

YELLOW BRECHES CREEK BASIN

01571500 YELLOW BRECHES CREEK NEAR CAMP HILL, PA

LOCATION.--Lat 40°13'29", long 76°53'54", Cumberland County, Hydrologic Unit 02050305, on left bank 50 ft downstream from single-span highway bridge on Green Lane Drive, 150 ft downstream from Olmsted Mill dam, 1.0 mi southeast of Camp Hill, and 3.1 mi upstream from mouth.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--April 1909 to December 1919, July 1954 to current year. Prior to January 1910 monthly discharge only, published in WSP 1302. Prior to June 1954, published as "at Olmsteds Mill".

REVISED RECORDS.--WSP 1302: 1910, 1912-13, 1914(M), 1916.

GAGE.--Water-stage recorder. Datum of gage is 307.49 ft above sea level. March 1909 to December 1919, nonrecording gage at site 50 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. The Mechanicsburg Water Co. diverts water about 4 mi upstream from station for municipal supply. Diversion for the year was equivalent to a mean daily discharge of 3.1 ft³/s. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 22, 1953, reached a stage of 9.4 ft, from floodmarks, discharge, about 3,940 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,250 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1000	*2,490	*6.88	Mar. 30	0845	1,490	4.71

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	202	138	175	210	337	219	621	267	171	132	103	133
2	195	136	161	204	349	216	561	258	196	132	99	106
3	182	136	154	191	319	214	504	248	199	125	98	97
4	172	135	150	192	278	218	469	240	183	124	96	94
5	167	136	150	195	275	260	428	235	173	147	109	91
6	165	135	150	193	272	236	423	229	165	151	99	88
7	164	131	148	191	276	229	422	224	164	128	93	87
8	163	132	147	187	273	258	394	216	160	129	90	87
9	160	132	146	184	268	276	404	215	152	132	88	87
10	158	170	143	174	326	263	515	212	149	125	95	93
11	155	202	143	172	302	252	448	203	148	127	101	87
12	147	155	143	171	264	248	494	202	144	122	100	87
13	145	144	141	167	259	409	440	199	160	119	114	84
14	145	140	185	165	267	382	394	197	166	116	120	91
15	145	138	233	165	294	322	377	194	149	116	105	90
16	146	133	233	168	282	321	560	190	155	113	101	88
17	148	131	1800	169	309	359	586	187	158	112	98	87
18	170	131	870	168	280	351	497	187	146	111	95	87
19	180	130	507	230	256	315	443	189	135	109	95	85
20	157	129	e398	370	255	295	414	184	140	108	121	88
21	149	128	e328	285	252	374	394	206	133	106	106	93
22	148	127	e287	223	237	673	383	266	178	104	98	89
23	147	125	e261	207	235	512	369	311	193	102	95	88
24	143	129	e246	209	235	447	355	261	185	103	95	107
25	142	137	e236	212	235	412	338	212	156	116	96	235
26	142	174	e232	194	259	383	320	211	144	104	94	141
27	140	254	e228	196	241	361	307	211	137	99	96	109
28	141	185	e228	188	227	340	297	207	133	102	97	101
29	140	168	223	178	---	331	282	194	128	101	92	98
30	141	182	221	246	---	1170	276	183	127	102	92	95
31	139	---	218	352	---	829	---	174	---	104	100	---
TOTAL	4838	4423	8885	6356	7662	11475	12715	6712	4727	3621	3081	2993
MEAN	156	147	287	205	274	370	424	217	158	117	99.4	99.8
MAX	202	254	1800	370	349	1170	621	311	199	151	121	235
MIN	139	125	141	165	227	214	276	174	127	99	88	84
CFSM	.72	.68	1.33	.95	1.27	1.71	1.96	1.00	.73	.54	.46	.46
IN.	.83	.76	1.53	1.09	1.32	1.98	2.19	1.16	.81	.62	.53	.52

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

MEAN	187	211	270	304	382	495	471	368	285	203	184	187
MAX	620	419	824	815	964	1335	1353	809	1639	486	573	1012
(WY)	1977	1997	1997	1996	1998	1994	1993	1998	1972	1989	1915	1975
MIN	98.6	99.4	97.2	92.4	153	221	216	167	122	81.2	80.6	94.7
(WY)	1964	1966	1966	1981	1989	1911	1966	1969	1966	1966	1966	1965

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	91680		77488			
ANNUAL MEAN	250		212		296	
HIGHEST ANNUAL MEAN					500	1972
LOWEST ANNUAL MEAN					159	1966
HIGHEST DAILY MEAN	1980	Mar 22	1800	Dec 17	12400	Jun 22 1972
LOWEST DAILY MEAN	113	Jan 28	84	Sep 13	67	Sep 13 1966
ANNUAL SEVEN-DAY MINIMUM	a 127	Jan 18	87	Sep 7	70	Sep 7 1966
MAXIMUM PEAK FLOW			2490	Dec 17	b 19300	Sep 26 1975
MAXIMUM PEAK STAGE			6.88	Dec 17	c 18.77	Sep 26 1975
INSTANTANEOUS LOW FLOW			84	Sep 13 d	23	Sep 12 1966
ANNUAL RUNOFF (CFSM)	1.16		.98		1.37	
ANNUAL RUNOFF (INCHES)	15.79		13.35		18.59	
10 PERCENT EXCEEDS	427		372		530	
50 PERCENT EXCEEDS	187		171		214	
90 PERCENT EXCEEDS	133		97		118	

- a** Computed using estimated daily discharges.
- b** From rating curve extended above 16,000 ft³/s.
- c** From floodmark.
- d** Also Sept. 14, 19, 20.

