RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 6/11/2014
National Weather Service Forecast Office, Pittsburgh PA
For the latest river and weather forecasts--http://www.weather.gov/pittsburgh

WEATHER RECAP

During May 2014, both temperatures and precipitation were above normal. In Pittsburgh the maximum temperature for April was 87 degrees. The minimum temperature was 35 degrees. The average temperature was 62.0 degrees which is 1.9 degrees above the normal average temperature of 60.1 degrees. A total of 4.32 inches of precipitation fell during May 2014 which is 0.37 inches above the normal amount of 3.95 inches.

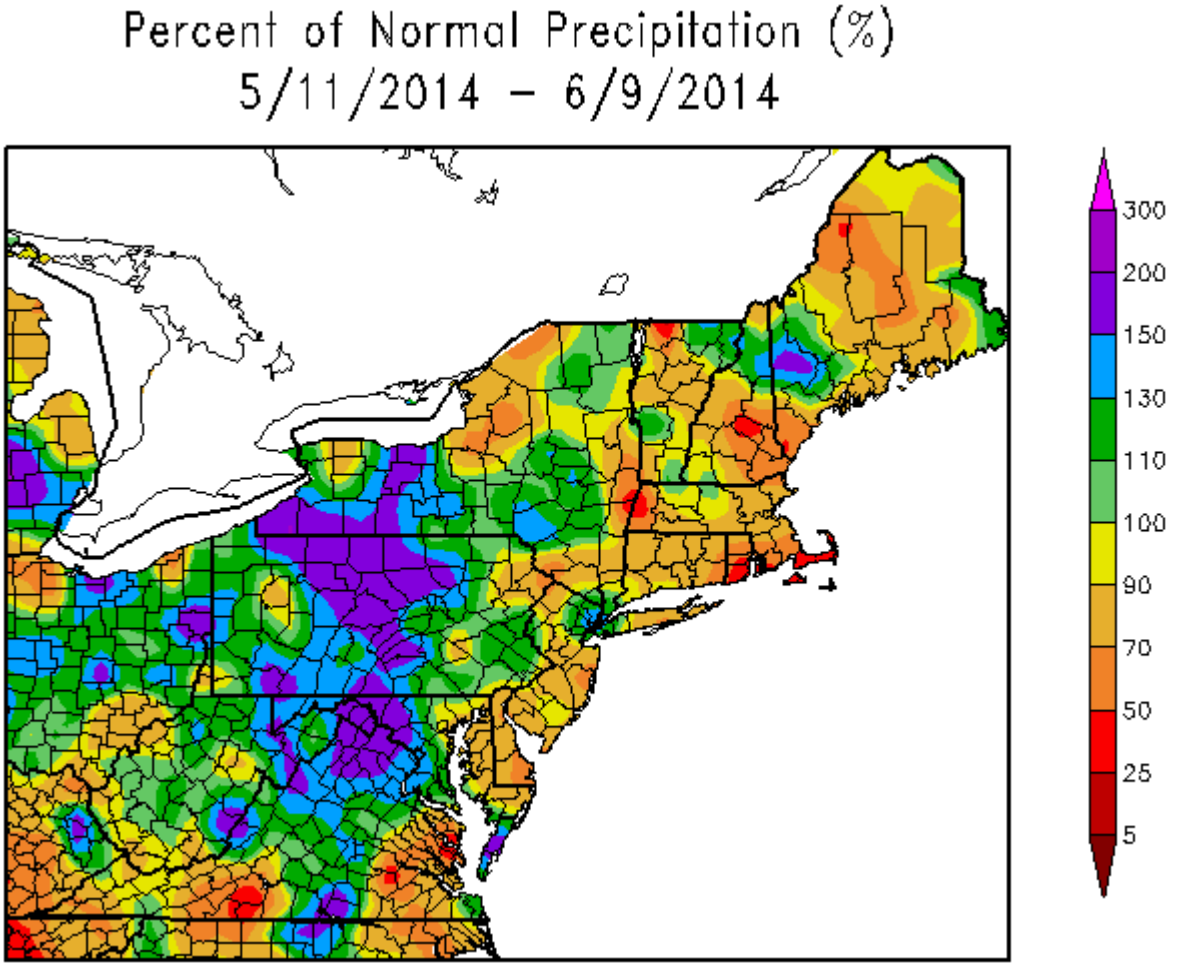
The first week of May 2014 brought 2 to 4 inches of rain across eastern Ohio with minor flooding in the Muskingum River basin. On May 16, heavy rains of 2 to 3 inches fell during over the Conemaugh River and Loyalhanna Creek causing minor flooding. On May 20-21 heavy thunderstorms brought 3 to 4 inches of rain in 6 hours over parts of the Clarion River causing major flooding along the Clarion River. Major flooding occurred at Cooksburg, PA with record flooding at Ridgeway, PA on May 21. On May 27-28, thunderstorms with heavy rains fell over the Pittsburgh Metro area causing flooding of streams and creeks and flooding many roadways.

Location	*May 2014 Precipitation*	*Departure (Inches)*
Pittsburgh	4.32	+0.37

Location	*May Average Temperature*	*Departure degrees*	*Extreme High*	*Extreme Low*
Pittsburgh	62.0	+1.9	87(May 13)	35(May 5)

RIVER CONDITIONS

The last 30 days was a wet period…with over 8 inches falling in the headwaters of the Allegheny River. River flows remained above normal for the month with the Allegheny and Ohio Rivers being the rivers with the highest flows and velocities during the month.



HIGH WATER POTENTIAL

Flows on the Allegheny and Ohio near 100% of normal for this time of the year, and the Monongahela River 60% of normal.
A minimum of 2.00 inches basin wide rainfall in 6 to 12 hours is needed to bring rivers to bank full. High water potential is near normal over the next 30 days.

OUTLOOK

Above normal precipitation and near normal temperatures are expected through much of June. The storm track will remain active with cold fronts bringing several days of thunderstorms followed by several days of dry weather. The dog days of summer are not on the horizon.

WEATHER FORECAST

TODAY	TONIGHT	THURSDAY	THURSDAY NIGHT	FRIDAY	FRIDAY NIGHT	SATURDAY	SATURDAY NIGHT	SUNDAY
								
Chance Thunderstorms	Thunderstorms Likely	Thunderstorms Likely	Chance Thunderstorms	Chance Thunderstorms	Partly Cloudy	Mostly Sunny	Partly Cloudy	Mostly Sunny
High: 79 °F	Low: 66 °F	High: 80 °F	Low: 63 °F	High: 78 °F	Low: 56 °F	High: 78 °F	Low: 57 °F	High: 80 °F

8-14 Day Outlook… Below normal temperatures and above normal precipitation.
30 Day Outlook... Near normal temperatures and above normal precipitation.
Jun-Jul-Aug Outlook…Normal temperatures and normal precipitation
Aug-Sep-Oct Outlook… Near normal temperatures and normal precipitation
Oct-Nov-Dec Outlook… Above normal temperatures and normal precipitation

Average Yearly rainfall Pittsburgh: 38.19 inches **So far in 2014:**15.57 (-0.96)
Totals for: 2013: 36.65 inches ;2012: 41.74 inches; 2011: 44.24 inches; 2010: 37.85 inches

RESERVOIR	FLOOD STORAGE CAPACITY USED	POOL ELEVATIONS (NAVD88) MINIMUM POOL	WINTER MAX POOL	SUMMER MAX POOL	FULL POOL	ACTUAL FOR TODAY 7AM POOL ELEV	7AM OUTFLOW CFS
Allegheny	1%	1239.5	1306.5	1327.5	1364.5	1328.15	1350
Tionesta	2%	1084.6			1169.6	1089.35	390
Union City	0%	1209.7			1277.7	1215.58	125
Woodcock	2%	1161.9	1164.9	1180.4	1208.4	1181.09	53
East Branch	0%	1554.8	1622.8	1649.8	1684.8	1649.74	72
Mahoning	1%	1074.2		1097.1	1161.1	1099.80	470
Crooked Creek	4%	837.4			917.4	846.18	570
Conemaugh	3%	899.2			974.2	906.82	2200
Loyalhanna	3%	909.5			974.5	922.66	530
Stonewall Jackson	1%	1037.3	1067.5	1072.5	1081.3	1072.65	43
Tygart	2%	1009.5	1039.5	1093.5	1166.5	1095.30	1030
Yough	3%	1343.4	1418.4	1438.4	1469.4	1439.46	500
Michael J. Kirwan	0%	950.6	980.6	985.1	992.6	984.86	71
Berlin	2%	979.3	1015.9	1024.0	1031.3	1024.17	140
Lake Milton	19%	929.4	939.4	947.4	950.4	948.03	185
Mosquito	0%	880.3	899.2	900.7	903.3	900.62	15
Shenango	1%	883.7	886.7	894.7	917.7	895.15	290

FLOOD STORAGE USED	
District-wide	1.8%
Allegheny Basin	1.8%
Monongahela Basin	2.2%
Beaver Basin	1.5%

El Niño Watch: Issued when conditions are favorable for the development of El Niño conditions within the next six months. Over the last month, the chance of El Niño and its ultimate strength weakened. Regardless, the forecasters remain just as confident that El Niño is likely to emerge.

- El Niño could also lead to fewer storms during the Atlantic hurricane season
- El Niños bring rains to California
- Strong El Niños tend to bring mild and wetter winters with little snowfall in the East.
- Weak to moderate El Niños tend to be more favorable for snow in the East.