Water-Data Report 2012

01467086 TACONY CREEK ABOVE ADAMS AVENUE, PHILADELPHIA, PA

Lower Delaware Basin
Schuylkill Subbasin

LOCATION.--Lat 40°02′47″, long 75°06′40″ referenced to North American Datum of 1927, Philadelphia County, PA, Hydrologic Unit 02040203, on left bank 20 ft upstream from dam, and 120 ft upstream from Adams Avenue bridge in north Philadelphia.

DRAINAGE AREA.--16.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to September 1986, October 2005 to current year. Records for 1971-74 published in WDR PA-81-1. Water year 1970 published as station 01467084, Tacony Creek at County Line, Philadelphia. Published as station 01467086 Tacony Creek at County Line, Philadelphia from June 1974 to September 1979.

REVISED RECORDS.--WDR-US-2009: 2008. WDR-US-2006-2010 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 61.11 ft above National Geodetic Vertical Datum of 1929. Prior to June 1972, recording gage at site 1,600 ft upstream at same datum. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey. Funding for the operation of this station is provided by the City of Philadelphia, Water Department and the U.S. Geological Survey through the Cooperative Water Program.

REMARKS.--Records fair for discharges less than or equal to 2,000 ft^3/s, poor for discharges greater than 2,000 ft^3/s and estimated daily discharges. Several observations of water temperature were made during the year. Water year 1970 published as station 01467084.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 7	2030	1,380	5.52
Dec 23	0245	1,280	5.38
May 16	0315	*2,840	*7.63
May 27	0730	2,100	6.58
Jul 15	2315	1,260	5.35
Sep 4	0445	1,230	5.29

Minimum discharge, 0.91 ft^3/s, July 30, gage height, 2.12 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01467086, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01467086.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	39	22	19	19	20	30	10	20	17	5.2	5.9	4.8
2	42	19	19	19	20	17	18	8.6	41	5.4	4.1	5.4
3	28	18	20	18	19	33	9.2	14	8.8	5.6	3.9	89
4	27	17	20	17	19	16	9.2	13	20	5.8	27	183
5	26	17	21	17	19	14	8.5	27	11	5.9	13	16
6	25	16	25	17	18	13	8.6	7.6	8.5	5.3	37	7.5
7	24	16	293	17	18	13	8.5	7.8	7.8	5.2	4.6	6.8
8	23	16	116	17	18	13	8.3	7.6	7.8	5.3	4.2	16
9	23	16	33	17	20	13	8.0	28	8.3	4.9	4.1	12
10	24	16	29	17	18	12	8.1	17	7.7	5.5	32	5.8
11	24	17	26	20	25	12	8.2	7.3	6.6	4.8	37	5.5
12	30	16	24	169	20	12	7.9	6.9	38	5.1	12	5.9
13	32	17	23	24	17	16	7.7	6.8	18	5.3	4.6	5.9
14	42	17	22	19	17	12	7.6	8.0	7.4	12	57	5.8
15	24	17	22	17	17	11	7.9	89	6.9	56	9.7	5.9
16	22	44	20	17	20	10	7.6	226	6.8	37	6.4	5.6
17	23	20	20	36	18	10	7.1	14	6.8	5.1	12	5.3
18	20	15	19	18	16	10	7.2	11	6.4	5.0	56	62
19	73	14	19	16	16	10	7.7	9.8	6.4	4.9	5.9	14
20	41	14	21	16	16	9.8	7.6	8.7	6.4	110	5.5	5.1
21	16	19	22	18	16	10	7.6	18	e6.5	6.5	5.1	4.8
22	16	152	31	16	16	9.5	160	21	e6.3	5.2	4.7	14
23	15	152	187	56	16	9.6	55	13	15	5.3	4.8	9.0
24	15	26	24	31	27	10	11	57	6.0	6.2	5.1	4.7
25	15	21	21	19	19	12	9.0	12	6.3	5.6	4.9	4.8
26	15	20	20	18	14	8.4	8.4	8.4	6.0	9.6	6.2	5.0
27	29	19	77	74	14	8.2	8.4	138	5.9	15	61	12
28	18	18	29	23	14	8.5	8.0	e10	5.8	5.8	15	15
29	74	74	21	21	74	8.5	8.1	e30	14	5.5	6.0	4.8
30	59	29	20	20	---	8.4	7.8	17	5.7	4.2	5.4	4.7
31	27	---	19	20	---	24	---	8.5	---	4.3	5.2	---
Total	911	894	1,282	843	581	403.9	456.2	871.0	325.1	372.5	465.3	546.1
Mean	29.4	29.8	41.4	27.2	20.0	13.0	15.2	28.1	10.8	12.0	15.0	18.2
Max	74	152	293	169	74	33	160	226	41	110	61	183
Min	15	14	19	16	14	8.2	7.1	6.8	5.7	4.2	3.9	4.7
Cfsm	1.76	1.78	2.48	1.63	1.20	0.78	0.91	1.68	0.65	0.72	0.90	1.09
In.	2.03	1.99	2.86	1.88	1.29	0.90	1.02	1.94	0.72	0.83	1.04	1.22

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.1	22.1	27.4	26.6	27.1	31.7	34.7	29.4	24.4	25.6	25.0	24.8
Max	39.3	57.8	58.9	76.4	60.6	73.6	85.3	57.4	51.3	62.2	113	110
(WY)	(2006)	(1973)	(2010)	(1979)	(1979)	(2010)	(1983)	(1983)	(1968)	(1975)	(2011)	(2011)
Min	9.83	7.05	9.47	6.85	12.8	8.03	11.5	13.0	10.8	11.2	4.79	5.95
(WY)	(1966)	(1966)	(1966)	(1981)	(2009)	(1985)	(1985)	(1977)	(2012)	(1977)	(2008)	(2007)

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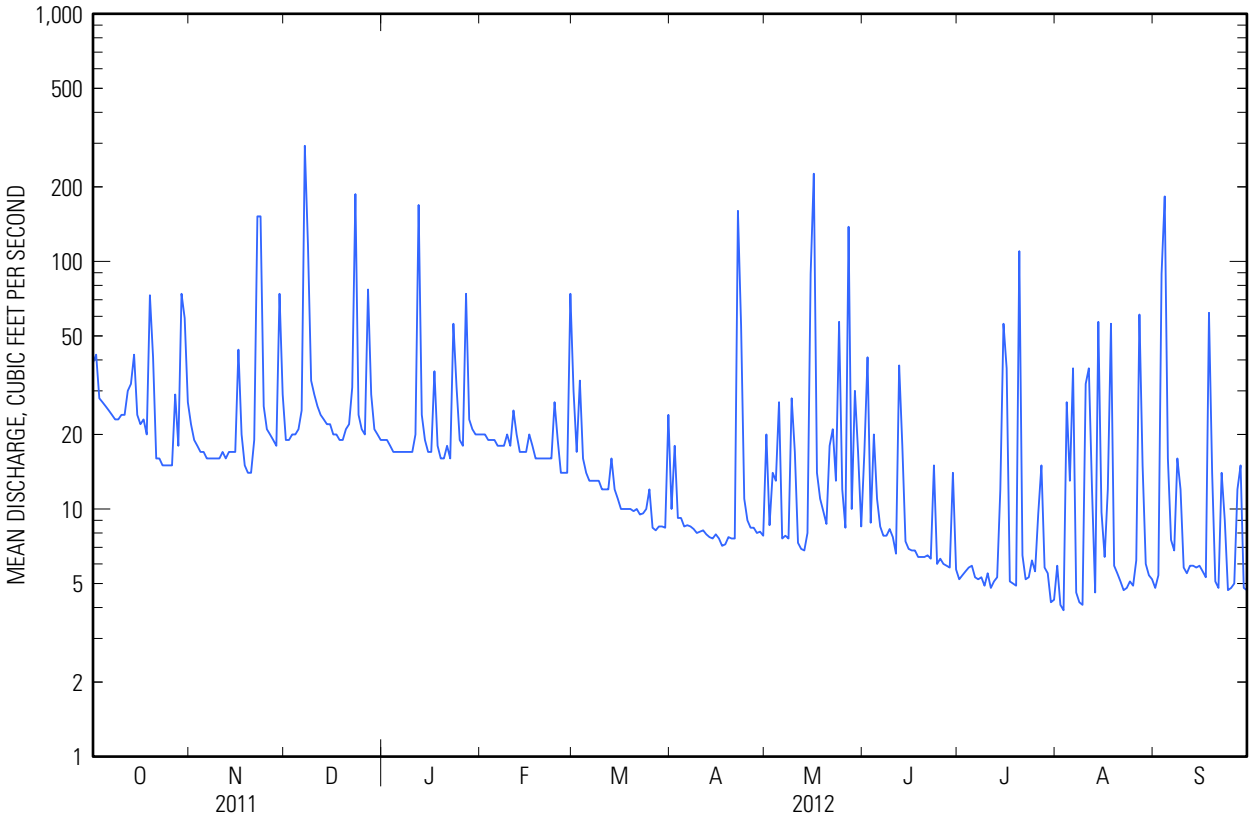
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		For Period of Daily Record	
Annual total	15,409.9		7,951.1			
Annual mean	42.2		21.7		26.6	
Highest annual mean					37.9	2011
Lowest annual mean					14.9	1985
Highest daily mean	1,090	Sep 8	293	Dec 7	1,090	Sep 8, 2011
Lowest daily mean	4.8	Jan 17	3.9	Aug 3	1.8	Oct 5, 2008[a]
Annual seven-day minimum	5.4	Jan 11	4.8	Jul 28	2.0	Oct 2, 2008
Maximum peak flow			[b]2,840	May 16	[b]5,990	Sep 8, 2011
Maximum peak stage			7.63	May 16	13.47	Sep 8, 2011
Instantaneous low flow			0.91	Jul 30	0.91	Jul 30, 2012
Annual runoff (cfsm)	2.53		1.30		1.59	
Annual runoff (inches)	34.33		17.71		21.66	
10 percent exceeds	69		37		49	
50 percent exceeds	21		16		16	
90 percent exceeds	7.3		5.4		7.0	

[a] Also Oct 6, 2008.
[b] From rating curve extended above 1,290 ft³/s on basis of slope-area measurement of peak flow at gage height 9.06 ft, and comparison to nearby gage.