

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA

**LOCATION.**--Lat 41°19'28", long 77°45'03", Clinton County, Hydrologic Unit 02050203, on right bank at abandoned Eighth Street bridge abutment at South Renovo, and 1.0 mi upstream from Paddy Run.

**DRAINAGE AREA.**--2,975 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1907 to current year. Gage height records collected July 1895 to December 1903 and October 1905 to September 1974 are contained in reports of U.S. Weather Bureau.

**REVISED RECORDS.**--WSP 756: Drainage area. WSP 1302: 1908-10, 1912-13, 1914-15(M). WSP 2103: 1968 (monthly mean). WDR PA-88-2: 1987.

**GAGE.**--Water-stage recorder. Datum of gage is 634.19 ft above sea level. Prior to Mar. 17, 1930, nonrecording gage at same site and datum.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Flow slightly regulated by 4 flood-control reservoirs which have a combined capacity of 316,000 acre-ft. 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 1895, 27.3 ft, June 1, 1889, from floodmark, discharge, about 211,000 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	352	468	387	e700	7030	3390	11500	4360	887	1560	392	395
2	409	446	395	e640	7170	3650	12900	4040	848	1140	337	362
3	412	456	391	e600	9120	3410	12400	3710	936	1500	353	329
4	431	450	389	e600	10100	10300	11500	3430	980	1170	369	309
5	447	445	394	e600	10100	11600	10300	3190	965	905	334	289
6	437	393	377	e620	9630	9680	9190	2910	916	674	334	291
7	424	360	378	e640	8600	8250	8210	2730	857	613	328	348
8	544	365	388	e660	7770	6490	6960	2620	788	629	356	486
9	1440	373	387	e680	7940	5690	6800	2710	734	579	355	525
10	1600	383	391	e700	7330	5460	14200	2610	686	555	341	470
11	1520	427	395	e740	6660	4990	18400	2350	664	671	343	427
12	1100	476	393	e780	6660	4470	18900	2150	648	636	335	382
13	892	605	388	e880	7820	4090	15600	1970	618	608	322	349
14	770	594	374	e980	7880	3880	12100	1890	564	528	332	365
15	689	541	352	e1200	7030	3780	9860	1700	544	451	443	348
16	666	457	337	e2500	6280	3690	8670	1600	e560	405	817	388
17	588	431	361	e2300	6000	3880	8460	1500	e600	397	778	540
18	548	429	390	e2200	6330	6290	7780	1440	e620	384	601	748
19	551	419	387	e2600	6180	11400	6990	1410	594	424	455	804
20	519	424	390	e6000	5860	10700	7010	1390	522	417	395	638
21	458	410	400	e7000	5210	9400	6920	1300	485	387	397	523
22	447	404	1940	e6000	e4300	10700	6920	1240	467	417	412	447
23	918	396	5060	e5400	e3600	11300	7470	1330	429	447	476	427
24	1210	387	e4300	e26000	e3200	9410	9280	1500	416	442	411	418
25	896	386	2370	e31000	e3100	9060	9470	1890	398	599	371	411
26	830	389	e1400	e25000	3240	8850	8580	2270	391	538	350	402
27	826	396	e1100	19400	3060	8380	7560	1920	e380	479	349	376
28	810	402	e1200	13300	2960	8490	6670	1370	e450	399	497	348
29	794	409	e1200	11000	---	9410	5730	1130	e600	362	915	400
30	663	398	e1000	10200	---	10700	4910	1030	1210	345	738	929
31	603	---	e800	8410	---	11000	---	941	---	317	558	---
TOTAL	22794	12919	28414	189330	180160	231790	291240	65631	19757	18978	13794	13474
MEAN	735	431	917	6107	6434	7477	9708	2117	659	612	445	449
MAX	1600	605	5060	31000	10100	11600	18900	4360	1210	1560	915	929
MIN	352	360	337	600	2960	3390	4910	941	380	317	322	289
CFSM	.25	.14	.31	2.05	2.16	2.51	3.26	.71	.22	.21	.15	.15
IN.	.29	.16	.36	2.37	2.25	2.90	3.64	.82	.25	.24	.17	.17

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1999, BY WATER YEAR (WY)

MEAN	2195	3915	5004	5763	6243	10940	9896	7056	3905	2115	1398	1466
MAX	10330	16700	13570	19060	16640	34360	25010	16670	18840	8100	7826	9220
(WY)	1912	1951	1928	1937	1915	1936	1940	1919	1972	1928	1994	1975
MIN	139	174	307	196	1078	3141	2456	1436	659	368	166	166
(WY)	1931	1931	1931	1931	1934	1969	1925	1941	1999	1965	1930	1908

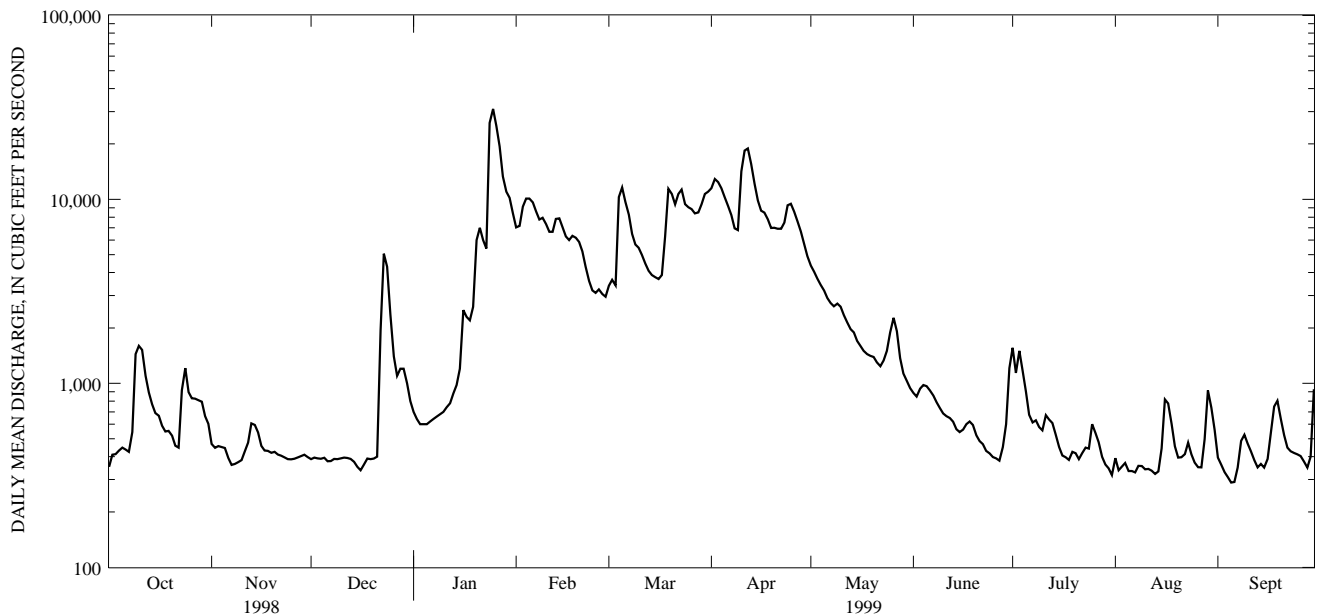
e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1908 - 1999	
ANNUAL TOTAL	1559485		1088281			
ANNUAL MEAN	4273		2982		4984	
HIGHEST ANNUAL MEAN					7683	
LOWEST ANNUAL MEAN					2579	
HIGHEST DAILY MEAN	36100	Jan 9	<sup>e</sup> 31000	Jan 25	201000	Mar 18 1936
LOWEST DAILY MEAN	316	Sep 21	289	Sep 5	80	Dec 6 1908
ANNUAL SEVEN-DAY MINIMUM	325	Sep 16	332	Sep 1	104	Aug 29 1939
INSTANTANEOUS PEAK FLOW			38700	Jan 24	<sup>a</sup> 236000	Mar 18 1936
INSTANTANEOUS PEAK STAGE			11.03	Jan 24	<sup>b</sup> 29.39	Mar 18 1936
INSTANTANEOUS LOW FLOW					80	Dec 6 1908
ANNUAL RUNOFF (CFSM)	1.44		1.00		1.68	
ANNUAL RUNOFF (INCHES)	19.50		13.61		22.76	
10 PERCENT EXCEEDS	12300		9150		11800	
50 PERCENT EXCEEDS	1340		748		2760	
90 PERCENT EXCEEDS	387		374		470	

- a** From rating curve extended above 87,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- b** From floodmark in gage.
- e** Estimated.



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