

## 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 mi<sup>2</sup>.

**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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	163	1110	e257	1460	e316	658	722	716	136	151	121
2	118	154	498	e258	1030	336	646	1970	686	137	144	121
3	117	158	347	e261	620	486	1890	1520	669	128	139	128
4	109	155	277	248	501	433	1340	965	664	123	138	111
5	97	146	245	245	422	331	866	832	597	118	141	109
6	119	140	225	243	390	322	733	698	1100	115	138	107
7	110	129	207	e241	369	329	649	771	701	113	136	106
8	111	125	193	e238	e364	323	613	922	435	116	134	104
9	105	126	184	e238	e347	312	699	923	353	189	134	103
10	106	126	175	e246	e376	332	911	727	310	197	132	102
11	107	123	167	e277	e497	322	706	565	280	178	130	100
12	114	117	158	e283	e401	302	677	1660	278	172	131	100
13	119	114	170	e288	e353	297	967	3880	259	170	131	99
14	128	113	198	e285	e329	288	1670	3350	982	168	132	109
15	140	112	255	e288	e335	285	1970	1720	796	165	133	155
16	146	111	210	e289	e322	464	1400	1200	454	163	134	166
17	172	110	429	e288	e311	439	1050	1160	346	162	141	126
18	171	107	1440	e282	e304	372	911	1410	295	161	138	115
19	151	116	795	e280	e309	345	829	1180	262	160	142	110
20	142	179	497	263	347	432	846	993	241	160	138	109
21	143	190	e438	259	464	590	794	943	216	159	136	108
22	234	158	e413	252	e368	466	733	894	166	158	140	109
23	243	143	e441	265	e327	411	698	840	159	166	145	111
24	423	134	747	e308	e332	423	667	801	151	166	151	109
25	365	227	513	e466	e329	554	657	780	146	165	143	110
26	239	355	395	e342	e328	984	647	816	146	160	139	110
27	296	238	351	e263	e322	1810	627	786	177	159	134	153
28	407	208	e317	e195	e316	1210	850	753	188	175	128	164
29	276	341	e294	e282	---	833	963	735	156	261	124	140
30	218	1210	e279	566	---	990	805	766	143	217	123	115
31	179	---	e266	984	---	782	---	743	---	167	122	---
TOTAL	5528	5828	12234	9480	12173	16119	27472	36025	12072	4984	4222	3530
MEAN	178	194	395	306	435	520	916	1162	402	161	136	118
MAX	423	1210	1440	984	1460	1810	1970	3880	1100	261	151	166
MIN	97	107	158	195	304	285	613	565	143	113	122	99
CFSM	0.53	0.58	1.17	0.91	1.29	1.54	2.72	3.45	1.19	0.48	0.40	0.35
IN.	0.61	0.64	1.35	1.05	1.34	1.78	3.03	3.98	1.33	0.55	0.47	0.39

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002				
MEAN	284	519	797	655	661	658	562	435	328	242	196	244																													
MAX	1034	1627	1343	1242	1319	1212	1273	1162	1080	873	1005	717																													
(WY)	1991	1986	1991	1993	1990	1985	1994	2002	1989	1972	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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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	101468		149667			
ANNUAL MEAN	278		410		464	
HIGHEST ANNUAL MEAN					663	1997
LOWEST ANNUAL MEAN					265	1999
HIGHEST DAILY MEAN	1440	Dec 18	3880	May 13	5120	Nov 5 1985
LOWEST DAILY MEAN	68	Jun 27	97	Oct 5	33	Jul 21 1968
ANNUAL SEVEN-DAY MINIMUM	87	Jun 14	102	Sep 7	39	Jul 17 1968
MAXIMUM PEAK FLOW			4350	May 14	a5390	Nov 5 1985
MAXIMUM PEAK STAGE			8.14	May 14	10.47	Nov 5 1985
INSTANTANEOUS LOW FLOW					33	Jul 20 1968
ANNUAL RUNOFF (CFSM)	0.82		1.22		1.38	
ANNUAL RUNOFF (INCHES)	11.20		16.52		18.71	
10 PERCENT EXCEEDS	539		911		992	
50 PERCENT EXCEEDS	179		262		283	
90 PERCENT EXCEEDS	109		115		100	

a From rating curve extended above 4,800 ft<sup>3</sup>/s.

