RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 7/9/2014
National Weather Service Forecast Office, Pittsburgh PA
For the latest river and weather forecasts--http://www.weather.gov/pittsburgh

WEATHER RECAP

During June 2014, temperatures were above normal and rainfall averaged near or slightly below normal from Pittsburgh and areas south, but well above normal for the Allegheny River Basin. In Pittsburgh the maximum temperature for the June was 89 degrees. The minimum temperature was 48. The average temperature was 70.6 degrees which is 1.9 degrees above the normal average of 68.7 degrees. A total of 4.05 inches of precipitation fell during the period which is 0.25 inches below the normal amount of 4.30 inches. There were 13 days when greater than or equal to 0.01 inches of rain fell. 0.10 inches of rain or greater fell on 9 days. 0.50 inches of rain or greater were observed on 3 days. There were no calendar days with rainfall greater than or equal to 1.00 inches. The maximum 24 hour rain was 1.03 inches between June 24th and 25th . The average daily rain for June was 0.14 inches.

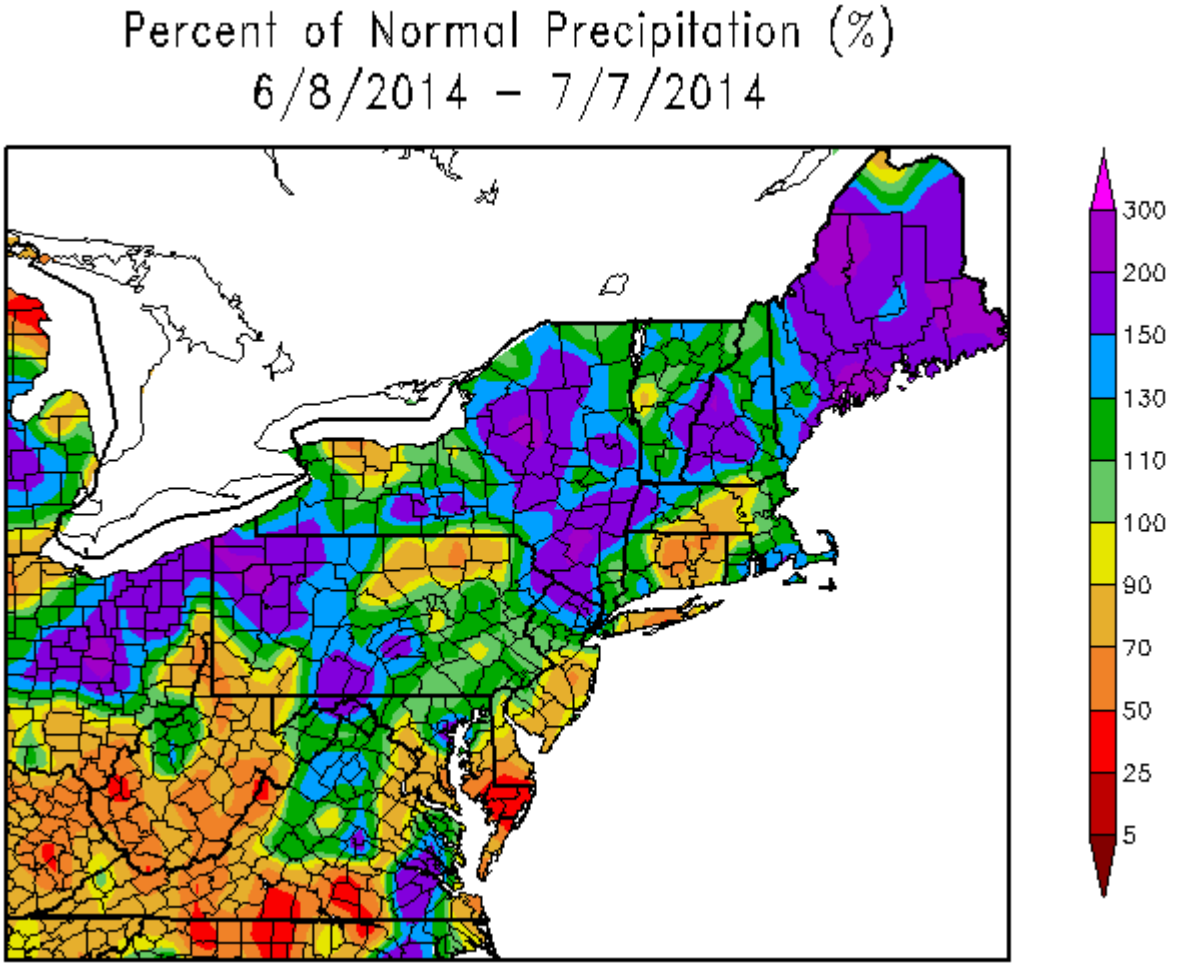
June was a wet month across the northern half of the hydrologic service area with many areas along the I-80 corridor receiving between 200% and 300 % of normal rainfall. During the month over 9 inches of rain fell in the headwaters of the Allegheny River. The first week of June 2014 was relatively dry but June 12th and 13th brought 2 to 4 inches of rain across Venango, Clarion, and Forest counties of Pennsylvania with another round in the same general areas on June 18th and 19th and again on June 24th and 25th. On June 28th and 29th slow moving thunderstorms were scattered about in many areas but caused roadway and stream flooding in the Pittsburgh Metropolitan area.

Location	*Jun 2014 Precipitation*	*Departure (Inches)*
Pittsburgh	4.05	-0.25

Location	*Jun Average Temperature*	*Departure degrees*	*Extreme High*	*Extreme Low*
Pittsburgh	70.6	+1.9	89(Jun 17)	48(Jun 6)

RIVER CONDITIONS

River flows and velocities remained well above normal for the Allegheny and Ohio Rivers with flows between 200% and 300% of normal for June and below normal flows and velocities on the Monongahela River where flows were about 60% of normal for June.



HIGH WATER POTENTIAL

A minimum of 2.50 to 3.00 inches basin wide rainfall in 6 to 12 hours is needed to bring rivers to bank full. High water potential is below normal over the next 30 days.

OUTLOOK

Normal precipitation and near to above normal temperatures are expected through much of July. So far we have not reached 90 degrees at all in 2014. The Bermuda High is not a strong as a normal July so far…which means the storm track will remain active with occasional cold fronts bringing several days of thunderstorms followed by several days of dry weather. The lazy hazy dog days of summer are still not on the horizon till late July. 3.00 to 4.00 inches of rain is expected through July 27 which is normal.

WEATHER FORECAST

WEDNESDAY	WEDNESDAY NIGHT	THURSDAY	THURSDAY NIGHT	FRIDAY	FRIDAY NIGHT	SATURDAY
						
Chance Thunderstorms	Partly Cloudy	Mostly Sunny	Mostly Clear	Sunny	Partly Cloudy	Mostly Sunny
High: 79 °F	Low: 58 °F	High: 79 °F	Low: 58 °F	High: 82 °F	Low: 62 °F	High: 86 °F

8-14 Day Outlook… Above normal temperatures and near normal precipitation.
30 Day Outlook... Near normal temperatures and near normal precipitation.
Jul-Aug-Sep Outlook…Above normal temperatures and normal precipitation
Sep-Oct-Nov Outlook… Above normal temperatures and normal precipitation
Nov-Dec-Jan Outlook… Above normal temperatures and normal precipitation

Average Yearly rainfall Pittsburgh: 38.19 inches **So far in 2014:**19.39 (-0.90)
Totals for: 2013: 36.65 inches; 2012: 41.74 inches; 2011: 44.24 inches; 2010: 37.85 inches

DAILY RESERVOIR SUMMARY FOR: 8-Jul-14

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	1327.95	1870
Tionesta	2%	1084.6			1169.6	1089.28	650
Union City	0%	1209.7			1277.7	1218.13	235
Woodcock	1%	1161.9	1164.9	1180.4	1208.4	1180.82	15
East Branch	11%	1554.8	1622.8	1649.8	1684.8	1648.73	210
Mahoning	1%	1074.2		1097.1	1161.1	1099.14	190
Crooked Creek	2%	837.4			917.4	843.37	155
Conemaugh	1%	899.2			974.2	901.98	575
Loyalhanna	3%	909.5			974.5	922.83	135
Stonewall Jackson	0%	1037.3	1067.5	1072.5	1081.3	1071.27	115
Tygart	0%	1009.5	1039.5	1093.5	1166.5	1093.59	285
Yough	0%	1343.4	1418.4	1438.4	1469.4	1437.11	600
Michael J. Kirwan	4%	950.6	980.6	985.1	992.6	985.37	90
Berlin	14%	979.3	1015.9	1024.0	1031.3	1024.04	170
Lake Milton	16%	929.4	939.4	947.4	950.4	947.91	195
Mosquito	0%	880.3	899.2	900.7	903.3	900.74	93
Shenango	1%	883.7	886.7	894.7	917.7	894.92	290

FLOOD STORAGE USED

District-wide	1.5%
Allegheny Basin	1.5%
Monongahela Basin	0.1%
Beaver Basin	3.4%

2014 Atlantic hurricane: The season runs June 1- Nov 30. Arthur developed quickly a month after the official start of the season. Strangely there is currently no tropical activity at all in the Atlantic and none expected over the next week. Overall a normal hurricane is forecast with an average of 9 names storms.