

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 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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	83	93	113	573	900	141	333	121	122	136	94
2	103	83	91	250	1050	651	148	318	125	132	127	94
3	105	59	89	286	1210	1090	157	308	129	124	115	93
4	108	50	88	184	866	1240	181	299	125	119	117	93
5	105	50	88	142	721	678	414	293	116	115	117	93
6	100	53	88	e115	633	597	326	287	111	113	113	95
7	106	53	89	e100	612	538	244	266	107	118	107	95
8	271	55	87	e88	697	466	204	216	102	114	112	90
9	190	55	85	e82	626	e400	596	226	98	127	108	95
10	129	85	83	e88	601	e370	1240	214	108	139	107	94
11	110	174	85	e84	615	e330	1100	202	254	127	105	100
12	98	146	82	e92	675	e320	1220	195	114	118	103	101
13	93	115	80	e105	730	e290	705	181	99	113	108	104
14	90	103	79	e115	644	e280	462	141	107	109	117	102
15	90	96	79	e125	625	e260	352	138	105	106	109	102
16	90	90	78	e140	659	e350	368	133	98	104	104	103
17	90	88	85	e150	702	650	662	127	95	105	102	101
18	94	86	88	e170	689	1030	571	127	94	108	100	104
19	125	84	90	e240	620	621	695	157	93	112	100	103
20	111	90	97	e450	578	428	722	155	92	110	101	103
21	107	94	134	e490	546	356	516	131	90	107	100	103
22	115	91	618	e760	519	319	675	124	90	111	99	102
23	111	89	346	3070	504	296	890	121	89	118	99	101
24	105	86	209	3930	504	273	997	262	127	113	95	100
25	101	85	231	1810	500	255	591	330	131	107	102	101
26	98	113	e180	1010	501	234	548	209	132	104	110	101
27	95	110	e125	781	502	184	483	171	142	102	106	100
28	83	101	e90	938	794	172	433	151	174	108	105	100
29	83	94	e96	853	---	163	385	136	152	178	102	120
30	83	91	e108	677	---	152	353	125	126	150	99	147
31	83	---	121	590	---	144	---	117	---	129	95	---
TOTAL	3379	2652	3982	18028	18496	14037	16379	6193	3546	3662	3320	3034
MEAN	109	88.4	128	582	661	453	546	200	118	118	107	101
MAX	271	174	618	3930	1210	1240	1240	333	254	178	136	147
MIN	83	50	78	82	500	144	141	117	89	102	95	90
CFM	.32	.26	.38	1.73	1.96	1.34	1.62	.59	.35	.35	.32	.30
IN.	.37	.29	.44	1.99	2.04	1.55	1.81	.68	.39	.40	.37	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

MEAN	297	539	824	678	680	678	555	422	326	251	202	255
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

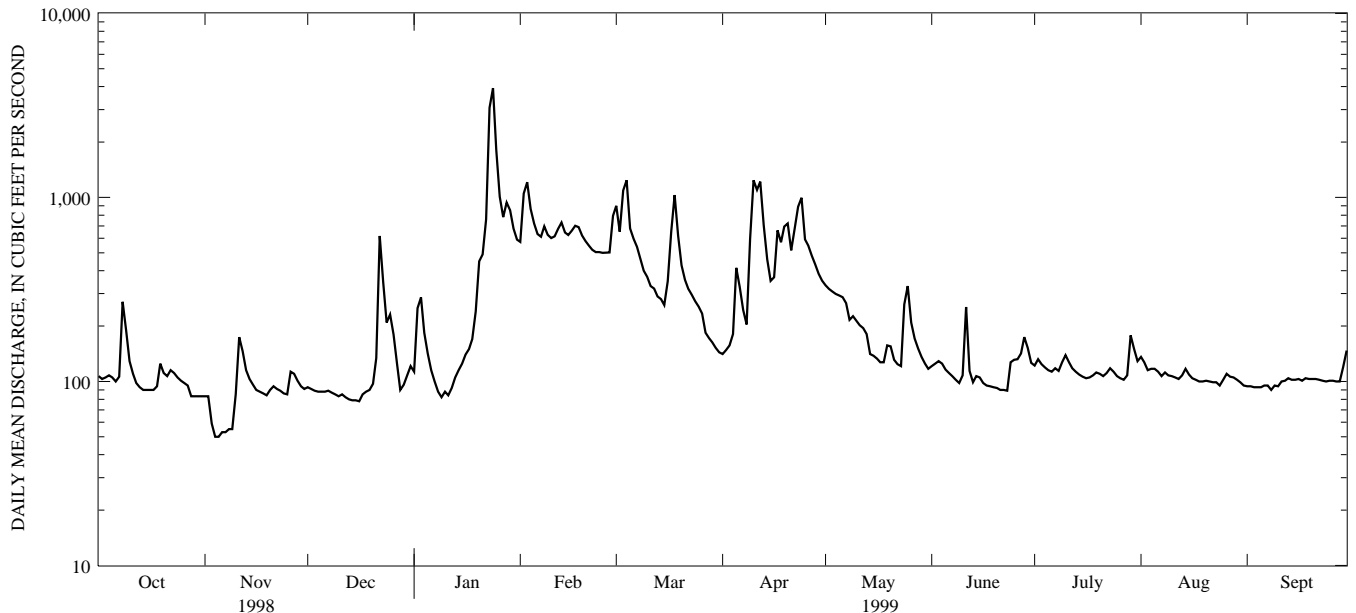
e Estimated.

BEAVER RIVER BASIN

03102850 SHENANGO RIVER NEAR TRANSFER, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1966 - 1999		
ANNUAL TOTAL	123979			96708			475		
ANNUAL MEAN	340			265			663		
HIGHEST ANNUAL MEAN							1997		
LOWEST ANNUAL MEAN							1999		
HIGHEST DAILY MEAN	4570	Jan	9	3930	Jan	24	5120	Nov	5 1985
LOWEST DAILY MEAN	50	Nov	4,5	50	Nov	4,5	33	Jul	21 1968
ANNUAL SEVEN-DAY MINIMUM	54	Nov	3	54	Nov	3	39	Jul	17,22 1968
INSTANTANEOUS PEAK FLOW				a4470	Jan	24	a5390	Nov	5 1985
INSTANTANEOUS PEAK STAGE				8.31	Jan	24	10.47	Nov	5 1985
INSTANTANEOUS LOW FLOW							33	Jul	20-22 1968
ANNUAL RUNOFF (CFSM)	1.01			.79			1.41		
ANNUAL RUNOFF (INCHES)	13.69			10.68			19.13		
10 PERCENT EXCEEDS	808			650			1010		
50 PERCENT EXCEEDS	140			118			290		
90 PERCENT EXCEEDS	82			88			100		

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



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999