



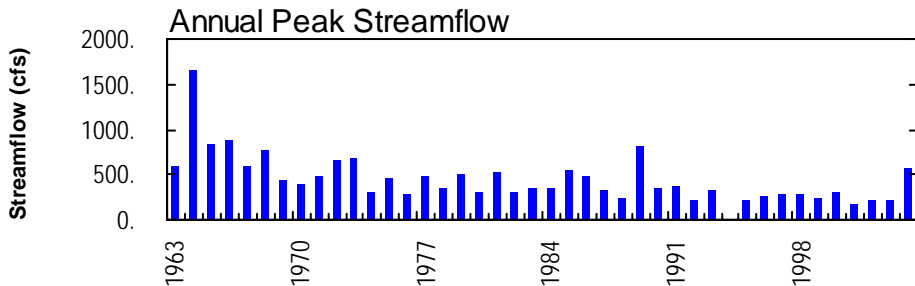
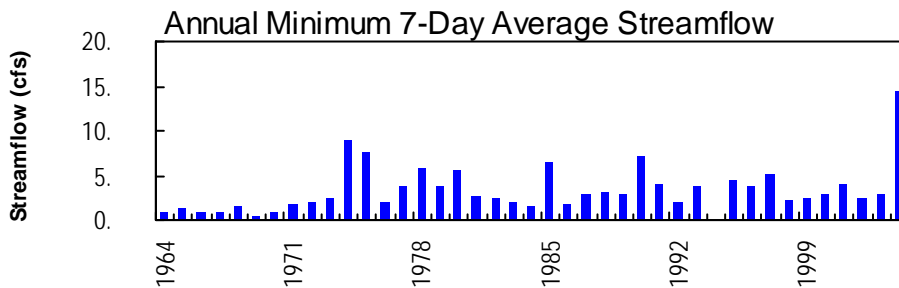
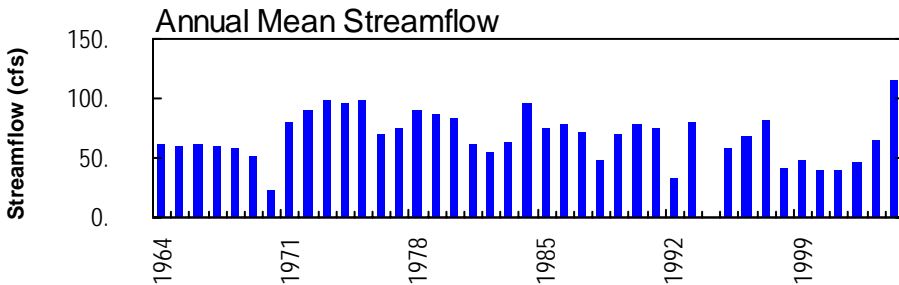
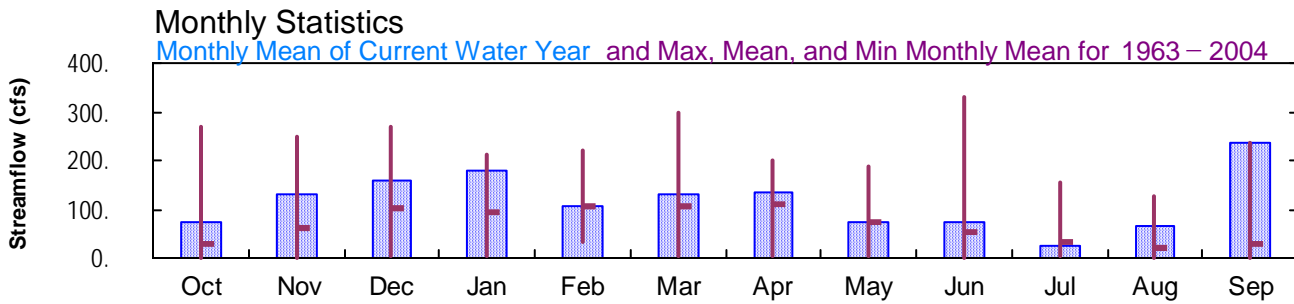
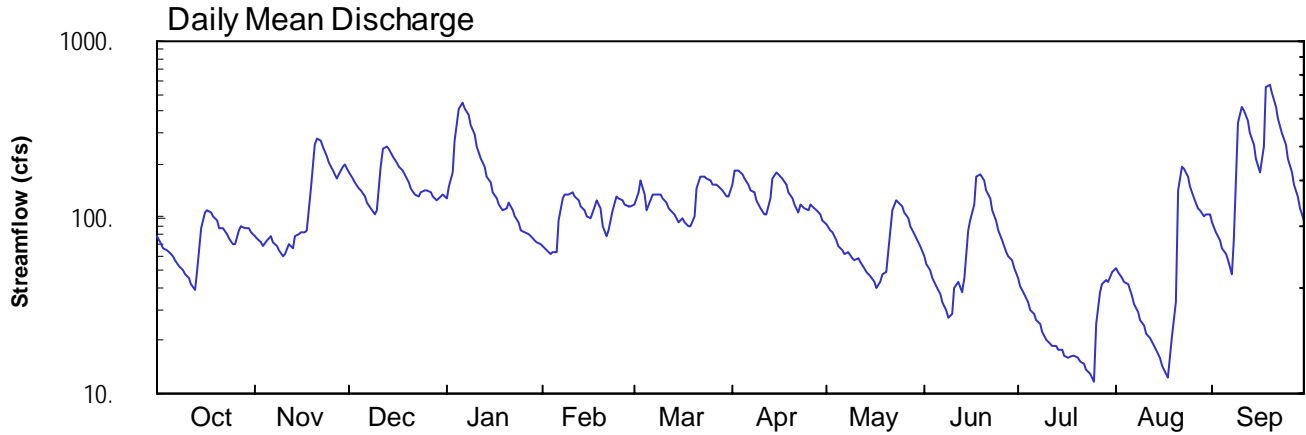
2004 Water Year
BEAVER RIVER BASIN

03106300 Muddy Creek near Portersville, PA

Latitude: 40° 57' 47"
Butler County

Longitude: 080° 07' 31"
Datum: 1160.91 feet

Hydrologic Unit Code: 05030105
Drainage Area: 51.2 mi²



BEAVER RIVER BASIN

03106300 MUDDY CREEK NEAR PORTERSVILLE, PA

LOCATION.--Lat 40°57'47", long 80°07'31", Butler County, Hydrologic Unit 05030105, on left bank 1,000 ft downstream of Lake Arthur Dam, 0.2 mi north of U.S. Highway 422, and 3 mi north of Portersville.

DRAINAGE AREA.--51.2 mi².

PERIOD OF RECORD.--March 1963 to September 1993, July 1994 to current year.

REVISED RECORDS.--WDR PA-79-3: 1978.

GAGE.--Water-stage recorder. Datum of gage is 1,160.91 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Department of Environmental Protection bench mark). Prior to Apr. 8, 1963 nonrecording gage at site 2,000 ft downstream at different datum. Apr. 8 to May 1, 1963, nonrecording gage and May 2, 1963 to Sept. 30, 1980, water-stage recorder at site 1,000 ft downstream at datum 5.71 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation from October 1966 to May 1969 and completely regulated thereafter by Lake Arthur (station 03106280) 1,000 ft upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	78	180	130	e68	118	153	92	61	46	51	93
2	71	76	168	150	66	140	182	85	55	41	49	83
3	68	73	159	179	61	161	186	81	50	36	45	75
4	66	69	147	272	64	136	174	75	45	33	43	66
5	64	73	141	413	63	109	165	68	41	30	41	62
6	61	77	131	442	95	126	155	64	36	28	36	57
7	57	73	120	e412	127	134	142	62	33	26	32	47
8	53	68	113	379	135	136	137	64	30	25	29	75
9	50	65	105	335	136	134	124	59	27	22	26	345
10	47	60	110	292	138	128	113	57	28	20	25	429
11	46	62	194	251	133	120	105	58	40	19	22	405
12	41	70	244	218	125	112	104	55	42	19	21	354
13	39	67	250	193	117	108	128	52	38	19	19	304
14	49	78	245	172	109	103	167	49	45	18	18	258
15	86	81	220	156	102	94	180	47	84	18	16	215
16	107	83	204	139	98	99	177	43	97	16	14	177
17	111	82	195	127	117	94	164	40	120	16	13	251
18	108	85	185	119	126	90	152	42	169	17	12	545
19	101	148	174	109	113	88	137	47	173	17	21	565
20	97	256	157	112	89	101	128	49	161	16	33	502
21	88	283	146	120	78	145	117	63	144	15	142	428
22	86	274	134	109	85	169	108	110	127	15	193	363
23	81	252	131	100	110	170	118	125	111	14	191	306
24	76	224	140	93	133	167	112	120	97	13	171	256
25	71	203	143	85	129	162	109	115	85	12	149	213
26	71	183	142	83	124	156	117	108	73	25	128	179
27	83	165	137	81	118	155	113	100	64	37	113	153
28	88	176	131	78	115	149	111	89	60	42	109	130
29	86	195	123	e75	114	140	103	80	57	44	102	112
30	86	197	132	e72	---	132	96	72	51	43	105	97
31	81	---	134	e70	---	130	---	69	---	49	104	---
TOTAL	2297	3876	4935	5566	3088	4006	4077	2240	2244	791	2073	7145
MEAN	74.1	129	159	180	106	129	136	72.3	74.8	25.5	66.9	238
MAX	111	283	250	442	138	170	186	125	173	49	193	565
MIN	39	60	105	70	61	88	96	40	27	12	12	47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	28.4	59.5	103	95.3	104	107	108	74.5	55.0	32.2	22.2	28.5
MAX	268	248	268	212	220	298	200	187	332	155	127	238
(WY)	1976	1973	1973	1965	1990	1964	1972	1983	1989	1990	1980	2004
MIN	1.11	1.50	2.41	2.40	31.0	4.31	2.78	2.97	1.53	3.01	1.98	0.61
(WY)	1964	1970	1970	1970	1980	1999	1986	1986	1969	1965	1966	1969

e Estimated.

BEAVER RIVER BASIN

03106300 MUDDY CREEK NEAR PORTERSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	32534.3		42338			
ANNUAL MEAN	89.1		116		68.3	
HIGHEST ANNUAL MEAN					116	2004
LOWEST ANNUAL MEAN					24.1	1970
HIGHEST DAILY MEAN	283	Nov 21	565	Sep 19	1450	Mar 10 1964
LOWEST DAILY MEAN	3.6	Jan 4	12	Jul 25 ^a	0.50	Sep 1 1969
ANNUAL SEVEN-DAY MINIMUM	20	Aug 20	15	Jul 19	0.54	Aug 29 1969
MAXIMUM PEAK FLOW			582	Sep 18	b 1640	Mar 10 1964
MAXIMUM PEAK STAGE			6.72	Sep 18	8.18	Mar 10 1964
INSTANTANEOUS LOW FLOW					0.40	Sep 17 1966
10 PERCENT EXCEEDS	150		199		175	
50 PERCENT EXCEEDS	82		102		39	
90 PERCENT EXCEEDS	37		30		3.9	

a Also Aug. 18.

b From rating curve extended above 820 ft³/s on basis of slope-area measurement of peak flow.