

CLIMATE SUMMARY

Vol. 1, Issue 2

June / 2021

Precipitation

According to the National Centers for Environmental Information (NCEI), the statewide average June precipitation was 4.09 inches, 0.45 inches *below* the long-term mean (1991-2020). This was 0.97 inches greater than June 2020 and 0.36 inches more than May 2021. June 2021 ranks as the 69th driest on record (1895-2021; Table 1).

Table 1: Ohio June Precipitation Ranking

Period	Value	Average	Anomaly	Rank	Wettest/Driest Since	Record Year
June 2021	4.09"	4.54"	-0.45"	59 th Wettest	Driest since: 2020 Wettest since: 2019	0.83" (1988) 8.03" (2015)

Much of Ohio received 2 to 4 inches of rain in June, with portions of southwest Ohio picking up a bit more with around 5 to 7.5 inches (Fig. 1). This was generally below average (1991-2020), with pockets in the southwest and the very northwest portions of the state receiving slightly more than average precipitation (Fig. 2).

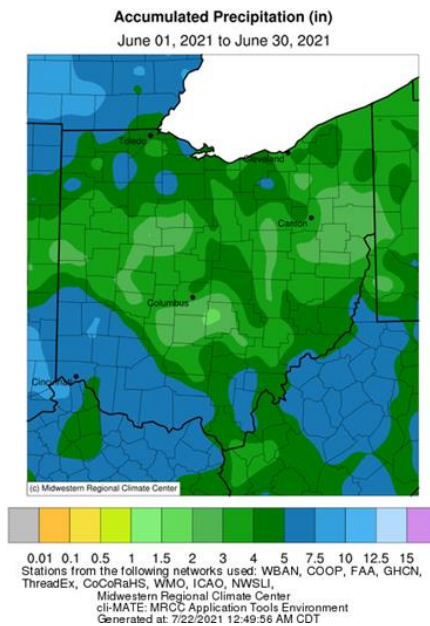


Figure 1: Accumulated June precipitation (inches). Courtesy of the Midwestern Regional Climate Center.

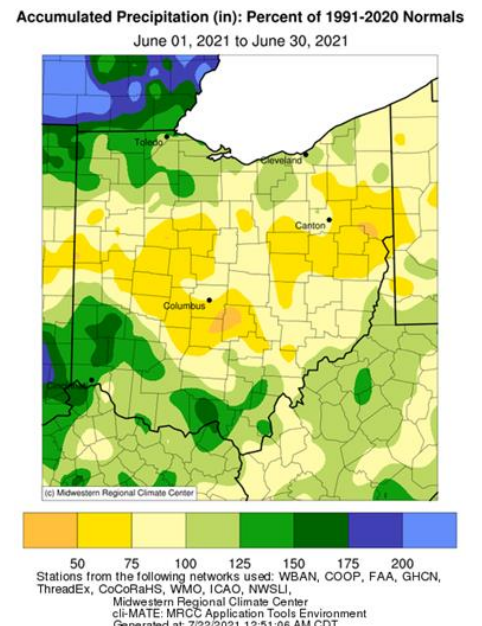


Figure 2: Percent of Normal Accumulated Precipitation in Inches for the Month of June. Courtesy of the Midwestern Regional Climate Center.

Warren County in southwest Ohio received the greatest precipitation accumulation in June with 7.23 inches, making it the 10th wettest June for that county in the 127-year period (Fig. 3). The driest county during June was Muskingum County in east central Ohio, with an accumulation of 2.23 inches of precipitation, making it the 19th driest June. Historical statewide trends from 1895-2021 show the lowest recorded precipitation during for June during this period was 0.83 inches in 1988 with the greatest in 2015 at 8.03 inches (Fig. 4).

Figure 3: Ohio County Precipitation Ranking (NCEI, NOAA)

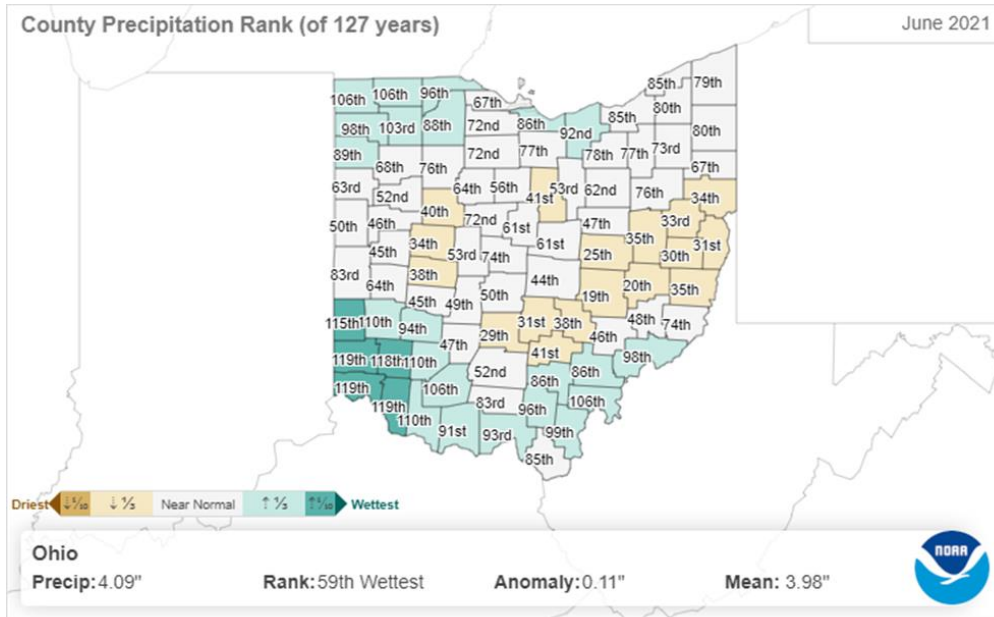
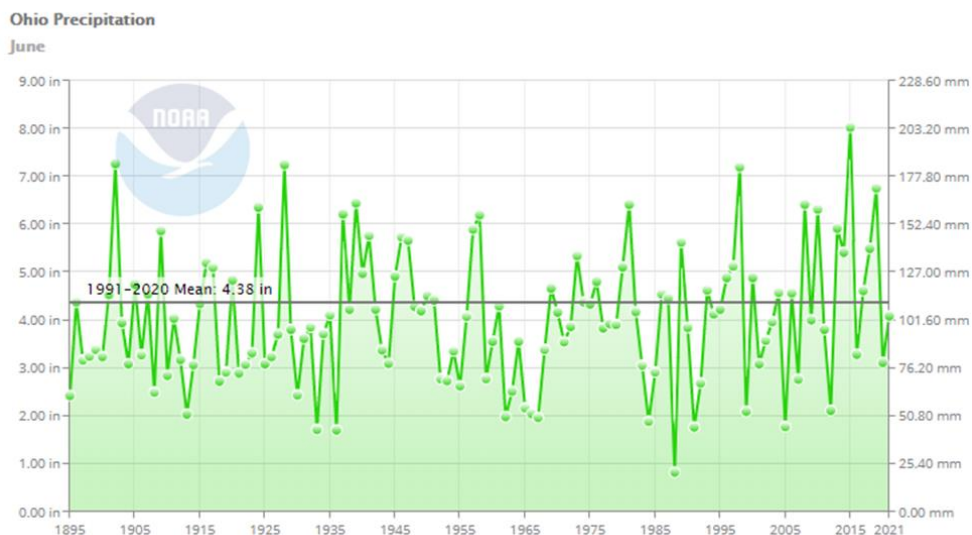


Figure 4: Ohio Historical Precipitation Time Series (NCEI, NOAA)



Temperature

The average state temperature for Ohio during the month of June was 71.6°F, which was 2.6°F *warmer* than the long-term mean (1991-2020). This was also 1.2°F warmer than June 2020 and is 12.8°F warmer than May 2021, helping to make June 2021 the 17th warmest June in the 127-year record (Table 2).

Table 1: Ohio June Temperature Ranking

Period	Value	Average	Anomaly	Rank	Coollest/Warmest Since	Record Year
June 2021	71.6°F	69.0°F	+2.6°F	17 th Warmest	Coollest since: 2020 Warmest since: 2010	63.6°F (1927) 75.1°F (1934)

Average temperatures for the month of June were uniform throughout the state, with values between 70-75°F (Fig. 5). Departures from the long-term means show that June 2021 was significantly warmer than average. The central regions of Ohio averaged around 1-2°F warmer than the normal values (1991-2020), while the northern regions of the state had temperatures around 3-4°F warmer than normal. Only the southern-most portions of the state, as well as a few pockets in central Ohio, maintained a near-normal temperature in June (Fig. 6).

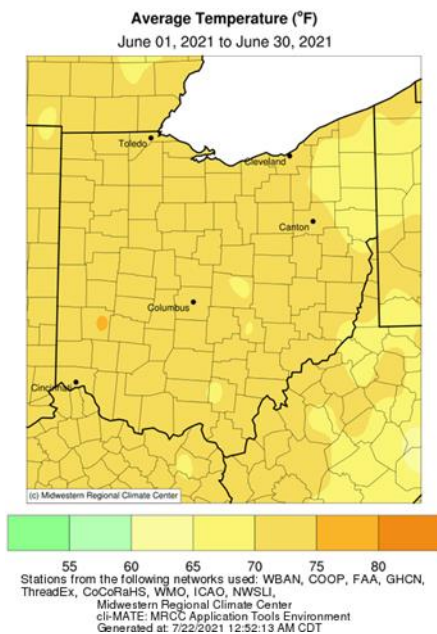


Figure 5: Average June Temperature in °F. Courtesy of the Midwestern Regional Climate Center.

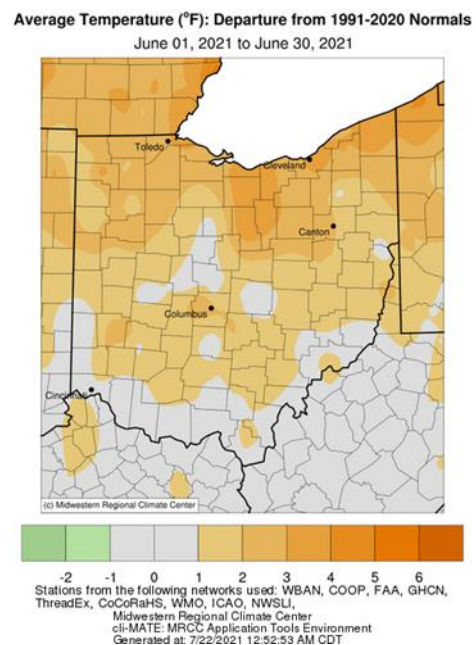


Figure 6: Departure from Normal Average June Temperature in °F. Courtesy of the Midwestern Regional Climate Center.

A partnership between OSU Extension, Byrd Polar and Climate Research Center, and the State Climate Office of Ohio

Lucas County in the northwestern region of the state recorded the warmest average June temperature in Ohio at 73.8°F, making it the 7th warmest June for that county. Jefferson County on the eastern edge of the state was the coolest county during the month, with a recorded temperature of 69.4°F, making it the 41st warmest June for the county (Fig. 7). Historical statewide temperature trends show that the coldest recorded Ohio average temperature for June was 63.6°F in 1927 and the warmest recorded temperature was 75.1°F in 1934 (Fig. 8).

Figure 7: Ohio County Temperature Ranking (NCEI, NOAA)

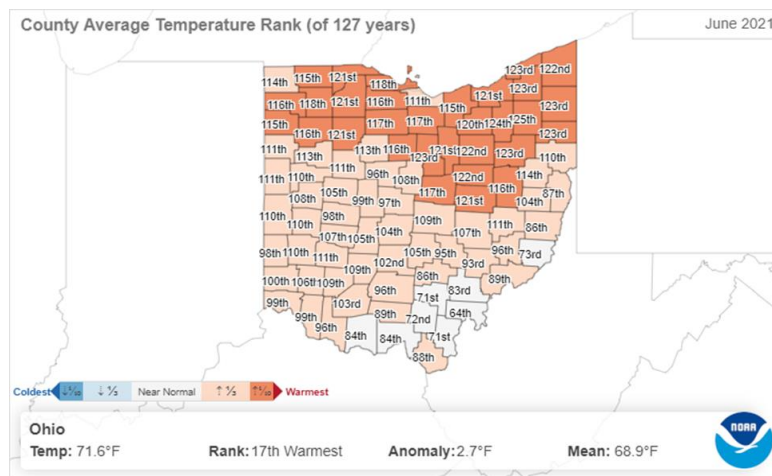
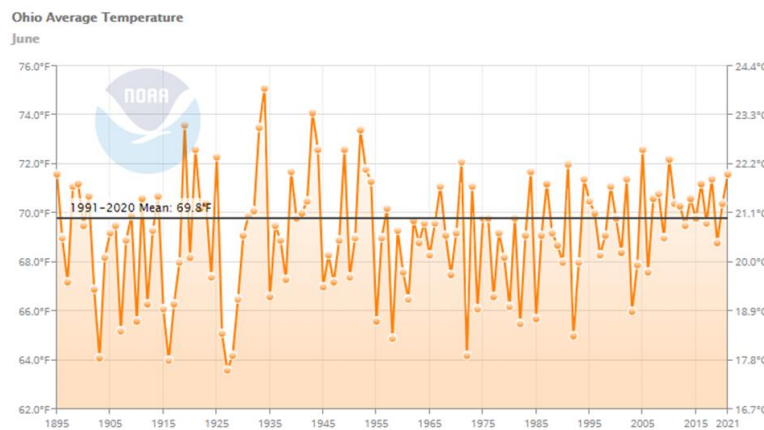


Figure 8: Ohio Historical Temperature Time Series (NCEI, NOAA)



Wesley Collins
 Atmospheric Science
 College of Arts and Sciences
 Social Media & Outreach Chair | Dragon Phoenix Wushu
 Student Assistant | Byrd Polar & Climate Research Center
 108D Scott Hall, 1090 Carmack Rd, Columbus, OH 43210
 collins.1798@osu.edu

Aaron B. Wilson, PhD
 CFAES-OSU Extension | Climate Specialist
 Byrd Polar & Climate Research Center | Research Scientist
 State Climate Office of Ohio
 Affiliated Faculty, Sustainability Institute
 171 Scott Hall, 1090 Carmack Rd., Columbus, OH 43210
 (614) 292-7930 Office
 wilson.1010@osu.edu osu.edu