

## 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 mi<sup>2</sup>

## 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 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Oct. 9.

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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	29	17	58	43	88	73	84	54	74	77	49
2	13	23	16	53	37	81	64	111	48	559	59	46
3	12	20	15	67	34	65	58	147	74	208	352	55
4	11	17	16	67	43	54	54	106	205	118	191	61
5	9.9	21	40	56	39	51	56	116	109	94	102	48
6	9.1	39	37	48	36	125	48	348	76	87	83	45
7	8.6	33	30	43	40	111	215	260	713	78	385	43
8	8.2	27	27	42	34	77	162	170	423	70	258	42
9	8.1	23	27	41	32	64	203	114	206	69	164	42
10	8.7	32	28	37	33	53	598	90	141	70	241	40
11	17	359	195	33	32	46	528	79	112	62	254	38
12	13	174	95	31	31	42	219	70	96	59	147	37
13	14	117	204	30	30	40	142	61	88	362	123	37
14	12	62	248	29	33	38	109	57	81	163	100	36
15	32	44	113	28	56	37	93	74	86	104	91	37
16	312	126	77	27	54	127	85	68	268	82	84	36
17	85	227	55	29	47	112	79	70	358	69	85	34
18	35	95	44	27	45	147	804	83	182	63	75	35
19	23	57	40	e26	52	169	295	77	205	60	77	34
20	18	44	193	26	54	776	186	68	145	56	75	32
21	21	39	119	27	54	290	152	63	110	53	75	30
22	30	34	77	26	357	155	130	266	93	52	78	38
23	24	29	57	27	234	112	110	436	83	55	67	60
24	20	25	222	e25	109	90	98	214	75	50	62	35
25	19	23	232	e24	76	77	96	139	69	45	59	33
26	26	21	118	24	63	70	117	104	65	43	55	33
27	23	20	83	24	69	62	95	89	65	42	52	33
28	24	18	68	23	74	57	85	74	67	41	51	35
29	38	18	57	30	---	57	82	70	60	51	50	31
30	57	18	48	53	---	100	84	62	85	50	49	29
31	39	---	45	53	---	89	---	62	---	68	50	---
TOTAL	985.6	1,814	2,643	1,134	1,841	3,462	5,120	3,832	4,442	3,057	3,671	1,184
MEAN	31.8	60.5	85.3	36.6	65.8	112	171	124	148	98.6	118	39.5
MAX	312	359	248	67	357	776	804	436	713	559	385	61
MIN	8.1	17	15	23	30	37	48	57	48	41	49	29
CFSM	1.24	2.35	3.32	1.42	2.56	4.35	6.64	4.81	5.76	3.84	4.61	1.54
IN.	1.43	2.63	3.83	1.64	2.66	5.01	7.41	5.55	6.43	4.42	5.31	1.71

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

MEAN	39.5	40.7	46.8	57.8	65.3	76.8	68.9	52.8	42.7	34.3	33.9	28.1
MAX	154	130	92.6	131	134	177	171	124	148	98.6	152	102
(WY)	(1965)	(1978)	(1984)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1962 - 2003	
ANNUAL TOTAL	10,518.49		33,185.6		48.9	
ANNUAL MEAN	28.8		90.9		90.9	
HIGHEST ANNUAL MEAN					16.6	2003
LOWEST ANNUAL MEAN					16.6	2002
HIGHEST DAILY MEAN	424	Sep 27	804	Apr 18	1,730	Nov 6, 1977
LOWEST DAILY MEAN	0.87	Aug 13	8.1	Oct 9	0.87	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.90	Aug 7	9.1	Oct 4	0.90	Aug 7, 2002
MAXIMUM PEAK FLOW			1,960	Jun 7	7,220*	Oct 17, 1975
MAXIMUM PEAK STAGE			10.06	Jun 7	19.74	Oct 17, 1975
INSTANTANEOUS LOW FLOW			7.7*	Oct 8	0.79	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.12		3.54		1.90	
ANNUAL RUNOFF (INCHES)	15.23		48.04		25.85	
10 PERCENT EXCEEDS	61		204		86	
50 PERCENT EXCEEDS	14		59		32	
90 PERCENT EXCEEDS	2.9		24		13	

e Estimated.  
 \* See REMARKS.

