

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)
Feb. 22	1800	*3,090	*7.91	May 26	1030	2,500	7.25

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	37	40	359	e55	70	81	53	330	74	122	36
2	16	37	39	248	60	502	84	84	92	71	113	125
3	22	27	37	121	44	240	73	66	69	69	44	93
4	35	25	36	124	65	104	69	49	774	66	109	89
5	19	26	48	82	52	254	67	49	267	62	190	56
6	15	126	46	90	35	518	66	85	117	63	105	34
7	15	34	e44	80	41	170	85	64	281	101	58	31
8	14	26	e45	72	e38	132	110	261	174	81	153	30
9	14	24	e42	73	e35	227	162	64	110	55	60	28
10	37	23	e40	64	e33	149	106	55	96	69	99	27
11	415	44	311	59	e31	105	177	51	88	63	51	26
12	91	237	286	55	e32	101	187	49	124	54	44	26
13	32	185	133	54	e30	115	99	45	411	55	39	148
14	24	52	368	52	e29	109	84	44	309	48	36	158
15	20	38	96	50	e27	90	80	43	154	46	34	83
16	93	61	72	e48	e26	91	77	47	103	44	32	86
17	70	529	60	e45	e29	95	72	82	92	42	33	37
18	28	262	54	e44	e31	86	68	45	382	63	31	37
19	22	72	51	e45	e55	77	67	42	129	73	30	251
20	21	56	259	e46	e90	295	65	40	763	40	29	50
21	20	50	93	e44	e150	538	63	64	461	37	28	36
22	19	138	61	e42	1240	135	64	45	172	199	28	34
23	18	88	55	e40	840	108	61	54	139	81	36	280
24	18	54	51	e41	248	98	58	81	122	138	26	67
25	18	49	370	e43	125	90	57	51	109	51	23	42
26	262	45	133	e44	93	99	132	757	101	39	23	38
27	40	89	83	e43	77	120	70	117	95	36	58	55
28	24	54	70	e41	75	81	59	84	85	43	47	162
29	57	45	64	e43	---	120	58	74	80	36	26	49
30	192	43	60	e47	---	131	55	62	78	33	248	36
31	129	---	58	e51	---	97	---	111	---	33	82	---
TOTAL	1817	2576	3205	2290	3686	5147	2556	2818	6307	1965	2037	2250
MEAN	58.6	85.9	103	73.9	132	166	85.2	90.9	210	63.4	65.7	75.0
MAX	415	529	370	359	1240	538	187	757	774	199	248	280
MIN	14	23	36	40	26	70	55	40	69	33	23	26
CFSM	1.18	1.72	2.08	1.48	2.64	3.33	1.71	1.83	4.22	1.27	1.32	1.51
IN.	1.36	1.92	2.39	1.71	2.75	3.84	1.91	2.11	4.71	1.47	1.52	1.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2003, BY WATER YEAR (WY)

MEAN	58.0	73.6	93.6	97.1	95.9	122	116	100	90.2	83.4	69.8	73.7
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

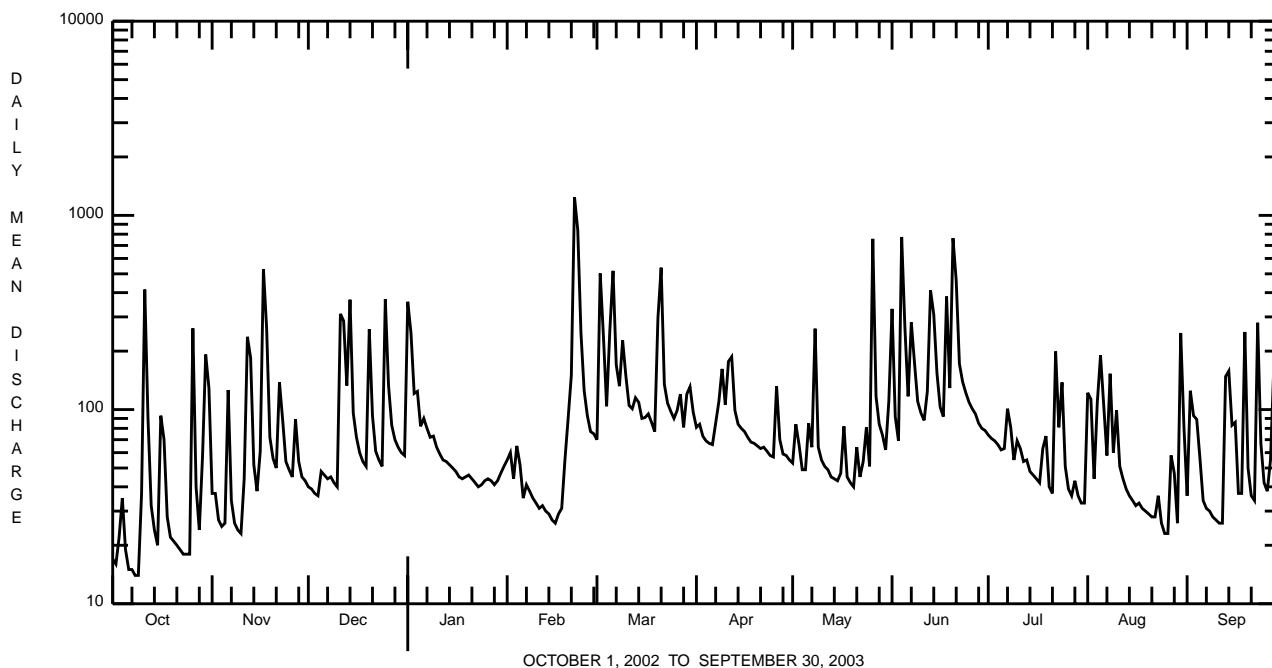
e Estimated.

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

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1965 - 2003	
ANNUAL TOTAL	21076		36654			
ANNUAL MEAN	57.7		100		89.9	
HIGHEST ANNUAL MEAN					165	1973
LOWEST ANNUAL MEAN					42.7	2002
HIGHEST DAILY MEAN	783	May 18	1240	Feb 22	e4900	Sep 16 1999
LOWEST DAILY MEAN	10	Sep 25	14	Oct 8,9	7.8	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	12	Sep 19	19	Oct 3	9.1	Aug 1 1999
MAXIMUM PEAK FLOW			3090	Feb 22	a12400	Sep 16 1999
MAXIMUM PEAK STAGE			7.91	Feb 22	b14.77	Sep 16 1999
INSTANTANEOUS LOW FLOW			12	Oct 7-9	6.0	Oct 11 1966
ANNUAL RUNOFF (CFSM)	1.16		2.02		1.80	
ANNUAL RUNOFF (INCHES)	15.74		27.38		24.52	
10 PERCENT EXCEEDS	121		210		169	
50 PERCENT EXCEEDS	30		62		49	
90 PERCENT EXCEEDS	15		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.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003