

WEST BRANCH SUSQUEHANNA RIVER BASIN

01542500 WEST BRANCH SUSQUEHANNA RIVER AT KARTHAUS, PA

LOCATION.--Lat 41°07'03", long 78°06'33", Clearfield County, Hydrologic Unit 02050201, on left bank 900 ft upstream from bridge on State Highway 879 at Karthaus, 1,000 ft upstream from Mosquito Creek, and 3.3 mi upstream from Moshannon Creek. Records include flow of Mosquito Creek..

DRAINAGE AREA.--1,462 mi².

PERIOD OF RECORD.--February 1940 to September 1995 (discontinued as a continuous-record station; converted to a crest-stage partial-record station). October 2004 to current year. October 1918 to September 1920 (gage heights only, in reports of Water Supply Commission of Pennsylvania). October 1995 to September 2004 (annual maximum only).

GAGE.--Water-stage recorder. Datum of gage is 830.59 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1920, nonrecording gage at site 900 ft downstream at datum 20.88 ft lower. Feb. 21 to Sept. 30, 1940, nonrecording gage at site 900 ft downstream at present datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated since December 1960 by Glendale Dam (station 01541340) about 70 mi upstream and since November 1965 by Curwensville Dam (01541180) about 50 mi upstream. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 24.5 ft., Mar. 18, 1936, from floodmarks at highway bridge, discharge, about 135,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2800	1540	7690	2200	1670	2450	7110	1480	980	711	389	778
2	2340	1450	10100	2140	1620	2350	6870	1460	892	650	348	526
3	2260	1480	7490	2140	1530	2190	6690	1410	853	550	362	412
4	2360	1610	6010	5860	1510	1900	5660	1320	950	513	343	357
5	2050	1880	4780	8810	1480	1720	7550	1230	956	523	325	328
6	1780	2010	4210	15700	1440	1700	7250	1150	914	600	320	312
7	1650	2060	3890	20400	1440	1970	5620	1100	994	569	315	298
8	1550	1970	4200	16300	1570	3550	5120	1090	981	524	306	288
9	1410	1730	4200	14800	2040	4350	4290	1050	878	548	333	273
10	1350	1790	5180	12400	5190	3540	3670	1050	801	715	345	238
11	1280	1880	7690	11300	6460	3390	3330	1070	794	623	546	261
12	1180	1910	7160	12700	4800	3240	2980	1010	902	521	463	248
13	1180	2110	5890	13400	3780	3650	2640	921	1080	489	360	240
14	1270	2140	5280	13900	3350	3810	2370	897	861	418	358	240
15	1290	1950	4590	11500	5090	2340	2170	996	782	411	350	247
16	1400	1780	3850	8800	7400	2140	1970	1070	795	411	329	246
17	1340	1560	3440	6800	6930	2020	1820	1050	799	759	289	263
18	1200	1440	3110	5910	5450	1930	1700	988	769	741	359	264
19	1970	1390	2830	5120	4720	1960	1640	896	692	678	419	251
20	3630	1380	2510	4540	3870	2240	1600	907	653	546	499	256
21	2670	1420	e1800	4030	3840	2730	1570	980	635	461	437	273
22	2090	1410	e2000	e3300	3760	3140	1550	1010	600	382	384	278
23	1880	1370	2970	e2700	3940	3360	1680	998	598	401	341	265
24	1680	1460	3670	e2300	3680	4980	1980	979	575	481	311	258
25	1560	2810	3380	e2200	3340	5730	1860	1080	537	525	285	244
26	1550	3660	2470	e2400	2870	4850	1710	1070	501	610	e260	262
27	1490	3360	2280	e2300	2650	4320	1600	969	483	668	e250	312
28	1320	4050	1970	e1800	2450	6420	1540	846	472	774	e260	352
29	1270	5080	2160	e1500	---	10800	1430	931	485	701	317	338
30	1420	4610	2260	e1600	---	10600	1410	1060	528	521	383	358
31	1570	---	2250	e1600	---	8510	---	1060	---	436	654	---
TOTAL	53790	64290	131310	220450	97870	117880	98380	33128	22740	17460	11240	9266
MEAN	1735	2143	4236	7111	3495	3803	3279	1069	758	563	363	309
MAX	3630	5080	10100	20400	7400	10800	7550	1480	1080	774	654	778
MIN	1180	1370	1800	1500	1440	1700	1410	846	472	382	250	238
CFSM	1.19	1.47	2.90	4.86	2.39	2.60	2.24	0.73	0.52	0.39	0.25	0.21
IN.	1.37	1.64	3.34	5.61	2.49	3.00	2.50	0.84	0.58	0.44	0.29	0.24

e Estimated.

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01542500 WEST BRANCH SUSQUEHANNA RIVER AT KARTHAUS, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1194	2011	2803	2525	3283	5267	4673	3021	2153	1320	919	892
MAX (WY)	4107	5126	6771	7111	6878	10900	11600	6951	10810	4448	3537	4101
MIN (WY)	1980	1987	1973	2005	1981	1964	1993	1978	1972	1977	1984	1975
MIN (WY)	162	259	281	474	706	1217	1882	1069	549	237	245	154
(WY)	1964	1965	1961	1961	1963	1969	1976	2005	1991	1965	1965	1964

SUMMARY STATISTICS

FOR 2005 WATER YEAR

FOR PERIOD OF DAILY RECORD

ANNUAL TOTAL	877804	
ANNUAL MEAN	2405	2500
HIGHEST ANNUAL MEAN		3585
LOWEST ANNUAL MEAN		1731
HIGHEST DAILY MEAN	20400	Jan 7
LOWEST DAILY MEAN	238	Sep 10
ANNUAL SEVEN-DAY MINIMUM	246	Sep 10
MAXIMUM PEAK FLOW	22200	Jan 7
MAXIMUM PEAK STAGE	9.91	Jan 7
INSTANTANEOUS LOW FLOW		100
ANNUAL RUNOFF (CFSM)	1.64	1.71
ANNUAL RUNOFF (INCHES)	22.34	23.23
10 PERCENT EXCEEDS	5640	5730
50 PERCENT EXCEEDS	1510	1500
90 PERCENT EXCEEDS	336	389

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1960, BY WATER YEAR (WY) (PRIOR TO REGULATION)

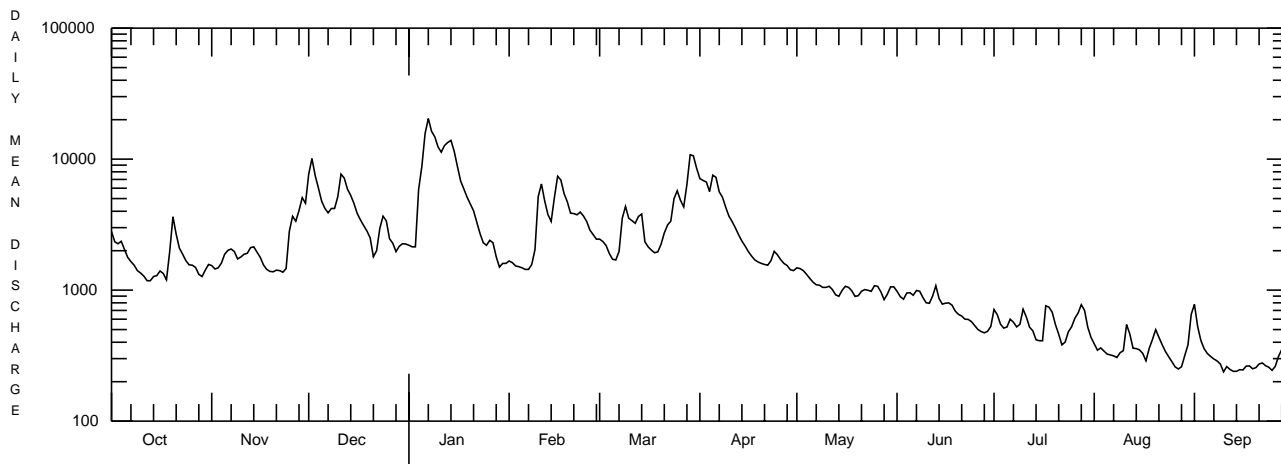
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	914	1593	2537	3364	3263	5145	5170	3754	2091	1063	816	559
MAX (WY)	2557	6463	5334	7957	6540	12120	11460	6528	6192	4565	4394	1891
MIN (WY)	1951	1951	1951	1952	1951	1945	1940	1960	1946	1956	1956	1945
MIN (WY)	184	231	437	602	925	2418	1337	691	637	322	239	157
(WY)	1952	1954	1944	1956	1958	1947	1946	1941	1949	1952	1957	1943

SUMMARY STATISTICS

WATER YEARS 1940 - 1960

ANNUAL MEAN	2499
HIGHEST ANNUAL MEAN	3809
LOWEST ANNUAL MEAN	1656
HIGHEST DAILY MEAN	44600
LOWEST DAILY MEAN	111
ANNUAL SEVEN-DAY MINIMUM	116
MAXIMUM PEAK FLOW	a50900
MAXIMUM PEAK STAGE	13.90
INSTANTANEOUS LOW FLOW	109
ANNUAL RUNOFF (CFSM)	1.71
ANNUAL RUNOFF (INCHES)	23.22
10 PERCENT EXCEEDS	5890
50 PERCENT EXCEEDS	1380
90 PERCENT EXCEEDS	261

a From rating curve extended above 50,000 ft³/s.



OCTOBER 1, 2004 TO SEPTEMBER 30, 2005