

02143040 JACOB FORK AT RAMSEY, NC

LOCATION.--Lat 35°35'26", long 81°34'01", 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. Minimum discharge for current water year also occurred Aug. 11.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	25	28	26	21	39	36	40	22	96	18	18
2	28	25	27	26	22	41	32	40	18	157	17	17
3	27	25	26	25	47	37	29	36	17	77	16	16
4	27	25	29	25	47	34	27	31	18	90	15	15
5	27	29	33	28	36	33	26	29	18	74	14	14
6	26	45	32	27	381	34	25	27	17	42	13	15
7	26	36	31	25	293	31	24	26	17	32	13	308
8	28	32	29	25	111	30	24	24	18	28	12	2,450
9	38	28	28	25	71	29	24	36	19	24	12	365
10	33	27	90	24	57	29	22	28	17	22	12	133
11	36	26	143	23	49	28	23	24	16	22	12	75
12	32	26	63	23	52	28	56	25	16	21	22	52
13	29	25	48	23	48	26	215	28	25	20	20	41
14	29	25	80	23	47	26	156	25	22	18	16	36
15	32	25	71	23	50	28	76	23	41	17	15	34
16	28	24	75	23	45	29	53	41	71	16	14	32
17	28	24	82	22	40	27	44	37	29	16	13	63
18	27	24	72	28	38	30	39	33	24	19	55	93
19	27	212	54	25	37	29	36	28	22	17	20	45
20	26	82	43	23	37	26	35	25	19	16	16	32
21	26	45	37	22	37	26	33	23	147	15	33	29
22	25	36	35	22	34	25	31	22	120	15	39	26
23	25	32	34	22	32	24	30	21	74	14	24	24
24	25	33	33	22	31	24	29	21	61	14	21	23
25	25	31	31	24	31	24	28	20	47	13	23	22
26	26	28	29	23	32	24	34	19	71	14	18	21
27	45	28	28	22	33	24	33	19	53	17	16	33
28	31	33	28	21	32	24	28	18	41	60	23	472
29	28	33	27	21	36	23	26	18	33	21	e37	136
30	27	30	29	22	---	25	26	21	36	21	e28	70
31	26	---	27	22	---	38	---	29	---	19	18	---
TOTAL	891	1,119	1,422	735	1,827	895	1,300	837	1,149	1,047	625	4,710
MEAN	28.7	37.3	45.9	23.7	63.0	28.9	43.3	27.0	38.3	33.8	20.2	157
MAX	45	212	143	28	381	41	215	41	147	157	55	2,450
MIN	25	24	26	21	21	23	22	18	16	13	12	14
CFSM	1.12	1.45	1.78	0.92	2.45	1.12	1.69	1.05	1.49	1.31	0.78	6.11
IN.	1.29	1.62	2.06	1.06	2.64	1.30	1.88	1.21	1.66	1.52	0.90	6.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

	(1965)	(1978)	(1984)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
MEAN	39.3	40.7	46.8	57.0	65.3	75.7	68.3	52.2	42.6	34.3	33.6	31.1
MAX	154	130	92.6	131	134	177	171	124	148	98.6	152	157
(WY)	(1965)	(1978)	(1984)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
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)

02143040 JACOB FORK AT RAMSEY, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	31,175		16,557		48.8	
ANNUAL MEAN	85.4		45.2		90.9	
HIGHEST ANNUAL MEAN					16.6	2003
LOWEST ANNUAL MEAN					16.6	2002
HIGHEST DAILY MEAN	804	Apr 18	2,450	Sep 8	2,450	Sep 8, 2004
LOWEST DAILY MEAN	23	Jan 28	12	Aug 8	0.87	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	25	Jan 22	13	Aug 5	0.90	Aug 7, 2002
MAXIMUM PEAK FLOW			6,550	Sep 8	7,220*	Oct 17, 1975
MAXIMUM PEAK STAGE			18.93	Sep 8	19.74	Oct 17, 1975
INSTANTANEOUS LOW FLOW			11*	Aug 10	0.79	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	3.32		1.76		1.90	
ANNUAL RUNOFF (INCHES)	45.12		23.97		25.80	
10 PERCENT EXCEEDS	169		63		85	
50 PERCENT EXCEEDS	55		28		32	
90 PERCENT EXCEEDS	27		17		13	

* See REMARKS.
e Estimated.

