

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 sea level. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	971	1230	3050	e1700	3150	3520	7320	3910	2600	1820	455	1040
2	876	1190	2820	e1600	4890	3300	7350	3570	2680	2100	444	1230
3	822	1150	2460	e1500	4210	3170	7170	3280	3330	2270	424	968
4	784	1060	1980	e1300	3300	3000	7050	3100	3940	1880	413	773
5	821	989	2010	e1500	2890	3030	6740	2940	3870	1660	471	666
6	1480	965	2160	e1600	2970	2740	7180	2690	3360	1520	442	552
7	3640	935	1830	e1400	2950	2710	9750	2390	2870	1390	452	506
8	3480	913	1870	e1200	2710	2780	12000	2240	2620	1240	446	438
9	2350	914	1880	e1100	2750	2530	11900	2170	2250	1130	390	408
10	1960	1050	1700	e1200	5270	2440	11900	2090	2020	1120	395	401
11	1610	1750	1610	e1300	11100	2310	11900	2030	1910	1250	490	389
12	1530	2390	2180	e1200	10100	2180	10000	1970	1830	1270	738	358
13	1690	2350	3360	e1200	7790	2610	8560	2060	1680	1080	622	351
14	1600	1920	3190	1240	6810	6330	7290	1970	1550	930	519	500
15	1310	1740	3170	1320	8870	9920	6330	1830	1350	791	411	628
16	1190	1720	3120	1320	13500	8760	8140	1600	1250	724	371	642
17	1150	1610	4720	1290	13300	8430	14400	1540	1250	708	521	539
18	1620	1480	9210	1310	11100	9680	13600	1440	1330	712	725	436
19	6000	1400	8920	1260	8900	9040	11200	1400	1210	699	706	399
20	4920	1340	7020	1240	7740	8550	9660	1400	1070	666	941	393
21	3370	1290	5550	1230	7120	8350	9860	1340	1040	622	1080	440
22	2670	1250	4740	e1100	5970	16500	9740	1450	2080	564	769	498
23	2260	1100	e3700	e1100	5130	18300	9360	2680	5380	520	678	457
24	1970	982	e3000	e1200	4840	14600	8610	5010	10700	482	600	505
25	1920	1020	e2800	e1200	4340	11900	7580	3320	7150	449	544	1060
26	1850	1260	e2400	e1100	4400	9790	6760	3070	4930	483	494	2010
27	1680	2480	e2200	e1000	4200	8360	6020	3640	3500	537	520	1830
28	1600	3140	e2400	e980	3840	7250	5350	4100	2750	582	658	1410
29	1450	3280	e2200	e950	---	6480	4780	3940	2230	536	743	1100
30	1340	3180	e1900	1060	---	6400	4320	3520	1950	454	649	915
31	1270	---	e1800	1340	---	7180	---	3040	---	448	589	---
TOTAL	61184	47078	100950	39040	174140	212140	261820	80730	85680	30637	17700	21842
MEAN	1974	1569	3256	1259	6219	6843	8727	2604	2856	988	571	728
MAX	6000	3280	9210	1700	13500	18300	14400	5010	10700	2270	1080	2010
MIN	784	913	1610	950	2710	2180	4320	1340	1040	448	371	351
CFSM	.66	.53	1.09	.42	2.09	2.30	2.93	.88	.96	.33	.19	.24
IN.	.77	.59	1.26	.49	2.18	2.65	3.27	1.01	1.07	.38	.22	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2001, BY WATER YEAR (WY)

MEAN	2178	3876	4973	5683	6237	10860	9892	6983	3900	2093	1388	1451
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1908 - 2001	
ANNUAL TOTAL	1390130		1132941		4952	
ANNUAL MEAN	3798		3104		7683	
HIGHEST ANNUAL MEAN					1951	
LOWEST ANNUAL MEAN					2579	
HIGHEST DAILY MEAN	25500	Apr 23	18300	Mar 23	201000	Mar 18 1936
LOWEST DAILY MEAN	409	Sep 10	351	Sep 13	80	Dec 6 1908
ANNUAL SEVEN-DAY MINIMUM	470	Sep 6	406	Sep 8	104	Aug 29 1939
MAXIMUM PEAK FLOW			20400	Mar 22	^a 236000	Mar 18 1936
MAXIMUM PEAK STAGE			7.53	Mar 22	^b 29.39	Mar 18 1936
INSTANTANEOUS LOW FLOW					80	Dec 6 1908
ANNUAL RUNOFF (CFSM)	1.28		1.04		1.66	
ANNUAL RUNOFF (INCHES)	17.38		14.17		22.62	
10 PERCENT EXCEEDS	8350		8390		11700	
50 PERCENT EXCEEDS	2280		1830		2720	
90 PERCENT EXCEEDS	773		520		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.

