

**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 (gauge 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 (gauge 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)
May 10	1500	3,310	4.77	June 3	2200	*3,870	*5.23

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	230	e144	1510	e74	291	229	100	1660	66	86	94
2	20	208	e131	2080	e75	277	334	84	1070	59	82	358
3	18	167	e126	1230	e75	264	287	76	1490	54	75	413
4	17	144	e117	830	e220	254	269	103	2520	47	210	263
5	25	135	e117	566	e400	291	698	195	1280	53	104	215
6	24	579	e117	437	e233	828	682	327	723	47	72	151
7	20	602	e109	361	e184	795	846	241	976	90	69	118
8	18	396	e103	314	e147	635	970	1130	906	353	98	94
9	15	301	e104	307	e130	1140	868	1860	667	668	386	80
10	14	255	e100	340	e125	988	706	2390	471	330	256	70
11	26	270	e100	298	e125	632	588	1980	368	494	165	61
12	73	266	e137	262	e120	485	506	1090	312	301	169	52
13	71	291	e231	222	e120	651	394	1490	441	227	117	50
14	49	247	535	e175	e123	1150	324	1010	319	163	81	49
15	38	213	329	e148	e120	1220	281	673	277	129	67	51
16	76	194	296	e108	e120	1590	249	514	224	115	58	62
17	174	500	254	e101	e125	1970	221	387	206	106	53	46
18	120	561	218	e95	e135	2000	191	370	346	80	47	43
19	91	437	196	e102	e130	1690	168	312	267	76	39	784
20	87	547	748	e98	e130	1480	151	256	253	65	34	639
21	78	416	946	e96	e120	1420	148	389	367	57	31	332
22	64	359	602	e96	e150	1240	146	339	312	52	28	263
23	54	314	510	e93	e800	904	131	654	238	58	29	611
24	48	262	388	e93	986	645	112	811	192	66	35	384
25	44	e236	345	e89	670	495	101	592	156	70	27	333
26	131	e221	284	e93	507	415	98	555	131	53	26	341
27	166	e209	232	e92	404	344	93	435	114	41	125	302
28	108	e194	235	e88	321	285	82	362	99	38	196	569
29	110	e181	189	e83	---	260	80	309	84	37	91	412
30	354	e160	170	e75	---	250	79	253	74	32	72	314
31	297	---	208	e75	---	228	---	294	---	29	90	---
TOTAL	2458	9095	8321	10557	6869	25117	10032	19581	16543	4056	3018	7554
MEAN	79.3	303	268	341	245	810	334	632	551	131	97.4	252
MAX	354	602	946	2080	986	2000	970	2390	2520	668	386	784
MIN	14	135	100	75	74	228	79	76	74	29	26	43
CFSM	0.66	2.51	2.22	2.81	2.03	6.70	2.76	5.22	4.56	1.08	0.80	2.08
IN.	0.76	2.80	2.56	3.25	2.11	7.72	3.08	6.02	5.09	1.25	0.93	2.32

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2003, BY WATER YEAR (WY)**

MEAN	114	219	326	349	403	556	443	319	188	104	97.6	82.5
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**

<b>SUMMARY STATISTICS</b>	<b>FOR 2002 CALENDAR YEAR</b>		<b>FOR 2003 WATER YEAR</b>		<b>WATER YEARS 1919 - 2003</b>	
ANNUAL TOTAL	89947.2		123201			
ANNUAL MEAN	246		338		266	
HIGHEST ANNUAL MEAN					395	1996
LOWEST ANNUAL MEAN					164	1931
HIGHEST DAILY MEAN	2390	Mar 20	2520	Jun 4	6980	Mar 17 1936
LOWEST DAILY MEAN	2.7	Sep 13	14	Oct 10	2.3	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 9	19	Oct 4	3.4	Sep 5 1957
MAXIMUM PEAK FLOW			3870	Jun 3	a10900	Oct 15 1954
MAXIMUM PEAK STAGE			5.23	Jun 3	10.63	Oct 15 1954
INSTANTANEOUS LOW FLOW			14	Oct 9,10	2.2	Sep 26 1932b
ANNUAL RUNOFF (CFSM)	2.04		2.79		2.20	
ANNUAL RUNOFF (INCHES)	27.65		37.88		29.88	
10 PERCENT EXCEEDS	590		818		637	
50 PERCENT EXCEEDS	160		208		147	
90 PERCENT EXCEEDS	11		52		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.

