

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01546400 SPRING CREEK AT HOUSERVILLE, PA

**LOCATION.**--Lat 40°50'01", long 77°49'40", Centre County, Hydrologic Unit 02050204, on right bank 15 ft upstream from bridge on Township Route 365, 0.7 mi north of Houserville, 1.3 mi downstream from Slab Cabin Run, and 3.3 mi northeast of State College.

**DRAINAGE AREA.**--58.5 mi<sup>2</sup>.

**PERIOD OF RECORD.**--November 1984 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 926.63 ft above National Geodetic Vertical Datum of 1929.

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

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 400 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. 26	1645	469	5.54	June 6	2115	*795	*6.98
May 13	1400	566	5.98	June 27	1915	467	5.53
June 5	0245	621	6.23				

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	23	19	29	21	32	28	102	60	80	69	31	21
2	22	19	25	20	29	29	86	79	71	66	30	22
3	21	18	25	20	28	40	79	65	66	62	31	22
4	20	18	23	20	28	29	73	61	97	58	31	23
5	20	18	23	20	27	27	68	60	262	55	34	22
6	20	18	22	21	27	27	65	60	369	53	e32	20
7	19	17	21	21	27	27	63	60	550	52	e30	20
8	20	17	23	20	27	27	62	57	313	51	e29	20
9	19	17	25	20	26	27	66	84	232	53	e27	20
10	19	16	23	22	39	30	63	68	185	50	e28	20
11	19	16	22	22	51	28	57	59	174	49	e28	19
12	18	16	21	22	40	27	55	82	173	45	e32	21
13	18	16	22	22	40	27	63	279	154	44	35	21
14	29	15	23	21	38	27	81	295	163	43	28	21
15	29	15	22	21	37	27	86	227	223	42	26	25
16	29	15	21	22	36	36	68	174	154	40	25	24
17	25	15	28	22	35	29	65	147	127	38	25	23
18	22	15	34	21	33	40	64	299	113	38	24	21
19	21	15	29	21	32	36	63	210	102	48	23	21
20	20	14	29	21	32	58	66	178	93	38	23	21
21	19	14	28	21	33	60	62	153	87	36	22	21
22	19	14	27	21	31	57	61	131	83	35	31	39
23	19	14	26	21	29	54	57	114	78	39	31	37
24	25	14	27	24	28	52	53	102	75	36	32	29
25	20	46	25	26	29	50	55	92	75	34	26	27
26	19	24	25	26	32	212	53	84	70	34	24	34
27	19	21	23	27	31	271	51	77	145	35	23	71
28	18	21	23	27	29	177	70	78	109	33	23	36
29	18	21	22	27	---	142	67	82	79	32	23	30
30	18	40	21	29	---	119	62	98	72	33	22	28
31	18	---	21	31	---	106	---	105	---	32	21	---
TOTAL	645	558	758	700	906	1926	1986	3720	4574	1373	850	779
MEAN	20.8	18.6	24.5	22.6	32.4	62.1	66.2	120	152	44.3	27.4	26.0
MAX	29	46	34	31	51	271	102	299	550	69	35	71
MIN	18	14	21	20	26	27	51	57	66	32	21	19
CFSM	0.36	0.32	0.42	0.39	0.55	1.06	1.13	2.05	2.61	0.76	0.47	0.44
IN.	0.41	0.35	0.48	0.45	0.58	1.22	1.26	2.37	2.91	0.87	0.54	0.50

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	41.8	51.1	66.7	68.3	71.8	108	118	80.9	61.7	42.4	34.4	37.8
MAX	210	142	240	191	151	263	404	161	152	94.1	59.8	192
(WY)	1997	1997	1997	1996	1998	1994	1993	1998	2002	1989	1994	1996
MIN	18.2	18.6	15.0	22.6	32.2	54.0	49.8	46.2	31.0	24.2	22.1	18.1
(WY)	1993	2002	1999	2002	1992	1990	1995	2001	1999	1999	1995	1995

e Estimated.

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01546400 SPRING CREEK AT HOUSERVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	13833		18775			
ANNUAL MEAN	37.9		51.4		65.5	
HIGHEST ANNUAL MEAN					105	1998
LOWEST ANNUAL MEAN					38.9	2001
HIGHEST DAILY MEAN	177	Apr 16	550	Jun 7	1130	Jan 19 1996
LOWEST DAILY MEAN	14	Nov 20-24	14	Nov 20-24	13	Dec 31 1998 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	14	Nov 18	14	Nov 18	13	Jan 5 1999
MAXIMUM PEAK FLOW			795	Jun 6	2370	Jan 19 1996
MAXIMUM PEAK STAGE			6.98	Jun 6	10.05	Jan 19 1996
ANNUAL RUNOFF (CFSM)	0.65		0.88		1.12	
ANNUAL RUNOFF (INCHES)	8.80		11.94		15.22	
10 PERCENT EXCEEDS	80		102		120	
50 PERCENT EXCEEDS	28		29		46	
90 PERCENT EXCEEDS	19		19		21	

<sup>a</sup> Also Jan. 1, 5-8, 10, 11, 1999.  
<sup>b</sup> Computed using estimated daily discharges.

