

**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. 30	0845	2,360	7.08	June 17	Unknown	*10,600	*a13.64

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	30	36	e35	78	65	136	56	e171	81	26	19
2	47	30	31	e35	67	63	119	54	e513	e119	24	17
3	45	30	30	e35	60	61	106	52	79	e61	23	17
4	87	30	29	e33	57	77	99	50	65	e56	62	17
5	197	30	29	e32	249	111	93	49	58	e55	59	28
6	51	29	30	e31	174	93	122	46	54	47	26	20
7	44	29	31	e30	154	96	101	45	53	44	23	18
8	41	29	29	e43	120	99	100	45	49	43	22	16
9	40	31	28	e51	105	97	100	44	46	52	21	16
10	41	170	28	46	241	75	109	42	45	45	75	17
11	40	41	29	35	108	66	98	41	43	41	40	18
12	39	30	30	33	89	63	134	39	66	38	295	15
13	38	29	29	31	94	342	92	37	45	37	155	15
14	35	60	289	31	85	107	84	36	40	35	37	149
15	34	49	60	e53	87	108	81	36	50	34	28	34
16	35	30	61	55	97	131	137	35	703	33	25	20
17	35	28	623	50	155	191	87	34	e4330	32	24	18
18	e49	28	162	45	82	108	85	36	e442	159	23	18
19	e42	28	73	314	74	87	76	37	e170	45	22	17
20	35	32	60	285	72	82	73	34	e130	37	48	43
21	34	34	51	125	70	469	74	106	e108	34	26	120
22	34	28	48	81	65	348	71	396	e97	32	22	27
23	32	28	e43	69	e71	134	69	89	216	32	22	20
24	32	27	e40	63	70	116	68	50	e142	31	30	18
25	32	27	e38	61	e112	106	64	42	e85	31	22	96
26	32	388	e37	56	131	105	63	365	e72	40	20	28
27	31	77	e38	55	77	94	62	e564	e62	32	32	21
28	30	44	e37	53	69	88	60	e201	e61	27	37	18
29	29	45	e35	50	---	95	56	e105	60	26	19	17
30	30	64	e44	270	---	1010	56	63	57	44	21	20
31	30	---	e40	132	---	191	---	50	---	30	29	---
TOTAL	1369	1555	2168	2318	2913	4878	2675	2879	8112	1453	1338	917
MEAN	44.2	51.8	69.9	74.8	104	157	89.2	92.9	270	46.9	43.2	30.6
MAX	197	388	623	314	249	1010	137	564	4330	159	295	149
MIN	29	27	28	30	57	61	56	34	40	26	19	15
CFSM	.89	1.04	1.40	1.50	2.09	3.16	1.79	1.86	5.43	.94	.87	.61
IN.	1.02	1.16	1.62	1.73	2.18	3.64	2.00	2.15	6.06	1.09	1.00	.68

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)**

MEAN	59.1	74.7	95.1	99.3	96.8	122	119	101	87.1	85.3	71.1	74.6
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	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

a From high-water mark in gage shelter.

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL TOTAL	31498		32575			
ANNUAL MEAN	86.1		89.2		90.9	
HIGHEST ANNUAL MEAN					165	1973
LOWEST ANNUAL MEAN					43.2	1966
HIGHEST DAILY MEAN	e900	Mar 22	e4330	Jun 17	e4900	Sep 16 1999
LOWEST DAILY MEAN	24	Jul 13	15	Sep 12,13	7.8	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	27	Sep 6	16	Sep 7	9.1	Aug 1 1999
MAXIMUM PEAK FLOW			b10600	Jun 18	b12400	Sep 16 1999
MAXIMUM PEAK STAGE			a13.64	Jun 18	a14.77	Sep 16 1999
INSTANTANEOUS LOW FLOW			12	Sep 13	6.0	Oct 11 1966
ANNUAL RUNOFF (CFSM)	1.73		1.79		1.83	
ANNUAL RUNOFF (INCHES)	23.53		24.33		24.80	
10 PERCENT EXCEEDS	162		139		169	
50 PERCENT EXCEEDS	49		47		49	
90 PERCENT EXCEEDS	30		25		21	

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

