

WEST BRANCH SUSQUEHANNA RIVER BASIN

01546500 SPRING CREEK NEAR AXEMANN, PA

LOCATION.--Lat 40°53'23", long 77°47'40", Centre County, Hydrologic Unit 02050204, on right bank at upstream side of bridge on SR 3001, 1.6 mi west of Axemann, 1.8 mi southwest of Bellefonte, and 2.5 mi upstream from Logan Branch.

DRAINAGE AREA.--87.2 mi².

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 788.81 ft above sea level. Prior to Nov. 19, 1940, nonrecording gage at same site and datum. Nonrecording gage Mar. 6 to Sept. 30, 1995.

REMARKS.--No estimated daily discharges. Records fair. Occasional regulation at low flow by fish hatchery and Rockview Penitentiary. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1936 reached a stage of 8.6 ft, from information by local residents, discharge not determined.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Aug. 19	2345	*434	*3.43	(No peaks above base discharge.)			

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	47	46	48	51	59	54	123	96	54	63	46	60
2	47	47	47	51	56	54	119	94	66	63	45	48
3	46	47	47	51	54	52	117	91	63	55	45	47
4	46	46	46	51	53	53	120	87	53	57	47	47
5	57	46	46	51	52	55	110	84	53	61	50	46
6	72	45	46	50	52	52	132	82	51	62	46	45
7	51	44	45	50	52	52	141	80	51	55	45	45
8	48	44	46	50	52	53	136	78	50	55	44	44
9	47	45	46	51	53	55	136	78	49	56	44	44
10	47	72	45	49	57	54	138	75	49	55	69	45
11	47	51	46	48	58	53	135	74	49	57	52	45
12	46	48	49	48	58	54	131	74	51	54	47	44
13	46	48	46	48	57	99	123	70	62	53	46	43
14	45	47	50	47	58	112	115	70	50	53	45	46
15	45	47	50	48	66	107	113	68	49	53	44	41
16	45	47	49	48	64	108	212	65	92	52	45	40
17	50	46	140	48	67	114	192	63	96	53	53	41
18	86	45	93	47	62	110	180	63	60	51	46	40
19	56	45	83	49	61	106	165	61	56	51	68	39
20	51	45	75	48	61	102	156	59	54	50	147	61
21	50	44	72	48	60	119	151	60	55	49	60	50
22	49	43	64	47	58	181	140	59	54	48	55	43
23	49	43	57	46	57	155	131	68	90	49	53	42
24	49	44	56	46	56	144	125	57	65	48	52	54
25	50	44	54	46	57	133	119	56	59	48	49	78
26	49	55	54	45	57	124	113	59	57	65	48	50
27	47	50	54	45	55	115	109	55	56	49	49	47
28	47	48	53	45	55	107	104	55	56	48	47	46
29	46	48	53	45	---	102	99	54	55	47	47	44
30	46	50	52	53	---	151	98	52	55	48	46	42
31	46	---	52	67	---	133	---	52	---	47	48	---
TOTAL	1553	1420	1764	1517	1607	2963	3983	2139	1760	1655	1628	1407
MEAN	50.1	47.3	56.9	48.9	57.4	95.6	133	69.0	58.7	53.4	52.5	46.9
MAX	86	72	140	67	67	181	212	96	96	65	147	78
MIN	45	43	45	45	52	52	98	52	49	47	44	39
CFSM	.57	.54	.65	.56	.66	1.10	1.52	.79	.67	.61	.60	.54
IN.	.66	.61	.75	.65	.69	1.26	1.70	.91	.75	.71	.69	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	59.9	69.4	84.0	91.9	109	149	155	120	97.0	70.7	60.3	57.4
MAX	216	206	251	224	257	335	475	257	369	216	137	208
(WY)	1997	1978	1997	1996	1984	1994	1993	1978	1972	1972	1984	1996
MIN	26.1	26.0	22.8	23.3	38.1	36.5	49.6	50.5	41.1	28.0	24.4	24.9
(WY)	1964	1966	1966	1966	1963	1969	1969	1969	1965	1965	1966	1965

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	26667		23396			
ANNUAL MEAN	72.9		64.1		93.5	
HIGHEST ANNUAL MEAN					161	1978
LOWEST ANNUAL MEAN					43.5	1965
HIGHEST DAILY MEAN	210	Apr 23	212	Apr 16	2910	Jun 23 1972
LOWEST DAILY MEAN	43	Nov 22,23	39	Sep 19	20	Dec 20-30 1963 ^a
ANNUAL SEVEN-DAY MINIMUM	44	Nov 19	41	Sep 13	21	Jan 28 1966
MAXIMUM PEAK FLOW			434	Aug 19	^b 5410	Jun 23 1972
MAXIMUM PEAK STAGE			3.43	Aug 19	^c 7.47	Jun 23 1972
ANNUAL RUNOFF (CFSM)	.84		.74		1.07	
ANNUAL RUNOFF (INCHES)	11.38		9.98		14.57	
10 PERCENT EXCEEDS	108		113		165	
50 PERCENT EXCEEDS	62		52		72	
90 PERCENT EXCEEDS	47		45		40	

^a Also Jan 28, 29, 31, 1966.

^b From rating curve extended above 1,400 ft³/s on basis of contracted-opening measurement of peak flow.

^c In gage; 8.75 ft from outside floodmark.

