

BRODHEAD CREEK BASIN

01442500 BRODHEAD CREEK AT MINISINK HILLS, PA
(Pennsylvania Water-Quality Network Station)

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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. 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)
May 29	0015	*4,060	*5.76	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	101	501	e180	353	217	767	1050	816	234	86	86
2	196	102	340	e180	409	214	648	1360	636	218	92	95
3	178	102	268	e170	341	748	604	1220	533	204	95	87
4	e170	102	233	e180	325	577	592	961	471	191	90	78
5	e150	106	215	191	294	456	522	851	447	180	85	69
6	e150	106	203	192	e280	418	487	759	644	168	89	65
7	e140	103	200	217	286	404	454	695	2710	160	80	62
8	e140	98	197	202	283	378	432	635	1270	150	75	61
9	129	96	280	196	273	364	e410	629	917	146	72	59
10	126	95	267	199	268	485	e440	646	741	144	68	57
11	122	94	239	219	411	424	e400	551	631	136	65	54
12	120	92	233	235	346	383	e380	614	555	128	63	49
13	119	91	231	224	311	369	e380	1180	526	124	61	48
14	116	90	269	209	e270	365	e420	1890	788	121	58	49
15	212	91	342	207	e260	345	e1400	1230	940	123	56	73
16	178	90	294	209	274	344	e900	963	741	115	57	353
17	158	88	288	201	275	324	773	834	594	107	59	203
18	145	87	425	e190	259	370	670	2040	502	104	58	127
19	133	86	414	e180	246	399	614	1590	451	109	55	101
20	130	91	360	e180	249	551	601	1210	421	110	88	90
21	123	89	334	193	300	731	570	1030	384	103	69	83
22	119	87	302	191	278	697	538	888	349	99	60	82
23	117	88	288	188	257	589	508	775	321	115	65	81
24	115	90	339	213	241	551	455	690	298	222	74	76
25	112	123	304	274	233	528	467	613	281	141	98	70
26	107	269	278	252	231	530	543	564	280	119	77	68
27	105	184	259	243	247	1560	453	526	438	110	69	181
28	104	155	244	247	231	1050	1200	957	366	110	64	367
29	104	148	239	263	---	880	1700	2270	288	111	124	209
30	103	173	e210	286	---	795	1150	1090	253	102	140	153
31	100	---	e180	306	---	707	---	818	---	93	95	---
TOTAL	4237	3317	8776	6617	8031	16753	19478	31129	18592	4297	2387	3236
MEAN	136.7	110.6	283.1	213.5	286.8	540.4	649.3	1004	619.7	138.6	77.00	107.9
MAX	216	269	501	306	411	1560	1700	2270	2710	234	140	367
MIN	100	86	180	170	231	214	380	526	253	93	55	48
CFSM	0.53	0.43	1.09	0.82	1.11	2.09	2.51	3.88	2.39	0.54	0.30	0.42
IN.	0.61	0.48	1.26	0.95	1.15	2.41	2.80	4.47	2.67	0.62	0.34	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	307.5	531.9	719.1	618.8	662.3	975.7	982.2	703.3	421.9	252.1	235.8	233.9
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.

BRODHEAD CREEK BASIN

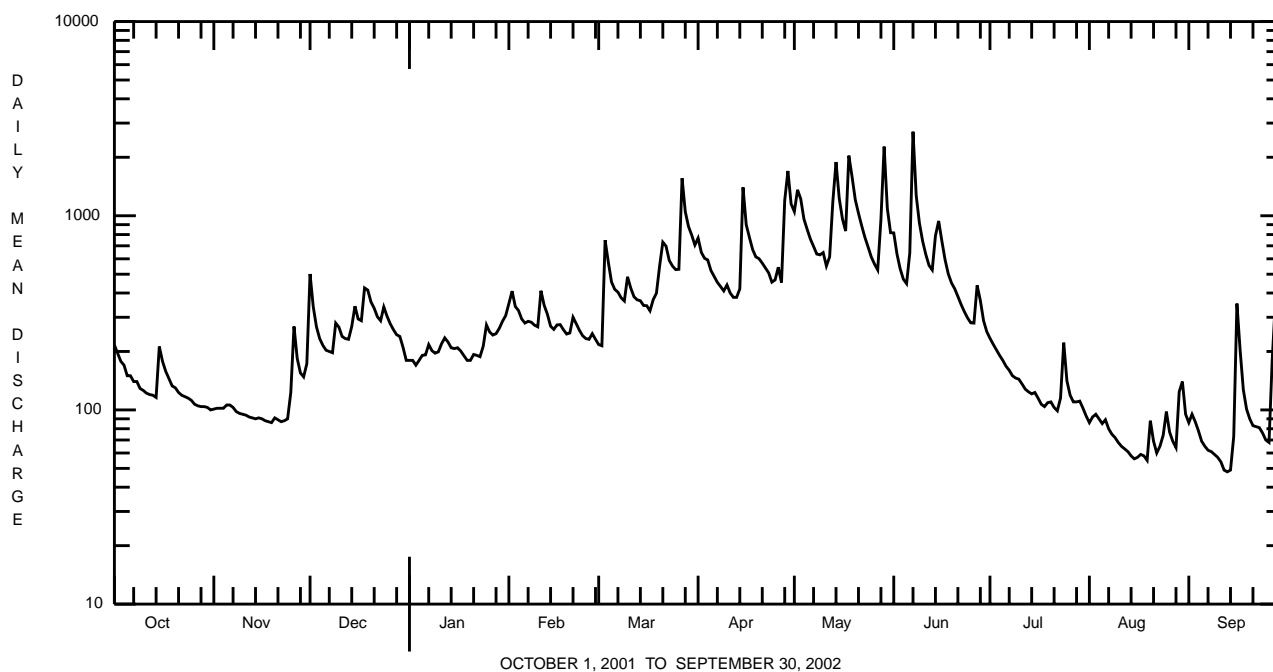
01442500 BRODHEAD CREEK AT MINISINK HILLS, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1951 - 2002	
ANNUAL TOTAL	133823		126850			
ANNUAL MEAN	367		348		553	
HIGHEST ANNUAL MEAN					957	1952
LOWEST ANNUAL MEAN					238	1965
HIGHEST DAILY MEAN	2760	Mar 30	2710	Jun 7	30500	Aug 19 1955
LOWEST DAILY MEAN	69	Sep 9, 19	48	Sep 13	30	Sep 26 1964
ANNUAL SEVEN-DAY MINIMUM	a 78	Sep 3	54	Sep 8	33	Sep 6 1964
MAXIMUM PEAK FLOW			4060	May 29	b 68800	Aug 19 1955
MAXIMUM PEAK STAGE			5.76	May 29	c 27.00	Aug 19 1955
INSTANTANEOUS LOW FLOW					29	Sep 27 1964
ANNUAL RUNOFF (CFSM)	1.42		1.34		2.14	
ANNUAL RUNOFF (INCHES)	19.22		18.22		29.01	
10 PERCENT EXCEEDS	838		769		1190	
50 PERCENT EXCEEDS	250		231		344	
90 PERCENT EXCEEDS	91		82		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.



BRODHEAD CREEK BASIN

01442500 BRODHEAD CREEK AT MINISINK HILLS, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 410-425.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 2002 02...	1345	9813	649	40	12.6	7.7	120	8.7	36	10.8	2.1	17	10.8
JUN 03...	1140	9813	541	40	10.6	7.4	115	15.7	35	10.8	1.9	18	10.1
AUG 05...	1500	9813	85.9	40	8.4	8.4	201	24.8	55	17.5	2.6	34	13.9
Date	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)
APR 2002 02...	76	<2	.070	.41	<.040	.69	.04	.040	1.9	<10	100	<1.0	20
JUN 03...	100	6	<.020	.31	<.040	.94	.02	.040	2.2	<10	130	<1.0	20
AUG 05...	230	8	<.020	.57	<.040	.77	.11	.170	2.0	<10	160	1.6	50
Date	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)											
APR 2002 02...	<50	<10											
JUN 03...	<50	<10											
AUG 05...	<50	<10											