

BRODHEAD CREEK BASIN

01442500 BRODHEAD CREEK AT MINISINK HILLS, PA

LOCATION.--Lat 40°59'55", long 75°08'35", Monroe County, Hydrologic Unit 02040104, on left bank at end of township route 646 at Minisink Hills, 500 ft upstream from Marshall Creek, 0.8 mi upstream from mouth, and 3.0 mi southeast of East Stroudsburg.

DRAINAGE AREA.--259 mi².

PERIOD OF RECORD.--November 1950 to current year.

REVISED RECORDS.--WSP 1232: 1951(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 301.84 ft above sea level. Prior to Aug. 19, 1955, water-stage recorder, and Aug. 23 to Nov. 24, 1955, nonrecording gage at site about 1,300 ft upstream at datum 2.19 ft higher. Nov. 25, 1955, to July 24, 1956, nonrecording gage at site 40 ft upstream at present 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 4,300 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	1430	7,480	7.54	Sept. 16	2130	*12,400	*9.27

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	82	119	e70	e600	e700	580	326	242	85	44	46
2	59	80	122	e80	1690	583	588	313	228	84	42	46
3	58	76	115	e160	e1900	517	544	302	219	84	41	46
4	69	74	113	e200	e1400	1540	522	313	206	77	39	46
5	70	71	112	e170	e1200	1080	488	315	190	71	39	46
6	64	70	109	e160	e980	892	459	297	178	66	39	73
7	60	72	101	e160	879	823	441	295	170	61	39	84
8	200	71	102	e150	e820	679	417	372	161	57	40	113
9	258	74	113	e180	e740	625	440	364	150	55	42	144
10	381	76	106	e200	e680	586	576	314	144	64	40	226
11	229	123	100	e170	e640	549	457	282	143	62	41	122
12	161	142	95	e180	657	511	480	262	133	58	41	88
13	137	103	94	e180	e880	478	438	247	135	57	40	74
14	207	90	94	e160	e680	471	401	235	146	56	110	67
15	205	86	e90	e150	e600	516	378	225	170	56	131	72
16	153	82	88	e150	e580	489	399	221	141	54	78	3690
17	133	79	91	e160	576	506	502	211	133	52	60	4270
18	122	74	90	e350	712	554	432	204	155	51	53	1130
19	117	72	85	e1400	698	520	406	303	135	49	50	618
20	108	72	87	e900	608	471	418	431	118	49	57	455
21	105	77	87	e740	552	502	416	299	114	49	64	417
22	100	75	e90	e800	e500	2500	395	254	108	58	59	421
23	89	72	e90	e900	e440	1580	410	283	101	64	55	351
24	91	70	e82	4770	e440	1260	522	545	96	56	50	287
25	101	69	e66	e3700	e430	1090	431	595	91	51	48	249
26	100	188	e66	e2100	423	912	417	442	89	48	120	220
27	99	237	e70	e1500	408	808	410	382	85	45	91	198
28	90	163	79	1210	485	819	378	339	87	43	66	188
29	90	137	81	e1000	---	755	358	308	104	48	57	180
30	85	124	e88	e820	---	672	340	282	92	47	50	621
31	82	---	e60	e700	---	610	---	259	---	45	47	---
TOTAL	3896	2881	2885	23570	21198	24598	13443	9820	4264	1802	1773	14588
MEAN	126	96.0	93.1	760	757	793	448	317	142	58.1	57.2	486
MAX	381	237	122	4770	1900	2500	588	595	242	85	131	4270
MIN	58	69	60	70	408	471	340	204	85	43	39	46
CFSM	.49	.37	.36	2.94	2.92	3.06	1.73	1.22	.55	.22	.22	1.88
IN.	.56	.41	.41	3.39	3.04	3.53	1.93	1.41	.61	.26	.25	2.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

MEAN	314	552	734	640	678	986	999	708	413	256	240	238
MAX	1560	1634	2321	2051	1498	2108	2293	1619	1876	923	2505	1649
(WY)	1956	1973	1997	1996	1951	1977	1983	1989	1972	1969	1955	1987
MIN	54.4	68.1	83.4	50.6	196	387	312	268	119	58.1	46.4	40.8
(WY)	1964	1965	1981	1981	1980	1985	1985	1962	1962	1999	1957	1964

e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1951 - 1999	
ANNUAL TOTAL	198990		124718			
ANNUAL MEAN	545		342		562	
HIGHEST ANNUAL MEAN					957	1952
LOWEST ANNUAL MEAN					238	1965
HIGHEST DAILY MEAN	5010	Mar 10	4770	Jan 24	30500	Aug 19 1955
LOWEST DAILY MEAN	58	Oct 3	39	Aug 4-7	30	Sep 26 1964
ANNUAL SEVEN-DAY MINIMUM	64	Sep 28	40	Aug 4	33	Sep 6 1964
INSTANTANEOUS PEAK FLOW			a12400	Sep 16	a66800	Aug 19 1955
INSTANTANEOUS PEAK STAGE			9.27	Sep 16	b27.00	Aug 19 1955
INSTANTANEOUS LOW FLOW					29	Sep 27 1964
ANNUAL RUNOFF (CFSM)	2.10		1.32		2.17	
ANNUAL RUNOFF (INCHES)	28.58		17.91		29.50	
10 PERCENT EXCEEDS	1210		723		1210	
50 PERCENT EXCEEDS	254		153		349	
90 PERCENT EXCEEDS	72		54		92	

- a** From rating curve extended above 4,600 ft³/s on basis of computation of flow-over-dam at gage height 14.43 ft and slope-area measurement of peak flow.
- b** From floodmark, at site about 1,300 ft upstream at datum 2.19 ft higher.

