

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.--No estimated daily discharges. Records 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	3.7	45	87	83	29	68	34	74	27	123	72
2	5.4	3.6	46	83	83	31	65	57	71	23	110	132
3	5.2	3.4	46	41	83	32	63	56	70	19	105	179
4	5.8	3.1	46	3.6	84	70	64	53	68	23	98	210
5	6.2	3.3	46	9.7	83	108	84	61	61	32	88	218
6	5.4	3.5	45	33	84	107	91	63	56	32	82	203
7	5.4	2.6	45	53	83	106	101	68	55	44	75	181
8	5.2	2.1	44	88	83	106	95	68	52	62	69	160
9	4.5	2.7	44	112	82	108	94	75	54	74	73	144
10	4.2	3.3	43	108	82	107	92	101	51	84	70	126
11	4.3	4.7	43	105	82	107	87	105	47	85	69	109
12	4.5	4.4	44	101	82	106	81	110	51	87	63	98
13	4.8	4.6	44	97	81	108	78	119	76	82	57	83
14	4.8	3.9	46	94	81	105	75	118	114	75	51	75
15	4.9	3.9	45	92	81	108	70	115	150	66	45	72
16	6.0	3.7	45	91	81	116	66	112	163	58	40	68
17	6.4	4.6	44	91	81	123	70	102	158	52	38	63
18	6.8	3.9	44	90	78	125	62	93	146	45	34	58
19	7.9	3.3	45	90	57	91	53	84	126	38	30	77
20	7.9	3.4	47	88	28	65	49	79	114	32	27	82
21	8.8	3.7	48	87	28	72	53	99	103	40	24	79
22	8.3	4.9	48	87	29	77	50	98	90	104	21	82
23	8.9	4.8	49	87	32	79	46	96	79	132	18	96
24	7.7	4.7	49	87	29	78	44	103	70	150	16	97
25	6.8	21	50	87	29	76	43	100	62	150	14	93
26	6.9	44	52	87	28	78	42	96	54	140	23	90
27	5.6	44	68	86	29	78	39	89	43	129	33	93
28	5.1	37	85	86	29	77	36	85	37	150	38	100
29	4.5	40	85	84	---	73	37	78	30	155	38	91
30	3.5	43	84	83	---	71	37	71	29	151	60	85
31	3.5	---	84	83	---	68	---	77	---	138	64	---
TOTAL	180.9	318.8	1599	2501.3	1795	2685	1935	2665	2354	2479	1696	3316
MEAN	5.84	10.6	51.6	80.7	64.1	86.6	64.5	86.0	78.5	80.0	54.7	111
MAX	8.9	44	85	112	84	125	101	119	163	155	123	218
MIN	3.5	2.1	43	3.6	28	29	36	34	29	19	14	58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2003, BY WATER YEAR (WY)

MEAN	27.2	57.7	101	93.2	104	107	108	74.6	54.5	32.3	21.1	23.3
MAX	268	248	268	212	220	298	200	187	332	155	127	227
(WY)	1976	1973	1973	1965	1990	1964	1972	1983	1989	1990	1980	1975
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

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03106300 MUDDY CREEK NEAR PORTERSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1963 - 2003	
ANNUAL TOTAL	15043.7		23525.0			
ANNUAL MEAN	41.2		64.5		67.1	
HIGHEST ANNUAL MEAN					98.9 1973	
LOWEST ANNUAL MEAN					24.1 1970	
HIGHEST DAILY MEAN	212	Apr 16,17	218	Sep 5	1450	Mar 10 1964
LOWEST DAILY MEAN	2.1	Nov 8	2.1	Nov 8	0.50	Sep 1 1969
ANNUAL SEVEN-DAY MINIMUM	2.9	Nov 4	2.9	Nov 4	0.54	Aug 29 1969
MAXIMUM PEAK FLOW			223	Sep 4,5	a1640	Mar 10 1964
MAXIMUM PEAK STAGE			4.22	Sep 4,5	8.18	Mar 10 1964
INSTANTANEOUS LOW FLOW					0.40	Sep 17 1966
10 PERCENT EXCEEDS	92		109		174	
50 PERCENT EXCEEDS	36		68		38	
90 PERCENT EXCEEDS	5.2		5.2		3.9	

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

