

WEST BRANCH SUSQUEHANNA RIVER BASIN

01553700 CHILLISQUAQUE CREEK AT WASHINGTONVILLE, PA

LOCATION.--Lat 41°03'42", long 76°40'50", Montour County, Hydrologic Unit 02050206, on left bank 60 ft upstream from bridge on State Highway 54, and 0.7 mi north of U.S. Post Office in Washingtonville.

DRAINAGE AREA.--51.3 mi².

PERIOD OF RECORD.--May 1979 to current year.

REVISED RECORDS.--WDR PA-82-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 503.70 ft above sea level (Pennsylvania Power and Light Co. benchmark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow includes diversion from West Branch Susquehanna River. 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 1,200 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	0815	*1,440	*6.90	No other peak greater than 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	18	16	25	19	105	45	156	24	18	26	15	45
2	18	17	23	19	127	47	109	24	35	28	15	19
3	17	18	21	18	99	52	84	22	39	23	15	16
4	16	20	20	19	63	53	69	20	27	23	15	16
5	16	21	20	19	55	53	55	18	20	24	14	16
6	18	21	20	19	51	50	86	16	20	23	14	16
7	18	21	20	19	69	49	90	15	18	22	14	15
8	18	21	20	19	82	74	83	15	17	23	14	15
9	18	21	19	19	145	115	77	16	16	26	13	15
10	17	41	18	17	296	119	114	15	17	21	14	14
11	18	41	18	17	150	106	118	15	16	27	15	15
12	17	30	20	16	93	101	131	15	16	22	14	15
13	17	27	19	16	78	535	98	15	16	23	14	15
14	17	26	21	16	93	279	78	14	16	20	13	17
15	17	23	21	16	170	178	65	14	15	19	13	16
16	16	20	26	17	149	140	135	13	15	19	17	15
17	19	21	955	17	154	197	96	13	15	19	28	16
18	105	22	261	18	88	196	79	15	14	19	17	15
19	41	21	108	20	73	126	64	17	14	19	15	15
20	31	21	75	22	67	99	55	18	29	18	21	16
21	27	20	55	21	63	135	54	18	45	18	15	16
22	24	20	46	20	44	234	48	21	188	18	14	15
23	23	19	e40	18	46	139	42	21	620	18	14	15
24	22	19	35	18	40	108	36	19	121	17	13	29
25	21	19	29	18	48	88	31	18	62	17	13	308
26	20	24	25	17	66	76	29	19	42	18	13	84
27	19	31	26	18	62	62	27	22	33	17	13	44
28	18	28	25	18	52	56	25	23	29	17	18	32
29	18	26	21	18	---	50	23	20	26	16	21	27
30	19	26	22	31	---	609	24	20	25	16	15	24
31	18	---	21	82	---	272	---	18	---	16	33	---
TOTAL	701	701	2075	641	2628	4443	2181	553	1584	632	492	936
MEAN	22.6	23.4	66.9	20.7	93.9	143	72.7	17.8	52.8	20.4	15.9	31.2
MAX	105	41	955	82	296	609	156	24	620	28	33	308
MIN	16	16	18	16	40	45	23	13	14	16	13	14
CFSM	.44	.46	1.30	.40	1.83	2.79	1.42	.35	1.03	.40	.31	.61
IN.	.51	.51	1.50	.46	1.91	3.22	1.58	.40	1.15	.46	.36	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	46.3	83.3	92.2	80.5	102	127	111	63.6	55.2	33.1	29.4	34.5
MAX	211	149	274	269	243	336	286	228	221	102	87.0	99.8
(WY)	1991	1987	1997	1996	1981	1994	1993	1989	1982	1984	1990	1987
MIN	16.5	23.4	22.2	20.7	25.6	38.3	34.4	17.8	16.0	12.9	15.9	13.0
(WY)	1983	2001	1990	2001	1993	1981	1997	2001	1991	1999	2001	1995

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001	
ANNUAL TOTAL	25111		17567		71.2	
ANNUAL MEAN	68.6		48.1		108	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					48.1	
HIGHEST DAILY MEAN	955	Dec 17	955	Dec 17	2080	Mar 15 1986
LOWEST DAILY MEAN	16	Oct 4 ^a	13	May 16,17 ^b	6.2	Jul 27 1991
ANNUAL SEVEN-DAY MINIMUM	17	Oct 10	14	Aug 21	7.6	Jul 27 1999
MAXIMUM PEAK FLOW			1440	Dec 17	c3770	Jan 19 1996
MAXIMUM PEAK STAGE			6.90	Dec 17	11.27	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.34		.94		1.39	
ANNUAL RUNOFF (INCHES)	18.21		12.74		18.86	
10 PERCENT EXCEEDS	167		105		142	
50 PERCENT EXCEEDS	26		21		35	
90 PERCENT EXCEEDS	19		15		17	

- a Also Oct. 5, 16, Nov. 1.
- b Also Aug. 9, 14, 15, 24-27.
- c From rating curve extended above 2,600 ft³/s.

