

BEAVER RIVER BASIN

03102850 SHENANGO RIVER NEAR TRANSFER, PA

LOCATION.--Lat 41°21'13", long 80°23'53", Mercer County, Hydrologic Unit 05030102, on left bank at downstream side of covered wooden bridge, 200 ft downstream from highway bridge, 0.6 mi downstream from Big Run, 2.5 mi northeast of Transfer, at mile 71.8.

DRAINAGE AREA.--337 mi².

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR PA-71-3: 1966, 1967.

GAGE.--Water-stage recorder. Datum of gage is 913.94 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Department of Transportation benchmark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since December 1933 by Pymatuning Reservoir (station 03100500) 13 mi upstream and by mills above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	121	138	1260	e319	e381	452	212	1910	130	733	283
2	98	121	e133	1080	e319	e376	452	264	865	119	788	593
3	95	120	e128	643	e323	e376	407	203	668	115	1040	399
4	95	120	e128	e534	e586	e381	443	188	617	281	998	272
5	96	121	e126	e442	e1060	e486	2780	202	575	339	1180	233
6	95	134	e122	e388	e645	e752	1590	259	536	311	1850	212
7	94	134	e118	e361	e426	e480	884	267	502	331	1090	200
8	93	136	e115	e361	e370	e590	1050	244	551	232	884	188
9	93	132	e114	e350	e342	1710	760	289	819	327	852	180
10	94	144	e112	e350	e325	920	667	550	592	536	1470	172
11	94	342	e114	e353	e309	474	582	445	598	745	1730	167
12	94	253	e121	e350	e314	420	522	410	837	354	1040	161
13	95	174	e149	e353	e314	787	466	680	1400	215	865	157
14	96	147	e228	e350	e286	859	423	558	889	178	795	160
15	97	133	e398	e332	e265	758	399	421	648	161	757	198
16	111	133	e284	e325	e266	882	385	396	593	147	739	222
17	113	171	e201	e314	e266	818	376	360	679	96	720	225
18	108	210	e182	e307	e260	625	367	327	686	165	699	304
19	119	193	e173	e303	e262	491	357	289	695	164	369	678
20	120	189	e512	e303	e249	414	353	293	686	159	198	590
21	116	174	e411	e307	e258	473	536	648	649	2840	186	313
22	111	181	e337	e307	e316	677	516	421	628	5560	180	392
23	107	208	e295	e307	e893	483	424	319	606	3260	173	1110
24	106	181	e263	e307	e645	382	367	1230	590	2840	168	669
25	107	165	e245	e303	e516	341	338	628	581	1670	165	484
26	142	159	e236	e303	e477	653	257	460	450	1070	201	406
27	141	153	e230	e311	e415	572	241	377	186	1060	220	1450
28	127	148	e228	e311	e399	450	230	366	176	1560	193	1340
29	118	143	e232	e307	---	573	223	366	167	1220	202	676
30	119	138	e241	e319	---	676	215	338	163	895	228	581
31	118	---	963	e319	---	500	---	1490	---	879	207	---
TOTAL	3313	4878	7277	12460	11425	18760	17062	13500	19542	27959	20920	13015
MEAN	107	163	235	402	408	605	569	435	651	902	675	434
MAX	142	342	963	1260	1060	1710	2780	1490	1910	5560	1850	1450
MIN	93	120	112	303	249	341	215	188	163	96	165	157
CFSM	0.32	0.48	0.70	1.19	1.21	1.80	1.69	1.29	1.93	2.68	2.00	1.29
IN.	0.37	0.54	0.80	1.38	1.26	2.07	1.88	1.49	2.16	3.09	2.31	1.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2003, BY WATER YEAR (WY)

MEAN	279	509	783	649	654	657	563	435	337	260	208	249
MAX	1034	1627	1343	1242	1319	1212	1273	1162	1080	902	1005	717
(WY)	1991	1986	1991	1993	1990	1985	1994	2002	1989	2003	1980	1987
MIN	57.9	88.4	128	151	121	172	207	82.9	86.2	46.5	81.6	101
(WY)	1983	1999	1999	1977	1987	1969	1968	1987	1967	1968	1982	1999

e Estimated.

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03102850 SHENANGO RIVER NEAR TRANSFER, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1966 - 2003	
ANNUAL TOTAL	141545		170111			
ANNUAL MEAN	388		466		464	
HIGHEST ANNUAL MEAN					663	1997
LOWEST ANNUAL MEAN					265	1999
HIGHEST DAILY MEAN	3880	May 13	5560	Jul 22	5560	Jul 22 2003
LOWEST DAILY MEAN	93	Oct 8,9	93	Oct 8,9	33	Jul 21 1968
ANNUAL SEVEN-DAY MINIMUM	94	Oct 6	94	Oct 6	39	Jul 17 1968
MAXIMUM PEAK FLOW			a6150	Jul 22	a6150	Jul 22 2003
MAXIMUM PEAK STAGE			11.33	Jul 22	11.33	Jul 22 2003
INSTANTANEOUS LOW FLOW			73	Jul 17	33	Jul 20 1968
ANNUAL RUNOFF (CFSM)	1.15		1.38		1.38	
ANNUAL RUNOFF (INCHES)	15.62		18.78		18.72	
10 PERCENT EXCEEDS	877		886		992	
50 PERCENT EXCEEDS	238		327		287	
90 PERCENT EXCEEDS	111		120		101	

a From rating curve extended above 4,800 ft³/s.

