

01446000 BEAVER BROOK NEAR BELVIDERE, NJ

LOCATION.--Lat 40°50'36", long 75°02'47", Warren County, Hydrologic Unit 02040105, on right bank 2,000 ft upstream from mouth, 1.1 mi northwest of Bridgeville, and 2.0 mi northeast of Belvidere.

DRAINAGE AREA.--36.7 mi².

PERIOD OF RECORD.--May 1922 to October 1961, June 2003 to current year. Annual maximum and minimum, water years 1963-65, and annual maximums, water years 1966-95.

REVISED RECORDS.--WSP 781: Drainage area. WSP 1432: 1923, 1924(M), 1928, 1931(M), 1934(M).

GAGE.--Water-stage recorder. Datum of gage 303.36 ft above NGVD of 1929.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 230 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	0745	288	3.23	Apr 3	1145	*1,080	*5.07
Jan 15	0600	334	3.38	Apr 8	0115	240	3.06
Mar 29	1730	366	3.48				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	37	150	75	e54	61	184	69	21	38	5.7	4.6
2	241	31	261	69	e51	64	296	59	20	25	5.4	4.4
3	187	27	201	67	47	58	942	57	19	20	5.2	4.0
4	157	27	162	95	47	54	727	55	25	16	5.0	3.7
5	133	38	138	91	48	52	464	52	24	15	4.8	3.5
6	112	34	122	107	49	51	322	49	21	15	5.3	3.3
7	100	30	120	123	50	55	248	48	35	14	5.0	3.2
8	92	42	137	134	57	80	233	44	27	28	6.2	2.9
9	86	32	122	186	62	77	194	44	22	49	6.3	2.8
10	80	25	134	170	80	71	159	42	21	32	5.9	2.7
11	74	23	153	158	78	65	137	40	20	21	5.2	2.6
12	69	30	141	165	67	67	120	39	22	17	4.8	2.5
13	65	50	127	164	62	69	109	37	20	15	4.6	2.5
14	63	40	115	209	65	68	100	36	17	14	4.6	2.8
15	62	44	103	316	139	65	91	44	16	13	7.3	5.3
16	66	40	93	265	130	64	83	42	16	12	7.5	4.4
17	63	35	88	221	124	63	78	38	20	12	6.2	3.6
18	55	32	83	175	105	62	73	35	16	13	5.3	3.4
19	73	32	79	155	87	62	69	33	14	12	5.1	3.0
20	83	33	e70	127	85	63	66	33	13	11	5.3	2.8
21	65	38	e56	117	85	70	64	35	12	9.7	5.2	2.8
22	57	36	e58	e88	84	65	59	33	12	9.1	4.7	2.7
23	51	32	79	e68	84	68	71	31	12	8.7	4.4	2.6
24	48	32	155	e80	77	90	84	30	11	7.8	4.2	2.5
25	60	42	116	94	71	95	70	35	10	7.7	3.9	2.4
26	50	40	86	86	67	86	61	30	9.8	7.9	3.6	2.5
27	43	34	81	78	65	82	75	28	9.5	7.5	3.6	2.7
28	37	90	e72	e66	63	130	80	26	12	7.6	4.5	2.7
29	39	174	73	e64	---	307	61	33	15	7.1	5.6	2.6
30	38	133	71	65	---	298	63	27	76	6.5	4.8	2.6
31	44	---	72	58	---	226	---	23	---	6.1	4.6	---
TOTAL	2,728	1,333	3,518	3,936	2,083	2,788	5,383	1,227	588.3	477.7	159.8	94.1
MEAN	88.0	44.4	113	127	74.4	89.9	179	39.6	19.6	15.4	5.15	3.14
MAX	335	174	261	316	139	307	942	69	76	49	7.5	5.3
MIN	37	23	56	58	47	51	59	23	9.5	6.1	3.6	2.4
CFSM	2.40	1.21	3.09	3.46	2.03	2.45	4.89	1.08	0.53	0.42	0.14	0.09
IN.	2.77	1.35	3.57	3.99	2.11	2.83	5.46	1.24	0.60	0.48	0.16	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2005, BY WATER YEAR (WY)

MEAN	27.3	45.7	58.4	62.4	71.3	102	92.6	52.7	33.3	35.8	34.0	30.1
MAX	114	150	190	176	150	283	209	142	78.4	212	236	157
(WY)	(1956)	(1952)	(2004)	(1949)	(1925)	(1936)	(1952)	(1947)	(1946)	(1945)	(1942)	(2004)
MIN	2.63	5.12	11.9	17.1	21.3	49.4	40.7	16.0	8.47	3.09	2.42	2.05
(WY)	(1958)	(1932)	(1932)	(1925)	(1934)	(1932)	(1935)	(1941)	(1955)	(1955)	(1957)	(1957)

01446000 BEAVER BROOK NEAR BELVIDERE, NJ—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1923 - 2005	
ANNUAL TOTAL	26,067.5		24,315.9		53.5	
ANNUAL MEAN	71.2		66.6		23.8	
HIGHEST ANNUAL MEAN					106	1928
LOWEST ANNUAL MEAN					23.8	1932
HIGHEST DAILY MEAN	993	Sep 19	942	Apr 3	1,370	Mar 12, 1936
LOWEST DAILY MEAN	7.3	Jul 11	2.4	Sep 25	1.2	Sep 7, 1944
ANNUAL SEVEN-DAY MINIMUM	8.1	Jul 5	2.6	Sep 23	1.3	Sep 5, 1944
MAXIMUM PEAK FLOW			1,080	Apr 3	1,510 ^a	Mar 12, 1936
MAXIMUM PEAK STAGE			5.07	Apr 3	5.76	Mar 12, 1936
INSTANTANEOUS LOW FLOW			2.2	Sep 13,14,25	0.30 ^b	Sep 25, 1954
ANNUAL RUNOFF (CFSM)	1.94		1.82		1.46	
ANNUAL RUNOFF (INCHES)	26.42		24.65		19.80	
10 PERCENT EXCEEDS	128		140		119	
50 PERCENT EXCEEDS	59		49		36	
90 PERCENT EXCEEDS	17		4.6		6.3	

- a From rating curve extended above 990 ft³/s on basis of slope-area and contracted-opening measurements of peak flow.
- b Some time during period Sept. 18-30, 1964.
- c Estimated

