

## BEAVER RIVER BASIN

03102500 LITTLE SHENANGO RIVER AT GREENVILLE, PA  
(Pennsylvania Water-Quality Network Station)

**LOCATION.**--Lat 41°25'19", long 80°22'35", Mercer County, Hydrologic Unit 05030102, on left bank 1,700 ft downstream from Williamson Crossing bridge, 1 mi northeast of Greenville, and 2.0 mi upstream from mouth.

**DRAINAGE AREA.**--104 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1913 to current year. Monthly discharge only for some periods, published in WSP 1305.

**REVISED RECORDS.**--WSP 743: Drainage area. WSP 1305: 1914, 1922-23, 1926-29. WSP 1335: 1923 (m).

**GAGE.**--Water-stage recorder. Datum of gage is 953.46 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 4, 1915, nonrecording gage; Nov. 4, 1915, to Sept. 30, 1918, water-stage recorder; Nov. 7, 1919, to Aug. 31, 1923, and Nov. 19, 1925, to June 20, 1934, nonrecording gage at site 1 mi downstream at datum 8.96 ft lower.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
May 14	0400	*2,020	*7.04	No other peak greater than base discharge.			

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	15	60	636	e69	628	100	264	147	75	29	21	6.5
2	12	53	270	e61	578	106	206	480	63	27	17	6.1
3	10	55	173	e56	309	177	433	682	53	25	14	6.9
4	8.0	56	130	e55	218	182	587	254	50	22	12	11
5	8.0	50	109	e52	158	107	358	164	64	21	11	11
6	14	42	99	e50	138	100	274	130	465	19	11	8.7
7	16	37	92	57	123	105	215	127	307	18	10	7.6
8	15	34	83	56	122	101	182	143	171	18	9.2	6.3
9	11	35	78	55	117	92	198	197	125	22	8.7	5.7
10	12	36	74	59	112	107	376	178	101	28	8.2	5.4
11	11	35	67	81	203	103	247	124	84	22	7.6	4.8
12	9.8	32	59	95	194	88	175	376	77	18	7.9	4.1
13	16	30	63	98	151	83	261	1450	72	16	7.6	3.7
14	16	29	79	92	113	78	566	1760	263	15	7.5	6.4
15	25	28	109	92	113	73	927	859	339	15	8.2	22
16	28	28	91	96	117	170	620	450	148	14	9.0	34
17	36	26	149	89	124	180	374	472	103	13	9.6	20
18	48	25	679	82	104	125	288	534	80	12	17	13
19	36	26	511	66	99	110	233	432	67	11	15	10
20	29	66	270	86	108	132	235	289	57	11	13	8.8
21	27	83	199	68	170	269	192	225	51	11	12	8.3
22	73	60	152	63	183	187	156	177	45	9.5	11	8.1
23	89	50	179	66	145	149	134	135	41	11	14	7.3
24	213	44	364	144	118	154	114	112	37	18	18	6.7
25	190	81	252	227	108	204	105	102	33	17	16	6.9
26	107	209	160	e144	106	298	100	112	36	12	14	8.1
27	112	111	e116	e97	118	802	88	107	52	11	12	20
28	192	90	e100	e65	110	616	182	91	56	12	9.9	39
29	130	140	e91	86	---	369	286	82	40	62	8.4	28
30	95	453	e83	186	---	416	198	90	32	63	8.1	18
31	71	---	e75	420	---	386	---	88	---	32	7.1	---
TOTAL	1674.8	2104	5592	3013	4887	6169	8574	10569	3187	634.5	355.0	352.4
MEAN	54.0	70.1	180	97.2	175	199	286	341	106	20.5	11.5	11.7
MAX	213	453	679	420	628	802	927	1760	465	63	21	39
MIN	8.0	25	59	50	99	73	88	82	32	9.5	7.1	3.7
CFSM	0.52	0.67	1.73	0.93	1.68	1.91	2.75	3.28	1.02	0.20	0.11	0.11
IN.	0.60	0.75	2.00	1.08	1.75	2.21	3.07	3.78	1.14	0.23	0.13	0.13

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	59.3	122	176	205	223	294	233	156	92.6	59.6	41.8	40.5
MAX	343	639	521	773	553	659	506	511	395	457	284	316
(WY)	1927	1986	1928	1937	1976	1963	1957	1929	1989	1958	1980	1926
MIN	5.19	6.31	16.8	21.3	36.0	66.5	16.7	21.8	11.9	5.91	5.33	5.90
(WY)	1964	1931	1961	1977	1963	1915	1915	1934	1934	1934	1930	1930

e Estimated.

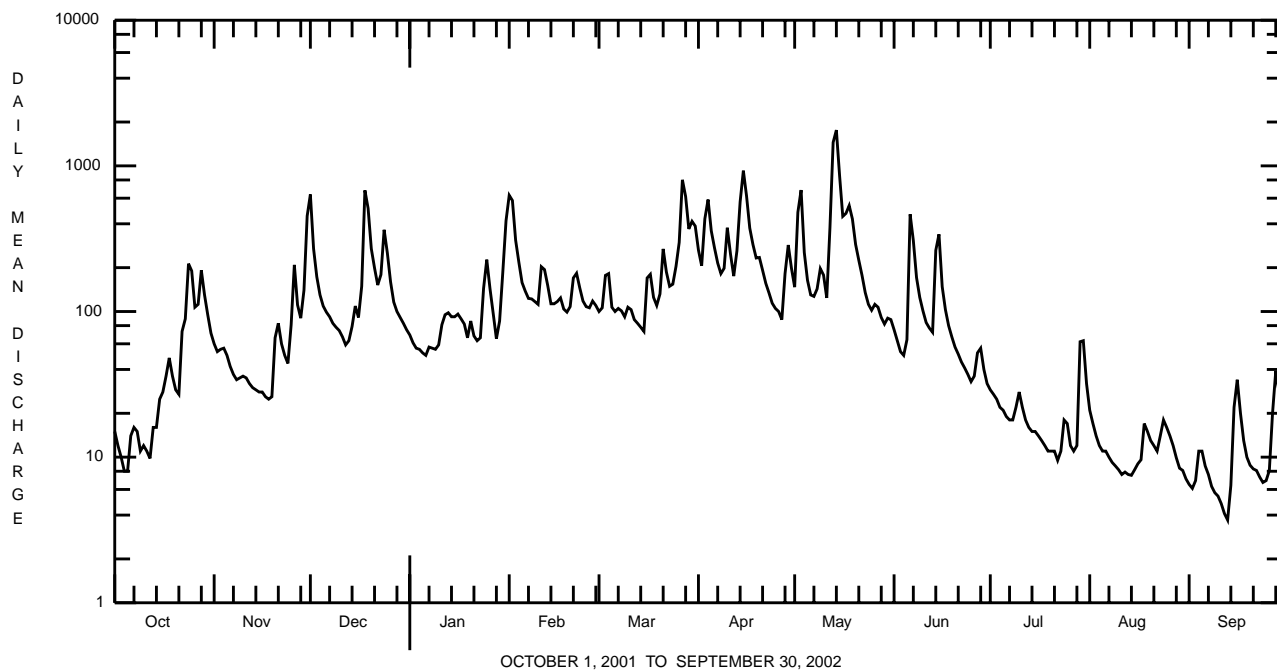
## BEAVER RIVER BASIN

## 03102500 LITTLE SHENANGO RIVER AT GREENVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	32475.7		47111.7			
ANNUAL MEAN	89.0		129		141	
HIGHEST ANNUAL MEAN					218	1956
LOWEST ANNUAL MEAN					65.6	1931
HIGHEST DAILY MEAN	679	Dec 18	1760	May 14	5980	Jan 22 1959
LOWEST DAILY MEAN	2.8	Aug 16	3.7	Sep 13	2.8	Aug 16 2001
ANNUAL SEVEN-DAY MINIMUM	3.3	Sep 7	5.2	Sep 8	3.3	Sep 7 2001
MAXIMUM PEAK FLOW			2020	May 14	a8540	Jan 22 1959
MAXIMUM PEAK STAGE			7.04	May 14	14.30	Jan 22 1959
INSTANTANEOUS LOW FLOW			3.5	Sep 13,14	2.4	Aug 16 2001 <sup>b</sup>
ANNUAL RUNOFF (CFSM)	0.86		1.24		1.36	
ANNUAL RUNOFF (INCHES)	11.62		16.85		18.48	
10 PERCENT EXCEEDS	199		293		326	
50 PERCENT EXCEEDS	61		81		66	
90 PERCENT EXCEEDS	6.5		9.9		12	

<sup>a</sup> From rating curve extended above 3,200 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 12.26 ft.

<sup>b</sup> Also Sept. 13.



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 210-233.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR 2002	23...	9813	134	40	8.8	7.6	214	8.4	81	24.1	5.1	60	18.6
JUN	11...	9813	84.8	40	7.9	7.6	233	21.6	90	26.9	5.5	68	14.9
AUG	13...	9813	7.4	40	7.9	7.8	345	22.0	160	49.5	10.0	126	25.9

Date	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA (MG/L AS N) (00610)	NITRO-GEN, NITRATE (MG/L AS N) (00620)	NITRO-GEN, NITRITE (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	
APR 2002	23...	178	6	.040	.42	<.040	.82	.02	.030	5.1	<10	820	<1.0	120
JUN	11...	132	22	.070	.34	<.040	1.1	.04	.060	6.8	<10	1790	1.5	160
AUG	13...	242	16	<.020	.13	<.040	.65	.03	.060	4.4	<10	750	1.9	150

Date	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	
APR 2002	23...	<50	<10
JUN	11...	<50	10
AUG	13...	<50	<10