

**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 mi<sup>2</sup>.

**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 sea level.

**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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Mar. 22	----	1,900	Unknown	Sept. 19	----	*3,880	*8.70
Sept. 3	----	2,700	Unknown				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	34	36	43	e45	e80	83	61	45	30	397	33
2	40	78	34	42	e39	e74	81	69	44	28	123	93
3	35	247	35	43	e36	68	80	60	43	31	93	e450
4	84	98	36	129	e35	66	111	58	38	43	e450	70
5	240	65	34	222	e34	64	79	57	38	32	82	34
6	62	52	166	58	e31	62	73	56	78	27	57	30
7	45	46	76	52	e30	61	70	55	57	26	105	28
8	39	42	44	48	e30	60	68	54	42	25	71	28
9	36	41	39	47	e32	59	156	52	37	25	47	27
10	97	40	93	129	e30	57	95	64	35	57	44	27
11	119	42	74	93	e30	151	72	87	34	30	e70	26
12	65	40	44	57	e29	160	69	51	94	25	e300	26
13	48	41	61	53	e37	70	63	81	164	24	59	155
14	42	40	497	49	341	61	62	174	59	113	354	34
15	37	39	169	45	162	58	67	51	46	69	123	545
16	36	38	81	e44	105	85	176	47	41	63	58	46
17	36	37	67	e42	107	519	267	47	52	96	51	34
18	43	36	60	e41	111	e100	181	46	e200	30	51	30
19	40	36	56	e41	427	82	93	225	93	44	58	e500
20	86	36	126	e44	147	77	82	252	41	52	43	e800
21	118	46	123	e42	117	e200	e250	89	40	30	41	71
22	65	41	62	e40	101	e900	154	62	160	45	38	51
23	78	38	57	e40	98	151	89	57	47	26	36	46
24	63	38	54	e40	100	124	80	e200	36	25	37	46
25	48	61	50	e47	102	113	76	111	34	27	35	76
26	42	70	49	e55	94	104	72	57	33	367	32	557
27	38	273	49	e49	86	96	70	52	32	294	31	102
28	36	56	47	e46	121	325	68	50	44	52	57	65
29	35	42	47	e41	e95	112	66	48	48	37	34	56
30	35	39	45	e40	---	94	63	47	32	e520	32	51
31	34	---	44	e45	---	88	---	46	---	e750	68	---
TOTAL	1875	1832	2455	1807	2752	4321	3016	2466	1787	3043	3077	4137
MEAN	60.5	61.1	79.2	58.3	94.9	139	101	79.5	59.6	98.2	99.3	138
MAX	240	273	497	222	427	900	267	252	200	750	450	800
MIN	34	34	34	40	29	57	62	46	32	24	31	26
CFSM	1.21	1.23	1.59	1.17	1.91	2.80	2.02	1.60	1.20	1.97	1.99	2.77
IN.	1.40	1.37	1.83	1.35	2.06	3.23	2.25	1.84	1.33	2.27	2.30	3.09

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)**

MEAN	59.5	75.3	95.8	100	96.6	121	120	102	82.0	86.4	71.8	75.8
MAX	174	300	311	334	252	273	338	194	245	257	163	276
(WY)	1997	1973	1997	1979	1979	1994	1983	1978	1989	1975	1967	1999
MIN	20.3	17.5	18.5	14.0	35.5	33.5	32.5	42.5	21.4	18.2	15.7	17.4
(WY)	1966	1966	1999	1981	1969	1985	1985	1995	1995	1999	1966	1970

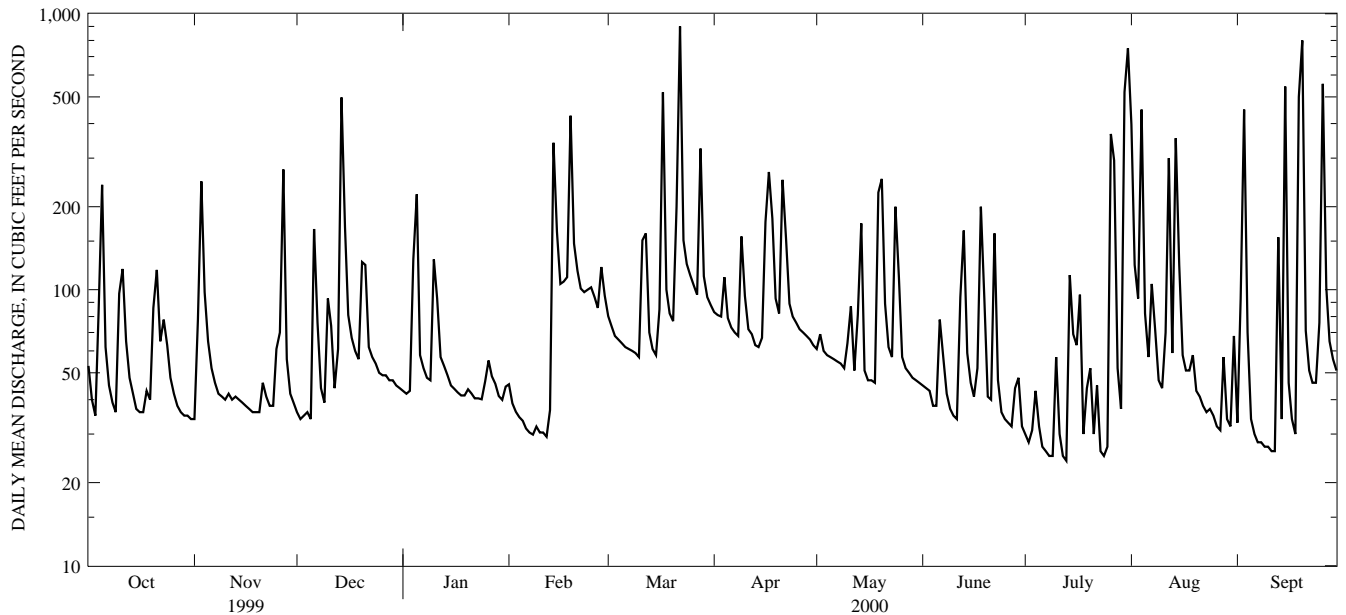
e Estimated.

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL TOTAL	30834.0		32568		90.9	
ANNUAL MEAN	84.5		89.0		165	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					43.2	
HIGHEST DAILY MEAN	e4900	Sep 16	e900	Mar 22	4900	Sep 16 1999
LOWEST DAILY MEAN	7.8	Aug 7	24	Jul 13	7.8	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	9.1	Aug 1	27	Sep 6	9.1	Aug 1 1999
INSTANTANEOUS PEAK FLOW			3880	Sep 19	a12400	Sep 16 1999
INSTANTANEOUS PEAK STAGE			8.70	Sep 19	b14.77	Sep 16 1999
INSTANTANEOUS LOW FLOW			22	Jul 13,14	6.0	Oct 11 1966
ANNUAL RUNOFF (CFSM)	1.70		1.79		1.83	
ANNUAL RUNOFF (INCHES)	23.03		24.33		24.81	
10 PERCENT EXCEEDS	118		163		169	
50 PERCENT EXCEEDS	40		55		49	
90 PERCENT EXCEEDS	17		33		21	

- a From rating curve extended above 3,900 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 13.15 ft.
- b From high-water mark in gage shelter.
- e Estimated.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000