

BRODHEAD CREEK BASIN

01440400 BRODHEAD CREEK NEAR ANALOMINK, PA

LOCATION.--Lat 41°05'05", long 75°12'54", Monroe County, Hydrologic Unit 02040104, on left bank, along State Highway 447, 1.5 mi upstream from Paradise Creek, 1.6 mi southeast of Henryville, and 2.3 mi north of Analomink.

DRAINAGE AREA.--65.9 mi².

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 586.50 ft above sea level. Prior to Dec. 12, 1957, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1300	*4,830	*7.96	No other peak greater than 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	e22	20	68	e110	94	109	481	87	120	54	18	16
2	e21	19	60	e110	91	107	391	85	247	57	18	14
3	e20	19	55	e100	85	104	334	81	262	49	17	13
4	19	18	e51	e95	e80	103	309	76	213	46	33	14
5	20	17	50	e90	82	114	299	73	173	48	32	15
6	24	17	48	82	90	107	314	67	150	44	23	13
7	22	17	46	76	77	100	348	63	131	40	20	12
8	21	17	45	73	71	95	347	61	115	61	25	11
9	20	18	44	72	70	97	331	59	101	67	20	11
10	20	61	e40	67	91	93	450	57	91	51	18	12
11	19	66	42	65	93	89	368	54	86	56	31	14
12	19	48	44	63	e85	89	297	52	119	50	47	12
13	18	38	e40	62	84	171	254	51	100	42	36	11
14	18	40	56	60	84	194	222	47	82	38	29	14
15	18	48	65	60	93	173	195	44	70	35	24	13
16	18	41	62	61	95	178	196	42	73	37	21	12
17	19	38	1620	60	107	217	189	40	513	36	20	11
18	51	36	985	59	e93	220	185	43	238	34	20	10
19	61	35	632	64	e91	209	159	44	158	32	18	10
20	41	32	493	72	88	222	146	40	138	29	18	33
21	34	32	328	67	94	269	142	41	147	27	17	159
22	31	31	245	e66	e84	476	161	122	122	26	16	61
23	28	30	e200	e64	e92	438	144	149	119	24	16	41
24	25	e28	e190	e60	e88	424	132	108	113	23	18	30
25	25	28	e180	55	101	361	123	83	92	22	16	218
26	24	75	e170	e54	136	307	114	106	80	25	15	120
27	22	111	e150	52	123	258	109	284	71	25	15	75
28	22	84	e130	50	116	231	103	262	63	21	16	57
29	23	73	e120	47	---	215	95	198	59	20	15	51
30	21	73	117	69	---	774	91	163	56	20	14	42
31	20	---	e110	99	---	680	---	135	---	19	14	---
TOTAL	766	1210	6486	2184	2578	7224	7029	2817	4102	1158	660	1125
MEAN	24.7	40.3	209	70.5	92.1	233	234	90.9	137	37.4	21.3	37.5
MAX	61	111	1620	110	136	774	481	284	513	67	47	218
MIN	18	17	40	47	70	89	91	40	56	19	14	10
CFSM	.37	.61	3.17	1.07	1.40	3.54	3.56	1.38	2.07	.57	.32	.57
IN.	.43	.68	3.66	1.23	1.46	4.08	3.97	1.59	2.32	.65	.37	.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

MEAN	71.2	124	170	154	161	249	252	178	105	58.5	41.3	53.1
MAX	237	336	508	559	371	537	596	440	474	380	159	464
(WY)	1977	1973	1997	1996	1981	1977	1983	1989	1972	1969	1973	1987
MIN	8.36	10.2	19.8	15.1	41.8	92.7	84.0	62.3	23.2	10.6	7.91	7.56
(WY)	1964	1965	1999	1981	1980	1989	1985	1962	1962	1999	1999	1964

e Estimated.

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01440400 BRODHEAD CREEK NEAR ANALOMINK, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1958 - 2001	
ANNUAL TOTAL	42092			37339				
ANNUAL MEAN	115			102			135	
HIGHEST ANNUAL MEAN							213	
LOWEST ANNUAL MEAN							59.6	
HIGHEST DAILY MEAN	1620	Dec 17		1620	Dec 17		6070	Jul 28 1969
LOWEST DAILY MEAN	17	Nov 5-8		10	Sep 18,19		5.1	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	18	Nov 3		12	Sep 13		5.5	Aug 7 1999
MAXIMUM PEAK FLOW				a4830	Dec 17		a12900	Jul 28 1969
MAXIMUM PEAK STAGE				7.96	Dec 17		11.82	Jul 28 1969
INSTANTANEOUS LOW FLOW							4.9	Aug 7 1999 ^b
ANNUAL RUNOFF (CFSM)	1.75			1.55			2.04	
ANNUAL RUNOFF (INCHES)	23.76			21.08			27.75	
10 PERCENT EXCEEDS	232			222			291	
50 PERCENT EXCEEDS	80			62			84	
90 PERCENT EXCEEDS	24			18			16	

a From rating curve extended above 1,400 ft³/s on basis of slope-area measurement of peak flow.
b Also Aug. 8, 12, 13, Sept. 5, 1999.

