

Water-Data Report 2007

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 mi².

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 ft³/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred September 12, 13.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	18	28	45	728	46	122	38	26	18	15	7.8	8.6
2	17	27	36	245	47	606	36	25	15	13	8.3	7.5
3	17	24	33	142	44	156	35	25	20	13	7.6	7.0
4	17	23	31	109	41	99	34	27	19	12	9.0	6.5
5	16	22	30	178	40	75	32	27	15	11	8.0	6.1
6	16	22	29	238	39	64	32	27	14	10	7.2	5.9
7	15	47	28	176	40	57	31	24	13	10	6.7	5.7
8	18	224	26	427	38	52	31	23	13	9.9	6.3	5.5
9	20	100	26	220	37	48	31	24	13	9.7	6.0	5.3
10	17	60	26	147	36	46	31	23	12	10	5.7	5.1
11	16	45	25	116	36	44	33	23	12	13	5.5	4.8
12	17	41	25	100	36	41	36	23	13	10	5.7	4.5
13	16	35	25	90	37	40	31	22	13	9.4	5.7	4.6
14	15	33	25	83	44	39	32	21	15	9.4	5.3	24
15	14	36	25	79	36	39	70	20	40	9.2	5.1	18
16	15	476	24	75	35	124	52	21	18	9.2	5.0	7.5
17	100	164	23	65	34	125	40	22	15	9.2	5.1	6.3
18	80	89	23	63	34	79	35	20	13	9.8	4.9	6.0
19	36	67	22	64	32	64	36	19	12	8.9	4.8	5.9
20	40	53	22	59	32	57	39	18	13	8.5	4.7	6.1
21	30	45	21	61	33	52	34	18	12	8.3	5.0	6.4
22	27	60	345	72	32	48	32	17	11	7.7	6.6	6.8
23	24	56	263	65	31	46	31	17	11	7.4	6.5	6.2
24	22	49	104	59	31	44	31	18	11	8.3	8.8	5.9
25	21	42	217	57	59	42	30	17	11	8.3	7.1	5.7
26	20	38	216	53	57	41	30	16	11	8.0	6.4	5.5
27	30	35	108	52	46	40	33	16	11	7.7	6.4	5.3
28	115	34	71	52	40	39	29	16	11	7.7	6.6	5.1
29	62	32	55	47	---	39	27	15	10	7.9	7.5	4.7
30	39	33	50	46	---	37	27	15	45	8.4	16	4.7
31	31	---	81	45	---	37	---	15	---	8.9	14	---
Total	941	2,040	2,080	4,013	1,093	2,442	1,039	640	460	298.8	215.3	207.2
Mean	30.4	68.0	67.1	129	39.0	78.8	34.6	20.6	15.3	9.64	6.95	6.91
Max	115	476	345	728	59	606	70	27	45	15	16	24
Min	14	22	21	45	31	37	27	15	10	7.4	4.7	4.5
Cfsm	1.18	2.65	2.61	5.04	1.52	3.07	1.35	0.80	0.60	0.38	0.27	0.27
In.	1.36	2.95	3.01	5.81	1.58	3.53	1.50	0.93	0.67	0.43	0.31	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2007, BY WATER YEAR (WY)

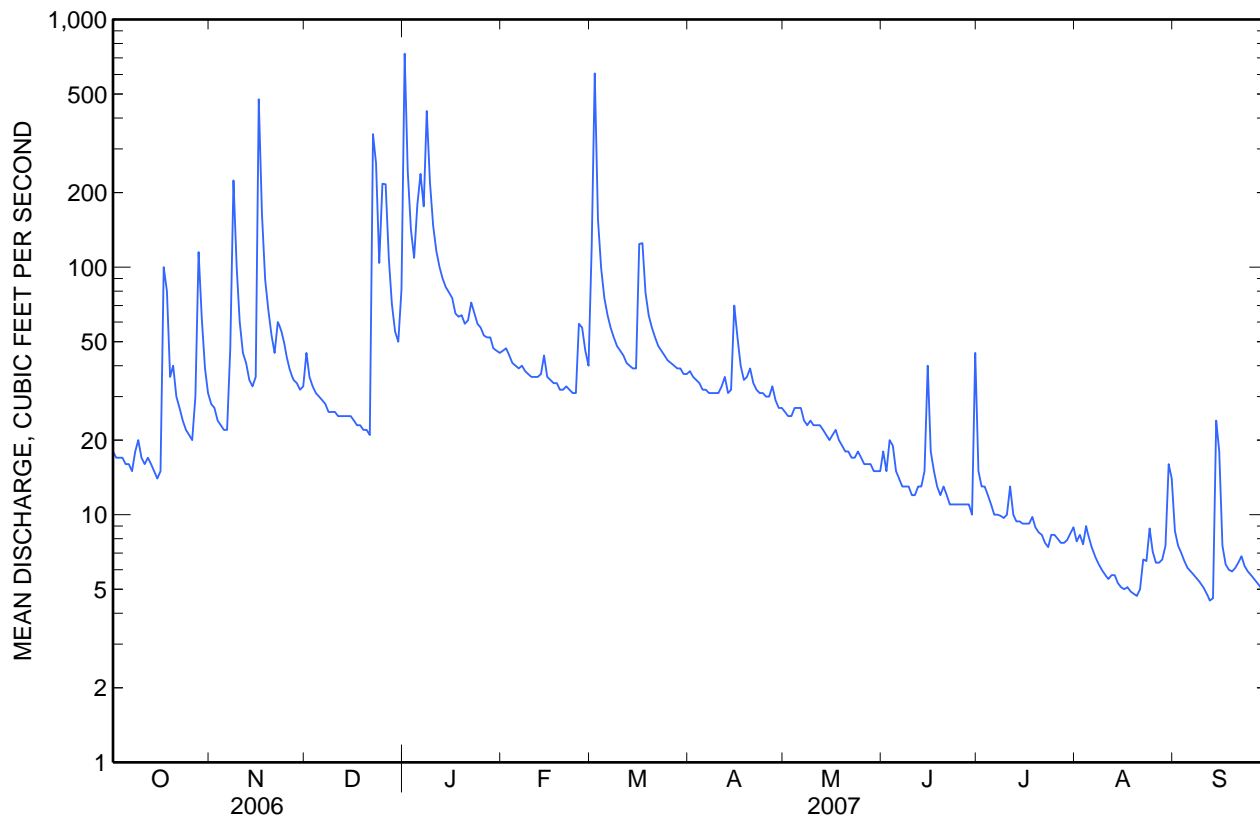
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	39.3	41.6	48.4	58.7	63.6	74.7	66.6	50.4	41.4	33.9	33.8	31.4
Max	154	130	93.2	131	134	177	171	124	148	98.6	152	157
(WY)	(1965)	(1978)	(2005)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
Min	7.83	8.49	14.5	15.6	19.3	25.5	19.4	9.93	4.98	2.87	4.48	6.91
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(2006)	(2002)	(2001)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1962 - 2007	
Annual total	15,301.5		15,469.3			
Annual mean	41.9		42.4		48.6	
Highest annual mean					90.9	2003
Lowest annual mean					16.6	2002
Highest daily mean	613	Aug 12	728	Jan 1	2,450	Sep 8, 2004
Lowest daily mean	6.2	Aug 3	4.5	Sep 12	0.87	Aug 13, 2002
Annual seven-day minimum	7.5	Jul 28	4.9	Aug 15	0.90	Aug 7, 2002
Maximum peak flow			1,360	Mar 2	^a 7,220	Oct 17, 1975
Maximum peak stage			7.74	Mar 2	19.74	Oct 17, 1975
Instantaneous low flow			^a 4.2	Sep 11	0.79	Aug 14, 2002
Annual runoff (cfsm)	1.63		1.65		1.89	
Annual runoff (inches)	22.15		22.39		25.68	
10 percent exceeds	80		79		85	
50 percent exceeds	26		26		32	
90 percent exceeds	12		6.4		13	

^a See Remarks.



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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 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.19	1.78	0.29	2.36	0.11	0.00	0.01	0.00	0.00	0.00
2	0.00	0.04	0.00	0.00	0.01	0.19	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.45	0.00	0.04	0.00
4	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.10	0.00
5	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
6	0.08	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	1.39	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.27	0.16	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
11	0.12	0.07	0.00	0.00	0.00	0.00	0.26	0.03	0.00	0.07	0.00	0.00
12	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.01	0.00
13	0.00	0.00	0.01	0.00	0.27	0.00	0.00	0.00	0.02	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.01	0.00	0.59	0.00	1.35	0.00	0.00	1.99
15	0.00	1.27	0.00	0.00	0.00	0.05	0.29	0.00	0.05	0.00	0.00	0.00
16	0.07	0.63	0.00	0.00	0.00	1.51	0.01	0.21	0.00	0.03	0.00	0.00
17	2.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
18	0.01	0.00	0.00	0.07	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00
19	0.35	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.01	0.00	0.00	0.00
20	0.04	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
21	0.00	0.18	0.02	0.62	0.01	0.05	0.00	0.00	0.00	0.00	0.45	0.02
22	0.09	0.56	2.29	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.13	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.17	0.13	0.01	0.00
25	0.00	0.00	1.36	0.00	1.02	0.00	0.00	0.00	0.24	0.00	0.00	0.00
26	0.00	0.00	0.02	0.00	0.00	0.00	0.08	0.00	0.59	0.00	0.00	0.00
27	1.24	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.27	0.00	0.00	0.00
28	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00
29	0.00	0.00	0.00	0.00	---	0.07	0.00	0.00	1.62	0.00	0.20	0.00
30	0.00	0.06	0.05	0.00	---	0.00	0.00	0.00	0.10	0.00	0.18	0.00
31	0.00	---	1.47	0.00	---	0.00	---	0.43	---	0.00	0.03	---
Total	4.77	4.37	5.47	5.14	1.62	4.23	1.92	1.07	5.03	0.42	1.20	2.01

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