

RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 02/8/2017
National Weather Service Forecast Office, Pittsburgh PA

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

WEATHER RECAP

January 2017 was much warmer than normal and wetter than normal. The average temperature was 6.2 degrees above normal and precipitation was 0.84 inches above normal. Snow cover was very minimal for January.

OUTLOOK

Rest of Week: Snow likely Wed night/Thu. Cold Friday then warming up by Sunday with rain. Colder by Monday.

Week of Feb 13: Colder than normal. Snow/Rain Thursday. Precipitation about 1.0 inch.

Week of Feb 20: Rain early week, then turning to snow. Rain followed by snow late week.

Outlook for rest of February: Continued large swings in temperatures. But cold blasts expected to be stronger and last longer. Snowfall above average.

Outlook March: Above normal snow fall and below normal temperatures.

Outlook April: Above normal precipitation and cooler than normal temperatures.

Outlook for Spring: A wet spring. Perhaps one of the top 25 wettest springs.

HIGH WATER POTENTIAL






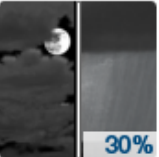

High water potential is above normal. Uncertainly over the next several weeks of how much rain versus snow we will get. A minimum of 1.50 inch basin wide rainfall in 6 to 12 hours is needed to bring rivers to bank full. Total precipitation through the last week of February should average about 3 inches which is above normal.

<i>Location</i>	<i>Jan 2017 Precipitation</i>	<i>Departure (Inches)</i>	<i>Jan Snowfall</i>	<i>Seasonal Snowfall</i>
<i>Pittsburgh</i>	3.54	+0.84	7.5 (-4.3)	15.6(-6.9)

<i>Location</i>	<i>Jan Average Temperature</i>	<i>Departure Degrees</i>	<i>Extreme High</i>	<i>Extreme Low</i>
<i>Pittsburgh</i>	34.5	+6.2	66 Jan 12	4 Jan 9

	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

Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night	Saturday
						
20% → 70%	60% 60%	40%	30%		30%	30%
Slight Chance Showers then Showers Likely	Rain/Snow Likely then Snow Showers Likely	Chance Snow Showers	Chance Snow Showers	Partly Sunny	Mostly Cloudy then Chance Showers	Chance Showers
High: 45 °F ↓	Low: 26 °F	High: 28 °F	Low: 16 °F	High: 35 °F	Low: 30 °F	High: 50 °F

8-14 Day Outlook... Stormy. Swings in temperatures, with frequent storm systems bringing rain followed by snow.

30 Day Outlook... Frequent storm systems with large swings in temperatures and above normal precipitation.

Mar-Apr-May Outlook... Precipitation perhaps one of the top 25 wettest for total precipitation. Above normal snowfall early.

May-Jun-Jul Outlook... Wetter/Colder than normal to start then sudden switch warmer temperatures.

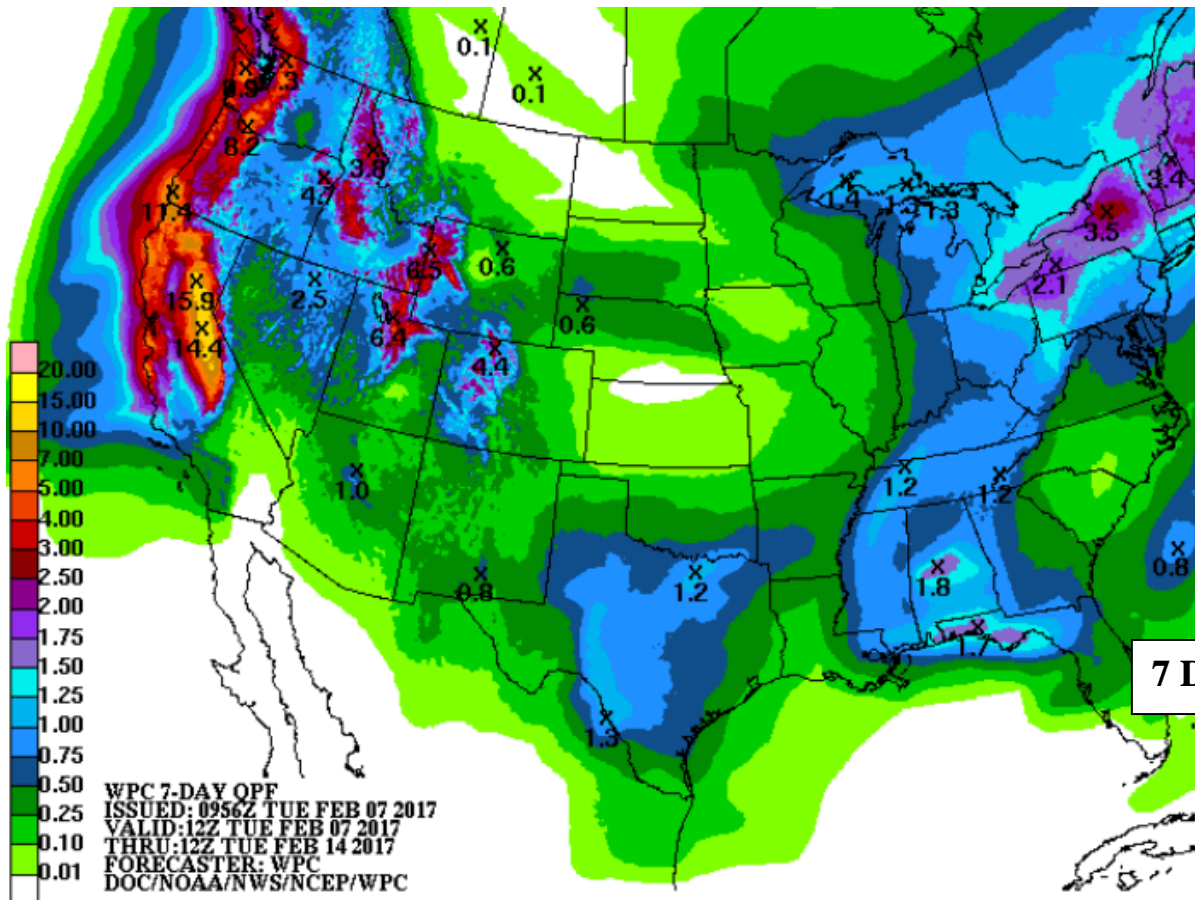
Jul-Aug-Sep Outlook... Normal temperatures and normal precipitation. Very good chance for an active tropical season.

Average Yearly rainfall Pittsburgh: 38.19 inches **So far in 2017:** 3.85 (+0.54)

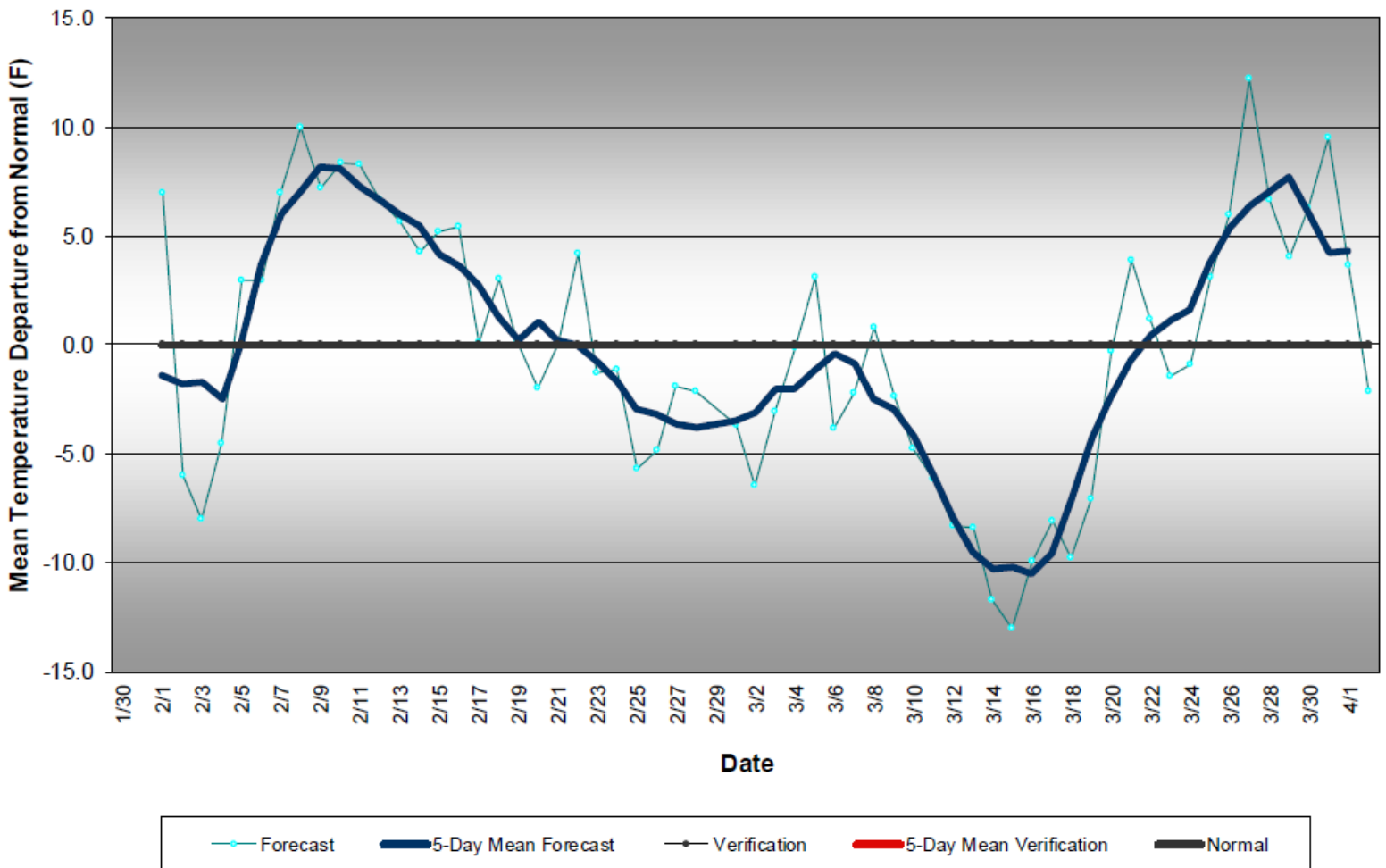
Totals for: 2016: 35.01 in 2015: 40.56 in 2014: 36.84 in 2013: 36.65 in; 2012: 41.74 in; 2011: 44.24 in; 2010: 37.85 in

Average Yearly snowfall Pittsburgh: 41.9 inches 2015-16 season: 29.6 inches (-12.3) **So far 2016-17:** 15.9(-9.2)

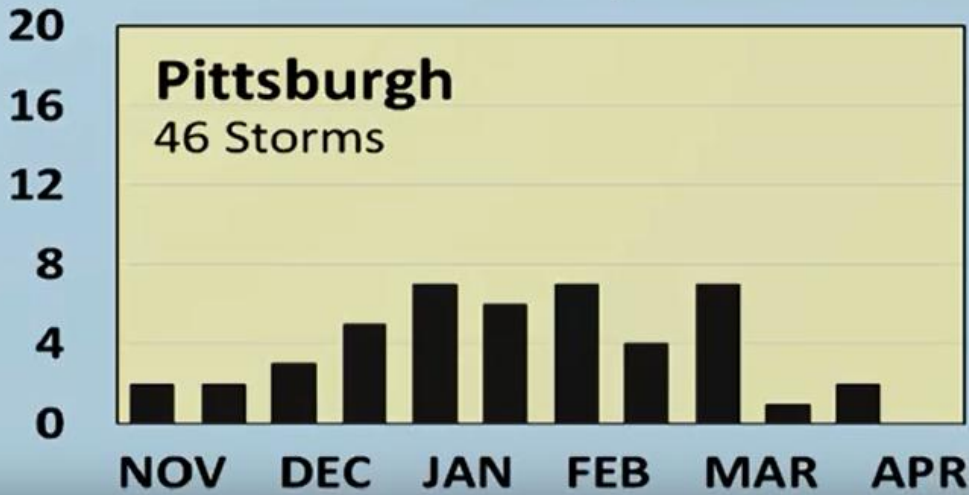
2014-15: 47.2 in 2013-14: 63.4 in; 2012-13: 57 in; 2011-12: 37 in; 2010-11: 57 in; 2009-10: 77 in



Western Pennsylvania Temperature Forecast
 February - March 2017



10"+ Snowstorms by Half-Month

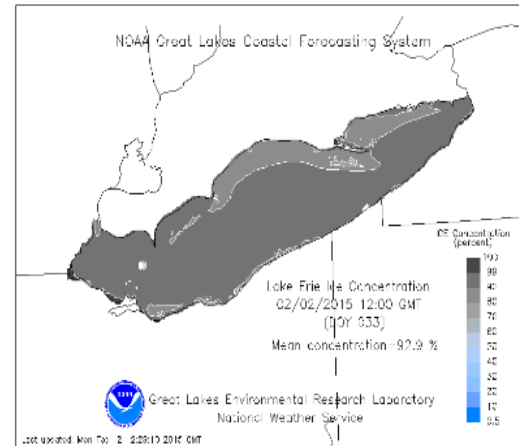
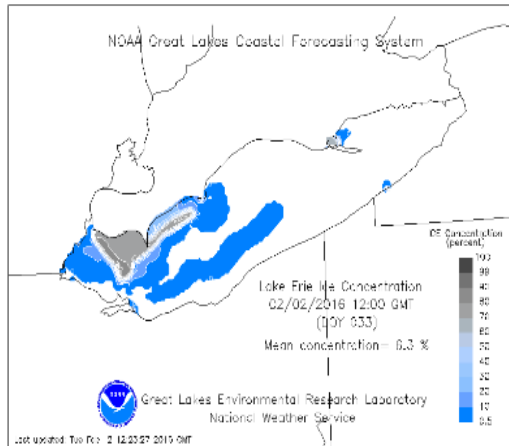
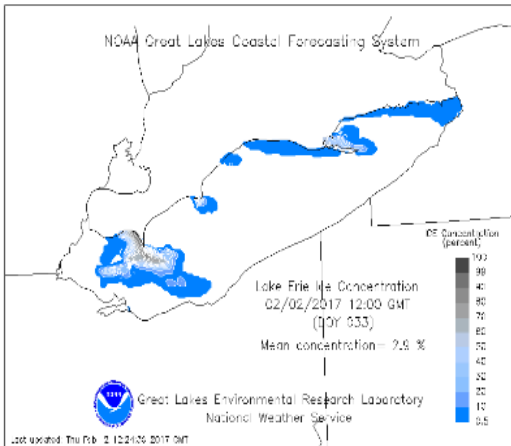


Lake Erie Ice coverage vs last 2 years

2017

2016

2015



Mean Lake Erie Surface Temp = 33.7 F
Mean Lake Erie Whole Volume Temp = 34.2 F

Mean Lake Erie Surface Temp = 34.1 F
Mean Lake Erie Whole Volume Temp = 34.8 F

Mean Lake Erie Surface Temp = 32.3 F
Mean Lake Erie Whole Volume Temp = 33.0 F

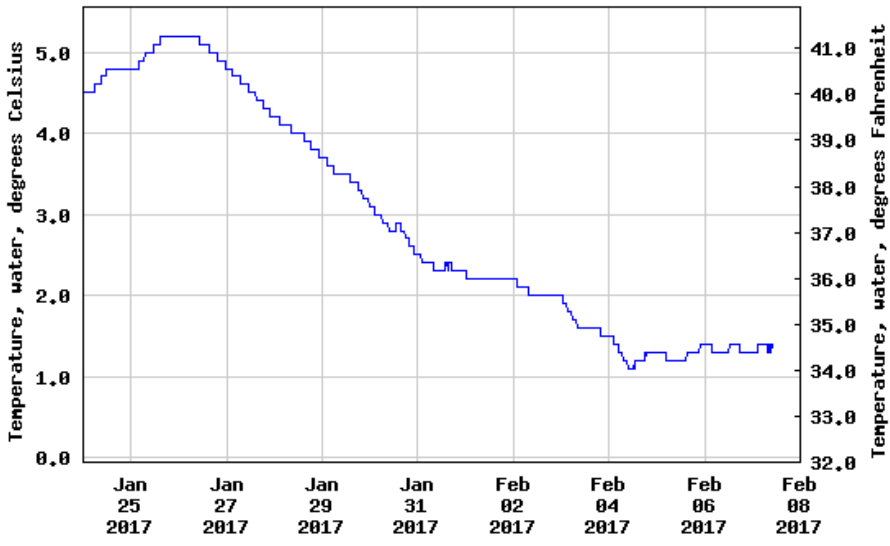
FEB-APR PENNSYLVANIA PRECIPITATION

AFTER YEARS WITH A BIG GLOBAL TEMPERATURE DROP

- | | | | |
|---------|----------------|----------|----------------|
| 1. 1993 | 12th Wettest * | 9. 1991 | 44th Driest |
| 2. 1994 | 4th Driest | 10. 1985 | 65th Driest |
| 3. 1974 | 50th Wettest | 11. 1999 | 32nd Wettest |
| 4. 2001 | 54th Driest | 12. 1908 | 5th Wettest * |
| 5. 1960 | 9th Wettest * | 13. 1907 | 6th Wettest * |
| 6. 1951 | 16th Wettest | 14. 1954 | 33rd Wettest |
| 7. 1989 | 21st Driest | 15. 1982 | 11th Wettest * |
| 8. 1976 | 28th Wettest | | |

Typically after a strong El Nino has ended, Pennsylvania sees a much wetter than normal spring.

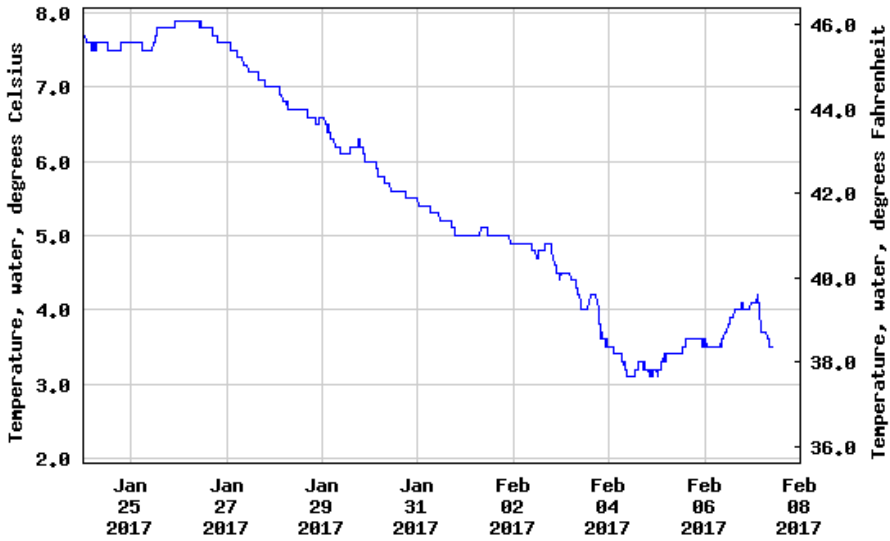
USGS 03049640 Allegheny R at CW Bill Young L&D at Acmetonia, PA



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

Graph courtesy of the U.S. Geological Survey

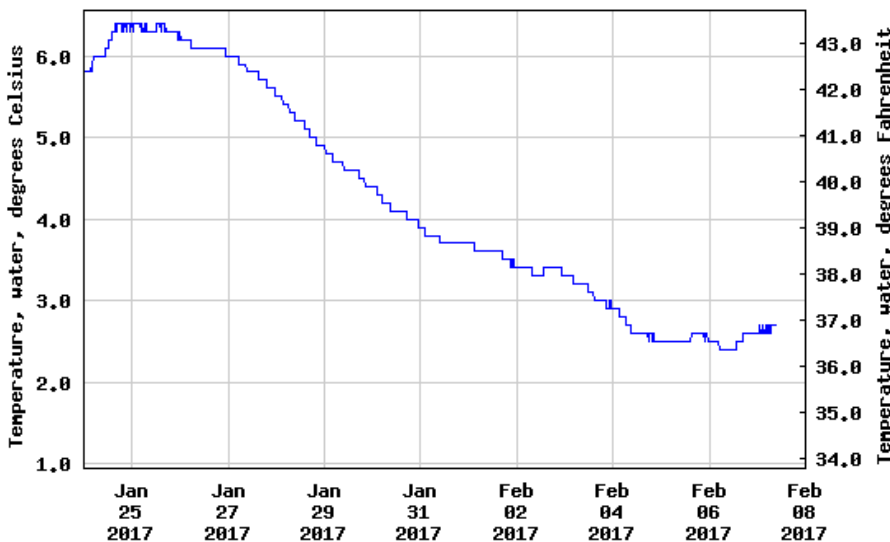
USGS 03072655 Monongahela River near Masontown, PA



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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

Oil City and Franklin Ice Web Cams Operational and Available at:

<http://www.weather.gov/pbz/rivertemps>