

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)
Jan. 24	1115	*2,660	*9.36	Sept. 16	2330	1,820	7.65

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	31	49	e35	41	44	37	24	13	17	8.0	15
2	19	32	47	e32	260	34	40	22	13	17	8.8	15
3	20	34	45	e60	142	33	35	21	13	16	8.2	15
4	21	37	46	e45	105	559	39	21	13	16	8.5	15
5	20	39	47	e30	84	e210	36	20	13	17	9.3	15
6	20	41	47	e23	65	e140	30	18	14	17	10	17
7	21	40	46	e18	56	e90	27	18	14	15	9.0	73
8	38	41	49	e17	53	e60	25	106	14	14	9.6	47
9	57	42	51	e21	49	e54	40	110	14	14	8.7	29
10	63	45	51	e27	60	e50	77	68	15	17	10	37
11	32	48	50	e22	64	e46	59	48	16	e19	10	27
12	25	46	51	e20	103	46	82	38	16	e18	9.3	22
13	23	43	52	e20	e120	44	56	32	17	e16	13	19
14	45	41	51	e21	75	53	48	27	18	14	35	20
15	33	41	51	e22	61	84	42	24	19	15	26	21
16	29	39	51	e24	58	126	41	22	17	14	12	518
17	28	37	52	e26	74	138	40	19	27	13	11	756
18	28	36	53	e230	70	142	33	18	28	12	12	145
19	27	36	54	348	55	116	28	19	19	11	11	74
20	26	44	54	162	46	83	37	17	18	11	77	54
21	23	48	54	93	e39	105	35	16	17	11	98	132
22	21	46	61	171	e32	273	33	16	17	11	39	214
23	20	46	e54	595	e27	129	52	21	16	11	27	116
24	19	48	e46	1820	27	100	73	22	16	9.9	22	72
25	19	46	43	311	26	83	47	22	16	10	19	54
26	20	49	41	154	25	66	44	17	16	9.3	18	44
27	22	50	41	107	24	57	37	16	15	6.4	24	38
28	25	49	42	114	38	54	32	15	15	7.6	17	37
29	28	48	42	101	---	46	28	14	22	7.5	15	38
30	26	49	41	66	---	39	26	14	21	7.1	15	274
31	30	---	e37	47	---	36	---	13	---	7.6	16	---
TOTAL	847	1272	1499	4782	1879	3140	1259	878	502	401.4	616.4	2953
MEAN	27.3	42.4	48.4	154	67.1	101	42.0	28.3	16.7	12.9	19.9	98.4
MAX	63	50	61	1820	260	559	82	110	28	19	98	756
MIN	19	31	37	17	24	33	25	13	13	6.4	8.0	15
CFSM	.53	.83	.94	3.01	1.31	1.97	.82	.55	.33	.25	.39	1.92
IN.	.61	.92	1.09	3.47	1.36	2.28	.91	.64	.36	.29	.45	2.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1999, 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	
MEAN	47.1	88.7	93.9	85.2	101	126	111	67.1	51.0	34.1	30.3	35.3										
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.

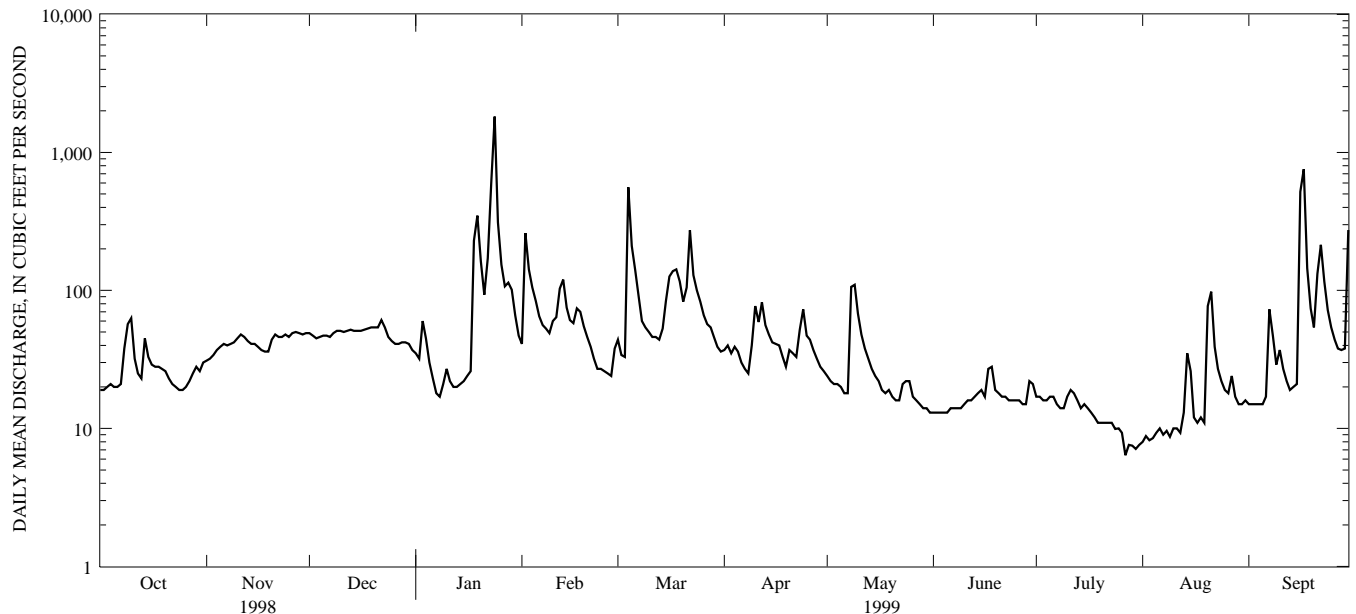
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01553700 CHILLISQUAQUE CREEK AT WASHINGTONVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1979 - 1999	
ANNUAL TOTAL	29618		20028.8			
ANNUAL MEAN	81.1		54.9		72.2	
HIGHEST ANNUAL MEAN					108	1984
LOWEST ANNUAL MEAN					52.2	1988
HIGHEST DAILY MEAN	1250	Jan 9	1820	Jan 24	2080	Mar 15 1986
LOWEST DAILY MEAN	14	Jul 28,29 ^a	6.4	Jul 27	6.2	Jul 27 1991
ANNUAL SEVEN-DAY MINIMUM	15	Jul 28	7.6	Jul 27	7.6	Jul 27 1999
INSTANTANEOUS PEAK FLOW			2660	Jan 24	^b 3770	Jan 19 1996
INSTANTANEOUS PEAK STAGE			9.36	Jan 24	11.27	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.58		1.07		1.41	
ANNUAL RUNOFF (INCHES)	21.48		14.52		19.13	
10 PERCENT EXCEEDS	178		99		143	
50 PERCENT EXCEEDS	43		33		36	
90 PERCENT EXCEEDS	16		13		18	

^a Also Sept. 11, 12.

^b From rating curve extended above 2,600 ft³/s.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999