

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 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Mar. 17, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good 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 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	1080	7800	e2200	9410	3290	11900	9720	4690	2220	788	370
2	716	997	7700	e2200	11800	3010	10500	9640	4750	1920	935	312
3	636	991	6080	e2100	10800	3450	8840	12000	4190	1780	763	291
4	608	1080	4880	e2100	9260	5000	7550	11300	3630	1680	695	268
5	602	1040	4300	2270	7540	5270	6840	9240	4240	1550	649	250
6	589	971	3330	2030	6170	5200	6390	7910	8020	1360	569	256
7	567	902	3090	1970	5360	4880	5750	7020	26000	1220	498	252
8	525	860	2880	1840	4880	4520	4850	6190	21100	1140	487	246
9	494	810	2560	1780	4340	4210	4690	6320	13500	1060	433	226
10	482	783	2580	1770	3920	3900	4660	11900	9700	1110	403	207
11	473	752	2470	1850	5530	3710	4280	11900	7890	1190	396	191
12	469	723	2250	1890	8060	3400	3950	11200	6280	1510	380	188
13	478	688	2110	2240	7950	3160	3900	31200	5700	1130	e360	190
14	460	651	2440	2280	6760	3060	4940	38000	5370	921	337	184
15	616	648	3430	2130	6020	2940	10800	35200	9720	845	355	210
16	924	645	4280	1920	5420	3030	e14000	25900	14500	782	342	602
17	1030	637	4580	1880	5120	4290	e14000	20000	11700	734	318	1320
18	991	608	13200	1790	4590	4730	10400	18700	8840	653	326	870
19	913	600	18300	1650	4020	4210	8350	21500	7070	680	317	668
20	791	595	12800	1380	3660	4590	7460	17900	5890	687	324	512
21	742	621	9400	1500	3780	6880	6870	13900	4700	731	298	429
22	710	666	7320	1630	4200	8980	5950	11400	4190	695	286	425
23	711	648	5980	1650	4050	7950	5440	9230	3620	696	299	462
24	1470	627	5380	1740	3810	7280	5030	7920	3230	759	442	418
25	3090	769	4990	3260	3480	6780	4550	6810	3010	915	617	337
26	2240	4240	4360	5600	3380	7190	4370	6150	2870	807	761	316
27	1780	4360	3810	5580	3610	25100	4000	5430	2650	743	804	519
28	1650	4080	3530	5090	3640	25400	4220	4740	3810	778	661	1790
29	1390	3790	3200	4770	---	16800	10000	4880	4170	891	511	2690
30	1230	4290	2890	5330	---	15400	11900	4900	2880	1020	443	1540
31	1170	---	2370	7230	---	13500	---	5080	---	938	430	---
TOTAL	29349	40152	164290	82650	160560	221110	216380	403180	217910	33145	15227	16539
MEAN	946.7	1338	5300	2666	5734	7133	7213	13010	7264	1069	491.2	551.3
MAX	3090	4360	18300	7230	11800	25400	14000	38000	26000	2220	935	2690
MIN	460	595	2110	1380	3380	2940	3900	4740	2650	653	286	184
CFSM	0.32	0.45	1.78	0.90	1.93	2.40	2.42	4.37	2.44	0.36	0.17	0.19
IN.	0.37	0.50	2.05	1.03	2.01	2.76	2.71	5.04	2.72	0.41	0.19	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2002, BY WATER YEAR (WY)

MEAN	2166	3849	4977	5651	6232	10820	9864	7046	3935	2082	1379	1442
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.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1908 - 2002	
ANNUAL TOTAL	1157520			1600492				
ANNUAL MEAN	3171			4385			4946	
HIGHEST ANNUAL MEAN							7683	
LOWEST ANNUAL MEAN							2579	
HIGHEST DAILY MEAN	18300	Mar 23, Dec 19		38000	May 14		201000	Mar 18 1936
LOWEST DAILY MEAN	351	Sep 13		184	Sep 14		80	Dec 6 1908
ANNUAL SEVEN-DAY MINIMUM	406	Sep 8		199	Sep 9		104	Aug 29 1939
MAXIMUM PEAK FLOW				40100	May 14		a 236000	Mar 18 1936
MAXIMUM PEAK STAGE				11.26	May 14		b 29.39	Mar 18 1936
INSTANTANEOUS LOW FLOW							80	Dec 6 1908
ANNUAL RUNOFF (CFSM)	1.07			1.47			1.66	
ANNUAL RUNOFF (INCHES)	14.47			20.01			22.59	
10 PERCENT EXCEEDS	8550			10400			11700	
50 PERCENT EXCEEDS	1650			2890			2720	
90 PERCENT EXCEEDS	496			438			475	

a From rating curve extended above 87,000 ft³/s on basis of slope-area measurement of peak flow.
b From floodmark in gage.

