

# RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 09/12/2018  
National Weather Service Forecast Office, Pittsburgh PA

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

## WEATHER RECAP

August was not nearly as active as late June and July, though some flash flooding occurred due to rounds of thunderstorms on the 5th, 10th, 13th, 17th, 21st and the 29th. As a result, rainfall ranged from 1-2 inches above normal area-wide. Temperatures were just slightly above normal as well, though there were only three days above 90 in the month, which is right around average. No river flooding occurred

## OUTLOOK

**Rest of the week of the 10th:** Widely scattered showers are possible over the next few days on the western periphery of a strengthening high pressure system over the Atlantic. Rainfall amounts appear to be minimal with the shower coverage expected across much of the region. Slightly higher amounts may be possible along the terrain in WV/PA. Hurricane Florence will make landfall Friday. After this time, models continue to struggle with the eventual path, though at this time it appears the heaviest rain will remain south of the area. This will need to be monitored through the weekend.

**Outlook for week of September 17:** Fast, westerly flow will result in near average temperatures and slightly above normal precipitation. 1-2 inches of rain are possible.

**Outlook for week of September 24:** Weak ridging may set up across the Continental US. Temperatures will run near normal. Chances for rain will remain near or above average.

**Outlook for October:** Pending any tropical systems, near normal temperatures and precipitation are forecast.

**Outlook for November:** Dry conditions, precipitation may be below normal. Near normal temperatures.

**Outlook for December:** Latest long range models indicate above average precipitation over west and central PA and near normal temperatures.

## HIGH WATER POTENTIAL

The high water potential is enhanced as a result of the heavy rain that occurred Sept 8-10<sup>th</sup> as a result of the remnants of Gordon. As little as an inch or two in a 6 hour period could result in problems as flows remain high through next week.

<i>Location</i>	<i>August 2018 Precipitation</i>	<i>Departure (Inches)</i>
<b>Pittsburgh</b>	4.53	+1.05

<i>Location</i>	<i>August Average Temperature</i>	<i>Departure Degrees</i>	<i>Extreme High</i>	<i>Extreme Low</i>
<b>Pittsburgh</b>	72.9	+1.4	92 on Aug 28/29	52 on Aug 23/24

	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

Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night	Saturday
						
Chance Showers	Chance Showers	Chance Showers	Mostly Cloudy	Partly Sunny	Mostly Cloudy	Partly Sunny
High: 77 °F	Low: 67 °F	High: 81 °F	Low: 70 °F	High: 83 °F	Low: 68 °F	High: 81 °F

**8-14 Day Outlook...** Temperatures will be near normal with above average precipitation possible.

**Oct-Nov -Dec Outlook...**No strong signals. Appears that it will be a rather normal fall with seasonally appropriate precipitation. Could be a dry November.

**Dec-Jan-Feb (Winter Outlook)...** El Niño watch issued. Current conditions are neutral. We were neutral this time last year and sea surface temperatures may indicate the El Niño may not be as strong. At this time it's best to run with near

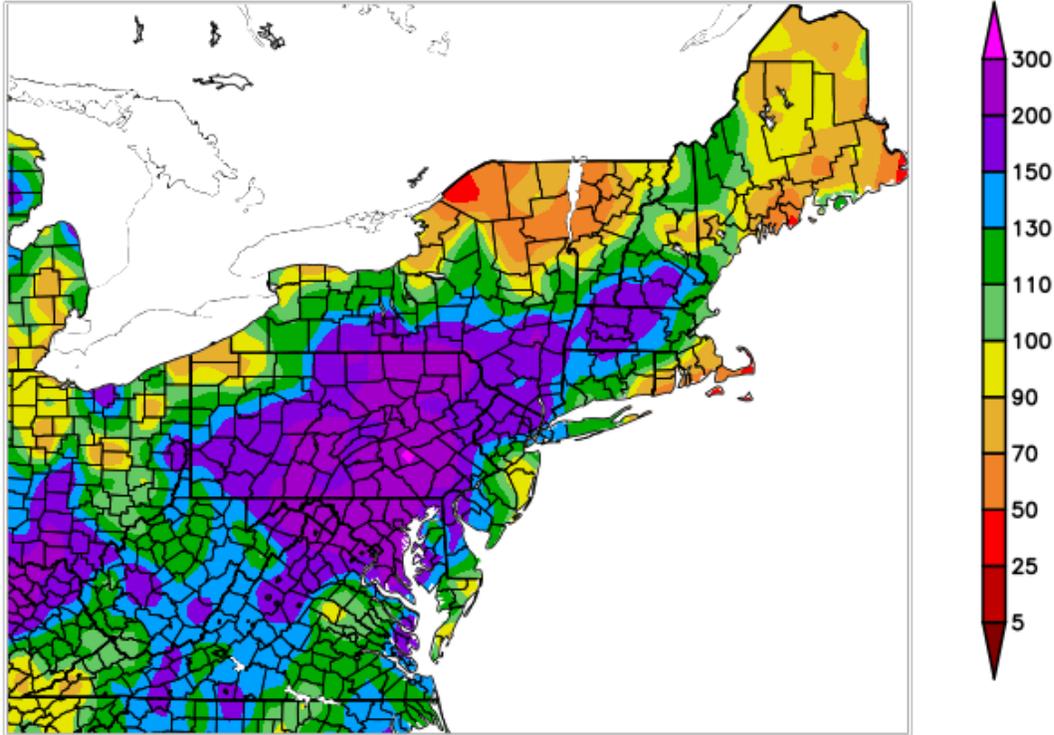
normal snowfall and slightly above average temperatures.

**Average Yearly rainfall Pittsburgh:** 38.19 inches **In 2017:** 42.15(+3.96) **So Far in 2018:** 41.76 (+13.96)

Totals for: 2016: 35.01; 2015:40.56 2014: 36.84 2013: 36.65 inches; 2012: 41.74 inches; 2011: 44.24 inches

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

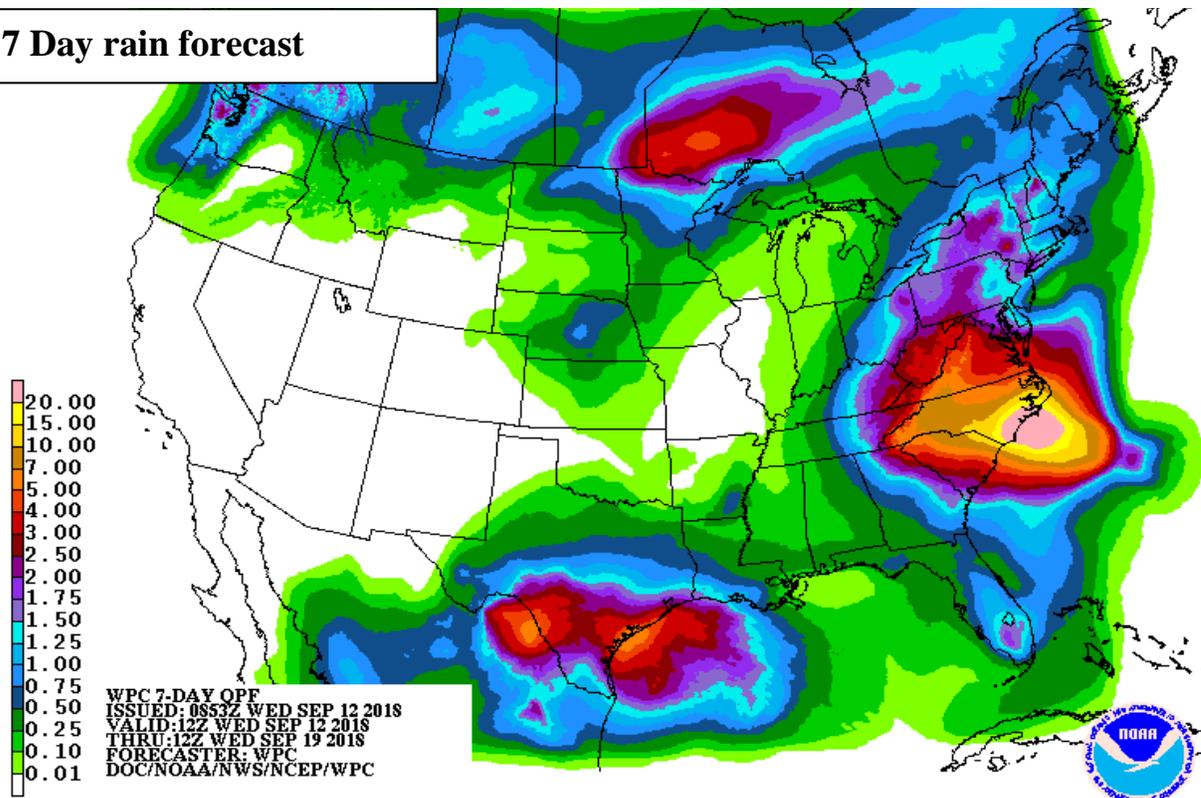
## Percent of Normal Precipitation (%) 7/1/2018 – 9/10/2018



Generated 9/11/2018 at HPRCC using provisional data.

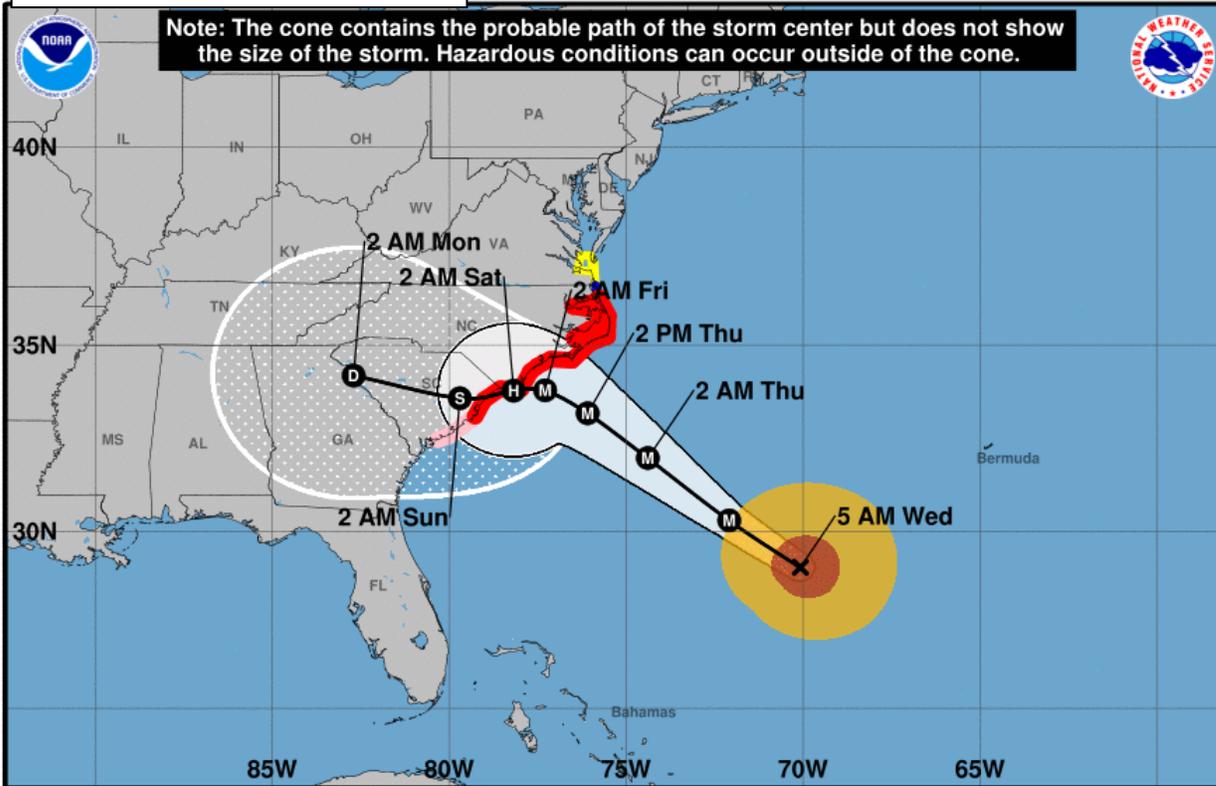
NOAA Regional Climate Centers

### 7 Day rain forecast



# Florence Path forecast

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



**Hurricane Florence**  
 Wednesday September 12, 2018  
 5 AM EDT Advisory 52  
 NWS National Hurricane Center

**Current information: x**  
 Center location 29.0 N 70.1 W  
 Maximum sustained wind 130 mph  
 Movement WNW at 17 mph

**Forecast positions:**  
 ● Tropical Cyclone ○ Post/Potential TC  
 Sustained winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110 mph

<b>Potential track area:</b> Day 1-3 Day 4-5	<b>Watches:</b> Hurricane Trop Stm	<b>Warnings:</b> Hurricane Trop Stm	<b>Current wind extent:</b> Hurricane Trop Stm
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