

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)
Apr. 4	1230	*5,960	*8.67	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	36	109	e170	e120	728	258	241	313	123	133	52
2	49	107	90	e150	e115	729	242	391	276	97	152	54
3	32	857	88	e130	e110	590	780	343	301	96	86	47
4	27	299	87	1460	e110	510	4890	271	222	185	69	49
5	25	153	86	1250	e105	456	3590	259	184	156	62	49
6	30	105	109	762	e100	392	1900	251	241	108	101	44
7	26	83	156	573	e98	337	1240	231	245	86	836	40
8	24	70	116	450	e96	306	2360	204	182	74	363	37
9	26	63	100	375	e94	284	2680	194	143	66	166	36
10	37	59	110	355	e100	261	1730	182	122	63	118	38
11	57	56	211	360	e140	237	1220	172	107	83	94	42
12	52	53	167	306	e230	370	978	151	103	86	79	74
13	38	48	141	265	e370	369	751	141	107	70	71	273
14	51	46	1010	227	3410	309	632	166	119	61	62	144
15	96	45	1620	e180	2070	280	555	140	161	168	60	78
16	59	44	732	e150	1170	270	490	116	176	184	56	84
17	41	43	488	e150	853	746	630	108	213	106	53	89
18	36	40	358	e180	730	626	631	108	238	83	56	75
19	35	39	281	e190	1160	539	509	217	270	73	58	63
20	35	43	247	e180	851	486	446	343	196	66	57	57
21	32	45	294	e170	676	852	545	184	156	61	49	66
22	32	53	235	e160	748	1020	580	142	215	68	45	107
23	34	48	194	e150	1270	801	537	128	175	70	43	74
24	42	45	154	e145	1430	695	481	361	123	55	242	301
25	48	45	370	e135	1310	615	432	274	103	50	151	274
26	50	255	e340	e130	1030	530	382	180	97	48	72	200
27	45	625	e310	e130	823	465	337	147	171	47	57	308
28	41	275	e280	e125	1120	466	316	249	260	47	93	169
29	38	174	e250	e120	840	405	291	1120	145	49	89	117
30	37	133	e230	e130	---	335	263	515	134	61	64	95
31	37	---	e200	e130	---	291	---	354	---	91	57	---
TOTAL	1315	3987	9163	9388	21279	15300	30676	7883	5498	2681	3694	3136
MEAN	42.4	133	296	303	734	494	1023	254	183	86.5	119	105
MAX	103	857	1620	1460	3410	1020	4890	1120	313	185	836	308
MIN	24	36	86	120	94	237	242	108	97	47	43	36
CFSM	.12	.37	.83	.85	2.06	1.39	2.87	.71	.51	.24	.33	.29
IN.	.14	.42	.96	.98	2.22	1.60	3.21	.82	.57	.28	.39	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

MEAN	161	337	557	658	755	977	773	515	327	202	149	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

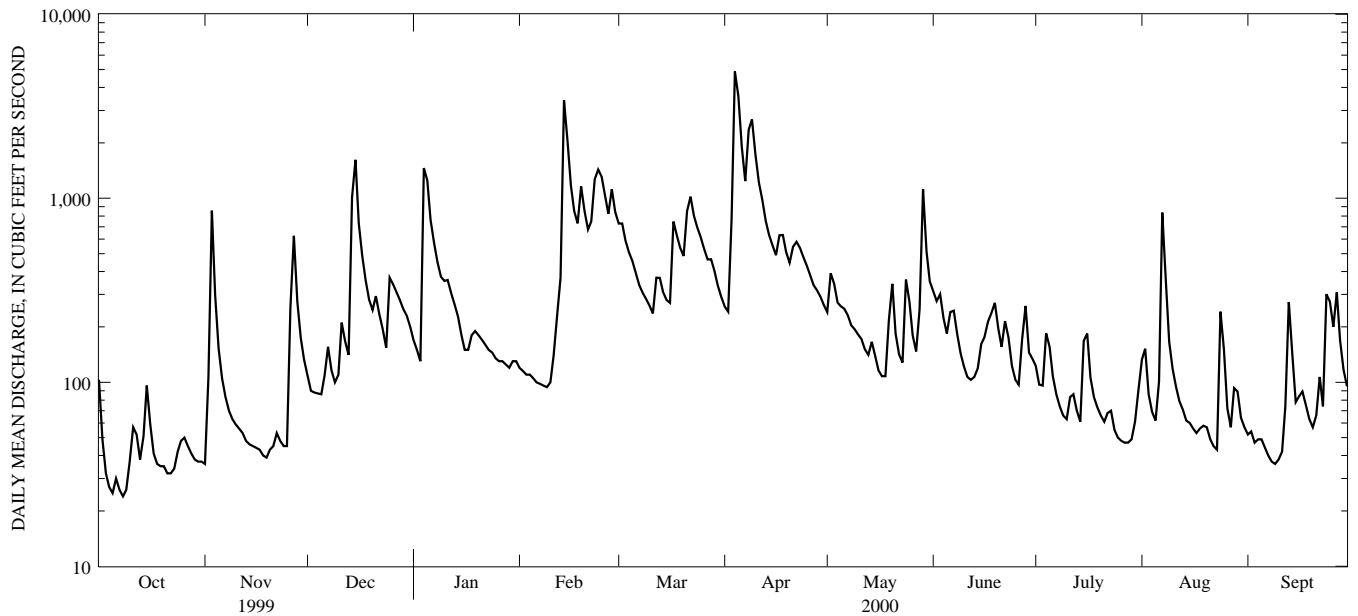
e Estimated.

BEAVER RIVER BASIN

03106000 CONNOQUENESSING CREEK NEAR ZELIENOPLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1920 - 2000	
ANNUAL TOTAL	115278		114000			
ANNUAL MEAN	316		311		461	
HIGHEST ANNUAL MEAN					816	1928
LOWEST ANNUAL MEAN					221	1931
HIGHEST DAILY MEAN	5620	Jan 24	4890	Apr 4	16000	Jun 29 1924
LOWEST DAILY MEAN	20	Sep 28,29	24	Oct 8	6.5	Jul 21 1936
ANNUAL SEVEN-DAY MINIMUM	23	Sep 14	27	Oct 3	8.7	Oct 13 1939
INSTANTANEOUS PEAK FLOW			5960	Apr 4	a23000	Jun 29 1924
INSTANTANEOUS PEAK STAGE			8.67	Apr 4	16.66	Jun 29 1924
INSTANTANEOUS LOW FLOW			23	Oct 5,8	6.0	Jul 21 1936
ANNUAL RUNOFF (CFSM)	.89		.87		1.29	
ANNUAL RUNOFF (INCHES)	12.05		11.91		17.58	
10 PERCENT EXCEEDS	825		747		1100	
50 PERCENT EXCEEDS	133		150		210	
90 PERCENT EXCEEDS	29		45		32	

a About.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000