

WEST BRANCH SUSQUEHANNA RIVER BASIN

01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERTVILLE, PA  
(Pennsylvania Water-Quality Network Station)

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 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. 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 and landline telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 9,200 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)
May 14	0630	*13,300	*7.48	No other peak greater than base discharge.			

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	524	354	3050	e680	2480	793	3000	3360	961	447	201	62
2	449	346	2880	e640	3200	746	2630	3260	838	407	166	61
3	394	344	2390	e600	2980	868	2280	3350	728	374	150	59
4	347	342	1970	e620	2730	1150	1960	2830	656	342	137	58
5	309	321	1650	e660	2260	935	1700	2530	666	311	125	54
6	282	309	1410	676	1920	1050	1530	2230	2960	282	146	51
7	273	298	1230	682	1670	1060	1390	1990	5690	260	202	48
8	257	289	1080	567	1490	1010	1260	1770	3920	246	142	46
9	235	280	1020	529	1310	969	1180	1700	2850	233	118	45
10	218	273	950	551	1210	1000	1260	2010	2180	239	108	43
11	206	265	848	559	2550	989	1110	1780	1750	266	98	41
12	214	259	782	550	2510	892	966	1940	1440	223	92	41
13	190	248	786	520	2310	870	943	7690	1230	195	93	40
14	186	240	950	496	1980	861	1350	12400	1220	183	84	39
15	293	235	1650	471	1870	833	4000	9000	2430	174	83	43
16	419	234	1730	455	1730	857	4050	5830	3590	160	85	131
17	417	232	1790	438	1590	897	3350	4240	3120	149	82	247
18	474	225	3500	424	1390	825	2800	4500	2570	138	81	173
19	436	217	4060	427	1200	851	2380	4840	2100	134	79	115
20	344	220	3540	484	1110	920	2070	4080	1710	142	75	92
21	347	229	2910	409	1130	1290	1840	3540	1400	153	70	81
22	331	237	2340	483	1180	1410	1630	2970	1170	140	65	74
23	331	221	1960	419	1020	1400	1470	2490	1030	143	67	96
24	400	212	1800	455	919	1430	1270	2130	929	176	79	169
25	496	294	1580	762	866	1410	1180	1830	821	179	89	138
26	486	1400	1340	e930	861	1880	1180	1590	713	173	101	102
27	448	1270	e1100	967	927	7280	1020	1520	667	145	88	137
28	435	1130	1090	1020	890	5670	1180	1290	684	259	76	979
29	409	1150	e960	1110	---	4510	4300	1170	624	619	70	628
30	385	1380	e860	1420	---	3830	3890	1070	507	427	67	328
31	369	---	e700	1890	---	3310	---	1020	---	264	65	---
TOTAL	10904	13054	53906	20894	47283	51796	60169	101950	51154	7583	3184	4221
MEAN	351.7	435.1	1739	674.0	1689	1671	2006	3289	1705	244.6	102.7	140.7
MAX	524	1400	4060	1890	3200	7280	4300	12400	5690	619	202	979
MIN	186	212	700	409	861	746	943	1020	507	134	65	39
CFSM	0.37	0.46	1.84	0.71	1.79	1.77	2.12	3.48	1.81	0.26	0.11	0.15
IN.	0.43	0.51	2.12	0.82	1.86	2.04	2.37	4.02	2.02	0.30	0.13	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	665.3	1247	1480	1278	1673	2849	3228	1856	1121	508.4	393.8	410.5
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

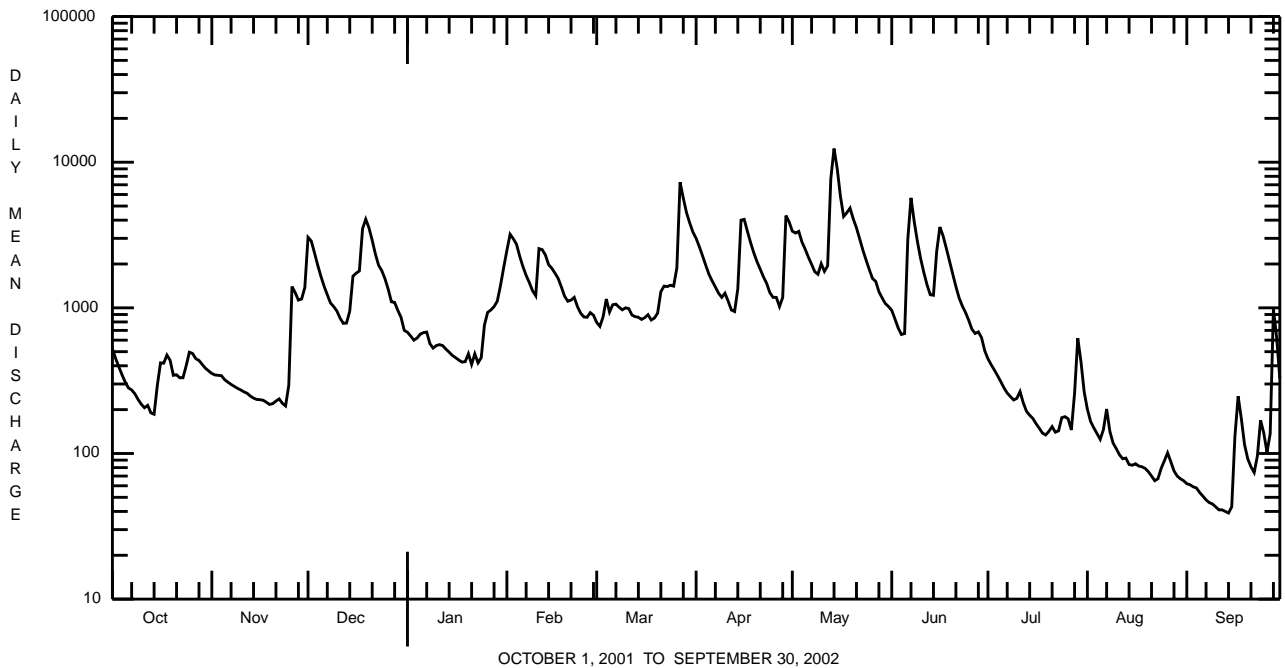
e Estimated.

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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1958 - 2002	
ANNUAL TOTAL	331865		426098			
ANNUAL MEAN	909		1167		1389	
HIGHEST ANNUAL MEAN					2379	1978
LOWEST ANNUAL MEAN					739	1965
HIGHEST DAILY MEAN	10900	Apr 10	12400	May 14	75000	Jun 23 1972
LOWEST DAILY MEAN	64	Aug 9,16	39	Sep 14	23	Sep 5 1999
ANNUAL SEVEN-DAY MINIMUM	74	Aug 5	42	Sep 9	26	Sep 21 1964
MAXIMUM PEAK FLOW			13300	May 14	a104000	Jun 23 1972
MAXIMUM PEAK STAGE			7.48	May 14	b22.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	0.96		1.24		1.47	
ANNUAL RUNOFF (INCHES)	13.08		16.79		19.99	
10 PERCENT EXCEEDS	2390		2890		3340	
50 PERCENT EXCEEDS	510		782		660	
90 PERCENT EXCEEDS	146		93		109	

- a From rating curve extended above 22,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- b From floodmark.



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01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERVILLE, PA--Continued  
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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 306-334.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)
APR 2002													
10...	0900	9813	1210	30	11.6	8.1	75	8.0	28	7.75	7.9	2.04	2.1
JUN													
03...	0730	9813	742	30	8.9	7.7	86	17.1	31	8.57	8.7	2.25	2.3
AUG													
12...	1030	9813	92	30	7.3	7.6	136	23.9	52	15.0	15.2	3.43	3.4

Date	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)
APR 2002													
10...	.0	13	14.5	46	4	<.020	.25	<.040	.46	<.01	<.010	1.3	<4
JUN													
03...	.0	18	16.0	76	2	.030	.04	<.040	.16	.01	.013	1.4	<4
AUG													
12...	.0	32	20.4	94	4	<.020	<.04	<.040	.24	.01	.015	.4	<4

Date	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
APR 2002											
10...	<4	20	60	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0
JUN											
03...	<4	50	90	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0
AUG											
12...	<4	30	70	<1.0	<1.0	30	50	<4.0	<4.0	<5.0	<5.0