RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 5/14/2014
National Weather Service Forecast Office, Pittsburgh PA
For the latest river and weather forecasts--http://www.weather.gov/pittsburgh

WEATHER RECAP

We ended the winter season of 2013-2014 as the 10th snowiest season on record with 63.4 inches (+22.0 inches above normal).

During April 2014, both temperatures and precipitation were above normal. In Pittsburgh the maximum temperature for April was 82 degrees. The minimum temperature was 25. The average temperature was 52.2 degrees which is 1.3 degrees above the normal average temperature of 50.9 degrees. The minimum temperature dropped below 32 degrees on 5 days month. A total of 4.47 inches of liquid equivalent precipitation fell during the period which is 1.36 inches above the normal amount of 3.11. There were 13 days with greater than or equal to 0.01 inches of liquid equivalent precipitation was observed. 0.10 inches of precipitation or greater fell on 12 days. 0.50 inches of precipitation or greater were observed on 2 days. There were no days with precipitation greater than or equal to 1.00 inches. The maximum 24 hour precipitation was 0.85 inches between April 3rd and April 4th. The average daily precipitation for the month was 0.15 inches. A total of 0.1 inches of snow fell. The normal amount of snowfall is 1.5 inches. There were 387 heating degree days in April which is 44 below the normal amount of 43. There were 10 cooling degree days which is 1 day above the normal amount of 9 days for April. The mean wind for the month was 9 miles per hour. The maximum wind was 38 miles per hour from the west and occurred on April 26. The maximum wind gust was 51 miles per hour from the west and occurred on April 4.

RIVER CONDITIONS

April was a wet month. There was wide spread rainfall over eastern Ohio of 2 to 4 inches April 29th and April 30th some minor flooding over the Muskingum and Tuscarawas River basins. River flows remained above normal for the month across the area.

Location	*Apr 2014 Precipitation*	*Departure (Inches)*	*Apr Snowfall*	*Seasonal Snowfall*
Pittsburgh	4.47	1.36	0.1 (-1.4)	63.4(+22.0)

Location	*Apr Average Temperature*	*Departure degrees*	*Extreme High*	*Extreme Low*
Pittsburgh	52.2	+1.3	82(Apr 13)	25(Apr 16)

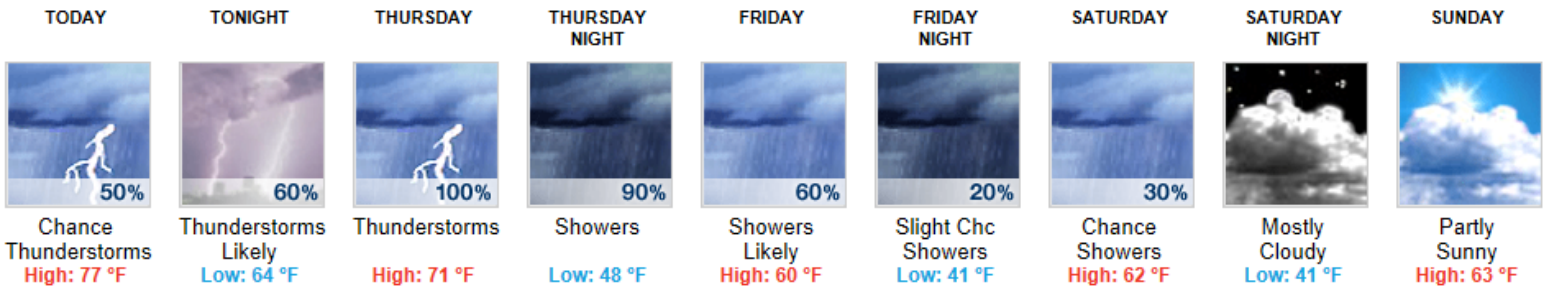
HIGH WATER POTENTIAL

Flows on the Allegheny are 160% of normal, the Monongahela 100%, and the Ohio 125% of normal. A minimum of between 1.50 to 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. Above normal precipitation and below normal temperatures are expected into early June.

OUTLOOK

The reminder of May will be wet. Look for frequent rains nearly every day through May 16, with 2 to 3 inches of rain in most areas. May 19 through May 21 is expected to be a dry period, then another rain storm May 22/23 and May 26/27. Total May rainfall is expected to reach 5 inches in many areas. There could be some frost mornings of May 19 or 20 if skies clear at night.

WEATHER FORECAST



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

Average Yearly rainfall Pittsburgh: 38.19 inches **So far in 2014:**11.88 (-0.76)
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	2%	1239.5	1306.5	1327.5	1364.5	1328.65	3850
Tionesta	3%	1084.6			1169.6	1091.86	895
Union City	1%	1209.7			1277.7	1225.23	460
Woodcock	5%	1161.9	1164.9	1180.4	1208.4	1182.40	110
East Branch	2%	1554.8	1622.8	1649.8	1684.8	1650.73	167
Mahoning	0%	1074.2		1097.1	1161.1	1083.42	240
Crooked Creek	2%	837.4			917.4	842.84	250
Conemaugh	2%	899.2			974.2	903.92	1680
Loyalhanna	3%	909.5			974.5	923.24	380
Stonewall Jackson	7%	1037.3	1067.5	1072.5	1081.3	1073.23	37
Tygart	1%	1009.5	1039.5	1093.5	1166.5	1094.54	930
Yough	7%	1343.4	1418.4	1438.4	1469.4	1440.69	700
Michael J. Kirwan	8%	950.6	980.6	985.1	992.6	985.71	34
Berlin	11%	979.3	1015.9	1024.0	1031.3	1024.96	550
Lake Milton	25%	929.4	939.4	947.4	950.4	948.19	770
Mosquito	0%	880.3	899.2	900.7	903.3	900.74	32
Shenango	1%	883.7	886.7	894.7	917.7	895.01	555

FLOOD STORAGE USED

District-wide	2.5%
Allegheny Basin	2.2%
Monongahela Basin	3.5%
Beaver Basin	3.4%

El Niño Watch: Issued when conditions are favorable for the development of El Niño conditions within the next six months

- 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.

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