

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)
Mar. 22	0730	*4,170	*6.98	(No peaks above base discharge.)			

**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	84	60	169	e220	1830	205	376	297	103	288	36	308
2	78	58	138	e220	1210	205	358	274	139	631	33	117
3	74	57	116	e220	866	199	325	249	233	188	32	57
4	72	56	96	e220	678	195	285	225	217	115	66	41
5	82	54	114	e215	598	289	254	209	145	107	56	36
6	638	53	119	e215	576	274	366	192	126	124	40	32
7	429	51	116	e215	575	253	1750	173	140	86	34	28
8	247	51	116	e215	536	225	1470	161	127	154	30	27
9	207	53	125	e210	850	235	1170	184	102	156	39	25
10	188	100	134	e210	1200	235	1750	172	87	88	41	24
11	159	223	119	e210	890	237	1440	154	80	70	41	23
12	128	159	493	e205	657	244	1160	244	76	60	38	24
13	107	113	483	e205	574	712	906	272	72	54	31	22
14	93	99	529	e205	529	1220	724	178	67	49	29	32
15	85	93	757	e200	950	973	678	152	62	46	27	64
16	84	84	664	e205	816	866	2220	147	59	41	26	44
17	82	77	3090	e230	794	1540	1810	138	58	37	25	32
18	88	e68	1430	e260	630	1150	1360	132	56	38	26	27
19	92	e62	801	e250	527	892	1030	126	49	38	30	26
20	74	e56	587	e240	518	731	911	117	47	38	32	30
21	66	e52	460	e220	482	799	1350	119	53	34	29	63
22	63	e48	351	e210	361	3390	1080	198	118	32	31	51
23	58	e44	e290	e200	348	1890	939	258	143	30	33	37
24	58	e57	e270	e190	303	1250	787	179	81	31	30	38
25	84	82	e260	e180	287	919	678	197	68	340	28	108
26	117	65	e250	e180	296	730	561	241	57	126	27	98
27	84	158	e240	e180	252	598	490	184	50	73	24	57
28	73	199	e235	e180	226	520	444	173	48	54	27	44
29	74	146	e230	e180	---	459	369	164	53	44	66	48
30	69	140	e225	e860	---	438	321	146	54	39	63	44
31	63	---	e220	3180	---	432	---	120	---	37	58	---
TOTAL	3900	2618	13227	10130	18359	22305	27362	5775	2770	3248	1128	1607
MEAN	126	87.3	427	327	656	720	912	186	92.3	105	36.4	53.6
MAX	638	223	3090	3180	1830	3390	2220	297	233	631	66	308
MIN	58	44	96	180	226	195	254	117	47	30	24	22
CFSM	.35	.25	1.20	.92	1.84	2.02	2.56	.52	.26	.29	.10	.15
IN.	.41	.27	1.38	1.06	1.92	2.33	2.86	.60	.29	.34	.12	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2001, BY WATER YEAR (WY)

MEAN	161	334	556	654	753	974	775	511	324	201	148	131
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1920 - 2001	
ANNUAL TOTAL	119280		112429			
ANNUAL MEAN	326		308		459	
HIGHEST ANNUAL MEAN					816	1928
LOWEST ANNUAL MEAN					221	1931
HIGHEST DAILY MEAN	4890	Apr 4	3390	Mar 22	16000	Jun 29 1924
LOWEST DAILY MEAN	36	Sep 9	22	Sep 13	6.5	Jul 21 1936
ANNUAL SEVEN-DAY MINIMUM	41	Sep 5	25	Sep 7	8.7	Oct 13 1939
MAXIMUM PEAK FLOW			4170	Mar 22	a23000	Jun 29 1924
MAXIMUM PEAK STAGE			6.98	Mar 22	16.66	Jun 29 1924
INSTANTANEOUS LOW FLOW			22	Sep 13	6.0	Jul 21 1936
ANNUAL RUNOFF (CFSM)	.92		.87		1.29	
ANNUAL RUNOFF (INCHES)	12.46		11.75		17.51	
10 PERCENT EXCEEDS	749		830		1090	
50 PERCENT EXCEEDS	154		152		210	
90 PERCENT EXCEEDS	57		34		32	

a About.

