

BEAVER RIVER BASIN

03106000 CONNOQUENESSING CREEK NEAR ZELIENOPLE, PA

LOCATION.--Lat 40°49'01", long 80°14'33", Beaver County, Hydrologic Unit 05030105, on right bank at downstream side of highway bridge at Hazen, 0.3 mi upstream from Brush Creek, 4 mi southeast of Ellwood City, and 6.0 mi west of Zelenople.

DRAINAGE AREA.--356 mi².

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1305. June 1915 to September 1919 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania. Published as "at Hazen" 1915-16, 1929-63, and as "near Hazen" 1917-28.

REVISED RECORDS.--WSP 743: Drainage area. WSP 893: 1937-38, 1939 (M). WSP 1305: 1922-26, 1928. WSP 1335: 1920-21, 1924 (M). WSP 1385: 1952.

GAGE.--Water-stage recorder. Datum of gage is 852.31 ft above sea level. Prior to June 23, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by mills above station. 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 5,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	0600	*6,260	*8.93	No other peak greater than base discharge.			

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	29	41	49	e130	486	1130	199	308	149	53	82	35
2	28	41	49	e115	1370	806	222	281	167	962	87	32
3	32	42	49	e140	1250	786	204	247	162	420	51	31
4	84	44	47	e155	958	1300	209	230	141	155	38	29
5	99	44	44	e100	849	985	337	217	116	100	34	28
6	55	44	44	e105	692	1090	300	209	102	74	32	28
7	43	45	43	e108	628	1250	266	204	92	62	31	27
8	712	48	43	e110	1100	830	235	205	86	51	41	29
9	375	48	42	e140	854	e680	1250	257	79	46	109	30
10	146	59	41	e200	715	e590	3390	195	72	55	59	28
11	98	140	40	e300	610	e520	1890	167	67	74	41	25
12	76	136	40	e210	e595	e480	1450	156	66	50	35	24
13	65	81	38	e270	e685	e440	1010	146	61	39	33	25
14	57	65	37	e420	e583	e400	781	169	58	35	50	24
15	54	57	37	e600	e515	e390	660	156	64	34	59	24
16	51	53	35	e580	e460	478	690	127	64	33	41	24
17	51	51	35	e520	e467	626	723	113	52	32	33	23
18	49	49	39	e600	447	974	636	109	45	31	29	21
19	65	48	48	e720	408	821	562	1250	45	29	27	21
20	98	49	49	e900	362	663	573	599	42	28	25	21
21	70	61	68	e1100	315	582	590	349	38	28	24	24
22	62	75	1560	e1400	263	530	725	268	35	37	24	28
23	56	59	608	e2700	232	456	857	302	34	52	24	29
24	55	50	302	5620	243	399	899	376	33	44	24	23
25	50	45	187	2870	226	350	718	865	33	35	40	22
26	49	52	217	1560	227	307	631	527	32	33	192	22
27	48	91	410	1100	221	277	549	390	32	26	319	22
28	48	79	237	1090	639	257	469	301	59	94	109	20
29	47	62	115	950	---	242	403	240	96	319	68	20
30	46	53	e149	716	---	221	346	197	63	200	50	70
31	41	---	e165	567	---	203	---	164	---	80	40	---
TOTAL	2839	1812	4867	26096	16400	19063	21774	9324	2185	3311	1851	809
MEAN	91.6	60.4	157	842	586	615	726	301	72.8	107	59.7	27.0
MAX	712	140	1560	5620	1370	1300	3390	1250	167	962	319	70
MIN	28	41	35	100	221	203	199	109	32	26	24	20
CFSM	.26	.17	.44	2.36	1.65	1.73	2.04	.84	.20	.30	.17	.08
IN.	.30	.19	.51	2.73	1.71	1.99	2.28	.97	.23	.35	.19	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1999, BY WATER YEAR (WY)

MEAN	163	340	561	663	755	983	770	518	328	203	150	132
MAX	1290	1648	1778	2607	2048	2324	2054	1283	1518	1373	775	1743
(WY)	1955	1986	1928	1937	1956	1945	1940	1983	1989	1928	1980	1926
MIN	11.3	12.3	22.3	16.4	97.7	154	182	62.3	24.4	20.5	11.2	11.4
(WY)	1931	1931	1961	1931	1934	1969	1946	1934	1934	1936	1930	1930

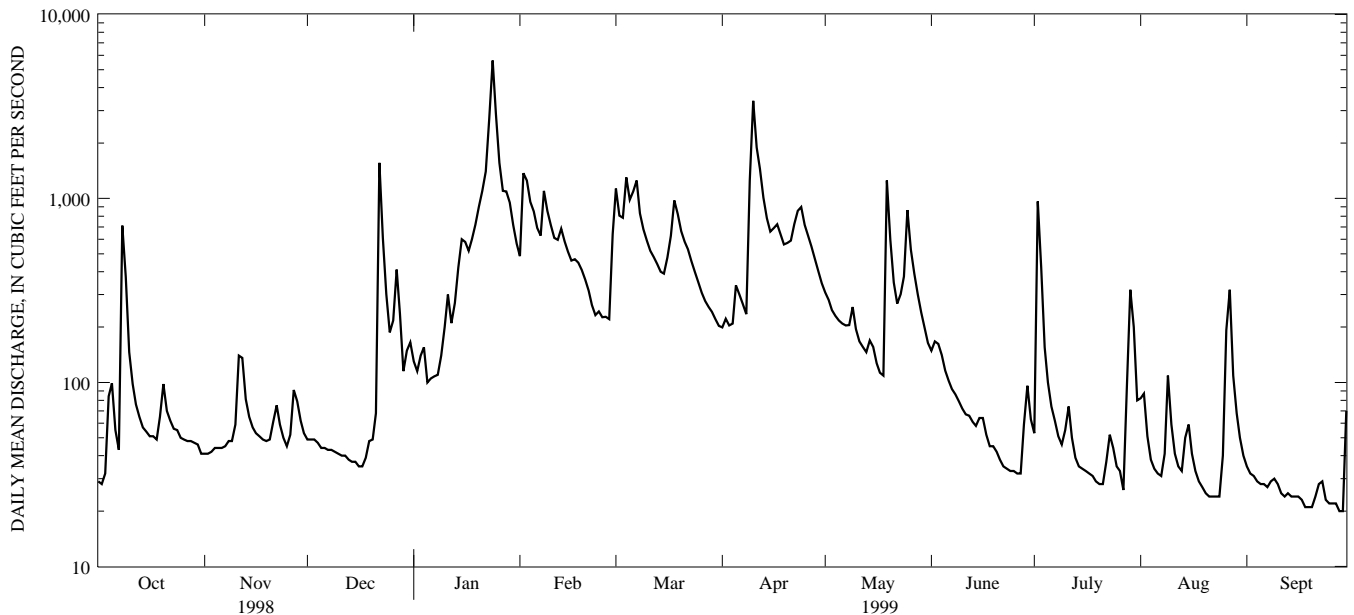
e Estimated.

BEAVER RIVER BASIN

03106000 CONNOQUENESSING CREEK NEAR ZELIENOPE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1920 - 1999	
ANNUAL TOTAL	143367			110331				
ANNUAL MEAN	393			302			462	
HIGHEST ANNUAL MEAN							816	1928
LOWEST ANNUAL MEAN							221	1931
HIGHEST DAILY MEAN	7870	Jan	8	5620	Jan	24	16000	Jun 29 1924
LOWEST DAILY MEAN	27	Aug	7,8	20	Sep	28,29	6.5	Jul 21 1936
ANNUAL SEVEN-DAY MINIMUM	30	Aug	3	23	Sep	14	8.7	Oct 13 1939
INSTANTANEOUS PEAK FLOW				6260	Jan	24	a23000	Jun 29 1924
INSTANTANEOUS PEAK STAGE				8.93	Jan	24	16.66	Jun 29 1924
INSTANTANEOUS LOW FLOW				17	Sep	29	6.0	Jul 21 1936
ANNUAL RUNOFF (CFSM)	1.10			.85			1.30	
ANNUAL RUNOFF (INCHES)	14.98			11.53			17.65	
10 PERCENT EXCEEDS	894			794			1100	
50 PERCENT EXCEEDS	121			99			211	
90 PERCENT EXCEEDS	37			29			32	

a About.



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