02143040 JACOB FORK AT RAMSEY, NC

Santee Basin
South Fork Catawba Subbasin

LOCATION.--Lat 35°35′26″, long 81°34′01″ referenced to North American Datum of 1983, Burke County, NC, 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^2.

SURFACE-WATER 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. Tipping-bucket raingage and electronic datalogger. Datum of gage is 1,103.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from rating curve extended above 3,400 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Aug. 3, 4.

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.

02143040 JACOB FORK AT RAMSEY, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	16	44	48	37	26	22	36	15	15	6.9	86
2	15	16	33	76	36	26	21	33	19	14	6.5	36
3	15	15	28	132	45	25	30	31	27	13	6.2	25
4	15	15	26	91	40	24	25	29	17	13	12	110
5	15	15	104	70	38	24	22	29	15	12	9.8	208
6	79	16	108	56	35	25	21	29	15	14	7.1	72
7	452	15	56	46	34	24	21	30	14	13	6.7	210
8	647	15	40	41	33	23	23	31	14	12	6.7	96
9	103	15	53	39	32	23	21	28	13	11	6.8	55
10	57	15	54	36	31	23	19	27	12	11	8.0	98
11	44	15	46	58	36	23	19	27	12	10	101	232
12	37	15	38	56	35	23	19	25	14	10	613	72
13	33	15	32	68	31	23	19	23	17	9.5	93	226
14	29	15	28	135	30	23	19	26	16	11	37	314
15	26	15	64	87	30	23	18	25	13	9.8	26	108
16	24	22	82	63	29	23	18	22	12	8.8	141	64
17	23	19	93	59	29	23	18	22	11	8.1	42	48
18	21	16	67	99	30	22	17	22	10	7.6	26	40
19	21	15	56	80	29	22	29	21	10	7.2	20	40
20	20	15	54	65	28	31	25	24	9.8	8.5	18	31
21	20	45	51	65	28	55	20	22	9.3	14	17	27
22	20	163	44	56	30	35	54	20	8.8	18	48	26
23	18	43	40	60	31	29	37	20	46	16	36	26
24	18	29	38	59	28	29	27	19	39	12	22	28
25	18	24	64	53	27	26	37	18	17	13	19	26
26	18	21	74	47	27	24	125	18	71	11	16	23
27	17	20	56	42	26	23	122	17	109	9.4	14	21
28	17	23	52	40	26	23	73	17	38	8.5	13	21
29	17	101	90	46	---	23	50	16	22	8.3	12	21
30	16	80	72	44	---	22	41	15	18	8.7	17	20
31	16	---	58	41	---	22	---	15	---	7.5	26	---
Total	1,886	864	1,745	1,958	891	790	1,012	737	663.9	344.9	1,433.7	2,410
Mean	60.8	28.8	56.3	63.2	31.8	25.5	33.7	23.8	22.1	11.1	46.2	80.3
Max	647	163	108	135	45	55	125	36	109	18	613	314
Min	15	15	26	36	26	22	17	15	8.8	7.2	6.2	20
Cfsm	2.37	1.12	2.19	2.46	1.24	0.99	1.31	0.93	0.86	0.43	1.80	3.13
In.	2.73	1.25	2.53	2.83	1.29	1.14	1.46	1.07	0.96	0.50	2.08	3.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2006, BY WATER YEAR (WY)

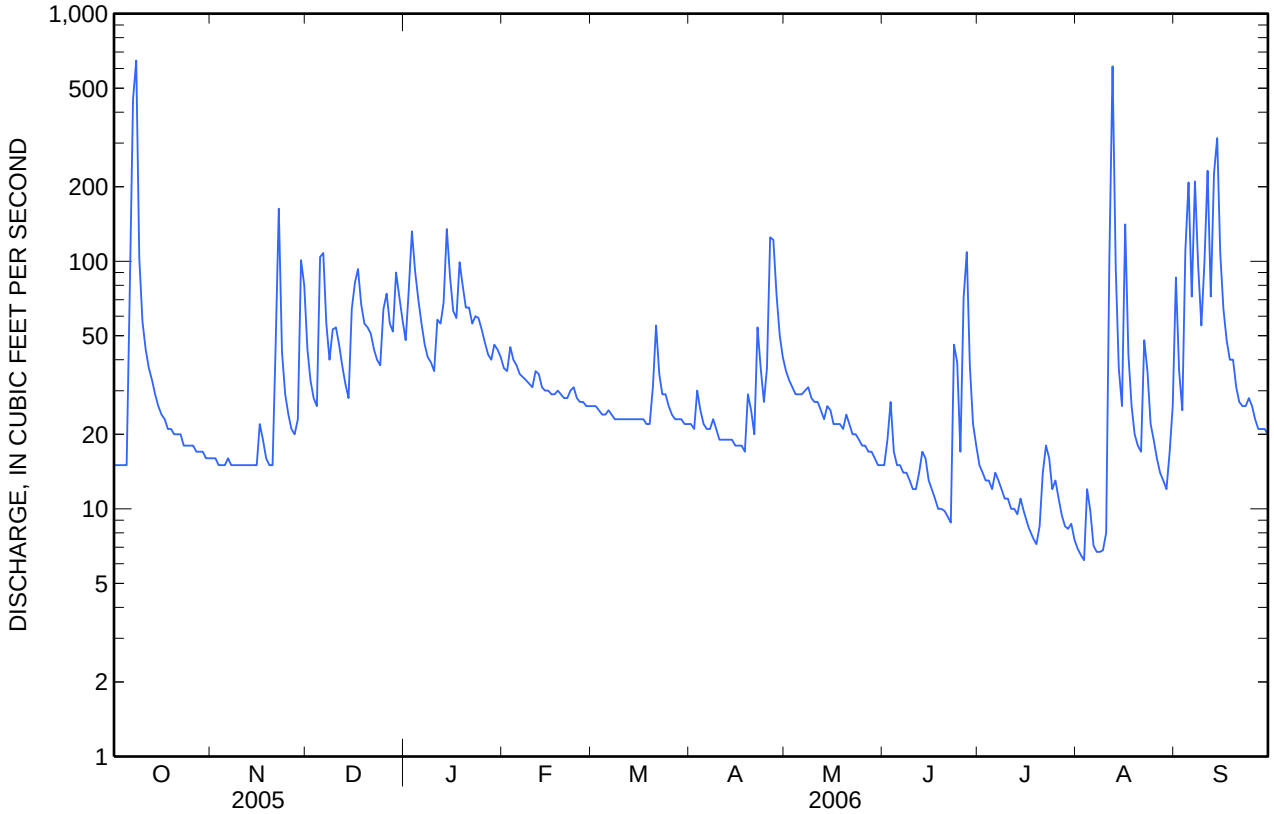
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	39.5	41.0	48.0	57.1	64.1	74.6	67.4	51.1	42.0	34.4	34.4	31.9
Max	154	130	93.2	131	134	177	171	124	148	98.6	152	157
(WY)	(1965)	(1978)	(2005)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
Min	7.83	8.49	14.5	15.6	19.3	25.5	19.4	9.93	4.98	2.87	4.48	7.94
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(2006)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

02143040 JACOB FORK AT RAMSEY, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1962 - 2006	
Annual total	18,028		14,735.5			
Annual mean	49.4		40.4		48.7	
Highest annual mean					90.9	2003
Lowest annual mean					16.6	2002
Highest daily mean	647	Oct 8	647	Oct 8	2,450	Sep 8, 2004
Lowest daily mean	15	Sep 19	6.2	Aug 3	0.87	Aug 13, 2002
Annual seven-day minimum	15	Nov 7	7.5	Jul 28	0.90	Aug 7, 2002
Maximum peak flow			2,070	Oct 7	[a]7,220	Oct 17, 1975
Maximum peak stage			10.42	Oct 7	19.74	Oct 17, 1975
Instantaneous low flow			[a]5.9	Aug 2	0.79	Aug 14, 2002
Annual runoff (cfsm)	1.92		1.57		1.90	
Annual runoff (inches)	26.10		21.33		25.75	
10 percent exceeds	76		75		85	
50 percent exceeds	38		25		32	
90 percent exceeds	16		12		13	

[a] See Remarks.



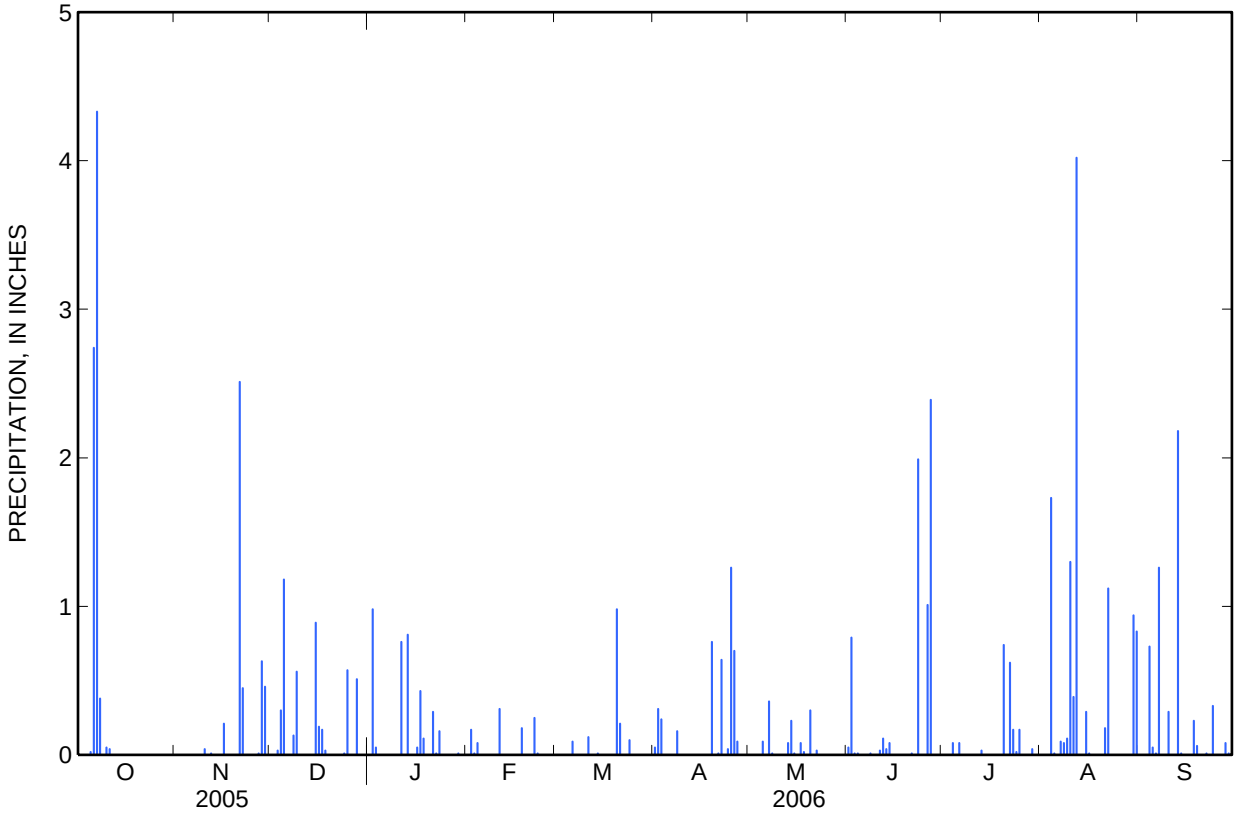
CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--November 2000 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00
2	0.00	0.00	0.00	0.98	0.17	0.00	0.31	0.00	0.79	0.00	0.00	0.00
3	0.00	0.00	0.03	0.05	0.01	0.00	0.24	0.00	0.01	0.00	0.00	0.00
4	0.00	0.00	0.30	0.00	0.08	0.00	0.00	0.00	0.01	0.08	1.73	0.73
5	0.02	0.00	1.18	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.01	0.05
6	2.74	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.08	0.00	0.01
7	4.33	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.09	1.26
8	0.38	0.00	0.13	0.00	0.00	0.00	0.16	0.01	0.01	0.00	0.08	0.00
9	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
10	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.29
11	0.04	0.00	0.00	0.76	0.31	0.12	0.00	0.00	0.03	0.00	0.39	0.00
12	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	4.02	0.00
13	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.08	0.04	0.03	0.00	2.18
14	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.23	0.08	0.00	0.00	0.01
15	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.29	0.00
16	0.00	0.21	0.19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
17	0.00	0.00	0.17	0.43	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
18	0.00	0.00	0.03	0.11	0.18	0.00	0.00	0.02	0.00	0.00	0.00	0.23
19	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.06
20	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.30	0.00	0.74	0.00	0.00
21	0.00	2.51	0.00	0.29	0.00	0.21	0.01	0.00	0.01	0.00	0.18	0.00
22	0.00	0.45	0.00	0.01	0.25	0.00	0.64	0.03	0.00	0.62	1.12	0.01
23	0.00	0.00	0.00	0.16	0.01	0.00	0.00	0.00	1.99	0.17	0.00	0.00
24	0.00	0.00	0.01	0.00	0.00	0.10	0.04	0.00	0.00	0.02	0.00	0.33
25	0.00	0.00	0.57	0.00	0.00	0.00	1.26	0.00	0.00	0.17	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	1.01	0.00	0.00	0.00
27	0.00	0.01	0.00	0.00	0.00	0.00	0.09	0.00	2.39	0.00	0.00	0.00
28	0.00	0.63	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
29	0.00	0.46	0.00	0.01	---	0.00	0.00	0.00	0.00	0.04	0.00	0.01
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.94	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.83	---
Total	7.56	4.32	4.57	3.66	1.01	1.51	4.26	1.21	6.53	1.95	11.10	5.25

02143040 JACOB FORK AT RAMSEY, NC—Continued