

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. 14	2045	1,480	7.09	Apr. 9	0200	1,220	5.85
Feb. 28	0400	1,240	5.95	June 12	2200	1,530	7.28
Mar. 21	2315	1,320	6.38	June 22	0015	*1,780	*8.04

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	134	24	41	29	21	141	59	31	25	45	22	42
2	77	31	38	28	20	110	55	33	e25	38	21	50
3	57	64	36	30	20	76	50	29	e25	35	48	25
4	169	37	34	56	20	59	319	27	e26	35	43	22
5	95	32	33	66	20	51	158	27	e500	29	26	20
6	66	30	34	36	19	43	111	25	264	26	23	20
7	52	29	32	32	20	39	77	23	127	23	28	19
8	44	27	29	30	19	37	179	22	67	22	25	19
9	48	25	28	30	18	36	745	21	49	22	25	19
10	141	25	28	209	19	33	268	21	39	23	22	19
11	97	24	30	187	21	61	154	25	41	22	20	20
12	62	22	27	101	21	321	110	21	471	21	20	21
13	54	23	28	77	19	121	76	23	359	20	20	32
14	72	23	458	e55	317	88	60	29	165	20	20	22
15	50	22	612	41	272	67	51	e40	121	25	20	21
16	43	22	205	41	175	59	46	e35	136	23	19	21
17	40	21	114	e40	e160	285	162	e32	95	21	19	20
18	37	21	79	28	86	129	247	e30	63	21	19	20
19	35	21	61	29	e70	91	174	29	54	20	19	20
20	33	20	85	29	e57	68	127	28	43	19	18	19
21	32	22	137	28	49	387	334	25	265	19	18	19
22	30	21	72	e26	75	721	354	38	681	19	19	19
23	33	20	59	24	211	250	177	47	152	19	20	18
24	32	20	49	24	221	152	113	171	81	19	20	19
25	28	29	42	24	337	115	77	114	56	19	20	19
26	28	72	38	24	358	96	60	59	53	18	19	19
27	30	152	37	e23	242	78	53	41	156	18	20	19
28	27	68	33	e22	761	187	47	35	91	18	22	18
29	26	54	32	20	234	108	40	30	106	19	20	18
30	25	46	30	19	---	85	35	26	78	19	19	18
31	24	---	31	21	---	69	---	23	---	21	19	---
TOTAL	1721	1047	2592	1429	3882	4163	4518	1160	4414	718	693	657
MEAN	55.5	34.9	83.6	46.1	134	134	151	37.4	147	23.2	22.4	21.9
MAX	169	152	612	209	761	721	745	171	681	45	48	50
MIN	24	20	27	19	18	33	35	21	25	18	18	18
CFSM	1.08	.68	1.63	.90	2.61	2.62	2.94	.73	2.87	.45	.44	.43
IN.	1.25	.76	1.88	1.04	2.82	3.02	3.28	.84	3.20	.52	.50	.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000		
MEAN	47.5	86.2	93.4	83.3	102	126	112	65.7	55.3	33.6	30.0	34.7												
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	34.4	22.2	27.5	25.6	38.3	34.4	20.0	16.0	12.9	17.5	13.0												
(WY)	1983	1981	1990	1981	1993	1981	1997	1987	1991	1999	1998	1995												

e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL TOTAL	21770.8		26994			
ANNUAL MEAN	59.6		73.8		72.3	
HIGHEST ANNUAL MEAN					108	1984
LOWEST ANNUAL MEAN					52.2	1988
HIGHEST DAILY MEAN	1820	Jan 24	761	Feb 28	2080	Mar 15 1986
LOWEST DAILY MEAN	6.4	Jul 27	18	Feb 9 ^a	6.2	Jul 27 1991
ANNUAL SEVEN-DAY MINIMUM	7.6	Jul 27	19	Jul 22	7.6	Jul 27 1999
INSTANTANEOUS PEAK FLOW			1780	Jun 22	^b 3770	Jan 19 1996
INSTANTANEOUS PEAK STAGE			8.04	Jun 22	11.27	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.16		1.44		1.41	
ANNUAL RUNOFF (INCHES)	15.79		19.57		19.15	
10 PERCENT EXCEEDS	114		172		144	
50 PERCENT EXCEEDS	30		32		36	
90 PERCENT EXCEEDS	13		19		18	

^a Also July 26-28, Aug. 20, 21, Sept. 23, 28-30.
^b From rating curve extended above 2,600 ft³/s.

