

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 sea level (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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	153	367	e310	921	374	514	196	149	158	109	124
2	102	447	334	e300	617	374	492	193	295	155	110	134
3	101	463	304	e300	477	373	477	188	226	137	121	120
4	104	465	279	e290	440	371	463	182	186	134	118	114
5	131	464	282	e280	421	380	379	177	162	134	114	110
6	243	439	272	e270	422	374	443	170	154	129	111	108
7	215	376	268	e260	407	370	495	164	164	127	110	108
8	181	373	268	e260	398	388	364	164	152	221	109	107
9	192	254	267	e260	877	442	385	155	132	162	109	107
10	217	262	261	e260	1150	441	800	148	119	140	109	108
11	209	289	274	e260	664	451	479	139	143	132	108	107
12	172	282	673	e255	474	465	406	240	142	125	109	106
13	150	267	513	e255	449	1090	352	247	117	122	108	110
14	139	256	446	e255	692	1260	306	186	104	120	107	121
15	132	252	409	e255	1370	790	304	166	97	119	106	118
16	127	249	789	e300	845	662	1030	155	91	118	107	114
17	125	249	2970	e320	654	706	917	146	87	117	107	110
18	128	247	1690	e350	543	648	605	149	81	118	108	110
19	126	245	856	e330	490	587	458	141	77	119	109	110
20	124	244	e540	e310	496	550	427	132	73	117	110	117
21	125	242	e470	e300	481	589	547	129	167	115	115	117
22	121	245	e420	e300	420	818	454	225	114	115	110	132
23	119	245	e460	e290	414	651	393	348	107	113	111	121
24	121	245	e450	e280	394	569	351	243	93	112	110	127
25	123	249	e420	e260	409	540	323	250	82	114	110	126
26	123	365	e390	e260	434	529	296	546	74	116	115	121
27	123	495	e360	e250	407	515	278	336	68	113	115	121
28	123	431	e320	e240	393	522	269	246	74	113	117	174
29	121	354	e320	e240	---	543	253	206	128	110	114	151
30	119	358	e315	e360	---	538	232	178	139	110	109	127
31	118	---	e315	1250	---	539	---	155	---	109	122	---
TOTAL	4358	9505	16302	9710	16159	17449	13492	6300	3797	3944	3447	3580
MEAN	141	317	526	313	577	563	450	203	127	127	111	119
MAX	243	495	2970	1250	1370	1260	1030	546	295	221	122	174
MIN	101	153	261	240	393	370	232	129	68	109	106	106
CFM	.42	.94	1.56	.93	1.71	1.67	1.33	.60	.38	.38	.33	.35
IN.	.48	1.05	1.80	1.07	1.78	1.93	1.49	.70	.42	.44	.38	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	287	528	809	665	667	662	553	414	326	244	197	248
MAX	1034	1627	1343	1242	1319	1212	1273	1119	1080	873	1005	717
(WY)	1991	1986	1991	1993	1990	1985	1994	1984	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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03102850 SHENANGO RIVER NEAR TRANSFER, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	120355		108043			
ANNUAL MEAN	329		296		466	
HIGHEST ANNUAL MEAN					663	1997
LOWEST ANNUAL MEAN					265	1999
HIGHEST DAILY MEAN	2970	Dec 17	2970	Dec 17	5120	Nov 5 1985
LOWEST DAILY MEAN	62	Jul 25	68	Jun 27	33	Jul 21 1968
ANNUAL SEVEN-DAY MINIMUM	68	Jul 20	87	Jun 14	39	Jul 17 1968
MAXIMUM PEAK FLOW			3150	Dec 17	a5390	Nov 5 1985
MAXIMUM PEAK STAGE			6.61	Dec 17	10.47	Nov 5 1985
INSTANTANEOUS LOW FLOW					33	Jul 20 1968
ANNUAL RUNOFF (CFSM)	.98		.88		1.38	
ANNUAL RUNOFF (INCHES)	13.29		11.93		18.78	
10 PERCENT EXCEEDS	668		540		996	
50 PERCENT EXCEEDS	239		244		285	
90 PERCENT EXCEEDS	91		109		100	

a From rating curve extended above 3,300 ft³/s.

