

**PENNS CREEK BASIN**

**01555000 PENNS CREEK AT PENNS CREEK, PA**

**LOCATION.**--Lat 40°52'00", long 77°02'55", Union County, Hydrologic Unit 02050301, on left bank 200 ft downstream from bridge on State Highway 104, 2.9 mi upstream from Sweitzers Run, and 0.8 mi northeast of Penns Creek, Pa.

**DRAINAGE AREA.**--301 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1929 to current year. Prior to October 1965, published as Penn Creek at Penns Creek.

**REVISED RECORDS.**--WSP 891: 1934(M). WSP 1502: 1933(M), 1934, 1936(M). WDR PA-72-1: 1933-34(M), 1936(M), 1940(M), 1951(M). WDR PA-79-2: 1978.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 506.72 ft above sea level. Prior to Feb. 1, 1930, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. 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 3,100 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	0900	*2,040	*4.88	(No peaks above base discharge.)			

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	63	66	116	e120	e296	225	1010	396	319	178	75	151
2	63	66	107	e118	e267	217	919	376	361	188	71	145
3	62	65	e86	e115	e253	213	832	362	494	174	68	98
4	61	65	e77	e113	e193	218	828	341	381	164	69	85
5	62	65	e72	e111	e177	232	731	323	323	161	114	79
6	75	63	e71	e110	e165	209	823	304	292	167	98	72
7	87	62	e68	e108	e161	204	1030	287	276	156	79	69
8	81	62	e66	e108	e157	215	934	273	257	144	69	66
9	71	64	e66	e107	e184	244	925	270	239	141	64	64
10	66	121	e64	e107	e246	242	958	259	227	132	65	62
11	64	139	e63	e106	e327	232	901	244	216	132	83	64
12	63	119	e92	e105	275	237	897	237	219	127	82	63
13	62	96	e106	e105	238	600	804	233	222	118	72	61
14	60	86	e96	e105	236	859	719	218	195	113	67	63
15	59	81	e83	e108	302	823	670	214	185	108	63	65
16	59	77	e102	e111	351	727	1290	206	189	105	61	61
17	66	75	e890	e108	372	882	1340	198	233	107	102	58
18	189	73	e625	e123	332	956	1220	196	195	103	92	56
19	200	74	e380	e143	308	839	1070	190	168	99	82	55
20	136	72	e294	179	309	764	946	181	157	96	218	60
21	106	71	e231	182	301	889	904	184	188	91	212	71
22	93	64	e200	e176	267	1830	820	211	371	87	119	75
23	85	e63	e177	e153	263	1440	733	249	737	85	98	64
24	80	e63	e165	e140	265	1200	661	218	424	83	92	77
25	78	e60	e160	e128	250	1020	602	184	317	82	84	336
26	76	147	e153	e117	258	892	553	1110	261	93	77	268
27	75	174	e142	e113	256	781	516	710	230	93	73	161
28	72	149	e132	e108	238	698	480	605	208	82	72	127
29	69	125	e127	e107	---	642	442	469	190	77	70	112
30	67	124	e125	e124	---	1360	414	395	182	77	67	99
31	67	---	e122	e225	---	1180	---	345	---	79	68	---
TOTAL	2517	2631	5258	3883	7247	21070	24972	9988	8256	3642	2726	2887
MEAN	81.2	87.7	170	125	259	680	832	322	275	117	87.9	96.2
MAX	200	174	890	225	372	1830	1340	1110	737	188	218	336
MIN	59	60	63	105	157	204	414	181	157	77	61	55
CFSM	.27	.29	.56	.42	.86	2.26	2.77	1.07	.91	.39	.29	.32
IN.	.31	.33	.65	.48	.90	2.60	3.09	1.23	1.02	.45	.34	.36

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)**

MEAN	221	358	446	450	534	899	885	611	388	192	152	163
MAX	1355	1567	1359	1627	1697	3093	2855	1793	2845	759	684	1295
(WY)	1991	1978	1997	1996	1984	1936	1993	1978	1972	1989	1984	1979
MIN	35.9	34.1	46.3	76.0	108	195	278	179	107	57.2	37.0	36.4
(WY)	1931	1931	1999	1981	1940	1931	1995	1941	1962	1962	1966	1964

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1930 - 2001	
ANNUAL TOTAL	118230		95077			
ANNUAL MEAN	323		260		441	
HIGHEST ANNUAL MEAN					878	1978
LOWEST ANNUAL MEAN					205	1965
HIGHEST DAILY MEAN	2120	Feb 28	1830	Mar 22	24600	Jun 23 1972
LOWEST DAILY MEAN	59	Oct 15,16	55	Sep 19	21	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	62	Oct 10	60	Sep 14	24	Aug 28 1966
MAXIMUM PEAK FLOW			2040	Mar 22	<b>a</b> 34600	Jun 23 1972
MAXIMUM PEAK STAGE			4.88	Mar 22	<b>b</b> 14.85	Jun 23 1972
INSTANTANEOUS LOW FLOW			<b>c</b> 37	Nov 23	7.0	Sep 27 1932
ANNUAL RUNOFF (CFSM)	1.07		.87		1.46	
ANNUAL RUNOFF (INCHES)	14.61		11.75		19.90	
10 PERCENT EXCEEDS	779		748		975	
50 PERCENT EXCEEDS	179		147		260	
90 PERCENT EXCEEDS	67		65		68	

- a** From rating curve extended above 6,800 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow.
- b** From floodmark in gage.
- c** Result of freeze-up.

