

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)
May 18	1130	1,990	6.62	June 7	0330	*2,240	*6.94

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	16	15	e17	50	20	89	48	53	27	14	113
2	23	16	14	e16	38	27	40	83	28	25	21	141
3	17	16	14	e16	29	370	34	58	25	24	228	26
4	16	20	16	e15	27	44	32	29	26	23	25	19
5	15	17	14	e14	25	27	29	26	39	21	49	16
6	35	15	14	e90	24	24	29	23	190	20	25	15
7	21	16	15	143	29	23	28	23	632	19	16	14
8	15	16	48	45	30	22	28	22	59	20	14	13
9	15	16	135	33	24	22	29	102	42	22	14	13
10	14	16	25	32	30	54	32	44	38	206	14	14
11	15	16	20	88	60	25	27	24	45	30	13	14
12	14	16	18	55	28	22	36	54	101	23	13	11
13	14	16	20	33	24	33	33	160	73	22	13	11
14	14	16	40	29	23	33	33	116	229	23	13	17
15	55	16	38	25	23	24	42	36	81	23	12	33
16	19	16	19	23	23	23	29	28	45	21	12	52
17	15	16	18	22	23	25	25	25	42	19	12	19
18	14	16	e79	22	22	177	23	783	56	19	11	17
19	15	17	28	e21	22	56	39	94	63	90	12	13
20	14	19	19	e20	22	388	51	54	43	117	20	12
21	15	20	17	e20	32	116	23	47	34	27	13	12
22	14	18	16	e19	24	50	54	44	31	22	11	12
23	14	18	16	e19	22	38	29	41	29	21	12	11
24	14	17	143	e240	21	34	21	38	53	36	37	11
25	15	58	31	73	21	32	40	33	61	23	25	10
26	13	82	21	35	21	50	41	31	31	19	13	58
27	14	18	20	28	21	197	21	31	108	19	12	360
28	15	16	19	26	21	47	230	32	221	19	11	171
29	15	15	18	25	---	38	70	31	35	19	158	28
30	16	15	e18	30	---	36	36	30	29	e17	31	20
31	16	---	e17	78	---	57	---	30	---	15	17	---
TOTAL	562	605	945	1352	759	2134	1273	2220	2542	1031	891	1276
MEAN	18.1	20.2	30.5	43.6	27.1	68.8	42.4	71.6	84.7	33.3	28.7	42.5
MAX	55	82	143	240	60	388	230	783	632	206	228	360
MIN	13	15	14	14	21	20	21	22	25	15	11	10
CFSM	0.36	0.40	0.61	0.88	0.54	1.38	0.85	1.44	1.70	0.67	0.58	0.85
IN.	0.42	0.45	0.71	1.01	0.57	1.59	0.95	1.66	1.90	0.77	0.67	0.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	58.0	73.2	93.4	97.8	94.9	121	117	101	87.0	83.9	69.9	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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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	29595		15590			
ANNUAL MEAN	81.1		42.7		89.6	
HIGHEST ANNUAL MEAN					165	1973
LOWEST ANNUAL MEAN					42.7	2002
HIGHEST DAILY MEAN	e4330	Jun 17	783	May 18	e4900	Sep 16 1999
LOWEST DAILY MEAN	13	Oct 26	10	Sep 25	7.8	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	14	Oct 20	12	Sep 19	9.1	Aug 1 1999
MAXIMUM PEAK FLOW			2240	Jun 7	a12400	Sep 16 1999
MAXIMUM PEAK STAGE			6.94	Jun 7	b14.77	Sep 16 1999
INSTANTANEOUS LOW FLOW			8.9	Sep 25,26	6.0	Oct 11 1966
ANNUAL RUNOFF (CFSM)	1.63		0.86		1.80	
ANNUAL RUNOFF (INCHES)	22.11		11.65		24.44	
10 PERCENT EXCEEDS	133		80		169	
50 PERCENT EXCEEDS	44		23		49	
90 PERCENT EXCEEDS	16		14		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.

