

RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 12/13/2017
National Weather Service Forecast Office, Pittsburgh PA

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

WEATHER RECAP

November was once again a month that averaged below normal for temperature, albeit only slightly. This is the second month of 2017 that averaged below normal, with August being the other month. Precipitation ran well above normal due to two events – one around the 6-7th of November and the second on the 18-19th. At Pittsburgh, we were just about an inch above average precipitation however; northern PA and eastern OH averaged 1.5-3.0 inches above normal.

OUTLOOK

Week of Dec 11th: Cold continues. Several fast-moving storm systems will bring the chance for snow showers and lake-effect snow. Warm up anticipated this weekend. Precipitation under 0.75 inches.

Outlook for week of Dec 18: Temperatures will return to near normal but will be short-lived as cold returns for the latter half of the week. Precipitation ~1.00

Outlook for week of Dec 25: Below normal temperature. Could be a white Christmas. Last one in 2010.

Outlook for January: Closer to normal temperatures and above average precipitation.

Outlook for February: Warming temperatures. Above average precipitation.

HIGH WATER POTENTIAL

Flows have returned to normal after an above-average month of November. Precipitation is expected to be near normal for the next couple of weeks. A minimum of 1.75 inch basin wide rainfall in 6 to 12 hours is needed to bring rivers to bank full.










<i>Location</i>	<i>Nov 2017 Precipitation</i>	<i>Departure (Inches)</i>
<i>Pittsburgh</i>	4.15	+0.92

<i>Location</i>	<i>Nov Average Temperature</i>	<i>Departure Degrees</i>	<i>Extreme High</i>	<i>Extreme Low</i>
<i>Pittsburgh</i>	42.0	-0.9	70 on Nov 05	17 on Nov 11

	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

WEATHER FORECAST

Extended Forecast for Pittsburgh PA

Today	Tonight	Thursday	Thursday Night	Friday	Friday Night	Saturday	Saturday Night	Sunday
								
60%	80%	30%		20%	30%			40% 40%
Partly Sunny then Snow Likely	Snow	Chance Snow Showers then Partly Sunny	Mostly Cloudy	Cloudy then Slight Chance Snow Showers	Chance Snow Showers	Partly Sunny	Mostly Cloudy	Chance Rain/Snow then Chance Showers
High: 25 °F	Low: 22 °F	High: 28 °F	Low: 16 °F	High: 29 °F	Low: 23 °F	High: 33 °F	Low: 23 °F	High: 41 °F

8-14 Day Outlook... Temperatures below average. Above normal precipitation.

30 Day Outlook... Temperatures slightly below average returning to normal. Above normal precipitation continues.

Feb-Mar-Apr Outlook... Stormy with above normal precipitation.

Apr-May-Jun Outlook... Continued active pattern with above normal precipitation . Temperatures begin to trend above normal

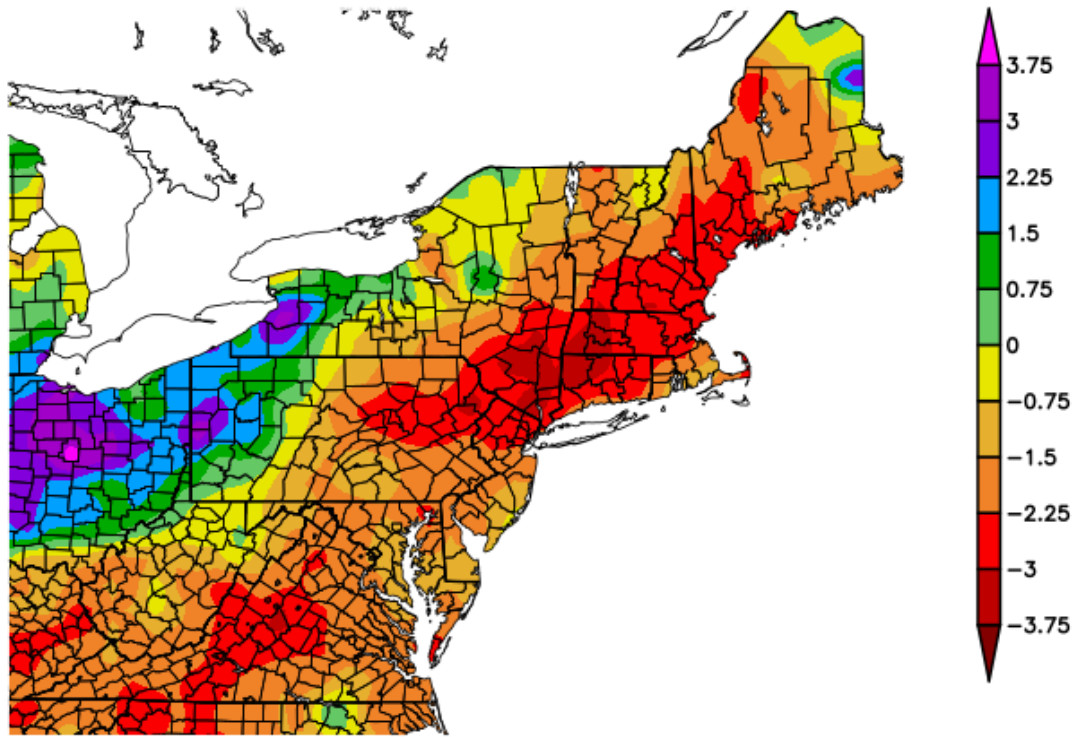
Average Yearly rainfall Pittsburgh: 38.19 inches **So far in 2017:** 40.89(+4.38)

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. **So far for 2017-18:** 2.9(-0.1); 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

Departure from Normal Precipitation (in)

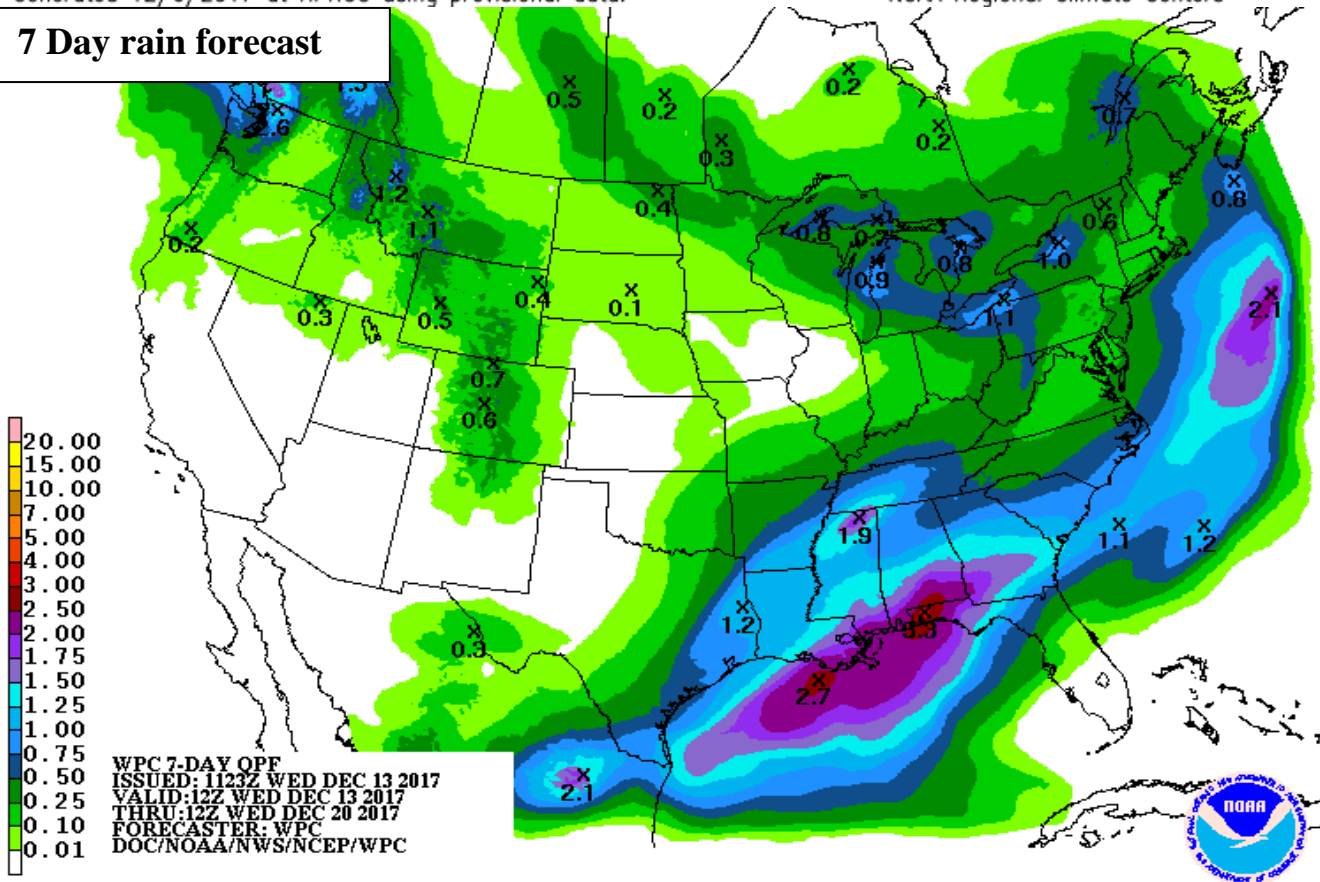
11/1/2017 - 11/30/2017



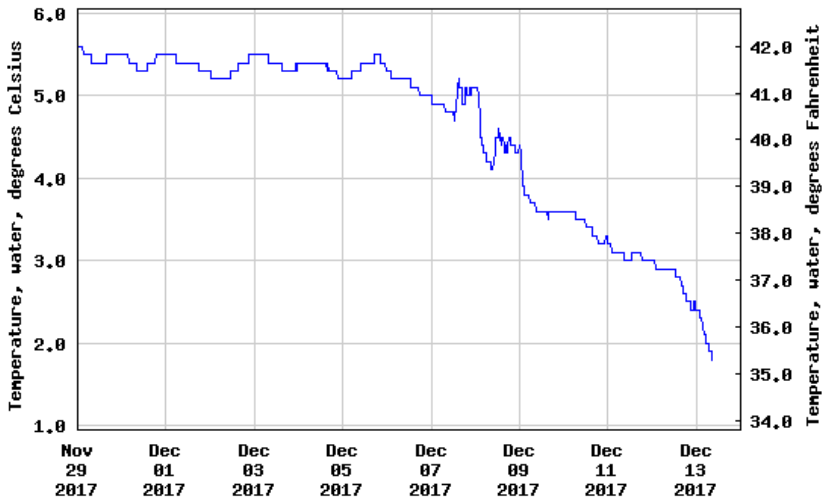
Generated 12/6/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

7 Day rain forecast



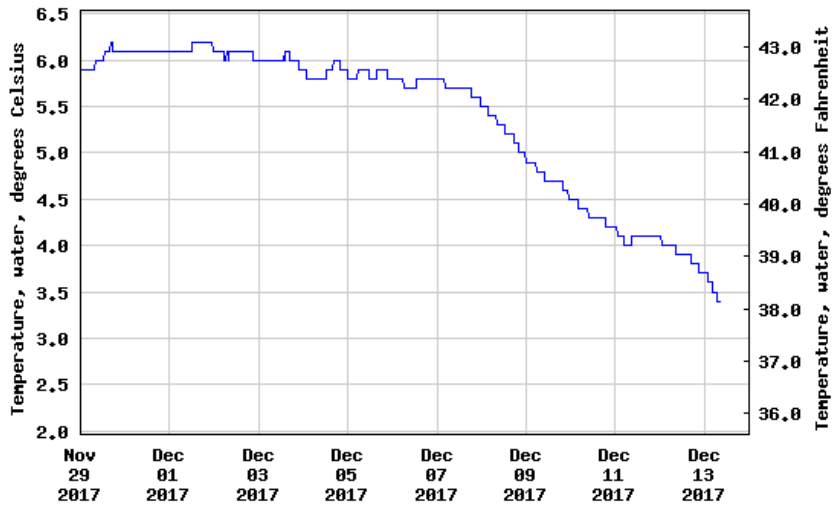
USGS 03049640 Allegheny R at CM Bill Young L&D at Acmetonia, PA



----- Provisional Data Subject to Revision -----

Graph courtesy of the U.S. Geological Survey

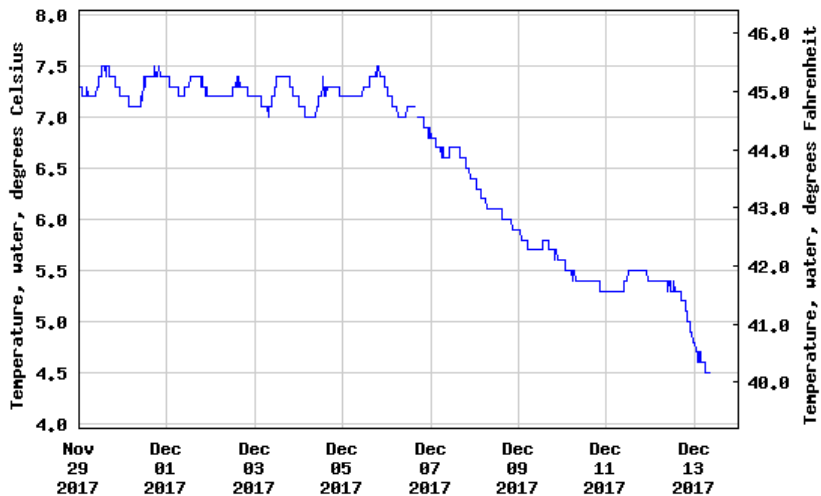
USGS 03108490 Ohio R ab Montgomery Dam & Locks at Ohioview, PA



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Graph courtesy of the U.S. Geological Survey

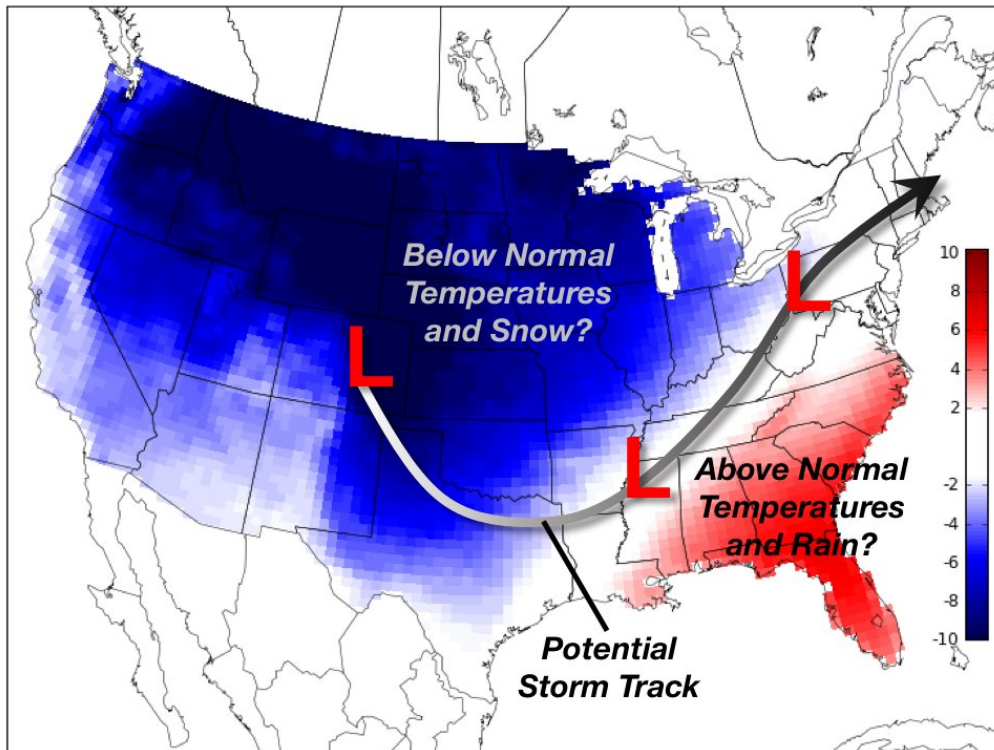
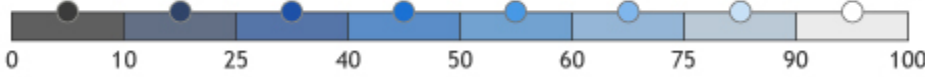
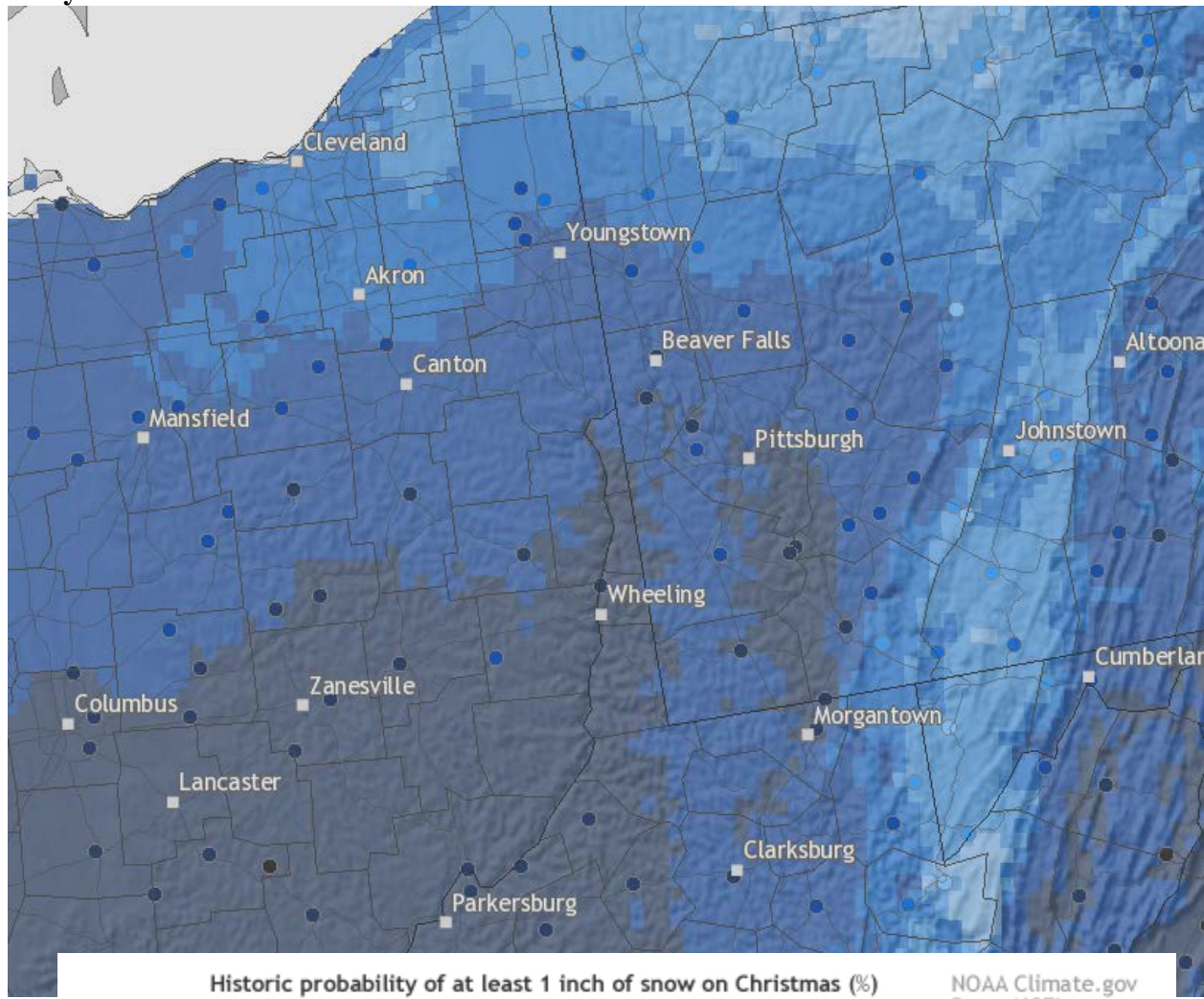
USGS 394337079544201 MONONGAHELA RIVER AT POINT MARION, PA



----- Provisional Data Subject to Revision -----

Graph courtesy of the U.S. Geological Survey

Historic Probability of White Christmas (1 inch of new snow) – 10-30% for Pittsburgh. Odds actually look better this year.



12-14 Day Average 2 m Temperature Anomaly of 105 Analogs Based on the Top 5 Analogs from each GEFS member and valid from 20171223/0000 to 20171225/0000