



2004 Water Year PENNYPACK CREEK BASIN

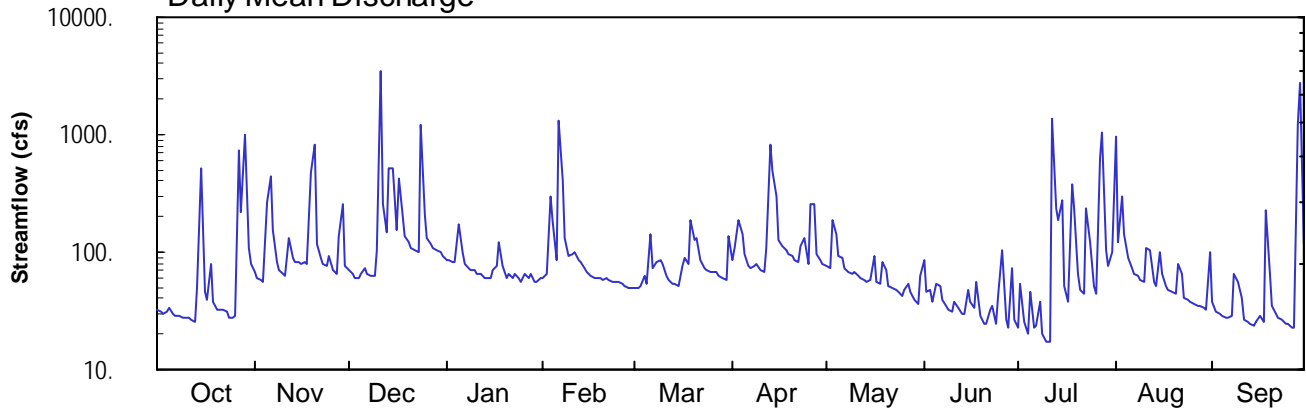
01467048 Pennypack Cr at Lower Rhawn St Bdg, Phila., PA

Latitude: 40° 03 ' 00"
Philadelphia County

Longitude: 075° 01 ' 59"
Datum: 21.27 feet

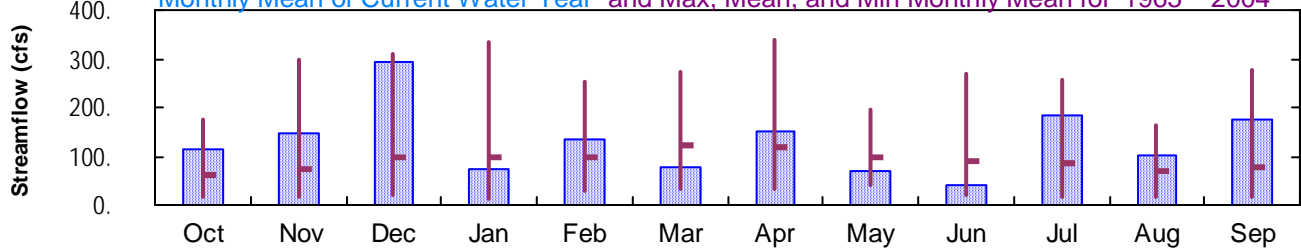
Hydrologic Unit Code: 02040202
Drainage Area: 49.8 mi²

Daily Mean Discharge

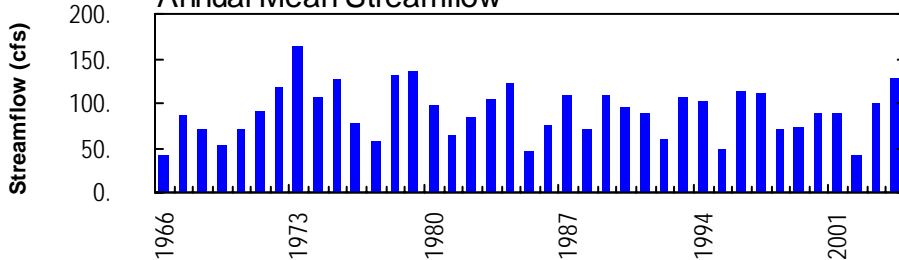


Monthly Statistics

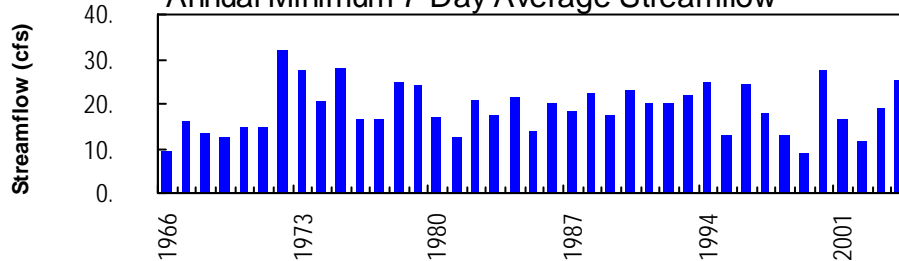
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1965 – 2004



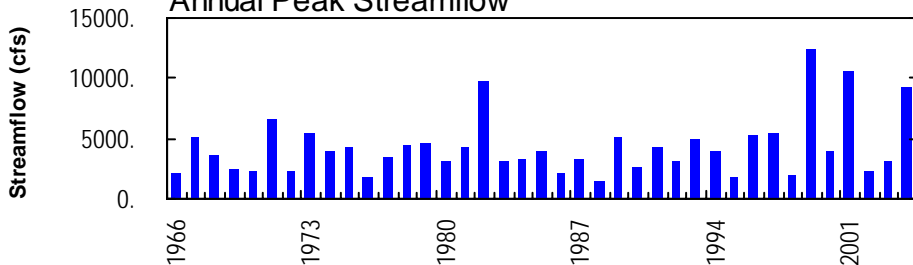
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01467048-Pennypack Creek at Lower Rhawn St. Br., Philadelphia

PENNYPACK CREEK BASIN

01467048 PENNYPACK CREEK AT LOWER RHAWN STREET BRIDGE, PHILADELPHIA, PA

LOCATION.--Lat 40°03'00", long 75°01'59", Philadelphia County, Hydrologic Unit 02040202, on left bank at downstream side of footbridge pier, 400 ft downstream from Lower Rhawn Street bridge, and 0.8 mi upstream from Wooden Bridge Run in Philadelphia.

DRAINAGE AREA.--49.8 mi².

PERIOD OF RECORD.--June 1965 to current year. Records for 1971-74 published in WDR PA-81-1.

REVISED RECORDS: WDR PA-81-1: 1974. WDR PA-89-1: 1988.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 21.27 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 15	0445	1,780	6.34	Dec. 24	1030	2,800	7.59
Oct. 27	1745	1,720	6.26	Feb. 6	1730	3,580	8.41
Oct. 29	0930	2,010	6.64	Apr. 13	2115	2,840	7.64
Nov. 5	2345	2,240	6.94	July 12	1745	4,340	9.13
Nov. 20	0030	3,220	8.04	July 27	2215	4,030	8.85
Dec. 11	1515	7,620	11.73	Aug. 1	1415	3,020	7.83
Dec. 14	2315	2,140	6.81	Sept. 29	0300	*9,170	*12.77

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	68	70	87	e60	50	87	76	85	23	947	37
2	32	61	64	84	e65	50	109	74	46	54	120	32
3	30	58	61	82	e300	51	188	188	48	25	300	29
4	31	55	59	83	186	63	143	140	38	20	139	28
5	33	269	66	175	85	54	95	92	53	46	89	28
6	30	443	74	99	1310	142	76	88	52	23	72	27
7	29	153	66	78	410	74	73	73	39	24	66	28
8	29	81	64	73	131	82	75	69	35	38	61	66
9	28	70	62	e70	92	85	79	66	33	20	59	e55
10	27	66	105	e70	96	78	71	68	31	18	57	e40
11	27	63	3530	e65	100	62	68	63	38	17	107	27
12	26	131	260	e65	86	57	110	60	34	1370	103	26
13	26	89	145	e60	81	53	838	58	30	236	56	25
14	49	83	512	e60	72	53	486	57	30	184	52	24
15	524	82	520	e60	67	51	294	57	47	281	101	25
16	46	80	156	e70	62	76	129	93	37	52	64	29
17	39	83	425	e75	61	89	113	56	33	38	51	26
18	80	79	202	e120	60	79	103	53	56	383	48	230
19	38	476	135	e75	59	186	96	83	29	232	47	65
20	32	820	121	e60	59	129	91	69	25	64	44	34
21	32	118	109	e65	59	134	86	52	25	48	80	30
22	33	90	103	e60	58	85	82	50	32	44	64	27
23	31	80	98	e65	56	74	110	47	34	238	41	26
24	28	77	1220	e60	56	70	132	45	24	120	39	24
25	27	94	211	e55	57	69	78	43	44	51	38	24
26	28	70	133	e65	53	67	252	47	104	44	36	22
27	719	66	118	e60	51	67	259	54	26	616	36	23
28	220	135	107	e65	50	64	97	45	23	1050	35	1230
29	e1000	257	103	e55	50	60	84	39	74	105	33	2800
30	e110	77	98	e55	---	59	79	36	27	75	32	118
31	81	---	91	e60	---	136	---	63	---	99	101	---
TOTAL	3497	4374	9088	2276	3932	2449	4583	2104	1232	5638	3118	5205
MEAN	113	146	293	73.4	136	79.0	153	67.9	41.1	182	101	174
MAX	1000	820	3530	175	1310	186	838	188	104	1370	947	2800
MIN	26	55	59	55	50	50	68	36	23	17	32	22
CFSM	2.27	2.93	5.89	1.47	2.72	1.59	3.07	1.36	0.82	3.65	2.02	3.48
IN.	2.61	3.27	6.79	1.70	2.94	1.83	3.42	1.57	0.92	4.21	2.33	3.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	59.4	75.4	98.7	96.5	96.9	121	117	99.5	89.0	85.9	70.6	76.2
MAX	174	300	311	334	252	273	338	194	270	257	163	276
(WY)	1997	1973	1997	1979	1979	1994	1983	1978	2001	1975	1967	1999
MIN	18.1	17.5	18.5	14.0	27.1	33.5	32.5	42.5	21.4	18.2	15.7	17.4
(WY)	2002	1966	1999	1981	2002	1985	1985	1995	1995	1999	1966	1970

e Estimated.

PENNYPACK CREEK BASIN

01467048 PENNYPACK CREEK AT LOWER RHAWN STREET BRIDGE, PHILADELPHIA, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	46015		47496			
ANNUAL MEAN	126		130		90.9	
HIGHEST ANNUAL MEAN					165	1973
LOWEST ANNUAL MEAN					42.7	2002
HIGHEST DAILY MEAN	3530	Dec 11	3530	Dec 11	e 4900	Sep 16 1999
LOWEST DAILY MEAN	23	Aug 25,26	17	Jul 11	7.8	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	27	Oct 7	25	Sep 21	9.1	Aug 1 1999
MAXIMUM PEAK FLOW			a 9170	Sep 29	a 12400	Sep 16 1999
MAXIMUM PEAK STAGE			12.77	Sep 29	b 14.77	Sep 16 1999
INSTANTANEOUS LOW FLOW			14	Jul 10-12	6.0	Oct 11 1966
ANNUAL RUNOFF (CFSM)	2.53		2.61		1.83	
ANNUAL RUNOFF (INCHES)	34.37		35.48		24.80	
10 PERCENT EXCEEDS	248		214		169	
50 PERCENT EXCEEDS	70		65		50	
90 PERCENT EXCEEDS	32		28		21	

a From rating curve extended above 3,900 ft³/s on basis of slope-area measurement at gage height 13.15 ft.

b From high-water mark in gage shelter.

e Estimated.