

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)
Dec. 17	1530	*11,800	*9.22	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	100	90	229	e380	427	533	1780	331	450	e200	101	e87
2	98	88	203	e340	421	521	1480	319	969	e220	97	e80
3	99	87	181	322	404	509	1250	308	968	e200	94	e75
4	97	86	e160	333	356	505	1120	296	814	202	112	e80
5	100	85	e150	e300	361	529	1020	287	658	211	157	e90
6	109	83	e150	321	e410	491	1030	272	568	192	116	87
7	103	82	e150	302	373	466	1090	261	503	176	101	75
8	95	83	e140	293	346	464	1030	251	448	204	102	71
9	94	84	e140	286	336	476	989	246	401	242	96	69
10	91	272	e140	268	428	461	1290	239	362	197	101	89
11	91	265	150	260	458	444	1070	227	338	266	133	99
12	87	193	162	e250	386	441	959	220	359	219	184	81
13	84	159	142	e240	407	880	846	213	e420	178	172	73
14	80	159	213	e240	408	929	742	204	e340	165	146	125
15	79	184	275	e240	438	832	682	196	e270	152	122	99
16	79	160	238	e250	445	822	714	189	e280	150	107	82
17	88	146	4570	e260	519	960	662	185	e2000	150	101	76
18	214	136	3690	249	436	989	679	196	e1000	151	103	71
19	280	128	1980	288	409	903	584	200	e640	140	94	69
20	182	122	1460	362	417	894	540	185	e530	129	91	202
21	149	119	1060	314	446	1020	e600	196	e580	121	88	1600
22	131	113	828	e240	401	1940	543	544	e480	117	85	403
23	119	107	683	e240	414	1600	501	567	e460	111	88	257
24	110	97	620	e230	390	1480	471	403	e440	108	98	200
25	107	100	568	e220	466	1270	439	306	e360	311	88	1650
26	104	259	530	e210	660	1090	413	403	e320	244	81	656
27	100	415	492	e210	599	932	399	1090	e280	156	79	422
28	105	298	443	e200	571	831	380	1010	e260	130	85	329
29	105	253	404	e200	---	773	356	726	e240	122	e80	282
30	97	250	410	e300	---	2760	343	622	e220	116	e76	243
31	92	---	408	446	---	2400	---	507	---	108	e75	---
TOTAL	3469	4703	20969	8594	12132	29145	24002	11199	15958	5388	3253	7822
MEAN	112	157	676	277	433	940	800	361	532	174	105	261
MAX	280	415	4570	446	660	2760	1780	1090	2000	311	184	1650
MIN	79	82	140	200	336	441	343	185	220	108	75	69
CFSM	.43	.61	2.61	1.07	1.67	3.63	3.09	1.39	2.05	.67	.41	1.01
IN.	.50	.68	3.01	1.23	1.74	4.19	3.45	1.61	2.29	.77	.47	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	311	540	728	627	670	984	989	697	418	254	239	236
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	158462		146634		557	
ANNUAL MEAN	433		402		957	
HIGHEST ANNUAL MEAN					1952	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	4570	Dec 17	4570	Dec 17	30500	Aug 19 1955
LOWEST DAILY MEAN	79	Oct 15,16	69	Sep 9,19	30	Sep 26 1964
ANNUAL SEVEN-DAY MINIMUM	84	Oct 11	a78	Sep 3	33	Sep 6 1964
MAXIMUM PEAK FLOW			b11800	Dec 17	b68800	Aug 19 1955
MAXIMUM PEAK STAGE			9.22	Dec 17	c27.00	Aug 19 1955
INSTANTANEOUS LOW FLOW					29	Sep 27 1964
ANNUAL RUNOFF (CFSM)	1.67		1.55		2.15	
ANNUAL RUNOFF (INCHES)	22.76		21.06		29.22	
10 PERCENT EXCEEDS	833		930		1200	
50 PERCENT EXCEEDS	329		257		347	
90 PERCENT EXCEEDS	108		88		92	

- a Computed using estimated daily discharges.
- b From rating curve extended above 10,100 ft³/s on basis of slope-area measurement of peak flow.
- c From floodmark, at site about 1,300 ft upstream at datum 2.19 ft higher.

