## **Hydrologic and Climate Assessment**

**April 18, 2018** 

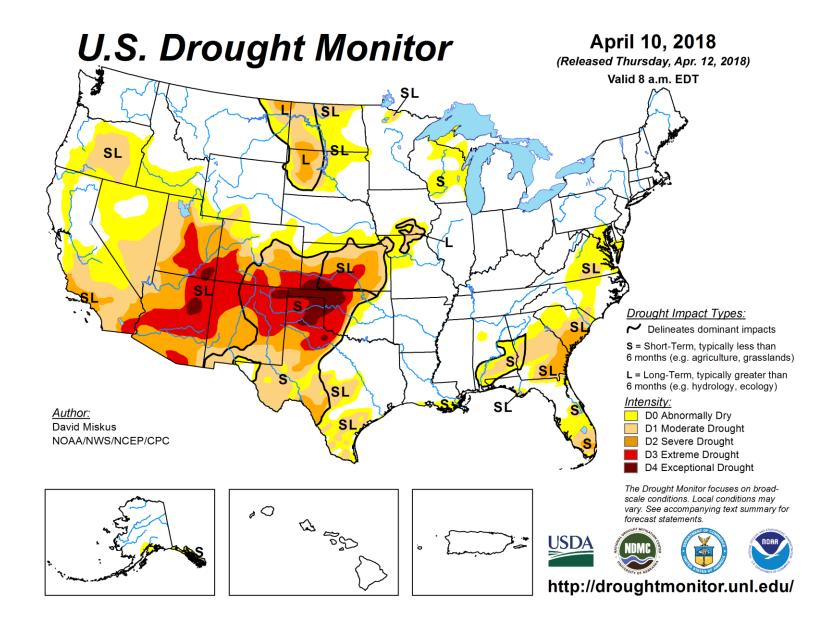




Aaron B. Wilson

STATE CLIMATE OFFICE OF OHIO (SCOO)
DEPARTMENT OF EXTENSION - CFAES

BYRD POLAR & CLIMATE RESEARCH CENTER
DEPARTMENT OF GEOGRAPHY

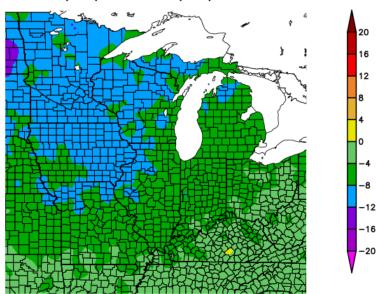




## Temperature Differences Compared to Average (1981-2010)

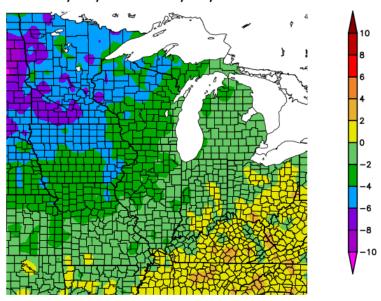
#### 30-Day

Departure from Normal Temperature (F) 3/18/2018 - 4/16/2018



#### 60-Day

Departure from Normal Temperature (F) 2/16/2018 - 4/16/2018



Generated 4/17/2018 at HPRCC using provisional data.

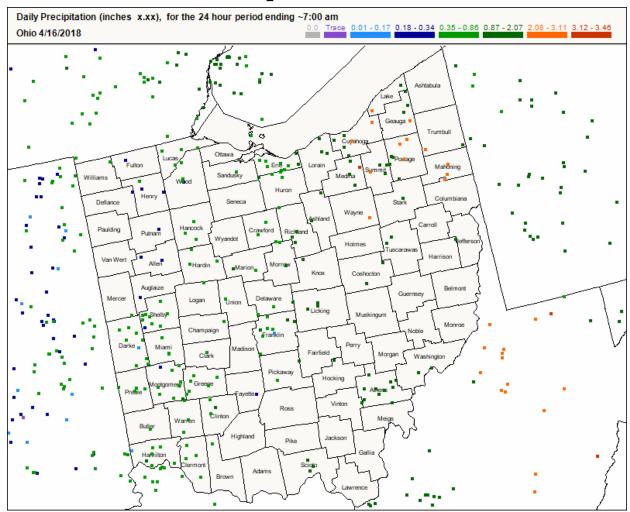
NOAA Regional Climate Centers Generated 4/17/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers



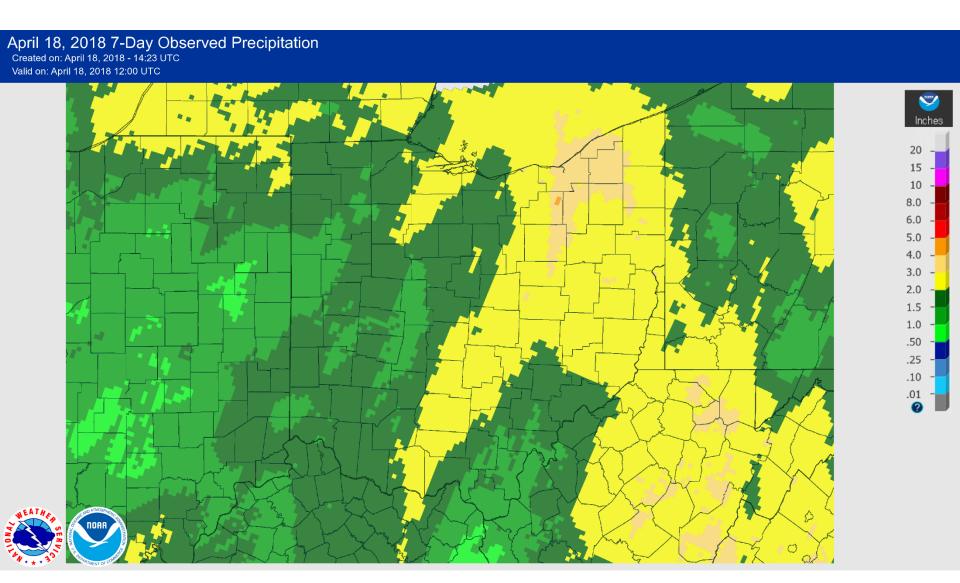


# CoCoRaHS Observed Precipitation: April 16



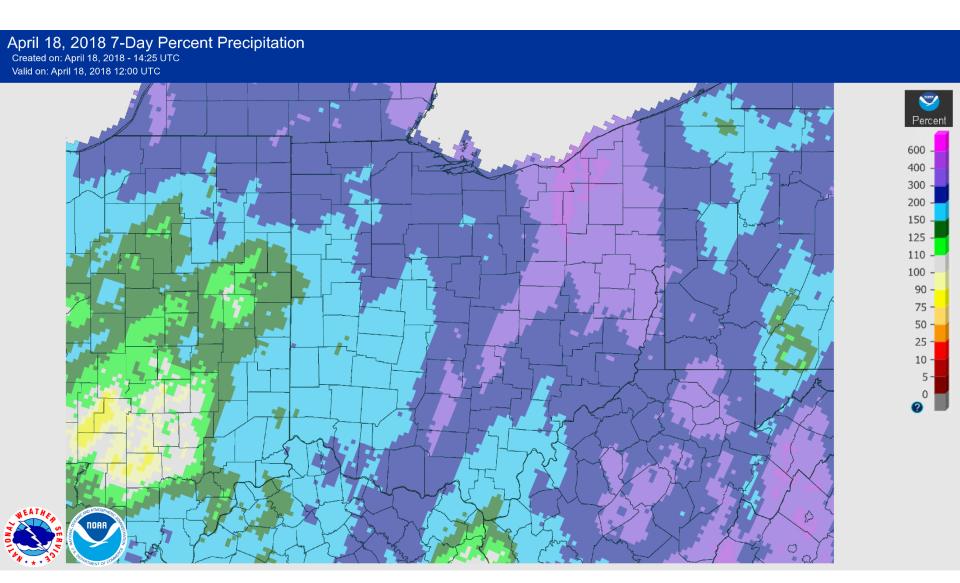


## **Previous 7-Day Precipitation: Total**





### **Previous 7-Day Precipitation: Percent of Normal**

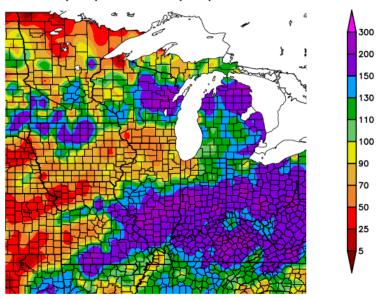




## Precipitation Differences Compared to Average (1981-2010)

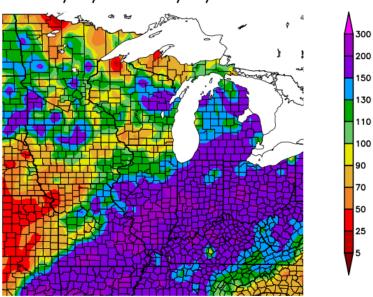
#### 30-Day

Percent of Normal Precipitation (%) 3/18/2018 - 4/16/2018



#### 60-Day

Percent of Normal Precipitation (%) 2/16/2018 - 4/16/2018



Generated 4/17/2018 at HPRCC using provisional data.

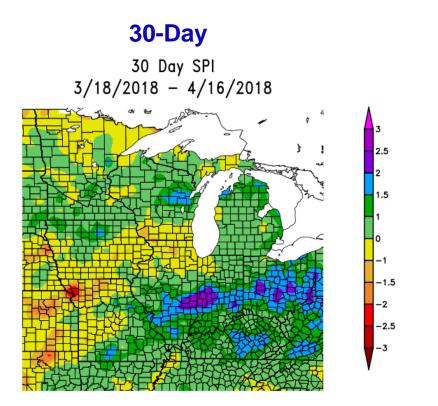
NOAA Regional Climate Centers Generated 4/17/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers



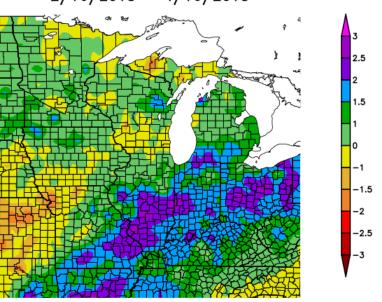


## Standard Precipitation Index (SPI)





60 Day SPI 2/16/2018 - 4/16/2018



Generated 4/17/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 4/17/2018 at HPRCC using provisional data.

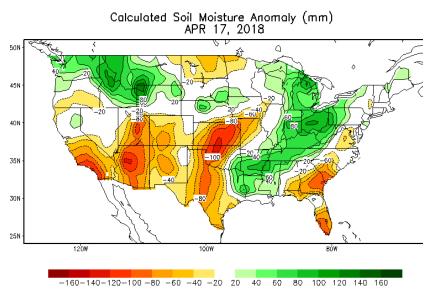
NOAA Regional Climate Centers

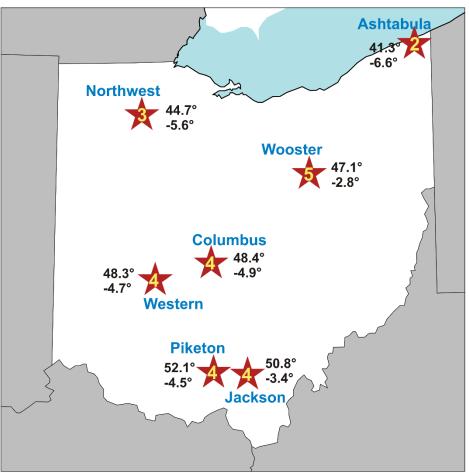


## **Soil Temperature/Moisture**

Landina	Min Soil T	Max Soil T	2018 Soil T	2018
Location	(°F)	(°F)	(°F)	Rank
Ashtabula	41.2 (2016)	53.3 (2017)	41.3	2
Columbus	47.8 (2016)	59.9 (2001)	48.4	4
Jackson	45.6 (2007)	61.8 (2001)	50.8	4
NW	43.0 (2009)	57.8 (2006)	44.7	3
Piketon	48.9 (2016)	66.3 (2001)	52.1	4
Western	47.4 (2009)	60.4 (2001)	48.3	4
Wooster	40.6 (2007)	57.4 (2001)	47.1	5

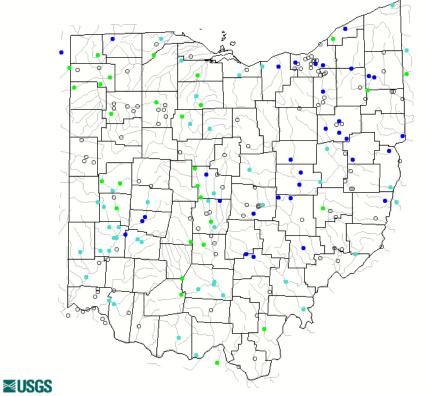
<sup>\*</sup> Soil temperatures are based on weekly averages from April 9-15





From C.O.R.N.: Differences and Ranks based on 2000-2018 data. https://agcrops.osu.edu/newsletter/cornnewsletter/2018-09/spring-warm-how-does-2018-soil-temperature-compare

#### 7-DAY

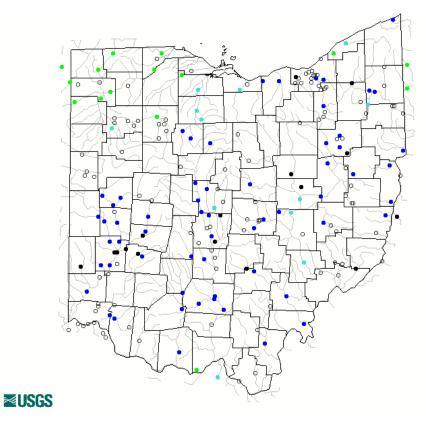


Explanation - Percentile classes								
						•	0	
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked	
	Much below normal	Below normal	Normal	Above normal	Much above normal		140t-Tallkeu	

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

## **USGS Streamflow**







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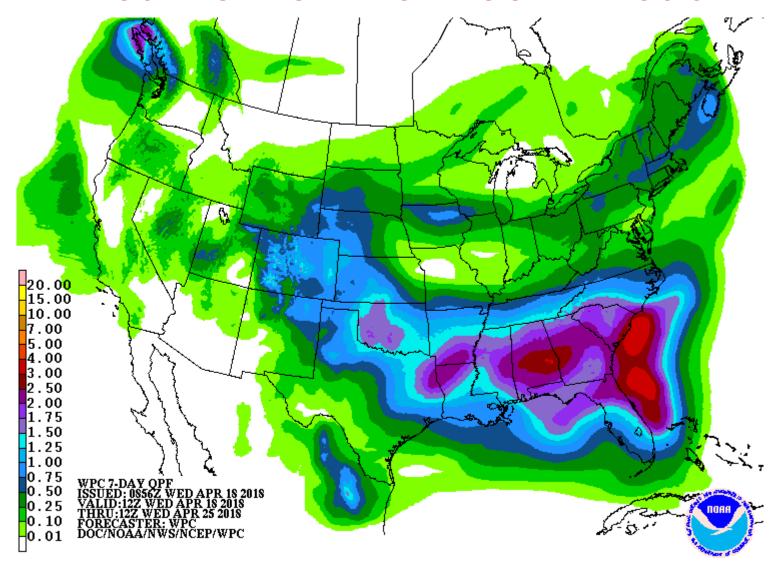
DEPARTMENT OF EXTENSION

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DEPARTMENT OF GEOGRAPHY

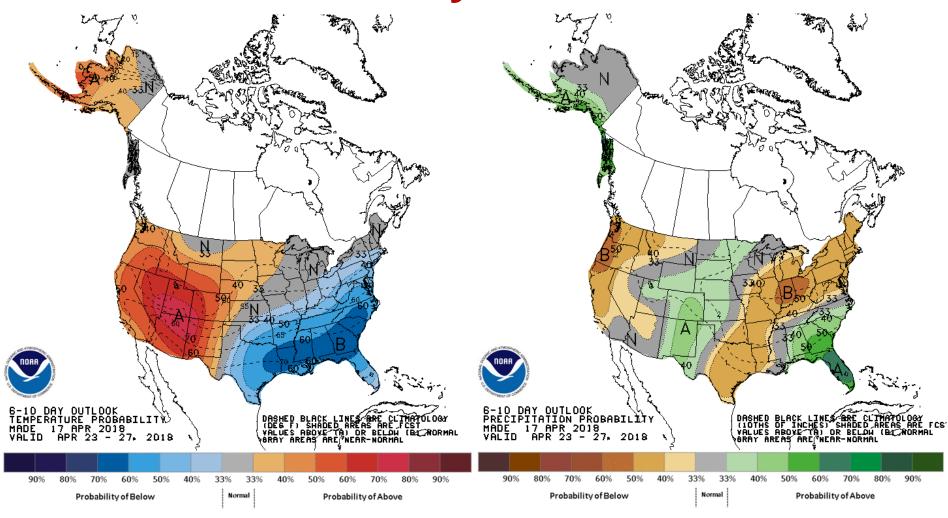


### Weather for the Week Ahead





## 6-10 Day Outlook



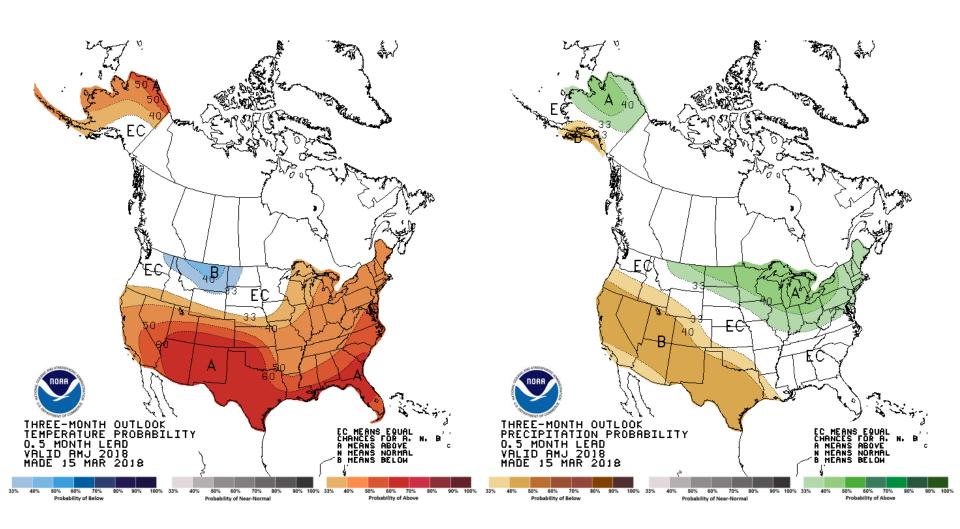
**Highs:** Low to mid 60s **Lows:** Low to mid 40s



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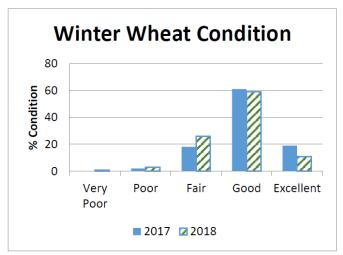
## **April-June Outlook**

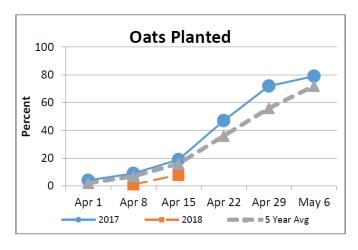




## **Ag Highlights**

- 1.7 days suitable for work
- Wet conditions delaying activities
- Some fertilizer and spring herbicide applications
- Wheat and Oats 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: Drier week ahead. Warmer temperatures by the weekend into next

week.

