



2004 Water Year

WEST BRANCH SUSQUEHANNA RIVER BASIN

01553700 Chillisquaque Creek at Washingtonville, PA

Latitude: 41° 03 ' 42"

Longitude: 076° 40 ' 50"

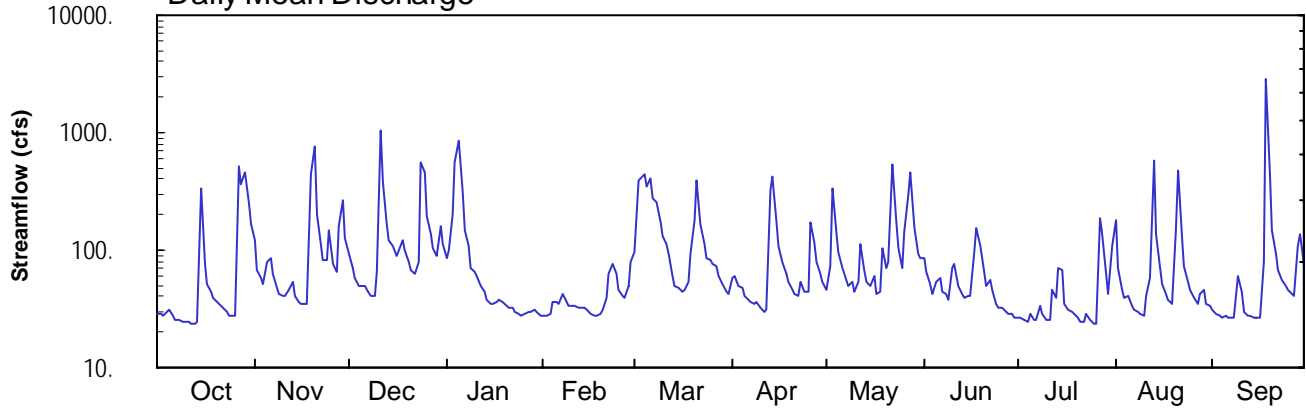
Hydrologic Unit Code: 02050206

Montour County

Datum: 503.70 feet

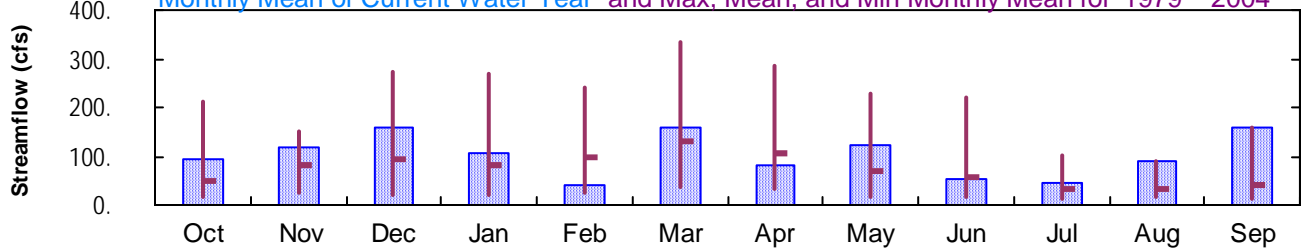
Drainage Area: 51.3 mi²

Daily Mean Discharge

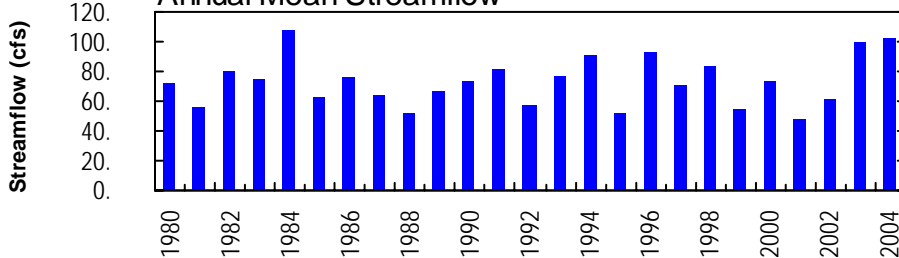


Monthly Statistics

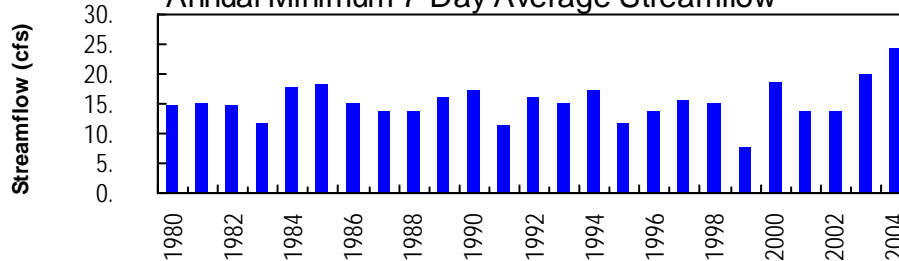
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1979 – 2004



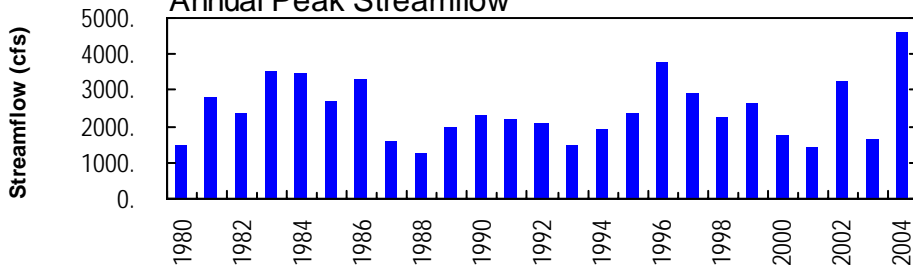
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 27	1630	1,220	5.85	Dec. 24	1715	1,260	6.05
Nov. 19	2100	1,440	6.90	Aug. 13	0800	1,200	5.81
Dec. 11	1300	1,700	7.84	Sept. 18	1130	*4,600	*10.86

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	124	92	86	e28	94	59	46	87	26	179	30
2	29	68	71	98	28	394	61	73	66	26	70	29
3	28	58	57	205	29	408	50	332	52	25	46	27
4	30	51	50	564	36	449	48	140	42	25	39	27
5	31	81	49	855	36	342	41	95	54	29	41	27
6	28	85	49	324	35	401	38	70	58	26	34	27
7	26	62	45	e150	42	273	36	63	45	26	31	27
8	25	48	e40	e110	39	256	35	50	e42	34	30	27
9	25	42	40	e70	34	170	36	53	e38	28	29	60
10	24	41	66	e65	33	129	32	44	71	26	27	44
11	24	41	1060	e60	33	112	30	53	75	25	42	30
12	24	46	377	e50	32	94	31	114	49	47	57	27
13	23	55	168	e44	32	59	326	68	42	39	568	27
14	25	40	123	e38	33	50	428	53	40	71	138	26
15	340	36	109	e35	31	48	171	49	e40	66	72	26
16	76	35	90	e35	29	45	107	61	e40	34	51	26
17	51	35	100	36	28	47	80	42	e95	31	42	78
18	44	34	123	38	28	54	62	44	154	30	38	2910
19	40	433	98	36	29	91	53	104	107	29	34	434
20	37	769	80	34	31	177	45	72	66	27	145	148
21	34	201	68	32	40	387	43	80	49	25	484	92
22	32	113	62	32	63	165	40	533	56	24	130	68
23	30	82	79	e30	75	111	53	181	45	28	74	56
24	28	84	557	29	62	85	44	106	35	26	54	49
25	28	150	460	e28	45	81	44	69	32	24	46	46
26	27	76	196	28	40	77	173	143	33	24	39	43
27	521	65	134	30	40	74	116	302	30	188	35	40
28	357	160	106	30	49	61	81	467	29	142	42	109
29	466	267	88	31	78	52	63	154	29	63	45	138
30	258	125	158	30	---	45	53	91	27	42	34	75
31	164	---	112	e28	---	42	---	87	---	107	33	---
TOTAL	2904	3507	4907	3261	1138	4873	2479	3839	1628	1363	2729	4773
MEAN	93.7	117	158	105	39.2	157	82.6	124	54.3	44.0	88.0	159
MAX	521	769	1060	855	78	449	428	533	154	188	568	2910
MIN	23	34	40	28	28	42	30	42	27	24	27	26
CFSM	1.83	2.28	3.09	2.05	0.76	3.06	1.61	2.41	1.06	0.86	1.72	3.10
IN.	2.11	2.54	3.56	2.36	0.83	3.53	1.80	2.78	1.18	0.99	1.98	3.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2004, BY WATER YEAR (WY)

MEAN	50.8	83.5	94.2	80.8	96.7	129	107	71.2	59.2	33.1	32.8	40.8
MAX	211	149	274	269	243	336	286	228	221	102	88.0	159
(WY)	1991	1987	1997	1996	1981	1994	1993	1989	1982	1984	2004	2004
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.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01553700 CHILLISQUAQUE CREEK AT WASHINGTONVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1979 - 2004	
ANNUAL TOTAL	36782		37401			
ANNUAL MEAN	101		102		73.2	
HIGHEST ANNUAL MEAN					108	1984
LOWEST ANNUAL MEAN					48.1	2001
HIGHEST DAILY MEAN	1160	Jun 21	2910	Sep 18	2910	Sep 18 2004
LOWEST DAILY MEAN	19	Jan 30	23	Oct 13	6.2	Jul 27 1991
ANNUAL SEVEN-DAY MINIMUM	20	Jan 24 ^a	24	Oct 8	7.6	Jul 27 1999
MAXIMUM PEAK FLOW			^b 4600	Sep 18	^b 4600	Sep 18 2004
MAXIMUM PEAK STAGE			10.86	Sep 18	11.27	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.96		1.99		1.43	
ANNUAL RUNOFF (INCHES)	26.67		27.12		19.38	
10 PERCENT EXCEEDS	228		190		147	
50 PERCENT EXCEEDS	47		49		36	
90 PERCENT EXCEEDS	23		28		17	

- ^a Also Aug. 23, which included estimated daily discharges.
- ^b From rating curve extended above 2,600 ft³/s.