

WEST BRANCH SUSQUEHANNA RIVER BASIN

01541000 WEST BRANCH SUSQUEHANNA RIVER AT BOWER, PA

LOCATION.--Lat 40°53'49", long 78°40'38", Clearfield County, Hydrologic Unit 02050201, on right bank at downstream side of highway bridge on Township Route 418 at Bower, and 4.6 mi downstream from Chest Creek and Mahaffey.

DRAINAGE AREA.--315 mi².

PERIOD OF RECORD.--October 1913 to current year.

REVISED RECORDS.--WSP 726: Drainage area: WSP 1302: 1914-17, 1918(M), 1922-23, 1924(M), 1925-29, 1930-31(M), 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 1,207.14 ft above sea level. Prior to Oct. 17, 1929, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known prior to 1913, about 18.5 ft, May 13, 1889, discharge, about 27,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,400 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 26	1415	*4,100	*9.68	(No peaks above base discharge.)			

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	285	80	419	224	e130	1050	392	442	370	168	139	86
2	168	107	350	218	e120	1160	365	528	334	149	115	88
3	127	573	315	260	e120	899	415	457	447	143	106	152
4	158	378	308	469	e120	762	1790	389	326	202	210	142
5	196	260	305	589	e120	670	1610	360	285	178	122	106
6	135	213	310	410	e110	576	1150	341	490	143	147	87
7	114	185	301	361	e110	504	896	318	481	128	705	79
8	102	163	258	332	e110	460	828	289	348	117	384	75
9	98	151	235	309	e120	429	997	271	285	110	228	73
10	151	141	237	345	e130	401	781	254	249	117	179	72
11	261	133	303	457	e140	437	720	240	220	119	149	97
12	184	124	266	386	e200	818	837	225	204	125	170	159
13	147	119	249	355	e350	616	714	225	256	109	136	201
14	249	114	583	319	e600	525	637	235	421	101	119	154
15	255	109	1300	274	1570	481	585	203	367	108	108	125
16	185	106	849	e240	1080	458	536	186	397	162	101	150
17	159	101	673	e200	1030	953	712	177	282	132	93	173
18	141	96	550	e170	776	755	902	191	280	113	91	133
19	127	92	470	e130	1110	641	762	322	364	100	96	112
20	118	94	435	e170	942	584	669	398	250	96	89	104
21	113	107	473	e210	712	1560	1860	301	256	93	81	134
22	106	105	397	e170	677	2460	2440	240	589	89	77	129
23	106	100	338	e150	1010	1550	2230	242	333	85	98	110
24	110	99	e270	e160	1510	1160	1630	883	250	81	224	390
25	109	e130	e230	e180	2210	947	1230	635	213	80	200	295
26	102	e2200	e190	e160	1970	810	964	420	234	78	121	290
27	95	2440	e180	e150	1440	680	792	335	292	75	100	324
28	91	1140	e170	e140	1690	642	672	379	253	147	107	234
29	87	725	e200	e130	1220	575	577	919	201	223	107	191
30	84	540	245	e130	---	504	503	623	185	140	97	164
31	82	---	242	e130	---	438	---	449	---	116	90	---
TOTAL	4445	10925	11651	7928	21427	24505	29196	11477	9462	3827	4789	4629
MEAN	143	364	376	256	739	790	973	370	315	123	154	154
MAX	285	2440	1300	589	2210	2460	2440	919	589	223	705	390
MIN	82	80	170	130	110	401	365	177	185	75	77	72
CFSM	.46	1.16	1.19	.81	2.35	2.51	3.09	1.18	1.00	.39	.49	.49
IN.	.52	1.29	1.38	.94	2.53	2.89	3.45	1.36	1.12	.45	.57	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2000, BY WATER YEAR (WY)

MEAN	251	446	624	712	813	1211	940	648	395	275	202	192
MAX	915	1707	1958	2136	1924	3369	2080	1480	2446	1522	850	1349
(WY)	1928	1998	1924	1937	1918	1936	1940	1919	1972	1977	1956	1926
MIN	22.5	27.2	51.0	32.9	120	271	202	116	82.0	49.7	25.7	24.1
(WY)	1931	1931	1931	1931	1934	1969	1925	1926	1949	1965	1930	1939

e Estimated.

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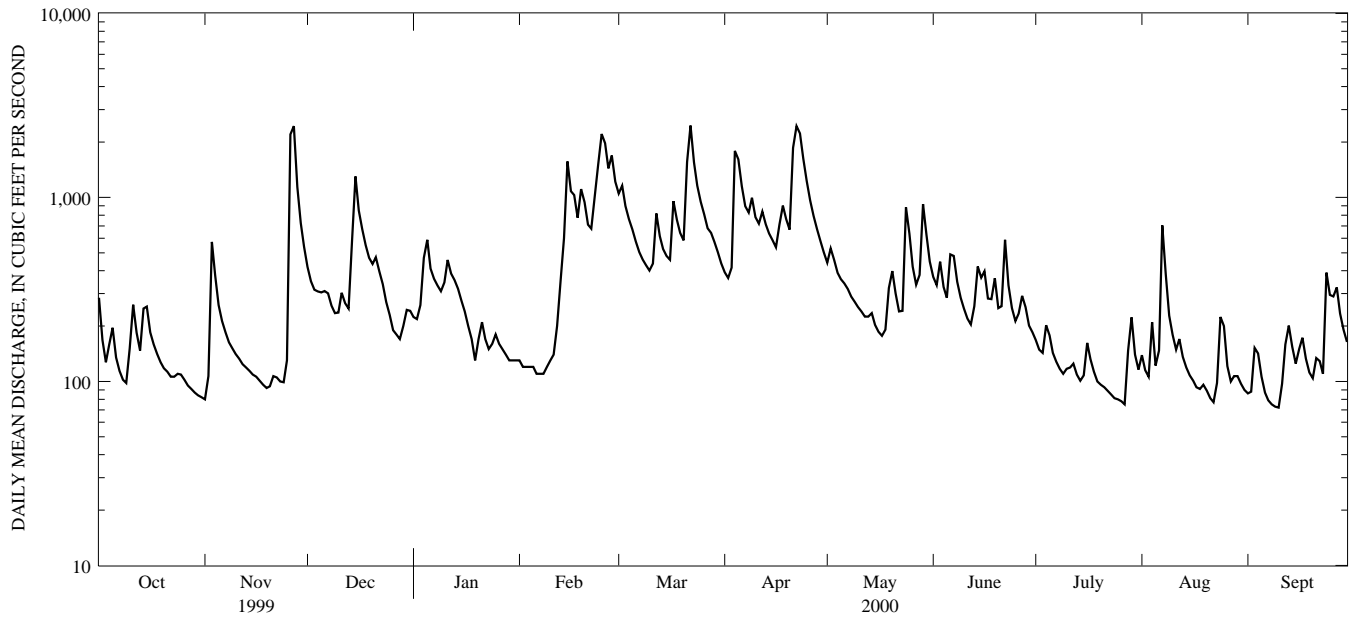
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1914 - 2000	
ANNUAL TOTAL	148843		144261			
ANNUAL MEAN	408		394		558	
HIGHEST ANNUAL MEAN					955	1928
LOWEST ANNUAL MEAN					294	1931
HIGHEST DAILY MEAN	8010	Jan 24	2460	Mar 22	23200	Jun 23 1972
LOWEST DAILY MEAN	44	Aug 12	72	Sep 10	16	Aug 29 1939 ^a
ANNUAL SEVEN-DAY MINIMUM	51	Aug 7	83	Jul 21	17	Aug 28 1939
INSTANTANEOUS PEAK FLOW			4100	Nov 26	^b 31500	Mar 18 1936
INSTANTANEOUS PEAK STAGE			9.68	Nov 26	^c 19.74	Mar 18 1936
INSTANTANEOUS LOW FLOW					14	Aug 29 1939
ANNUAL RUNOFF (CFSM)	1.29		1.25		1.77	
ANNUAL RUNOFF (INCHES)	17.58		17.04		24.07	
10 PERCENT EXCEEDS	1010		900		1300	
50 PERCENT EXCEEDS	168		236		284	
90 PERCENT EXCEEDS	65		100		62	

^a Also Aug. 31 to Sept. 2, 1939.

^b From rating curve extended above 7,200 ft³/s on basis of slope-area measurement of peak flow.

^c From floodmark in gage.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000