

RIVER AND WEATHER CONDITIONS

Prepared for the Pittsburgh Waterways Association Meeting 08/14/2019

National Weather Service Forecast Office, Pittsburgh PA

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

WEATHER RECAP

The month of July was yet another active month, with 3 inches of precipitation over average. Most of the impacts from the rain were noted on smaller tributaries and in urban areas. We are currently running wetter than last year (33.73" Aug 13 2019 vs 33.37" Aug 13 2018).

OUTLOOK

Rest of this week: Several upper level disturbances will maintain the chance for showers and thunderstorms through the beginning of the weekend. Temperatures in the upper 80s return for the weekend. Precipitation less than an inch except in thunderstorms.

Outlook for week of Aug 19: Rather weak pattern persists with no strong low pressure systems. Temperatures will run above average with near normal precipitation.

Outlook for week of Aug 26: Pattern seems to persist into the end of the month. Warm temperatures with near normal precipitation.

Outlook for September: Near normal temperatures and precipitation. Watch any tropical development.

Outlook for October: Near Normal temperature and precipitation.

HIGH WATER POTENTIAL

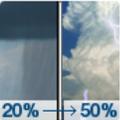
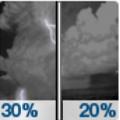
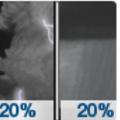
Streamflows over the upper Ohio River basin are running near normal. As a result, 2.00-2.50 inches of rainfall in 6-12 hours will be needed to bring river and streams to near bank full. Long Range projections are keeping the chance for river flooding low for the Monongahela, Allegheny, Youghiogheny, and upper Ohio.

Location	July 2019 Precipitation	Departure (Inches)
Pittsburgh	6.92	+3.09

Location	July Average Temperature	Departure Degrees	Extreme High	Extreme Low
Pittsburgh	75.0	+2.4	90 on July 2 & 20	56 on July 1 & 24

	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:

Today	Tonight	Thursday	Thursday Night	Friday	Friday Night	Saturday	Saturday Night	Sunday
								
Patchy Fog then Isolated T-storms	Partly Cloudy	Isolated Showers then Chance T-storms	Chance T-storms then Slight Chance Showers	Slight Chance Showers then Slight Chance T-storms	Slight Chance T-storms then Slight Chance Showers	Mostly Sunny	Mostly Cloudy	Chance Showers then Chance T-storms
High: 81 °F	Low: 65 °F	High: 81 °F	Low: 65 °F	High: 82 °F	Low: 66 °F	High: 87 °F	Low: 69 °F	High: 89 °F

8-14 Day Outlook... Above normal temperatures and precipitation projected.

Sep-Oct-Nov Outlook... Temperatures will be slightly above normal with near normal precip. Signals are not very strong one way or the other. Again, will need to watch tropical development.

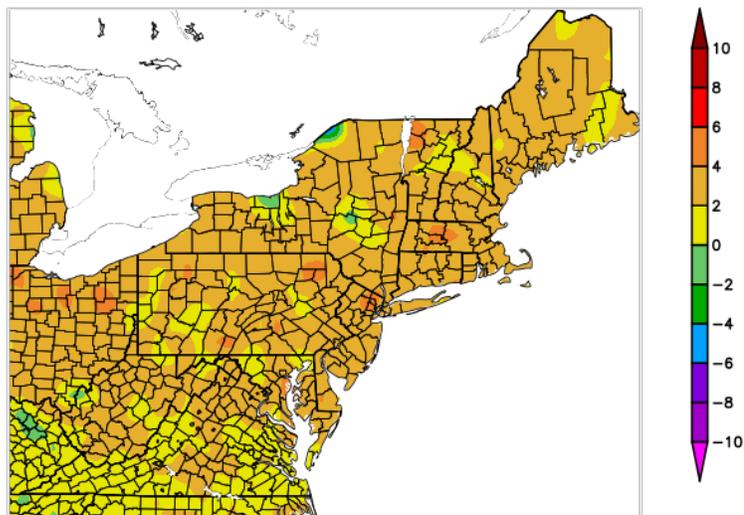
Dec-Jan-Feb Outlook... Low confidence – near normal temperatures and precip.

Average Yearly precipitation Pittsburgh: 38.19 inches. **In 2019: 33.73" (+8.97)**

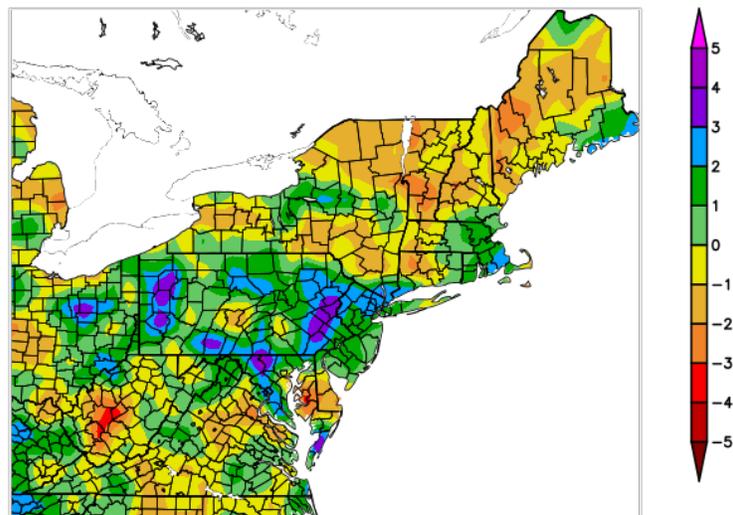
Totals for: **2018: 57.83" (+19.64);** 2017: 42.15"; 2016: 35.01"; 2015: 40.56"; 2014: 36.84"; 2013: 36.65"; 2012: 41.74"

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)
7/1/2019 – 7/31/2019



Departure from Normal Precipitation (in)
7/1/2019 – 7/31/2019

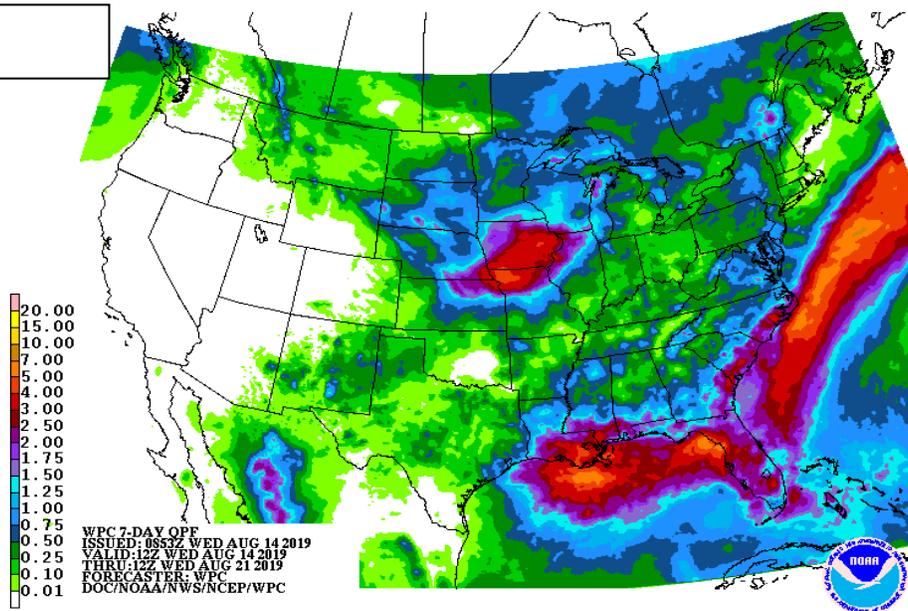


Generated 8/10/2019 at HPRCC using provisional data.

NOAA Regional Climate Centers 3/10/2019 at HPRCC using provisional data.

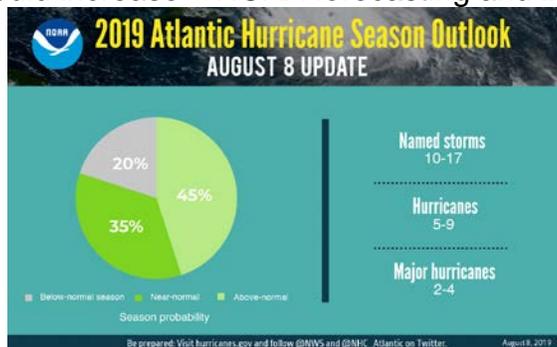
NOAA Regional Climate Centers

7 Day rain forecast



We are now back to ENSO Neutral conditions (El Niño has ended) with projections it will continue through the winter.

- Atlantic tropical development could increase – NOAA forecasting and increased likelihood.



- Will need to watch other upper level patterns for indication on how this will play out for our winter. Broad ridge over Greenland, high pressure over Alaska, etc.