

RIVER AND WEATHER CONDITIONS

Prepared for Waterways Association Meeting 7/10/2013
National Weather Service Forecast Office, Pittsburgh PA
For the latest river and weather forecasts--<http://www.weather.gov/pittsburgh>

WEATHER RECAP

June temperatures were close to normal and precipitation was above normal over the hydrologic service area. The wettest areas were over the Allegheny River basin.

<i>Location</i>	<i>Jun 2013 Precipitation</i>	<i>Departure (Inches)</i>
Pittsburgh	5.48	+1.18

<i>Location</i>	<i>Jun Average Temperature</i>	<i>Departure degrees</i>	<i>Extreme High</i>	<i>Extreme Low</i>
Pittsburgh	69.4	+0.7	88(Jun24,25)	42(Jun 4)

RIVER CONDITIONS RECAP







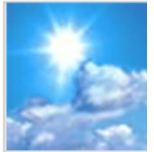
Rain was frequent through the month with river flows and velocities well above normal for June. Heavy thunderstorm rains over the lower Allegheny on June 27 - 28 caused 3 to 6 foot rises on the lower Allegheny and upper Ohio. Several significant localized flash flooding events occurred on June 25 - 26 when thunderstorms brought up to 6 inches of rain in areas of the Muskingum River. Then localized heavy thunderstorm rains fell on June 27 in the PA counties of Jefferson, Venango and Clarion. The hardest hit was in Southeastern Jefferson County PA, where over 6 inches of rain fell in less than 4 hours. The second highest flood of record occurred on the Sandy Lick Creek upstream of Reynoldsville PA. Sharp rises, but no flood stages were reached on the Mahoning Creek, Redbank Creek and lower Allegheny River. On June 28, torrential downpours of between 2 and 3 inches in less than 2 hours caused flash flooding in Fayette and Washington counties. On July 2, 4 inches of rain fell in 3 hours in Dunbar, Fayette County PA causing flash flooding in Connellsville and Uniontown. The Youghiogheny rose 5 to 7 feet in response.

HIGH WATER POTENTIAL

For this time of the year, flows on the Allegheny are 300% of normal, the Monongahela 150%, and the Ohio 200% of normal. A minimum 2.50 inches basin wide rainfall in 6 to 12 hours is needed to bring rivers to bank full. High water potential is near normal.

Above normal rainfall and temperatures are expected through much of July. The focus of the heaviest rains has been over the Allegheny for the past month. That is predicted to shift south which may mean more precipitation over the Mon and Cheat river basin. Expected rainfall through July 25 is between 2.00 and 4.00 inches.

WEATHER FORECAST

WEDNESDAY	WEDNESDAY NIGHT	THURSDAY	THURSDAY NIGHT	FRIDAY	FRIDAY NIGHT	SATURDAY
						
Thunderstorms Likely High: 83 °F	Thunderstorms Likely Low: 68 °F	Chance Thunderstorms High: 80 °F	Partly Cloudy Low: 58 °F	Mostly Sunny High: 80 °F	Mostly Clear Low: 60 °F	Mostly Sunny High: 82 °F

8-14 Day Outlook... Above normal temperatures and precipitation.

30 Day Outlook... Above normal temperatures and precipitation.

Jul-Aug-Sep Outlook... Near normal temperatures and precipitation

Sep-Oct-Nov Outlook... Above normal temperatures and normal precipitation

Nov-Dec-Jan Outlook... Above normal temperatures and normal precipitation

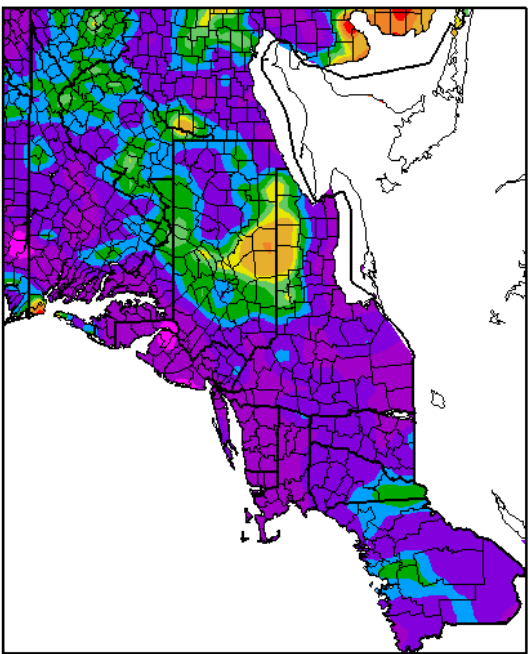
Average Yearly rainfall Pittsburgh: 38.19 inches **So far in 2013:** 18.12 inches (Departure -2.12)

2012: 41.74 inches

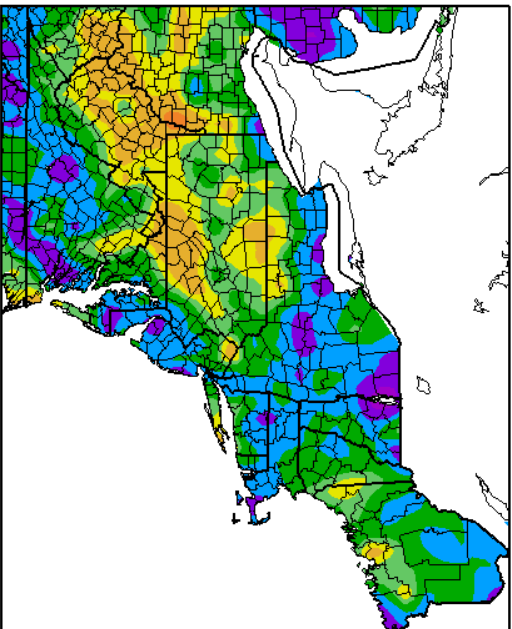
2011: 44.24 inches

2010: 37.85 inches

Percent of Normal Precipitation (%)
6/1/2013 – 6/30/2013



Percent of Normal Precipitation (%)
4/1/2013 – 6/30/2013



COE Flood Storage Used

July 7, 2013

RESERVOIR	FLOOD STORAGE CAPACITY USED
Allegheny	3%
Tionesta	2%
Union City	2%
Woodcock	3%
East Branch	11%
Mahoning	0%
Crooked Creek	2%
Conemaugh	2%
Loyalhanna	3%
Stonewall Jackson	2%
Tygart	1%
Yough	5%
Michael J. Kirwan	0%
Berlin	9%
Lake Milton	7%
Mosquito	10%
Shenango	1%

July 1, 2013

RESERVOIR	FLOOD STORAGE CAPACITY USED
Allegheny	2%
Tionesta	8%
Union City	4%
Woodcock	14%
East Branch	8%
Mahoning	36%
Crooked Creek	8%
Conemaugh	2%
Loyalhanna	6%
Stonewall Jackson	0%
Tygart	4%
Yough	9%
Michael J. Kirwan	0%
Berlin	2%
Lake Milton	16%
Mosquito	19%
Shenango	4%