

SANTEE RIVER BASIN

02143040 JACOB FORK AT RAMSEY, NC

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, Hydrologic Unit 03050102, on left bank 16 ft downstream of bridge on Secondary Road 1924, 0.6 mi downstream of Queens Creek, and 0.6 mi north of Ramsey.

DRAINAGE AREA.--25.7 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-61. October 1961 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,103.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,400 ft³/s on basis of contracted-opening measurement of peak flow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1940 reached a stage of about 39 ft, from information by local resident. Flood of July 1916 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

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	4.7	7.3	12	8.8	18	12	26	13	7.3	3.6	1.4	7.8
2	4.6	7.4	9.4	e8.8	16	24	24	13	6.6	3.3	1.1	7.3
3	4.7	7.4	8.5	e8.8	14	60	23	13	6.1	2.8	1.1	5.7
4	4.6	7.4	8.1	e8.8	14	35	21	18	5.9	2.4	1.0	4.9
5	4.7	7.1	7.7	e8.8	13	25	19	17	7.6	2.3	e0.95	4.5
6	5.3	7.0	7.5	14	15	21	19	13	6.4	2.1	e0.93	4.0
7	5.4	7.0	7.4	18	42	18	18	12	8.9	1.8	e0.92	3.6
8	5.2	7.0	7.4	13	88	17	18	12	6.9	1.7	e0.92	3.4
9	5.1	7.0	7.3	11	46	16	20	11	6.0	1.5	e0.91	3.2
10	5.3	7.1	15	11	36	16	23	10	5.5	1.4	e0.90	2.9
11	5.4	6.9	52	12	30	14	18	12	5.1	1.5	e0.90	2.7
12	5.7	6.8	21	11	25	19	20	11	5.0	1.8	e0.89	2.5
13	6.5	6.9	16	11	22	137	32	12	4.9	2.1	e0.87	2.6
14	73	7.1	14	10	19	98	31	13	4.6	6.2	e1.2	6.8
15	22	7.1	13	9.9	18	49	28	10	4.6	7.4	10	42
16	10	7.1	12	9.5	17	36	24	9.8	4.3	4.9	22	51
17	8.6	7.1	17	9.2	17	68	22	9.2	4.1	3.7	9.2	14
18	7.8	7.1	51	9.0	15	98	21	9.7	3.9	2.9	6.7	9.7
19	7.4	7.0	25	20	14	61	19	9.3	3.6	2.5	6.2	8.8
20	7.4	7.0	17	67	15	49	18	8.6	3.6	2.2	6.8	7.5
21	7.3	6.9	13	42	16	48	17	8.6	3.4	1.9	5.3	7.2
22	7.0	6.8	12	33	14	42	16	8.6	3.1	1.7	4.2	8.9
23	6.9	7.4	11	214	13	37	14	8.4	3.2	1.9	3.7	15
24	7.0	29	14	131	13	33	13	8.0	3.3	4.5	3.7	9.7
25	6.9	15	12	98	13	29	14	7.6	3.1	4.2	5.7	9.2
26	6.7	11	11	64	13	29	13	7.1	3.3	4.2	9.9	134
27	6.8	9.2	10	39	13	30	13	7.1	5.6	3.7	7.8	424
28	6.8	8.5	10	29	12	25	13	15	5.3	2.9	6.3	116
29	7.0	8.1	9.9	24	---	23	13	8.5	4.4	2.4	5.8	33
30	7.2	11	9.5	21	---	25	12	7.4	3.8	1.8	5.5	20
31	7.3	---	8.9	18	---	27	---	7.3	---	1.6	6.1	---
TOTAL	280.3	254.7	449.6	992.6	601	1221	582	330.2	149.4	88.9	138.89	971.9
MEAN	9.042	8.490	14.50	32.02	21.46	39.39	19.40	10.65	4.980	2.868	4.480	32.40
MAX	73	29	52	214	88	137	32	18	8.9	7.4	22	424
MIN	4.6	6.8	7.3	8.8	12	12	12	7.1	3.1	1.4	0.87	2.5
CFSM	0.35	0.33	0.56	1.25	0.84	1.53	0.75	0.41	0.19	0.11	0.17	1.26
IN.	0.41	0.37	0.65	1.44	0.87	1.77	0.84	0.48	0.22	0.13	0.20	1.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

	1965	1978	1984	1993	1966	1975	1983	1984	1972	1985	1970	1989
MEAN	39.73	40.26	45.85	58.28	65.31	75.99	66.38	51.06	40.13	32.74	31.81	27.85
MAX	154	130	92.6	131	134	177	157	109	82.3	72.7	152	102
(WY)	1965	1978	1984	1993	1966	1975	1983	1984	1972	1985	1970	1989
MIN	7.83	8.49	14.5	15.6	19.3	27.4	19.4	9.93	4.98	2.87	4.48	7.94
(WY)	2001	2002	2002	2001	2001	1988	2002	2001	2002	2002	2002	2001

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002	
ANNUAL TOTAL	6041.1		6060.49			
ANNUAL MEAN	16.55		16.60		47.87	
HIGHEST ANNUAL MEAN					80.8	
LOWEST ANNUAL MEAN					16.6	
HIGHEST DAILY MEAN	282		424		1730	
LOWEST DAILY MEAN	4.2		0.87		0.87	
ANNUAL SEVEN-DAY MINIMUM	4.6		0.90		0.90	
MAXIMUM PEAK FLOW			885		7220*	
MAXIMUM PEAK STAGE			5.79		19.74	
INSTANTANEOUS LOW FLOW			0.79		0.79	
ANNUAL RUNOFF (CFSM)	0.64		0.65		1.86	
ANNUAL RUNOFF (INCHES)	8.74		8.77		25.31	
10 PERCENT EXCEEDS	29		31		84	
50 PERCENT EXCEEDS	10		8.9		32	
90 PERCENT EXCEEDS	5.6		2.9		13	

e Estimated.
* See REMARKS.

02143040 JACOB FORK AT RAMSEY, NC--Continued

