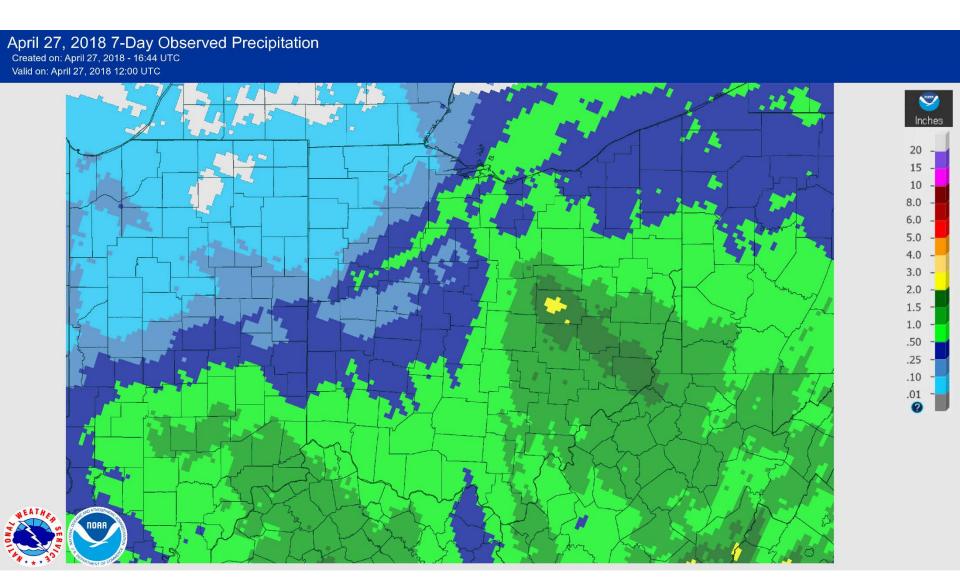


CoCoRaHS Observed Precipitation: April 24



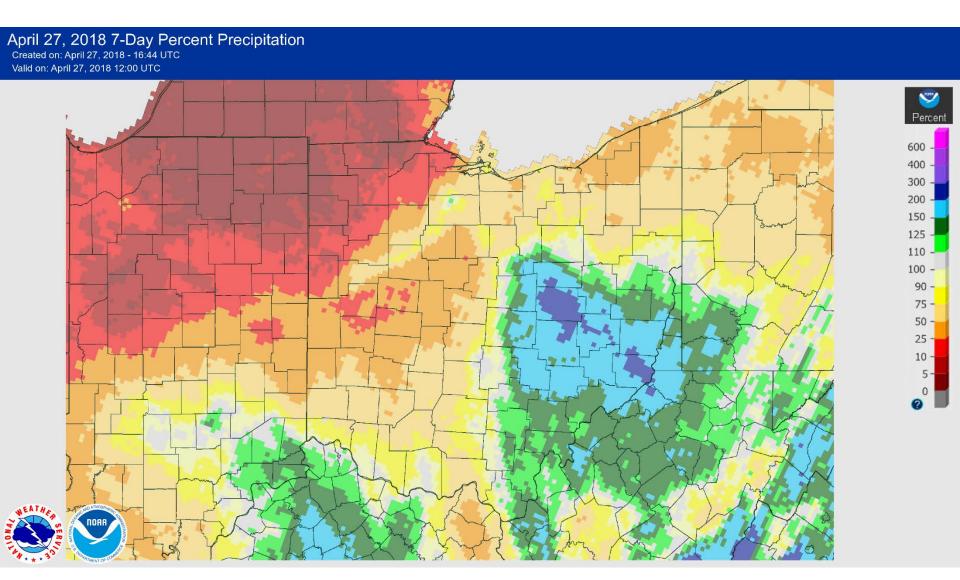


Previous 7-Day Precipitation: Total





Previous 7-Day Precipitation: Percent of Normal

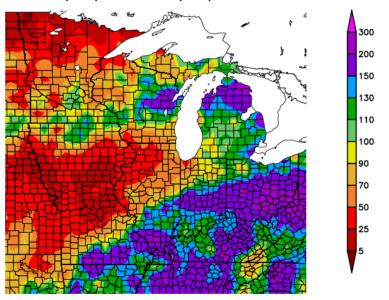




Precipitation Differences Compared to Average (1981-2010)

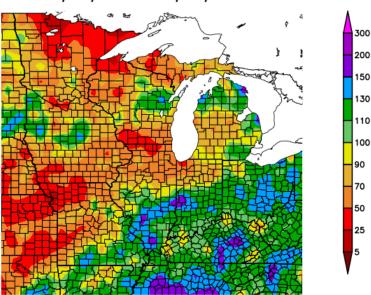
30-Day

Percent of Normal Precipitation (%) 3/28/2018 - 4/26/2018



60-Day

Percent of Normal Precipitation (%) 2/26/2018 - 4/26/2018



Generated 4/27/2018 at HPRCC using provisional data.

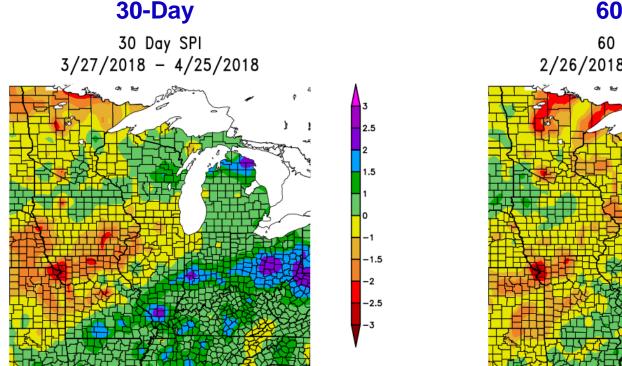
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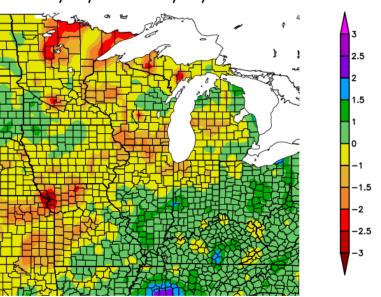


Standard Precipitation Index (SPI)





60 Day SPI 2/26/2018 - 4/26/2018



Generated 4/26/2018 at HPRCC using provisional data.

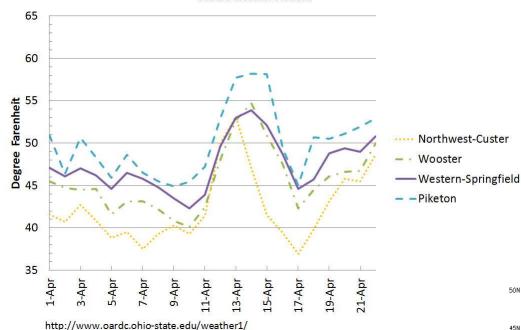
NOAA Regional Climate Centers Generated 4/27/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

Soil Temperature/Moisture

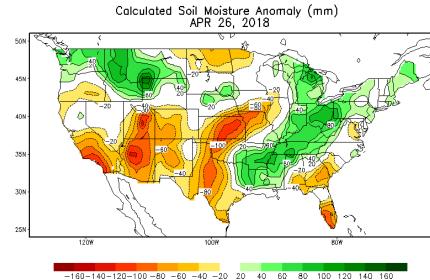
Two-inch Bare Surface Soil Temperature-Daily Average

April 1, 2018 to present OARDC Weather Stations

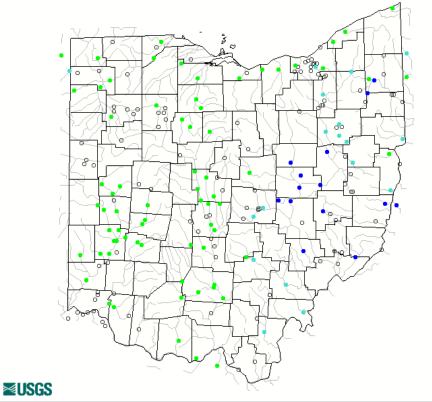


From C.O.R.N. (Greg Labarge, Peter Thomison)

https://agcrops.osu.edu/newsletter/corn-newsletter/2018-10/soil-temperatures-accumulated-gdd-and-corn-emergence



7-DAY

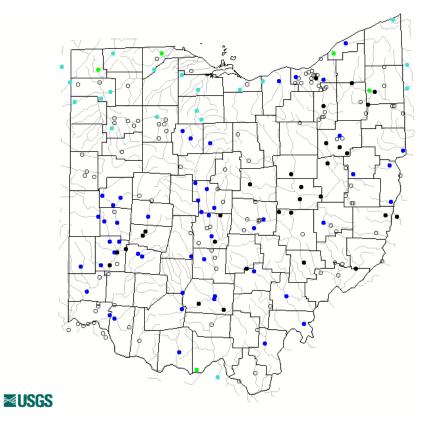


Explanation - Percentile classes							
		•	•			•	0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

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

USGS Streamflow







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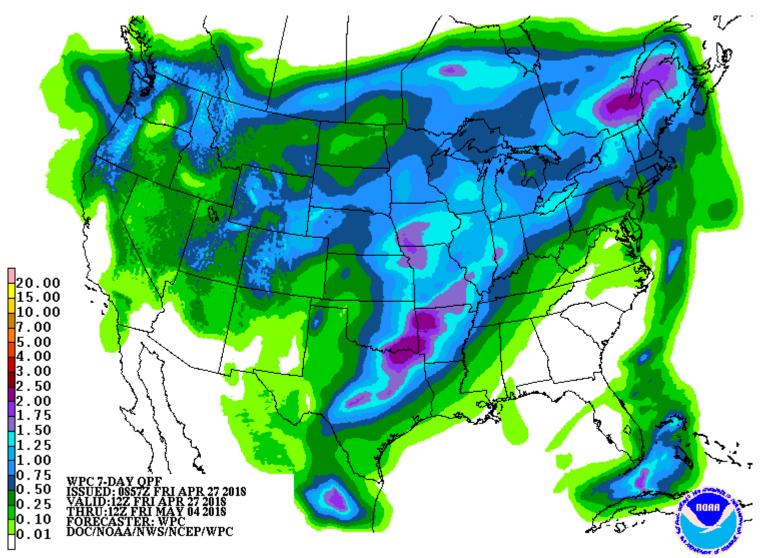
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Weather for the Week Ahead





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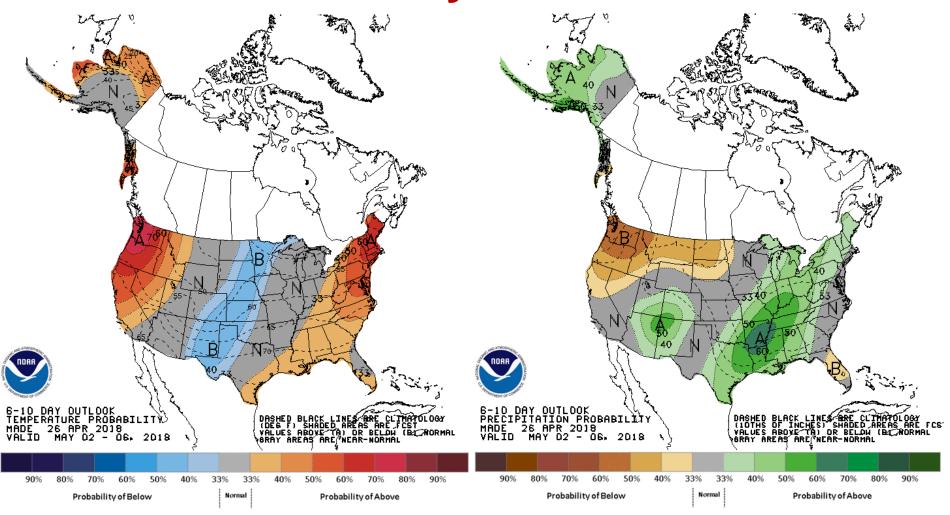
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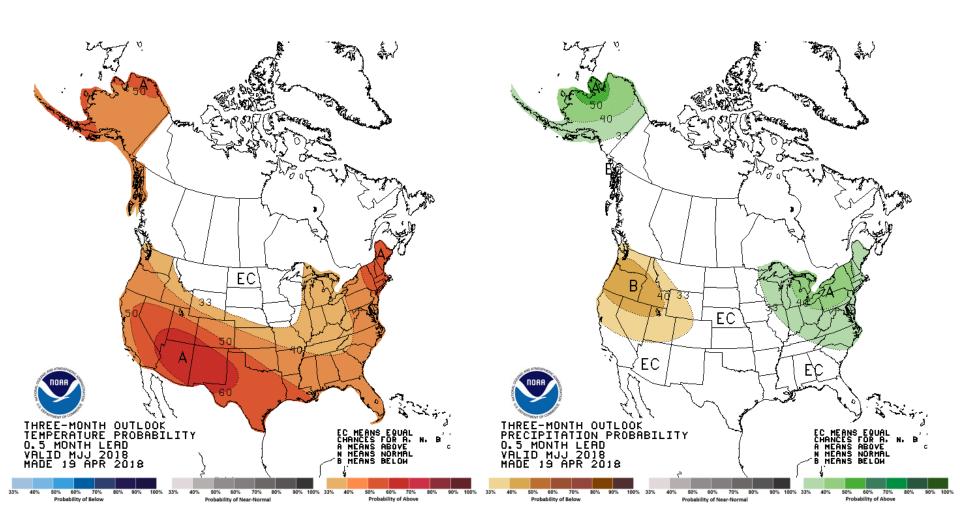
6-10 Day Outlook



Highs: Mid to upper 60s Lows: Mid to upper 40s



May-July Outlook





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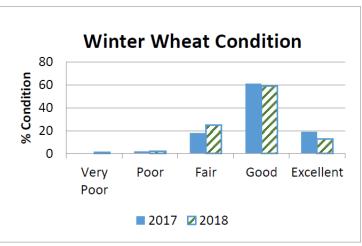
DEPARTMENT OF EXTENSION

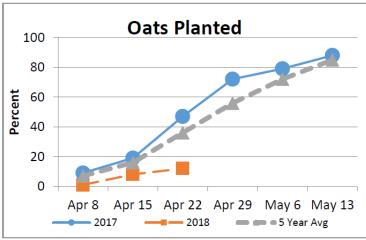
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Ag Highlights

- 1.4 days suitable for work
- Wet conditions delaying activities
- Some fertilizer and spring herbicide applications
- Wheat jointing and Oats planted behind 5-year average





NASS: Cheryl Turner –

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



Summary of Conditions



Drought Monitor: No Drought in Ohio

30-Day and 60-Day: Substantially to Significantly Wet

The week ahead: A cool weekend followed by a big warm up and drying conditions Sunday-Tuesday. Next round of rain comes mid-week.

