

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.--Records fair except those for estimated daily discharges, which are poor. 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 350 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 15	2100	*363	*3.27	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	43	73	57	51	139	84	118	85	81	69	53
2	52	50	71	57	50	129	83	115	84	81	76	57
3	48	63	66	57	51	116	83	109	83	81	74	53
4	57	50	63	62	51	107	125	105	79	82	71	52
5	49	49	60	61	50	101	102	101	88	80	61	52
6	46	49	61	57	50	96	94	97	99	79	73	52
7	43	49	58	56	50	91	92	94	82	78	88	51
8	41	48	57	55	49	89	107	92	77	77	70	51
9	39	49	55	55	49	86	122	90	73	75	64	51
10	58	49	56	60	49	84	107	89	71	80	64	51
11	47	48	54	59	50	91	103	85	71	74	62	52
12	45	49	53	57	51	100	102	83	74	72	61	50
13	44	49	55	56	50	88	98	81	71	70	60	52
14	60	49	105	55	108	84	95	78	95	69	60	50
15	45	48	123	54	96	82	93	76	116	69	59	50
16	46	48	96	54	78	83	90	74	116	81	58	50
17	46	49	87	54	76	104	104	73	91	78	56	49
18	46	46	82	54	73	87	133	71	89	68	57	50
19	44	46	77	53	73	85	146	92	88	66	56	49
20	45	47	85	54	68	85	132	78	82	65	56	48
21	42	47	85	53	67	112	156	72	90	63	56	49
22	41	47	75	53	69	129	183	87	119	62	56	48
23	42	46	72	e52	76	116	210	87	91	61	63	48
24	41	45	69	e52	84	116	199	174	87	62	66	62
25	41	50	65	e52	96	114	183	137	85	61	53	50
26	41	121	64	52	101	110	168	111	86	60	53	55
27	43	168	64	51	101	106	155	106	86	59	53	50
28	42	100	63	50	164	105	144	102	84	69	100	49
29	41	87	62	51	143	97	134	96	82	74	59	48
30	42	81	60	51	---	92	125	91	81	61	54	47
31	42	---	59	52	---	88	---	87	---	63	52	---
TOTAL	1420	1770	2175	1696	2124	3112	3752	2951	2605	2201	1960	1529
MEAN	45.8	59.0	70.2	54.7	73.2	100	125	95.2	86.8	71.0	63.2	51.0
MAX	61	168	123	62	164	139	210	174	119	82	100	62
MIN	39	43	53	50	49	82	83	71	71	59	52	47
CFSM	.53	.68	.80	.63	.84	1.15	1.43	1.09	1.00	.81	.73	.58
IN.	.61	.76	.93	.72	.91	1.33	1.60	1.26	1.11	.94	.84	.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	60.0	69.8	84.5	92.6	109	150	156	121	97.7	71.0	60.4	57.5
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

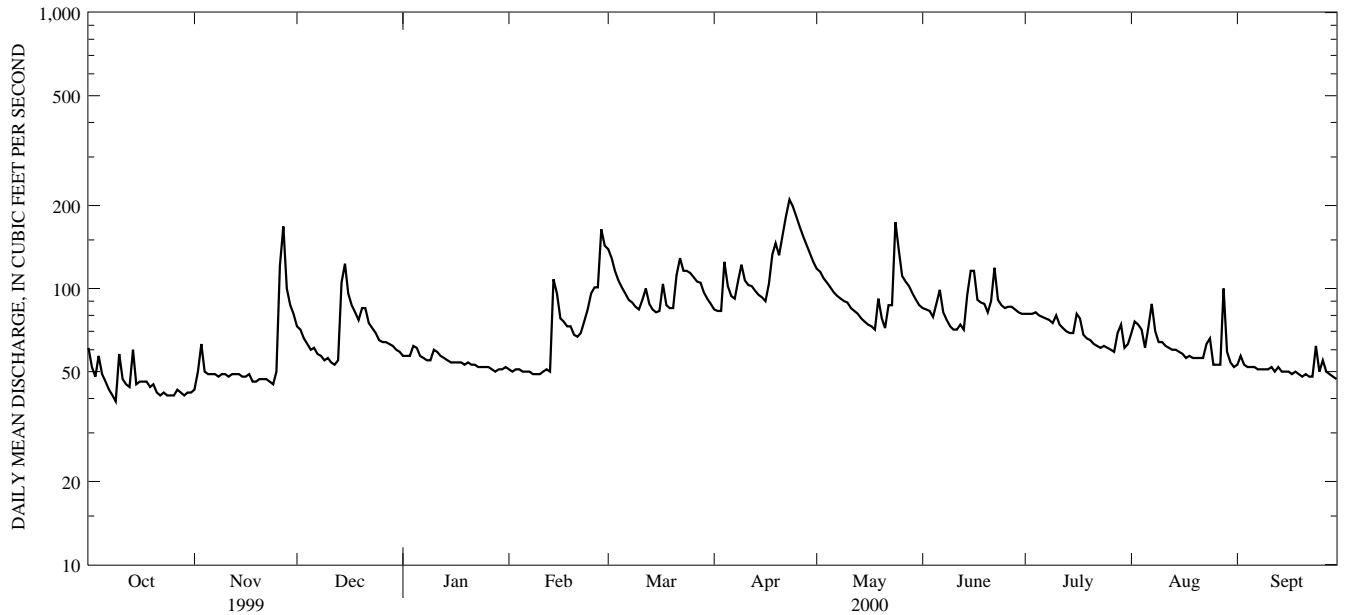
e Estimated.

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01546500 SPRING CREEK NEAR AXEMANN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	26515		27295			
ANNUAL MEAN	72.6		74.6		94.0	
HIGHEST ANNUAL MEAN					161	1978
LOWEST ANNUAL MEAN					43.5	1965
HIGHEST DAILY MEAN	765	Jan 24	210	Apr 23	2910	Jun 23 1972
LOWEST DAILY MEAN	e27	Jan 7	39	Oct 9	20	Dec 20-30 1963a
ANNUAL SEVEN-DAY MINIMUM	b29	Jan 5	42	Oct 21	21	Jan 28 1966
INSTANTANEOUS PEAK FLOW			363	Jun 15	c5410	Jun 23 1972
INSTANTANEOUS PEAK STAGE			3.27	Jun 15	d7.47	Jun 23 1972
ANNUAL RUNOFF (CFSM)	.83		.86		1.08	
ANNUAL RUNOFF (INCHES)	11.31		11.64		14.65	
10 PERCENT EXCEEDS	118		110		166	
50 PERCENT EXCEEDS	59		68		73	
90 PERCENT EXCEEDS	44		48		40	

- a Also Jan 28, 29, 31, 1966.
- b Computed using estimated daily discharges.
- c From rating curve extended above 1,400 ft³/s on basis of contracted-opening measurement of peak flow.
- d In gage; 8.75 ft from outside floodmark.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000