

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01541303 WEST BRANCH SUSQUEHANNA RIVER AT HYDE, PA

**LOCATION.**--Lat 41°00'16", long 78°27'25", Clearfield County, Hydrologic Unit 02050201, on right bank 60 ft downstream from bridge at intersection of SR 1001 and State Highway 879 at Hyde.

**DRAINAGE AREA.**--474 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1978 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 1,093.90 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since November 1965 by Curwensville Dam (station 01541180) about 5 mi upstream. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 10, 1964, reached a stage of 18.1 ft, from floodmarks, discharge, about 19,400 ft<sup>3</sup>/s.

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	155	70	85	e180	e1200	723	1310	642	132	224	125	e94
2	155	68	85	e160	e1400	676	1260	622	134	211	108	79
3	145	68	85	e160	e2000	671	1120	605	142	281	109	84
4	100	68	85	e160	e2000	1310	1060	558	174	190	112	e86
5	104	68	85	e150	e2100	1330	1500	437	201	171	109	e86
6	124	69	85	e150	1780	1160	1570	428	201	143	104	e96
7	125	80	85	e160	1390	1020	1270	424	194	124	88	e96
8	191	81	86	e170	2050	e680	1090	428	176	93	95	e90
9	482	81	88	e240	2220	867	1860	437	151	94	95	112
10	392	123	88	e250	1660	840	4650	426	151	115	91	113
11	285	215	88	e380	1620	715	4860	402	136	203	70	108
12	230	210	86	e560	1540	632	3870	358	106	147	68	82
13	172	170	85	e660	1490	587	2360	320	106	93	99	70
14	172	109	82	e700	1250	561	1530	236	111	91	182	94
15	157	108	81	e1200	1030	515	1450	244	173	91	291	95
16	132	106	81	780	931	516	1540	265	139	91	240	150
17	132	106	81	535	937	670	1420	265	105	88	159	272
18	123	106	81	520	954	1950	1370	261	99	83	107	157
19	97	100	81	1340	901	2800	1280	257	85	78	102	113
20	94	81	e82	1600	764	1960	1210	257	85	78	109	94
21	103	81	e110	1040	650	1760	1190	282	85	78	130	112
22	132	81	1040	926	538	2730	1360	391	85	150	108	121
23	132	81	1650	2510	384	2300	1720	400	85	247	98	128
24	132	81	e540	5790	432	1820	1990	506	85	181	95	116
25	132	81	302	6090	579	1700	1590	695	85	159	96	85
26	132	84	e230	5690	523	1460	1270	435	85	103	190	83
27	e120	85	e220	4810	424	1210	1180	165	88	97	315	71
28	88	85	202	2970	526	1240	1030	152	231	89	342	68
29	88	85	e230	2470	---	1330	819	143	491	78	225	79
30	86	85	e240	2260	---	1320	665	138	496	78	135	437
31	73	---	e240	1600	---	1310	---	132	---	89	106	---
TOTAL	4785	2916	6689	46211	33273	38363	50394	11311	4617	4038	4303	3471
MEAN	154	97.2	216	1491	1188	1238	1680	365	154	130	139	116
MAX	482	215	1650	6090	2220	2800	4860	695	496	281	342	437
MIN	73	68	81	150	384	515	665	132	85	78	68	68

## 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	390	922	1047	1017	1274	1670	1554	926	670	523	331	327										
MAX	1264	2425	1944	2092	2302	3377	3648	1831	1663	1497	1084	1819										
(WY)	1980	1998	1991	1996	1986	1979	1993	1989	1989	1996	1984	1996										
MIN	97.0	97.2	216	302	392	647	590	307	154	130	98.7	78.1										
(WY)	1983	1999	1999	1981	1980	1990	1997	1986	1999	1999	1988	1995										

e Estimated.

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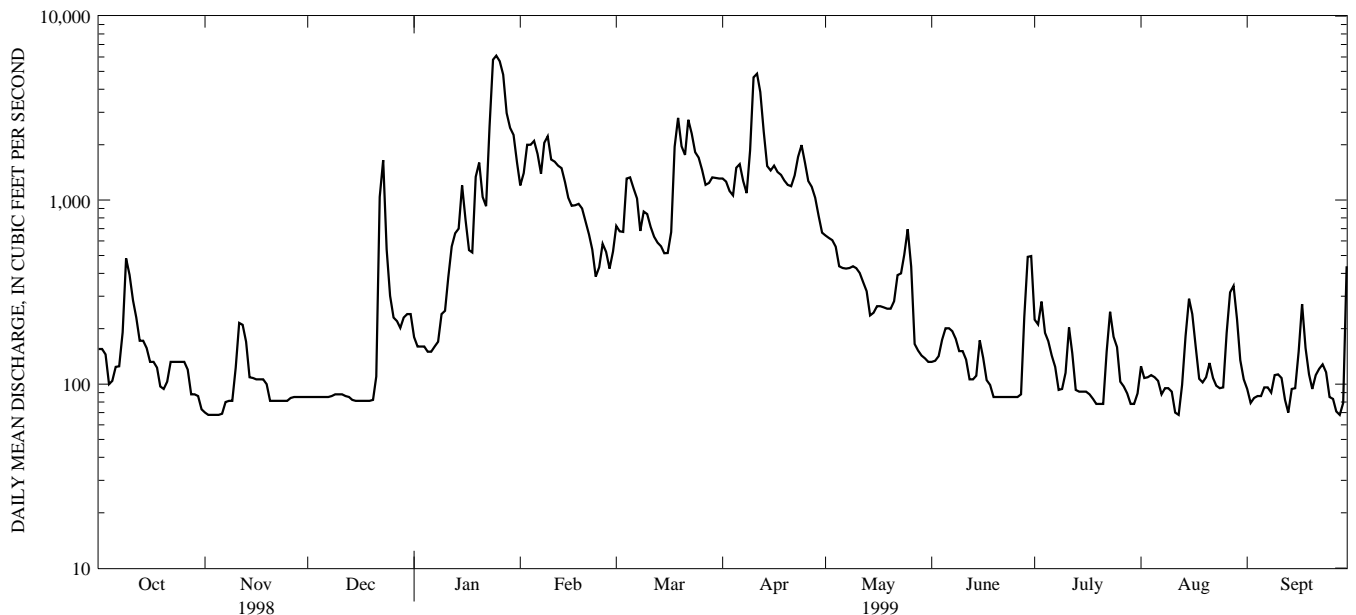
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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1979 - 1999	
ANNUAL TOTAL	279170		210371			
ANNUAL MEAN	765		576		885	
HIGHEST ANNUAL MEAN					1146	1994
LOWEST ANNUAL MEAN					576	1999
HIGHEST DAILY MEAN	5740	Apr 27	6090	Jan 25	6850	Mar 8 1979
LOWEST DAILY MEAN	68	Nov 2-5	68	Nov 2-5 <sup>a</sup>	46	Sep 14 1982
ANNUAL SEVEN-DAY MINIMUM	69	Oct 31	69	Oct 31	53	Oct 6 1983
INSTANTANEOUS PEAK FLOW			6400	Jan 24	<sup>b</sup> 7630	Jan 19 1996
INSTANTANEOUS PEAK STAGE			10.00	Jan 24	<sup>c</sup> 11.45	Feb 18 1981
10 PERCENT EXCEEDS	2030		1550		2100	
50 PERCENT EXCEEDS	274		172		520	
90 PERCENT EXCEEDS	82		83		122	

<sup>a</sup> Also Aug. 12, Sept. 28.

<sup>b</sup> From rating curve extended above 6,000 ft<sup>3</sup>/s; gage height 10.82 ft.

<sup>c</sup> Backwater from ice.



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