



2004 Water Year

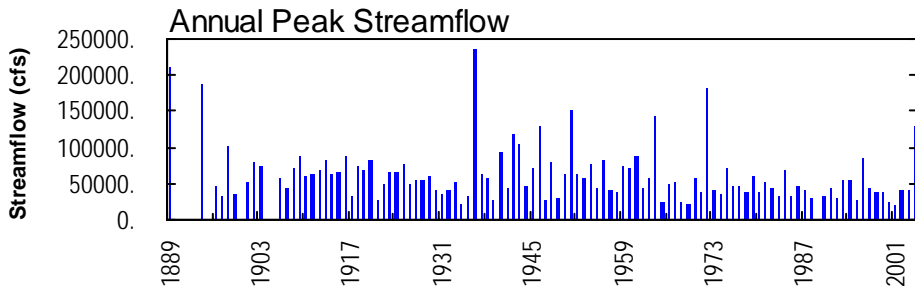
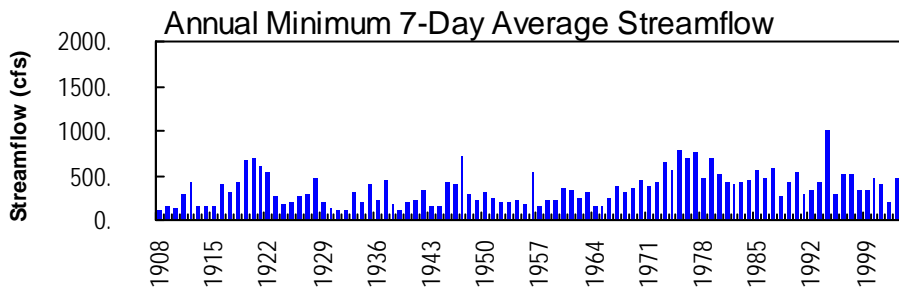
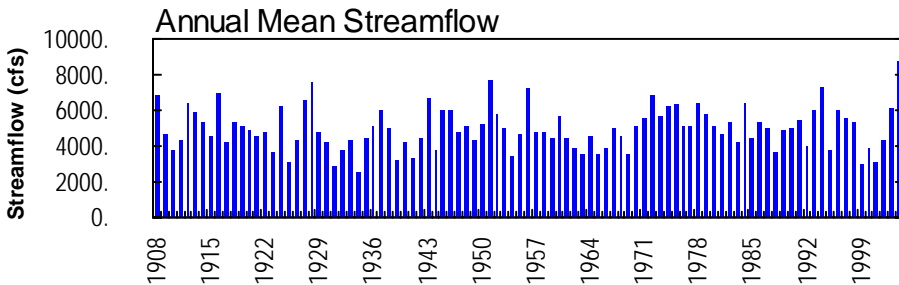
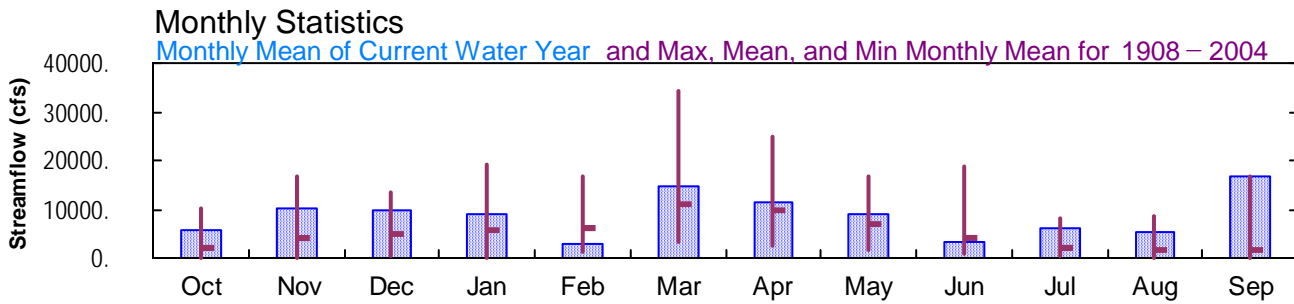
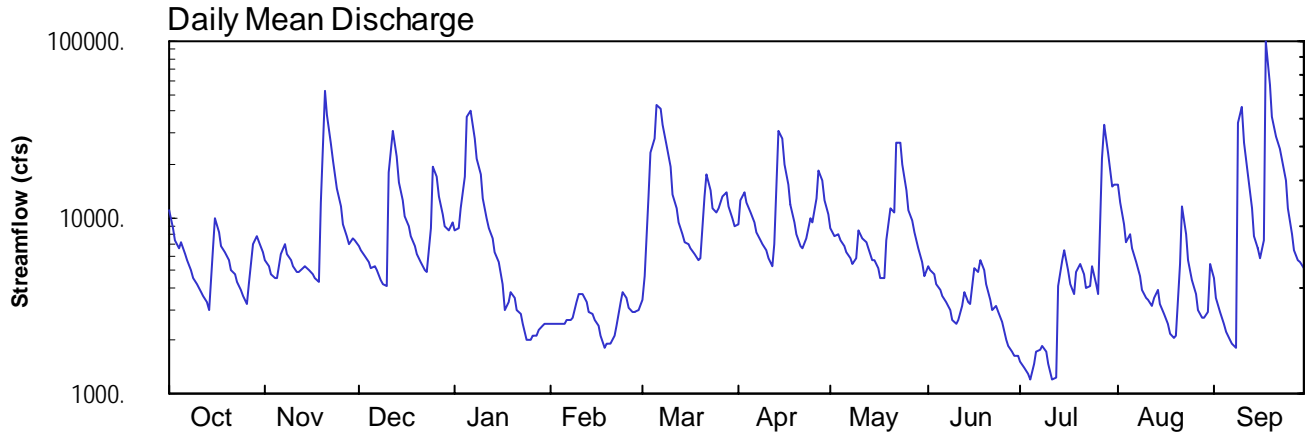
## WEST BRANCH SUSQUEHANNA RIVER BASIN

### 01545500 West Branch Susquehanna River at Renovo, PA

Latitude: 41° 19' 28"  
Clinton County

Longitude: 077° 45' 03"  
Datum: 634.19 feet

Hydrologic Unit Code: 02050203  
Drainage Area: 2975. mi<sup>2</sup>



**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 National Geodetic Vertical Datum of 1929. 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11000	5710	6840	8450	e2500	e3400	9150	8710	5340	1520	15400	4480
2	8730	5240	6540	8580	e2500	e4600	12600	7840	5030	1410	12200	3500
3	7420	4820	6050	11100	e2500	e13000	13700	8070	4750	1300	9050	2930
4	6610	4540	5520	17300	e2500	e23000	12100	7430	4220	1190	7180	2450
5	7250	4470	5190	37600	e2500	27600	10600	6780	e3900	1490	8080	2230
6	6220	6160	5330	39900	e2600	43300	9320	6310	e3600	1740	6660	e2000
7	5690	6970	5000	28000	e2600	41800	8210	5800	e3300	1760	5620	e1900
8	5070	6150	4440	21300	e2700	33500	7400	5420	3000	1860	4690	1830
9	4570	5710	4180	17500	e3300	25900	6960	5840	2590	1730	3880	34100
10	4190	5280	4050	12900	e3700	19400	6570	8400	2460	1460	3520	42100
11	3800	4860	17700	9840	e3700	13500	5880	7680	2630	1210	3420	26700
12	3560	4920	31100	8640	e3300	11200	5340	7170	3140	1230	3130	17700
13	3270	5110	22300	7510	e2900	9480	6970	6600	3790	4040	3510	11100
14	3000	5350	15700	6330	e2800	7990	30700	5790	3310	5690	3860	7880
15	6600	4960	12400	5500	e2600	7260	27900	5660	3190	6460	3250	6640
16	9760	4720	10100	e4200	e2400	6960	20100	5150	5120	5020	2820	5850
17	8310	4550	8840	e3000	e2100	6650	15300	4540	4830	4170	2470	7460
18	6950	4340	7790	e3300	e1800	6130	11700	4480	5670	3640	2200	99100
19	6400	12100	6870	e3800	e1900	5700	9360	7450	5040	4840	2050	55900
20	5780	52100	6220	e3500	e1900	5820	8020	11200	4140	5450	2100	37500
21	5080	38200	5570	e3000	e2100	13000	6820	10600	3370	4820	5480	28900
22	4740	26400	5080	e2800	e2400	17400	6700	26300	2980	3960	11400	24700
23	4270	20900	e4900	e2500	e3300	14200	7570	26700	3110	4090	8120	21400
24	3890	14700	8580	e2000	e3800	11400	9920	19800	2930	5220	5690	16400
25	3540	11400	19300	e2000	e3500	10700	9290	14100	2550	4220	4380	11200
26	3260	9130	16900	e2100	e3100	11400	12700	e11000	2040	3720	3680	8080
27	4170	7880	13000	e2100	e2900	13100	18500	e9500	1850	21700	2970	6440
28	7010	7070	10500	e2300	e2900	13800	16000	8140	1740	33900	2680	5660
29	7860	7520	8900	e2400	e3000	11700	12600	6700	1640	23400	2690	5540
30	7140	7350	8460	e2500	---	9800	10300	5570	1630	15000	2940	5190
31	6280	---	9250	e2500	---	8840	---	4670	---	15500	5410	---
TOTAL	181420	308610	302600	284450	79800	451530	348280	279400	102890	192740	160530	506860
MEAN	5852	10290	9761	9176	2752	14570	11610	9013	3430	6217	5178	16900
MAX	11000	52100	31100	39900	3800	43300	30700	26700	5670	33900	15400	99100
MIN	3000	4340	4050	2000	1800	3400	5340	4480	1630	1190	2050	1830
CFSM	1.97	3.46	3.28	3.08	0.92	4.90	3.90	3.03	1.15	2.09	1.74	5.68
IN.	2.27	3.86	3.78	3.56	1.00	5.65	4.35	3.49	1.29	2.41	2.01	6.34

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2004, BY WATER YEAR (WY)**

MEAN	2190	3908	5020	5693	6165	10880	9864	7054	3960	2143	1494	1678
MAX	10330	16700	13570	19060	16640	34360	25010	16670	18840	8100	8734	16900
(WY)	1912	1951	1928	1937	1915	1936	1940	1919	1972	1928	2003	2004
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1908 - 2004	
ANNUAL TOTAL	2758570		3199110			
ANNUAL MEAN	7558		8741		4997	
HIGHEST ANNUAL MEAN					8741	
LOWEST ANNUAL MEAN					2579	
HIGHEST DAILY MEAN	52100	Nov 20	99100	Sep 18	201000	Mar 18 1936
LOWEST DAILY MEAN	1180	Jul 18,19	1190	Jul 4	80	Dec 6 1908
ANNUAL SEVEN-DAY MINIMUM	1360	Jul 15	1450	Jun 29	104	Aug 29 1939
MAXIMUM PEAK FLOW			128000	Sep 18	<b>a</b> 236000	Mar 18 1936
MAXIMUM PEAK STAGE			21.84	Sep 18	<b>b</b> 29.39	Mar 18 1936
INSTANTANEOUS LOW FLOW					80	Dec 6 1908
ANNUAL RUNOFF (CFSM)	2.54		2.94		1.68	
ANNUAL RUNOFF (INCHES)	34.49		40.00		22.82	
10 PERCENT EXCEEDS	15000		18700		11800	
50 PERCENT EXCEEDS	5710		5700		2790	
90 PERCENT EXCEEDS	2020		2400		481	

**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.