

01465850 SOUTH BRANCH RANOCAS CREEK AT VINCENTOWN, NJ

LOCATION.--Lat 39°56'24", long 74°45'47", Burlington County, Hydrologic Unit 02040202, on left bank 20 ft upstream from highway bridge on Lumberton-Vincentown Road (Landing Street, County Route 641), 0.8 mi west of Vincentown, 2.9 mi southwest of Lumberton, and 3.1 mi upstream from Southwest Branch Rancocas Creek.

DRAINAGE AREA.--64.5 mi².

PERIOD OF RECORD.--July 1961 to October 1975, October 1999 to June 2002, and July 2003 to current year. Operated as a crest-stage partial-record station 1976-95 and July 2002 to June 2003.

GAGE.--Water-stage recorder. Datum of gage is 13.17 ft above NGVD of 1929. Prior to November 1961, gage was at downstream side of bridge at same datum. Between October 1999 and June 2002, gage was located 150 ft downstream of bridge on left bank, at same datum.

REMARKS.--Records good, except discharges below 5.0 ft³/s which are poor. Occasional regulation by lakes and ponds above station. Satellite gage-height telemetry at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 13	1445	368	5.03	Mar 29	0230	631	6.25
Nov 28	2245	374	5.06	Apr 3	0345	*870	*6.94
Jan 15	0000	384	5.12	Apr 8	2015	370	5.04
Feb 15	1015	437	5.40	Aug 8	1530	593	6.12

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	187	95	254	106	96	131	201	165	56	65	17	18
2	154	88	285	100	100	139	358	165	51	141	16	17
3	188	81	221	95	91	131	674	141	52	129	13	17
4	157	82	186	94	91	118	346	117	85	89	12	20
5	123	196	164	115	102	113	265	100	95	65	12	21
6	99	163	145	185	112	112	232	91	86	62	10	31
7	84	142	146	181	124	120	202	88	197	62	9.6	32
8	73	126	221	164	136	142	281	84	163	129	323	40
9	71	112	197	173	157	165	295	78	116	223	225	34
10	71	101	248	156	197	153	238	72	86	161	148	28
11	66	94	257	142	188	150	213	65	69	113	89	33
12	61	100	209	177	159	156	185	61	58	69	48	36
13	59	302	178	176	146	145	161	58	48	52	37	55
14	49	274	160	238	146	131	133	55	40	47	26	46
15	63	214	142	319	372	120	120	51	37	42	44	50
16	67	185	125	239	280	111	110	50	37	42	37	47
17	70	158	114	211	244	97	99	48	41	42	36	45
18	65	148	101	181	217	94	96	45	35	48	31	44
19	111	134	95	152	183	86	102	41	32	51	27	48
20	158	121	95	139	155	86	96	54	30	46	27	56
21	151	114	87	121	149	93	88	106	28	39	26	58
22	142	109	82	136	176	90	81	105	26	34	23	54
23	140	104	95	137	167	105	106	94	25	29	19	53
24	127	103	171	142	150	234	129	77	22	26	17	61
25	111	109	153	119	142	206	117	71	21	23	14	66
26	105	109	138	107	139	181	104	80	20	23	14	63
27	93	101	128	106	132	160	96	90	26	20	14	64
28	86	214	115	110	128	273	121	86	52	21	15	61
29	90	301	107	101	---	504	129	79	59	20	16	55
30	90	228	106	94	---	304	102	70	63	18	16	13
31	99	---	107	92	---	248	---	61	---	18	20	---
TOTAL	3,210	4,408	4,832	4,608	4,479	4,898	5,480	2,548	1,756	1,949	1,381.6	1,266
MEAN	104	147	156	149	160	158	183	82.2	58.5	62.9	44.6	42.2
MAX	188	302	285	319	372	504	674	165	197	223	323	66
MIN	49	81	82	92	91	86	81	41	20	18	9.6	13
CFSM	1.61	2.28	2.42	2.30	2.48	2.45	2.83	1.27	0.91	0.97	0.69	0.65
IN.	1.85	2.54	2.79	2.66	2.58	2.82	3.16	1.47	1.01	1.12	0.80	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	66.8	95.9	128	114	126	136	128	84.5	60.9	69.7	66.6	64.6
MAX	155	325	291	177	238	200	243	184	165	323	169	155
(WY)	(1976)	(1973)	(1973)	(1964)	(1973)	(1962)	(1970)	(1972)	(1968)	(2004)	(1967)	(1975)
MIN	15.5	15.7	18.6	31.4	37.0	61.3	56.4	38.0	16.6	14.1	14.0	13.9
(WY)	(2002)	(2002)	(2002)	(1966)	(2002)	(2002)	(2002)	(1965)	(1965)	(1971)	(1964)	(1965)

01465850 SOUTH BRANCH RANOCAS CREEK AT VINCENTOWN, NJ—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	50,117		40,815.6		97.2	
ANNUAL MEAN	137		112		157	
HIGHEST ANNUAL MEAN					47.3	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	3,470	Jul 13	674	Apr 3	3,470	Jul 13, 2004
LOWEST DAILY MEAN	16	Jul 4	9.6	Aug 7	3.1	Aug 9, 1966
ANNUAL SEVEN-DAY MINIMUM	19	Jul 4	13	Aug 1	7.7	Sep 7, 1966
MAXIMUM PEAK FLOW			870	Apr 3	4,160	Jul 13, 2004
MAXIMUM PEAK STAGE			6.94	Apr 3	12.34	Jul 13, 2004
INSTANTANEOUS LOW FLOW			6.2	Sep 30	2.8	Jul 17, 1966
ANNUAL RUNOFF (CFSM)	2.12		1.73		1.51	
ANNUAL RUNOFF (INCHES)	28.90		23.54		20.49	
10 PERCENT EXCEEDS	221		212		190	
50 PERCENT EXCEEDS	101		100		74	
90 PERCENT EXCEEDS	42		26		21	

