

WEST BRANCH SUSQUEHANNA RIVER BASIN

01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERVILLE, PA

LOCATION.--Lat 41°16'25", long 77°19'28", Lycoming County, Hydrologic Unit 02050205, on left bank on State Highway 44, on abutment of abandoned bridge 0.9 mi downstream from Ramsey Run, 4.0 mi downstream from Little Pine Creek, 4.0 mi south of Waterville, and 9.2 mi upstream from mouth.

DRAINAGE AREA.--944 mi².

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WDR PA-72-1: 1964(P).

GAGE.--Water-stage recorder. Datum of gage is 570.62 ft above sea level. Prior to June 16, 1982, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flood flows subject to regulation by Little Pine Dam 8.5 mi upstream, capacity 24,900 acre-ft. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 9,200 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	0630	Ice jam	*7.54	Mar. 4	0715	12,000	7.17
Jan. 24	1945	*12,200	7.22				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	81	98	e120	e1300	975	4570	1040	236	263	53	37
2	56	79	92	e110	1550	886	5750	954	231	201	50	31
3	52	77	86	e120	1880	900	5660	888	271	221	47	27
4	62	75	83	e140	1970	8970	5320	834	269	237	44	24
5	70	71	83	e160	1960	7140	4570	783	247	171	46	23
6	74	70	81	e140	1810	5580	3400	735	212	143	40	28
7	75	70	76	e130	1690	3670	2760	695	197	127	36	228
8	125	71	80	e120	1570	2440	2260	702	186	116	36	401
9	429	73	80	e130	1360	2090	2140	798	176	112	38	230
10	475	77	76	e150	1320	1870	3500	777	168	128	41	142
11	354	101	74	e170	1290	1620	3070	671	166	132	37	99
12	243	121	71	e200	1400	1430	3200	605	162	152	32	77
13	178	135	67	e210	1940	1270	2790	571	154	118	35	65
14	149	130	61	e250	1800	1190	2420	548	146	101	40	68
15	130	109	56	e270	1640	1110	2100	512	149	92	48	82
16	121	94	50	e280	1580	1080	1890	479	147	86	68	119
17	111	87	51	e260	1580	1170	1810	451	157	79	95	609
18	103	85	70	e300	1650	2410	1680	429	175	75	62	594
19	103	82	65	e450	1560	2920	1460	410	172	70	46	296
20	101	83	70	e560	1450	2620	1390	390	155	87	46	200
21	96	88	77	e640	1340	2640	1290	369	134	89	68	172
22	99	92	157	e860	e1100	2720	1210	342	121	87	74	162
23	97	94	703	e1000	e1000	2360	1170	395	112	78	73	150
24	96	92	e400	e5000	e900	2200	1630	406	105	76	69	134
25	93	85	e350	9620	e860	2460	1520	426	100	78	57	114
26	87	97	e300	5290	e820	2290	1500	447	97	79	58	100
27	86	106	e230	3200	e760	2250	1470	376	96	70	59	90
28	85	110	e200	2440	815	2440	1360	329	176	78	60	86
29	87	115	e170	2230	---	2950	1240	299	242	74	56	87
30	84	106	e150	1820	---	3610	1130	273	275	61	52	519
31	82	---	e140	1520	---	3970	---	253	---	52	44	---
TOTAL	4062	2756	4347	37890	39895	81231	75260	17187	5234	3533	1610	4994
MEAN	131	91.9	140	1222	1425	2620	2509	554	174	114	51.9	166
MAX	475	135	703	9620	1970	8970	5750	1040	275	263	95	609
MIN	52	70	50	110	760	886	1130	253	96	52	32	23
CFSM	.14	.10	.15	1.29	1.51	2.78	2.66	.59	.18	.12	.06	.18
IN.	.16	.11	.17	1.49	1.57	3.20	2.97	.68	.21	.14	.06	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1999, BY WATER YEAR (WY)

MEAN	692	1298	1493	1318	1689	2919	3242	1854	1113	525	412	423
MAX	4597	4337	3860	4114	5148	6840	9683	3919	6070	2423	4096	4053
(WY)	1991	1978	1974	1996	1981	1964	1993	1960	1972	1972	1994	1975
MIN	46.7	66.3	107	93.7	410	850	1171	446	153	73.4	51.7	30.4
(WY)	1964	1965	1961	1961	1987	1969	1988	1985	1991	1964	1966	1964

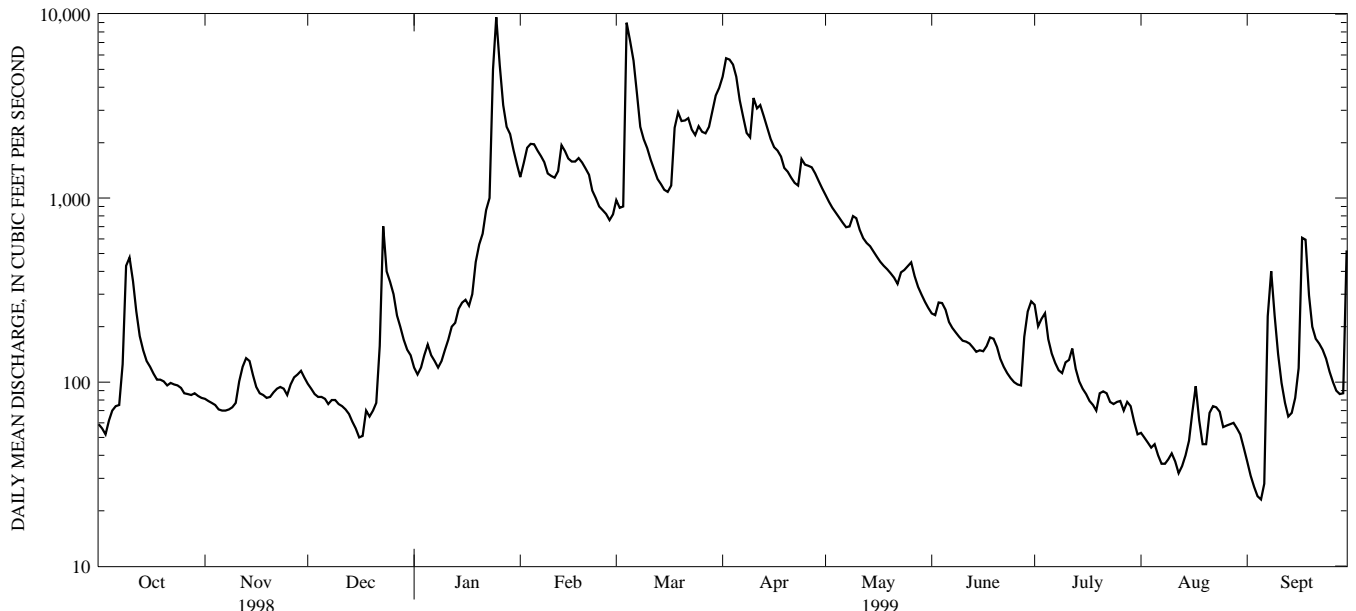
e Estimated.

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01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR		WATER YEARS 1958 - 1999	
ANNUAL TOTAL	488912			277999			
ANNUAL MEAN	1339			762		1412	
HIGHEST ANNUAL MEAN						2379	
LOWEST ANNUAL MEAN						739	
HIGHEST DAILY MEAN	18000	Jan 9		9620	Jan 25	75000	Jun 23 1972
LOWEST DAILY MEAN	50	Dec 16		23	Sep 5	23	Sep 5 1999
ANNUAL SEVEN-DAY MINIMUM	60	Dec 13		31	Aug 31	26	Sep 21 1964
INSTANTANEOUS PEAK FLOW				a12200	Jan 24	b104000	Jun 23 1972
INSTANTANEOUS PEAK STAGE				c7.54	Jan 24	d22.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.42			.81		1.50	
ANNUAL RUNOFF (INCHES)	19.27			10.96		20.32	
10 PERCENT EXCEEDS	3430			2240		3390	
50 PERCENT EXCEEDS	379			166		670	
90 PERCENT EXCEEDS	72			60		107	

- a Corresponding gage height 7.22 ft.
- b From rating curve extended above 22,000 ft³/s on basis of slope-area measurement of peak flow.
- c Backwater from ice jam.
- d From floodmark.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999