

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929 (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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Oct. 12	1115	1,360	6.57	Mar. 20	2315	1,470	7.05
Oct. 16	1945	1,280	6.15	Apr. 11	1700	1,270	6.12
Jan. 2	0015	1,220	5.90	June 21	0600	*1,660	*7.73

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	98	45	492	26	37	98	e32	277	27	32	63
2	30	82	39	703	28	41	116	e31	153	26	37	291
3	26	73	34	235	27	e50	90	30	110	25	60	129
4	26	65	32	153	224	37	80	28	142	24	87	177
5	26	58	33	114	75	38	132	27	84	22	115	124
6	24	123	34	96	42	45	93	28	63	21	100	65
7	23	77	32	82	37	e34	83	28	193	21	125	48
8	23	61	32	81	31	31	96	33	143	22	64	39
9	23	57	30	235	29	48	124	29	95	21	241	34
10	23	54	28	161	28	65	105	28	68	21	e520	31
11	151	55	45	86	27	37	615	28	59	208	e230	29
12	910	145	338	66	25	37	546	29	181	44	e140	26
13	245	181	299	56	e24	120	188	28	128	30	e76	26
14	111	103	806	50	23	166	112	26	88	26	e53	27
15	100	108	389	43	23	306	87	25	64	24	e41	27
16	590	85	202	37	21	523	72	28	48	23	e37	53
17	515	332	115	36	29	529	58	39	39	22	e47	28
18	158	377	81	e31	23	485	51	30	100	23	e30	25
19	96	194	69	30	22	332	51	27	57	23	e26	37
20	73	138	126	30	21	579	e47	25	128	21	e24	61
21	56	102	104	e26	21	826	e44	30	1160	24	e23	35
22	47	191	74	e24	31	339	59	28	335	86	e23	30
23	43	156	65	e23	540	226	46	27	159	77	e21	484
24	38	103	57	21	272	144	39	179	88	38	e20	132
25	40	83	61	20	117	97	35	132	61	30	e20	70
26	252	70	58	20	70	87	41	93	48	26	e20	53
27	110	66	52	21	54	86	45	69	42	33	e20	43
28	78	58	48	20	43	67	34	74	35	151	e20	40
29	63	51	46	20	---	74	35	71	31	41	20	35
30	134	50	44	19	---	164	e34	49	28	30	22	30
31	169	---	53	22	---	134	---	57	---	26	21	---
TOTAL	4237	3396	3471	3053	1933	5784	3256	1388	4207	1236	2315	2292
MEAN	137	113	112	98.5	69.0	187	109	44.8	140	39.9	74.7	76.4
MAX	910	377	806	703	540	826	615	179	1160	208	520	484
MIN	23	50	28	19	21	31	34	25	28	21	20	25
CFSM	2.66	2.21	2.18	1.92	1.35	3.64	2.12	0.87	2.73	0.78	1.46	1.49
IN.	3.07	2.46	2.52	2.21	1.40	4.19	2.36	1.01	3.05	0.90	1.68	1.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2003, BY WATER YEAR (WY)

MEAN	49.0	82.1	91.5	79.8	99.2	128	108	69.1	59.4	32.7	30.6	36.1
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	15.0	13.0
(WY)	1983	2001	1990	2001	1993	1981	1997	2001	1991	1999	2002	1995

e Estimated.

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## 01553700 CHILLISQUAQUE CREEK AT WASHINGTONVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1979 - 2003	
ANNUAL TOTAL	30220		36568			
ANNUAL MEAN	82.8		100		72.0	
HIGHEST ANNUAL MEAN					108	1984
LOWEST ANNUAL MEAN					48.1	2001
HIGHEST DAILY MEAN	1650	May 13	1160	Jun 21	2080	Mar 15 1986
LOWEST DAILY MEAN	13	Aug 19,22	19	Jan 30	6.2	Jul 27 1991
ANNUAL SEVEN-DAY MINIMUM	14	Aug 16	20	Jan 24 <sup>a</sup>	7.6	Jul 27 1999
MAXIMUM PEAK FLOW			1660	Jun 21	<b>b</b> 3770	Jan 19 1996
MAXIMUM PEAK STAGE			7.73	Jun 21	11.27	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.61		1.95		1.40	
ANNUAL RUNOFF (INCHES)	21.91		26.52		19.06	
10 PERCENT EXCEEDS	187		225		145	
50 PERCENT EXCEEDS	38		50		35	
90 PERCENT EXCEEDS	15		23		17	

**a** Also Aug. 23, which included estimated daily discharges.

**b** From rating curve extended above 2,600 ft<sup>3</sup>/s.

