



Water-Data Report 2010

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

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 National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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 21, 24, 25, 26.

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 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	21	102	30	64	64	62	61	36	59	18	18	11
2	19	70	262	61	86	63	57	36	105	17	17	11
3	19	46	260	57	99	62	55	49	65	16	17	10
4	17	36	97	54	90	59	53	42	81	15	15	9.5
5	20	31	72	52	266	55	52	37	50	15	20	9.3
6	19	28	58	49	281	53	51	35	39	14	32	9.3
7	18	26	51	47	156	53	49	33	35	13	18	9.2
8	16	24	51	46	127	53	56	32	30	13	15	9.4
9	16	23	279	43	114	54	58	30	28	13	14	9.8
10	23	48	136	43	106	57	49	30	28	13	14	9.0
11	18	922	80	43	92	60	47	32	26	12	16	9.2
12	18	240	63	41	86	76	46	31	25	16	14	11
13	19	106	65	39	82	234	45	30	24	20	12	9.6
14	25	71	63	39	74	123	44	29	24	19	17	8.8
15	31	56	59	38	75	90	43	32	31	15	53	8.3
16	27	47	52	38	71	74	43	32	31	14	25	8.0
17	34	41	48	279	67	66	42	48	24	14	21	7.8
18	30	39	54	142	64	63	40	49	22	39	21	7.7
19	25	40	59	92	62	59	40	37	26	29	25	7.7
20	22	36	51	75	62	55	40	32	29	18	35	7.4
21	20	34	47	77	68	66	43	32	22	17	22	7.3
22	19	34	47	79	98	264	39	33	20	15	20	8.0
23	19	e48	48	76	122	128	38	30	20	15	17	8.2
24	25	e46	51	277	115	90	38	30	19	13	15	7.5
25	22	e44	369	810	93	77	76	29	19	13	17	7.0
26	19	40	251	188	80	77	54	28	18	18	15	14
27	27	36	129	116	73	65	46	27	17	22	14	20
28	73	33	98	91	67	68	41	27	17	32	13	16
29	48	31	78	83	---	78	38	29	22	24	13	13
30	35	31	67	86	---	73	37	26	22	17	12	19
31	36	---	66	71	---	65	---	41	---	15	12	---
Total	780	2,409	3,141	3,296	2,840	2,522	1,421	1,044	978	544	589	303.0
Mean	25.2	80.3	101	106	101	81.4	47.4	33.7	32.6	17.5	19.0	10.1
Max	73	922	369	810	281	264	76	49	105	39	53	20
Min	16	23	30	38	62	53	37	26	17	12	12	7.0
Cfsm	0.98	3.12	3.94	4.14	3.95	3.17	1.84	1.31	1.27	0.68	0.74	0.39
In.	1.13	3.49	4.55	4.77	4.11	3.65	2.06	1.51	1.42	0.79	0.85	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2010, BY WATER YEAR (WY)

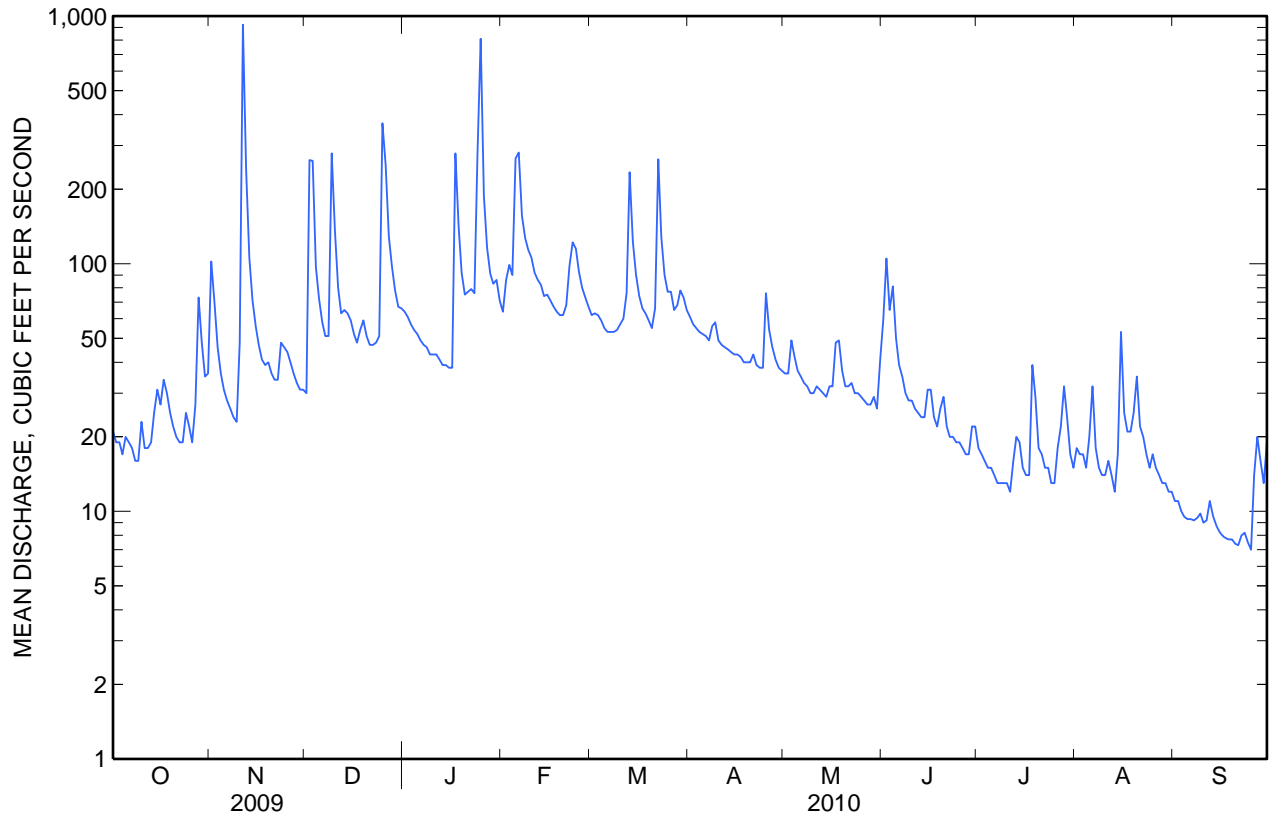
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	37.8	41.1	48.6	58.4	62.6	74.1	65.6	49.2	40.3	32.6	32.8	30.8
Max	154	130	101	131	134	177	171	124	148	98.6	152	157
(WY)	(1965)	(1978)	(2010)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
Min	7.18	8.49	14.5	13.5	18.7	25.5	19.4	9.93	4.98	2.87	4.48	6.91
(WY)	(2008)	(2002)	(2002)	(2008)	(2009)	(2006)	(2002)	(2001)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1962 - 2010	
Annual total	16,711.6		19,867.0			
Annual mean	45.8		54.4		47.8	
Highest annual mean					90.9	2003
Lowest annual mean					16.6	2002
Highest daily mean	922	Nov 11	922	Nov 11	2,450	Sep 8, 2004
Lowest daily mean	7.6	Aug 11	7.0	Sep 25	0.87	Aug 13, 2002
Annual seven-day minimum	8.4	Aug 10	7.6	Sep 19	0.90	Aug 7, 2002
Maximum peak flow			2,050	Jan 25	^a 7,220	Oct 17, 1975
Maximum peak stage			10.35	Jan 25	19.74	Oct 17, 1975
Instantaneous low flow			^a 6.8	Sep 20	0.79	Aug 14, 2002
Annual runoff (cfsm)	1.78		2.12		1.86	
Annual runoff (inches)	24.19		28.76		25.25	
10 percent exceeds	78		92		84	
50 percent exceeds	28		37		31	
90 percent exceeds	14		13		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.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.01	0.00	---	---	0.00	0.00	0.00	0.27	0.00	0.04	0.00
2	0.00	0.00	2.55	---	---	0.17	0.00	0.02	0.38	0.00	0.02	0.00
3	0.00	0.00	0.01	---	---	0.00	0.00	0.78	0.03	0.00	0.03	0.00
4	0.03	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.41	0.00	0.12	---	---	0.00	0.00	0.00	0.20	0.00	0.63	0.00
6	0.01	0.00	0.00	---	---	0.00	0.00	0.02	0.11	0.00	0.00	0.00
7	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	---	---	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.02
9	0.12	0.00	---	---	0.02	0.00	0.00	0.00	0.00	0.04	0.00	0.00
10	0.65	---	---	---	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00
11	0.00	---	---	---	0.00	0.39	0.00	0.11	0.00	0.00	0.00	0.13
12	0.34	---	---	---	---	0.96	0.00	0.00	0.00	0.40	0.00	0.02
13	0.00	---	---	---	---	0.13	0.00	0.00	0.01	0.32	0.00	0.00
14	0.64	---	---	---	---	0.01	0.00	0.40	0.00	0.00	0.20	0.00
15	0.12	---	---	---	---	0.00	0.00	0.01	0.48	0.00	0.24	0.00
16	0.31	---	---	---	0.00	0.00	0.00	0.34	0.03	0.00	0.00	0.00
17	0.02	---	---	---	0.00	0.00	0.00	0.89	0.00	0.02	0.24	0.00
18	0.00	---	---	---	0.00	0.00	0.00	0.01	0.00	1.13	0.05	0.00
19	0.00	---	---	---	0.00	0.00	0.00	0.00	1.19	0.00	0.77	0.00
20	0.00	---	---	---	0.00	0.00	0.03	0.00	0.00	0.02	0.11	0.00
21	0.00	---	---	---	0.00	1.06	0.34	0.19	0.00	0.00	0.03	0.00
22	0.00	---	---	---	0.29	0.74	0.00	0.04	0.00	0.00	0.01	0.27
23	0.20	---	---	---	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00
24	0.14	0.00	---	---	0.16	0.00	0.57	0.02	0.00	0.00	0.00	0.00
25	0.00	0.00	---	---	0.00	0.19	0.66	0.05	0.00	0.03	0.05	0.00
26	0.00	0.02	---	---	0.00	0.06	0.00	0.00	0.00	1.05	0.00	0.99
27	1.24	0.00	---	---	0.00	0.00	0.07	0.00	0.00	1.36	0.00	0.41
28	0.06	0.00	---	0.00	0.00	0.52	0.00	0.19	0.19	0.53	0.00	0.00
29	0.00	0.00	---	---	---	0.41	0.00	0.01	0.55	0.01	0.00	0.40
30	0.00	0.02	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02
31	0.13	---	---	---	---	0.00	---	1.02	---	0.10	0.00	---
Total	4.42	---	---	---	---	4.65	2.56	4.42	3.44	5.02	2.43	2.26

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