

**YOUGHIOGHENY RIVER BASIN**

**03080000 LAUREL HILL CREEK AT URSINA, PA**

**LOCATION.**--Lat 39°49'13", long 79°19'18", Somerset County, Hydrologic Unit 05020006, on right bank 500 ft downstream from bridge on State Highway 281 at Ursina, and 2.7 mi upstream from mouth.

**DRAINAGE AREA.**--121 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August to September 1913 (gage heights and discharge measurements only), October 1918 to current year. Monthly discharge only for some periods, published in WSP 1305. October 1913 to September 1918 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

**REVISED RECORDS.**--WSP 743: Drainage area. WSP 893: 1919-21, 1932-34. WSP 1305: 1922-31. WSP 1435: 1919-20. WSP 1625: 1932 (M).

**GAGE.**--Water-stage recorder and masonry control. Datum of gage is 1,335.26 ft above National Geodetic Vertical Datum of 1929. Prior to July 18, 1939, nonrecording gage at bridge 0.5 mi downstream at datum 6.20 ft lower.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 3,000 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. 20	1800	*3,570	*4.98	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	16	29	123	e117	307	174	508	744	159	54	13	12
2	15	25	101	e112	261	149	382	877	116	50	12	11
3	15	58	83	e112	223	262	332	785	89	45	9.9	9.9
4	14	92	73	e109	208	284	292	520	87	39	9.1	10
5	14	58	65	e99	181	239	250	398	84	35	8.6	9.6
6	15	44	60	87	186	225	226	324	221	30	40	8.0
7	16	48	59	e86	144	196	200	509	360	26	41	6.3
8	16	69	72	e94	143	175	179	747	211	24	19	5.3
9	15	73	170	98	130	155	170	1780	152	27	13	4.4
10	15	54	134	e112	150	152	192	1450	125	52	11	3.9
11	14	43	102	e348	791	129	157	824	100	43	9.3	3.4
12	15	43	86	e272	541	118	139	619	87	26	8.8	3.3
13	17	39	84	e226	408	114	136	761	344	20	9.2	2.7
14	19	22	109	e221	326	112	158	1010	455	26	7.9	2.8
15	42	20	182	e217	277	104	564	874	423	29	7.8	3.3
16	45	20	140	207	250	200	451	607	427	22	8.3	4.8
17	38	19	150	182	236	280	339	463	300	19	7.1	4.9
18	37	18	873	162	199	907	288	1320	228	16	7.9	5.8
19	29	18	635	159	186	807	252	1150	177	22	8.9	5.4
20	25	19	396	163	179	2390	226	767	135	20	13	5.2
21	22	21	294	179	362	2060	303	544	111	16	17	7.0
22	21	21	228	141	344	1070	659	407	90	14	15	11
23	20	19	192	113	285	690	513	328	76	13	17	9.6
24	20	19	206	855	249	524	389	273	67	12	116	7.7
25	21	91	175	1180	222	399	339	248	60	13	104	6.0
26	23	113	173	627	211	765	284	207	52	14	45	9.1
27	26	136	153	429	214	1470	237	168	49	50	27	86
28	29	159	e129	344	181	853	1320	177	174	49	20	185
29	33	123	118	293	---	582	1420	164	111	27	16	80
30	32	126	e114	277	---	439	850	139	66	18	14	44
31	32	---	e117	355	---	375	---	128	---	14	13	---
TOTAL	711	1639	5596	7976	7394	16399	11755	19312	5136	865	668.8	567.4
MEAN	22.9	54.6	181	257	264	529	392	623	171	27.9	21.6	18.9
MAX	45	159	873	1180	791	2390	1420	1780	455	54	116	185
MIN	14	18	59	86	130	104	136	128	49	12	7.1	2.7
CFSM	0.19	0.45	1.49	2.13	2.18	4.37	3.24	5.15	1.41	0.23	0.18	0.16
IN.	0.22	0.50	1.72	2.45	2.27	5.04	3.61	5.94	1.58	0.27	0.21	0.17

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2002, BY WATER YEAR (WY)**

MEAN	115	218	327	350	405	553	444	315	184	103	97.6	80.4
MAX	564	1011	815	1141	1000	1331	879	689	700	388	416	608
(WY)	1955	1986	1973	1937	1956	1936	1970	1924	1941	1985	1935	1971
MIN	6.15	8.91	25.8	57.0	89.3	155	114	52.0	21.2	9.20	8.90	5.73
(WY)	1931	1931	1999	1925	1934	1990	1921	1926	1999	1966	1983	1959

e Estimated.

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03080000 LAUREL HILL CREEK AT URSINA, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1919 - 2002	
ANNUAL TOTAL	70022.7		78019.2			
ANNUAL MEAN	192		214		265	
HIGHEST ANNUAL MEAN					395	1996
LOWEST ANNUAL MEAN					164	1931
HIGHEST DAILY MEAN	1770	Feb 16	2390	Mar 20	6980	Mar 17 1936
LOWEST DAILY MEAN	7.9	Sep 19	2.7	Sep 13	2.3	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	9.6	Sep 7	3.4	Sep 9	3.4	Sep 5 1957
MAXIMUM PEAK FLOW			3570	Mar 20	a10900	Oct 15 1954
MAXIMUM PEAK STAGE			4.98	Mar 20	10.63	Oct 15 1954
INSTANTANEOUS LOW FLOW			2.5	Sep 13	2.2	Sep 26 1932 <sup>b</sup>
ANNUAL RUNOFF (CFSM)	1.59		1.77		2.19	
ANNUAL RUNOFF (INCHES)	21.53		23.99		29.78	
10 PERCENT EXCEEDS	504		552		634	
50 PERCENT EXCEEDS	86		113		146	
90 PERCENT EXCEEDS	16		11		20	

a From rating curve extended above 6,100 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.  
 b Also Sept. 4, 1999.

