

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 mi².

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 fair 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 20	2015	497	5.82	Sept. 1	0530	437	5.55
Aug. 3	0100	*772	*6.89	Sept. 23	0415	520	5.88

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	45	54	178	48	55	114	70	153	78	98	238
2	25	45	52	236	47	57	116	70	133	76	112	201
3	24	40	50	194	47	54	e110	67	151	73	454	203
4	25	40	48	174	82	51	e110	64	172	70	191	196
5	27	42	49	156	59	61	e100	74	154	67	152	171
6	26	54	47	144	53	87	e160	67	141	66	131	153
7	25	43	45	133	52	63	e150	64	170	79	114	138
8	24	41	45	128	49	62	e150	81	157	58	103	125
9	23	40	43	137	47	150	142	79	158	58	111	114
10	25	38	42	134	47	99	138	77	139	63	114	105
11	46	e46	56	121	46	81	166	77	132	144	140	98
12	97	50	63	113	45	140	173	74	135	72	121	92
13	40	48	61	107	43	208	158	71	121	66	100	99
14	34	45	111	100	42	169	148	68	116	62	92	91
15	32	45	118	95	41	151	139	67	114	60	86	107
16	59	62	115	88	39	162	132	100	107	62	93	93
17	46	136	102	85	43	196	121	83	104	57	95	79
18	41	129	91	78	40	217	116	81	160	66	79	78
19	37	115	86	76	40	214	111	78	127	60	73	187
20	36	103	127	73	40	293	104	76	125	55	68	161
21	35	93	121	69	39	361	102	75	133	65	66	130
22	33	96	115	65	64	253	106	70	124	99	65	141
23	32	83	107	61	130	204	93	68	117	71	61	394
24	31	75	98	58	99	180	87	76	109	64	58	250
25	33	69	98	56	73	161	83	68	103	58	56	206
26	47	65	90	55	64	150	84	72	98	55	95	177
27	35	65	83	52	60	137	78	67	93	55	100	182
28	33	60	79	50	57	124	73	73	88	65	70	253
29	34	59	75	50	---	125	78	73	84	54	75	185
30	45	58	69	48	---	124	72	65	81	52	172	164
31	43	---	73	48	---	117	---	97	---	51	116	---
TOTAL	1121	1930	2413	3162	1536	4506	3514	2292	3799	2081	3461	4811
MEAN	36.2	64.3	77.8	102	54.9	145	117	73.9	127	67.1	112	160
MAX	97	136	127	236	130	361	173	100	172	144	454	394
MIN	23	38	42	48	39	51	72	64	81	51	56	78
CFSM	0.62	1.10	1.33	1.74	0.94	2.48	2.00	1.26	2.16	1.15	1.91	2.74
IN.	0.71	1.23	1.53	2.01	0.98	2.87	2.23	1.46	2.42	1.32	2.20	3.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
MEAN	41.5	51.8	67.3	70.1	70.9	110	118	80.5	65.1	43.7	38.5	44.3								
MAX	210	142	240	191	151	263	404	161	152	94.1	112	192								
(WY)	1997	1997	1997	1996	1998	1994	1993	1998	2002	1989	2003	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1985 - 2003	
ANNUAL TOTAL	22278		34626			
ANNUAL MEAN	61.0		94.9		67.2	
HIGHEST ANNUAL MEAN					105	1998
LOWEST ANNUAL MEAN					38.9	2001
HIGHEST DAILY MEAN	550	Jun 7	454	Aug 3	1130	Jan 19 1996
LOWEST DAILY MEAN	19	Sep 11	23	Oct 9	13	Dec 31 1998 ^a
ANNUAL SEVEN-DAY MINIMUM	20	Sep 6	25	Oct 3	b 13	Jan 5 1999
MAXIMUM PEAK FLOW			772	Aug 3	2370	Jan 19 1996
MAXIMUM PEAK STAGE			6.89	Aug 3	10.05	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.04		1.62		1.15	
ANNUAL RUNOFF (INCHES)	14.17		22.02		15.60	
10 PERCENT EXCEEDS	115		161		126	
50 PERCENT EXCEEDS	42		79		48	
90 PERCENT EXCEEDS	22		42		22	

^a Also Jan. 1, 5-8, 10, 11, 1999.

^b Computed using estimated daily discharges.

