

RIVER AND WEATHER CONDITIONS

Prepared for the Pittsburgh Waterways Association Meeting 07/10/2019

National Weather Service Forecast Office, Pittsburgh PA

For the latest river and weather forecasts--<http://www.weather.gov/pittsburgh>

WEATHER RECAP

June was yet another month with above normal precipitation, ending with 6.42 inches, which is actually 0.32" above June 2018 totals. However, this still did not make the top 10 wettest Junes on record. We are still ~2.00 inches below where we were this time last year (Jan 1-Jul 10). Parsons, WV had its highest crest since 1996 when heavy rain fell in WV/MD. 3-5 inches of rain fell in a few short hours overnight on June 29th-30th.

OUTLOOK

Rest of this week: Shower and thunderstorm chances Wed night thru Thursday with a passing cold front. High pressure returns dry weather for the weekend. Rainfall 0.50-1.00 inch.

Outlook for week of July 15: Slight-Moderate risk of excessive heat for portions of the Great Lakes/ Mid-Atlantic region. Temperatures in the 90's possible and humid. Tropical Development over the Gulf possible with its track in question...could lead to late week impact.

Outlook for week of July 22: Above normal temperatures persist. Precipitation near or above normal.

Outlook for week of July 29: Warm temperatures but drier conditions.

Outlook for August: Near normal temperatures and precipitation. Average 82 degrees for highs/ 62 degrees for lows. Precipitation ~3.00 inches unless there is tropical development.

HIGH WATER POTENTIAL



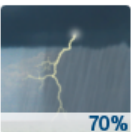




Streamflows over the upper Ohio River basin are running well above normal (200%) given the saturated conditions we've had over the last two weeks. As a result, 1.50-2.00 inches of rainfall in 6-12 hours will be needed to bring river and streams to near bank full. Long Range projections are keeping the chance for river flooding low for the Monongahela, Allegheny, Youghiogheny, and upper Ohio.

<i>Location</i>	<i>June 2019 Precipitation</i>	<i>Departure (Inches)</i>
<i>Pittsburgh</i>	6.42	+2.12

<i>Location</i>	<i>June Average Temperature</i>	<i>Departure Degrees</i>	<i>Extreme High</i>	<i>Extreme Low</i>
<i>Pittsburgh</i>	68.2	-0.5	89 on June 27	43 on June 4

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average monthly precipitation	2.7	2.39	2.95	3.11	3.95	4.3	3.83	3.48	3.11	2.29	3.23	2.85	38.19
Average High Temperature	35.7	39.3	49.2	61.7	70.8	79.1	82.5	81.4	74.3	62.6	51.2	39.4	60.7
Average Low Temperature	21.1	23	30	40.2	49.3	58.4	62.8	61.5	54	42.9	34.7	25.3	42
Average monthly snowfall	11.8	10.3	7.6	1.5	0	0	0	0	0	0.4	2	8.3	41.9

Pittsburgh Forecast:

Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night	Saturday
						
Hot	Chance T-storms	T-storms Likely	Chance T-storms	Partly Sunny	Partly Cloudy	Sunny
High: 90 °F	Low: 72 °F	High: 86 °F	Low: 67 °F	High: 82 °F	Low: 64 °F	High: 86 °F

8-14 Day Outlook... Temperatures well above normal. Hot. Precipitation near or slightly above. Tropical development?

Jul-Aug-Sep Outlook... Weak El Nino persists. Temperatures and precipitation will be near to slightly above normal.

Sep-Oct-Nov Outlook... Temperatures slightly above normal and near normal precip. Some question as to whether we will have another wet Oct. Also, will need to watch late season hurricane potential.

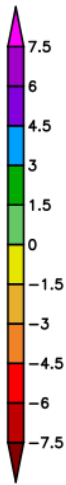
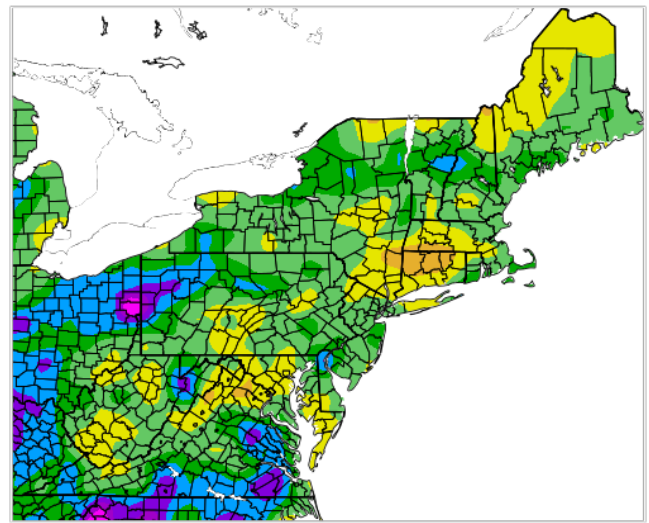
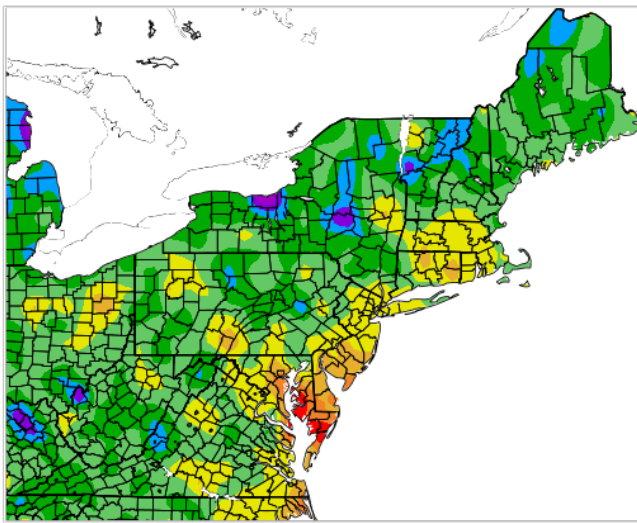
Average Yearly precipitation Pittsburgh: 38.19 inches. In 2019: 27.71" (+7.42)

Totals for: **2018: 57.83" (+19.64)**; 2017: 42.15"; 2016: 35.01"; 2015: 40.56"; 2014: 36.84"; 2013: 36.65"; 2012: 41.74"

Average Yearly snowfall Pittsburgh: 41.9 inches. 2018-19: 36.6" (-5.3); 2017-18: 59.8" (+17.9); 2016-17: 32.0" (-9.2),
2015-16: 29.6" (-12.3) 2014-15: 47.2"; 2013-14: 63.4"; 2012-13: 57"; 2011-12: 37"; 2010-11: 57"; 2009-10: 77"

Departure from Normal Temperature (F)
6/1/2019 – 6/30/2019

Departure from Normal Precipitation (in)
6/1/2019 – 6/30/2019

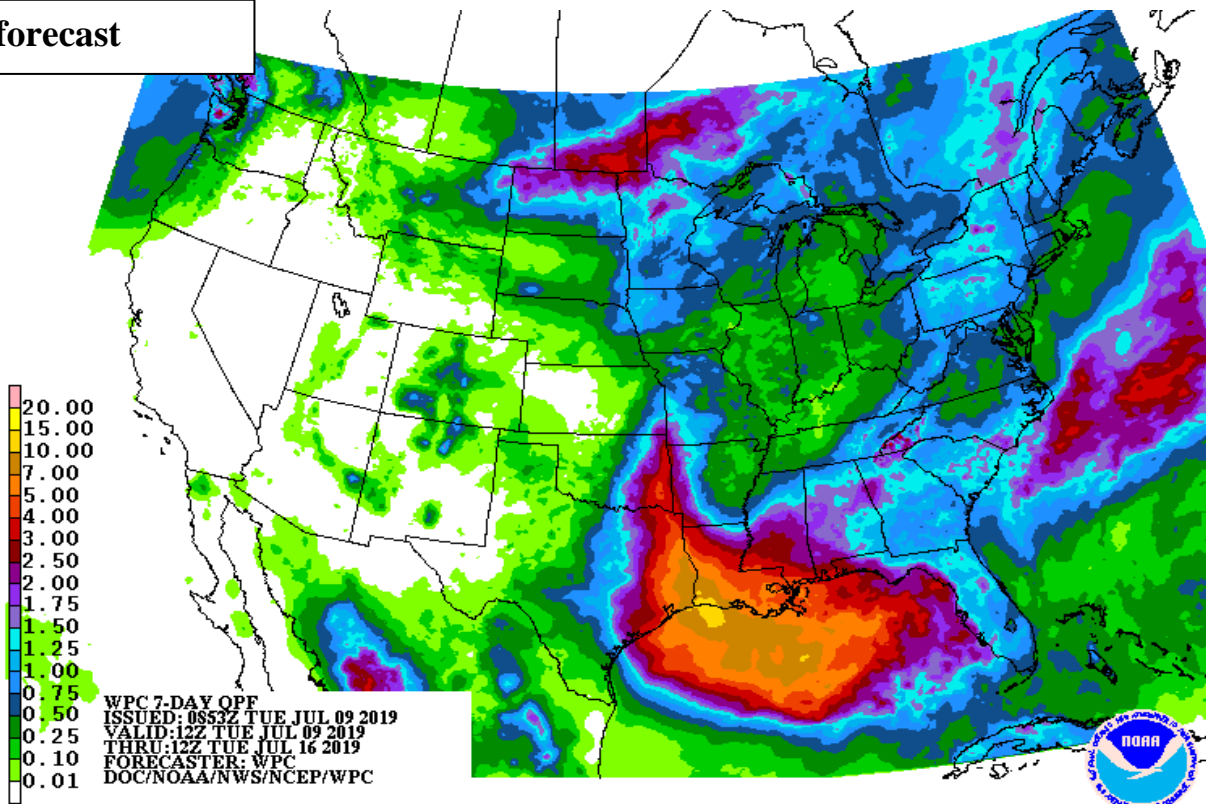


Generated 7/6/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers 7/6/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers

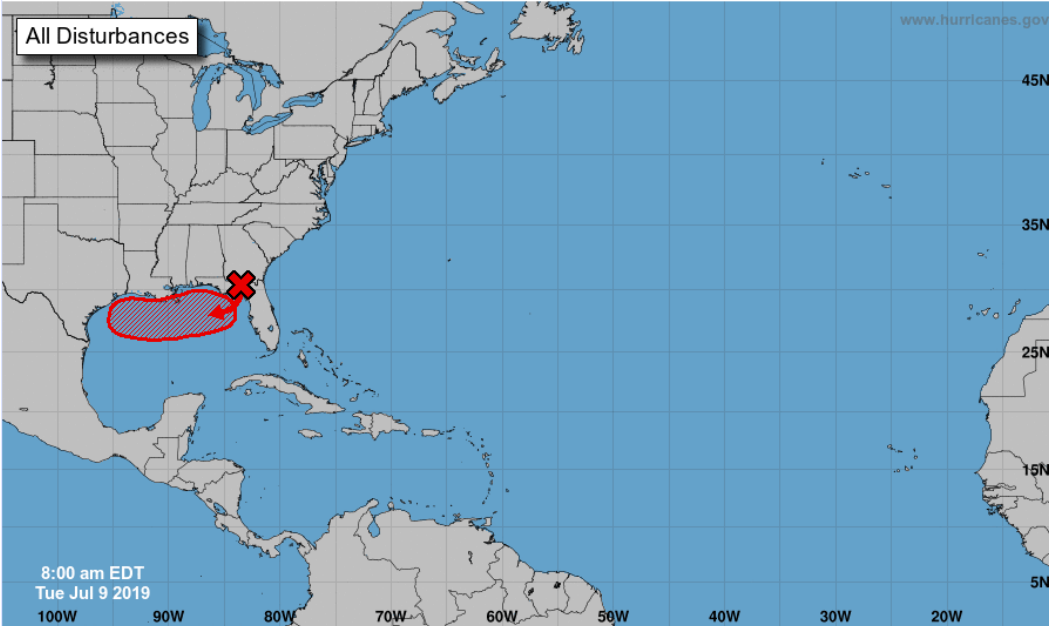
7 Day rain forecast





Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



8:00 am EDT
Tue Jul 9 2019

Current Disturbances and Five-Day Cyclone Formation Chance:
 X < 40% X 40-60% X > 60%
 Tropical or Sub-Tropical Cyclone: O Depression S Storm H Hurricane
 P Post-Tropical Cyclone or Remnants

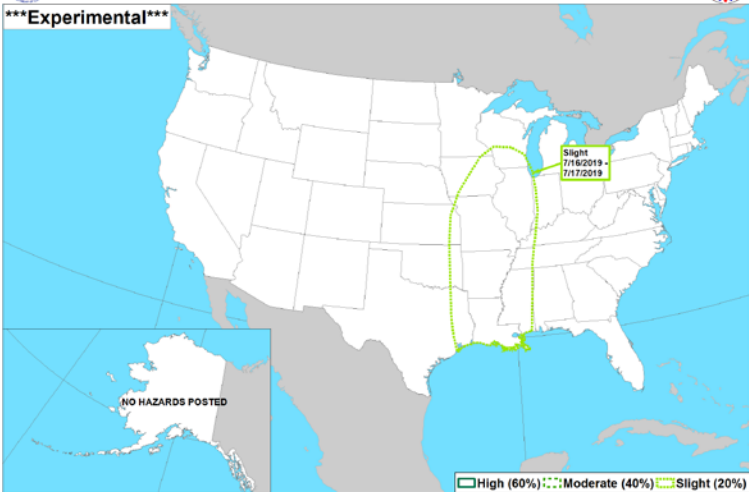


Risk of Heavy Precipitation

Valid: 07/16/2019-07/22/2019



Experimental



Climate Prediction Center
Made: 07/08/2019 3PM EDT

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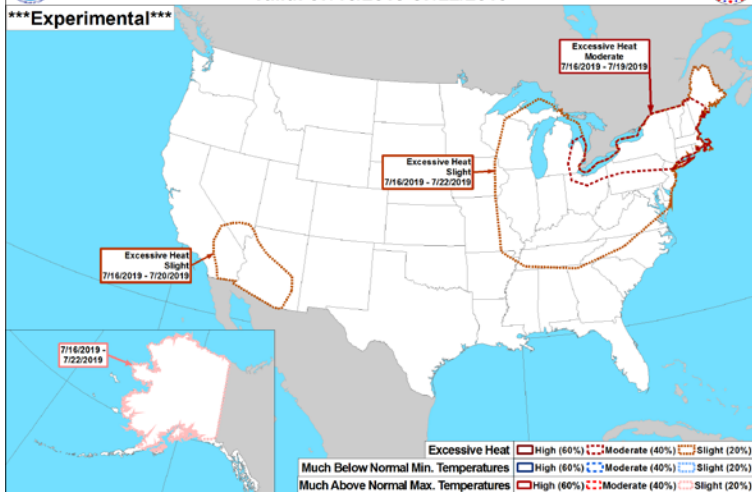


Risk of Hazardous Temperatures

Valid: 07/16/2019-07/22/2019



Experimental



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