

Water-Data Report 2007

02093800 REEDY FORK NEAR OAK RIDGE, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°10'21", long 79°57'10" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 2128, 0.8 mi downstream from Beaver Creek, and 2 mi east of Oak Ridge.

DRAINAGE AREA.--20.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 771.30 ft above NGVD of 1929. Prior to December 13, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Some diurnal fluctuation at medium and low flows caused by upstream mill. Maximum discharge for period of record, from rating curve extended above 1,500 ft³/s on basis of contracted-opening measurement; gage height: 10.94 ft.

02093800 REEDY FORK NEAR OAK RIDGE, NC—Continued

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	10	12	19	115	12	20	15	11	7.4	6.0	4.5	1.8
2	9.1	10	17	64	14	262	14	11	7.4	4.9	3.8	1.6
3	8.6	9.5	13	31	13	85	14	10	28	4.7	3.3	1.4
4	8.1	9.8	13	24	11	43	13	12	21	4.5	3.7	1.3
5	8.1	9.3	13	32	11	31	12	14	11	4.7	3.2	1.2
6	9.7	9.3	12	51	12	28	12	13	10	9.8	2.9	1.1
7	10	16	11	43	12	25	13	11	8.2	6.0	2.6	0.99
8	19	28	10	176	11	22	12	11	7.3	5.6	2.3	0.89
9	12	16	11	64	11	19	12	11	7.1	5.3	2.3	0.89
10	9.7	12	11	34	11	18	11	12	6.5	7.8	2.4	1.8
11	9.2	11	11	25	11	17	27	11	6.8	14	2.3	1.7
12	9.2	46	11	22	11	16	104	11	8.0	9.1	2.1	1.0
13	8.1	19	11	19	15	16	35	12	7.7	6.7	2.0	0.75
14	7.9	15	11	18	169	16	23	11	11	6.5	1.7	2.8
15	7.9	13	11	17	47	15	164	9.6	8.4	6.2	1.6	4.9
16	8.0	377	10	16	32	220	190	9.4	8.0	5.1	1.5	2.6
17	18	142	10	13	25	141	43	11	11	4.6	2.0	1.9
18	31	50	12	14	21	59	28	10	7.2	5.6	1.9	1.9
19	13	32	9.9	15	19	35	22	9.8	6.5	4.7	1.7	1.8
20	14	24	9.7	14	18	28	19	9.3	7.2	4.2	1.5	1.6
21	12	27	9.9	15	18	25	17	8.7	6.1	4.0	1.4	1.7
22	11	351	16	39	17	23	16	8.5	5.6	3.7	2.7	1.9
23	10	162	19	23	15	21	15	8.8	5.2	6.0	3.2	1.5
24	9.0	67	12	18	15	19	15	8.4	5.2	4.8	2.8	1.3
25	8.7	36	81	15	29	18	15	8.2	21	6.6	2.1	1.1
26	8.5	27	62	14	34	16	13	8.0	8.6	5.3	1.8	0.94
27	11	25	27	14	23	16	14	7.6	6.8	4.7	1.8	0.77
28	34	22	20	13	18	16	13	7.6	6.2	6.0	1.7	0.75
29	15	19	17	12	---	19	13	7.8	6.4	6.1	1.6	0.67
30	12	17	15	12	---	17	12	7.7	6.1	5.8	2.6	0.76
31	11	---	15	12	---	15	---	8.2	---	5.2	2.3	---
Total	372.8	1,613.9	530.5	994	655	1,321	926	309.6	272.9	184.2	73.3	45.31
Mean	12.0	53.8	17.1	32.1	23.4	42.6	30.9	9.99	9.10	5.94	2.36	1.51
Max	34	377	81	176	169	262	190	14	28	14	4.5	4.9
Min	7.9	9.3	9.7	12	11	15	11	7.6	5.2	3.7	1.4	0.67
Cfsm	0.58	2.61	0.83	1.56	1.14	2.07	1.50	0.48	0.44	0.29	0.11	0.07
In.	0.67	2.91	0.96	1.79	1.18	2.39	1.67	0.56	0.49	0.33	0.13	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2007, BY WATER YEAR (WY)

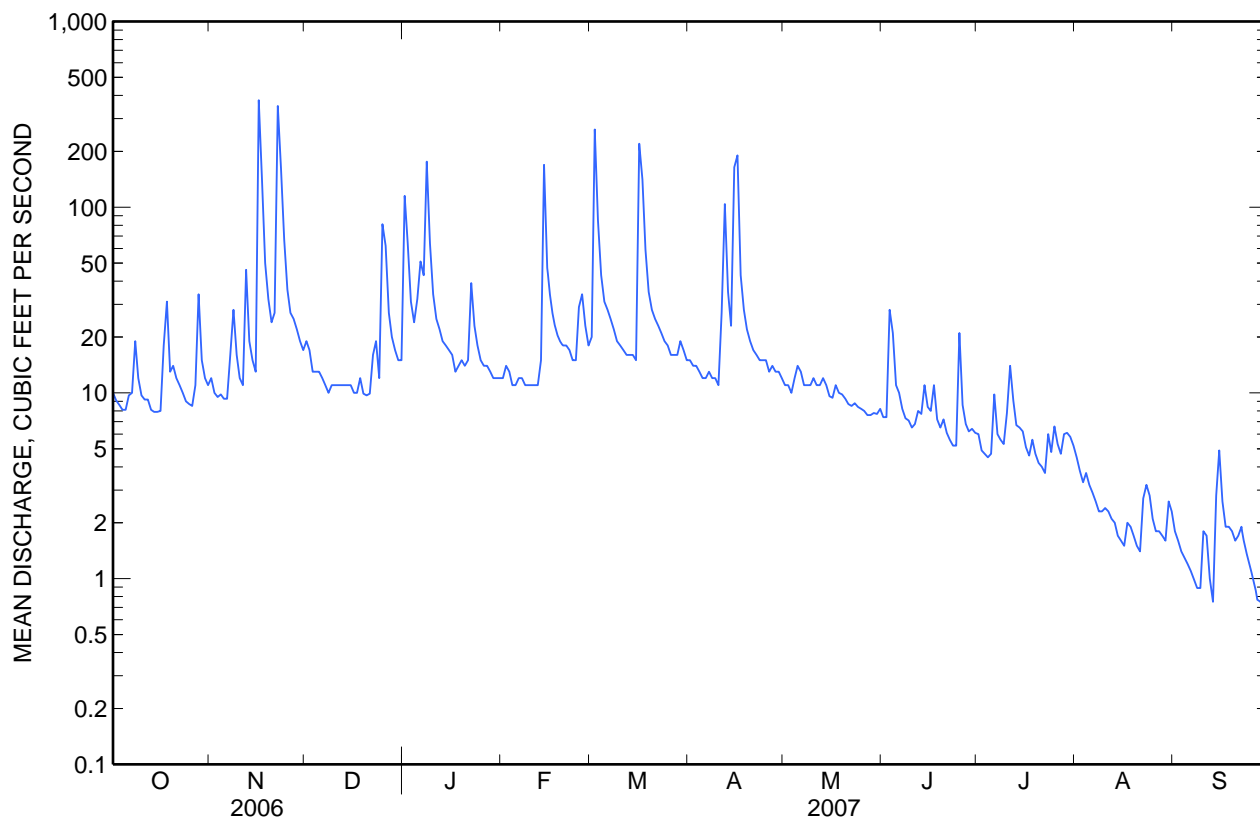
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.9	18.4	23.7	29.5	33.8	37.0	29.4	22.1	19.1	19.1	16.2	19.5
Max	80.2	53.8	48.7	82.0	78.7	102	75.8	58.9	74.4	152	62.0	100
(WY)	(1991)	(2007)	(1963)	(1978)	(1979)	(1975)	(1987)	(1991)	(1982)	(1984)	(1978)	(1996)
Min	5.90	5.87	8.67	8.52	12.8	11.4	8.41	5.13	2.94	3.33	1.58	1.51
(WY)	(1968)	(2002)	(1956)	(1956)	(2002)	(2006)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

02093800 REEDY FORK NEAR OAK RIDGE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1956 - 2007	
Annual total	9,098.8		7,298.51			
Annual mean	24.9		20.0		23.7	
Highest annual mean					44.8	2003
Lowest annual mean					8.39	2002
Highest daily mean	828	Jul 5	377	Nov 16	1,250	Jul 28, 1984
Lowest daily mean	3.5	May 31	0.67	Sep 29	0.61	Aug 14, 2002
Annual seven-day minimum	4.1	May 25	0.90	Sep 24	0.70	Aug 9, 2002
Maximum peak flow			833	Nov 16	^a 3,950	Oct 10, 1959
Maximum peak stage			9.77	Nov 16	12.41	Sep 22, 1979
Instantaneous low flow			0.45	Sep 29	0.45	Sep 29, 2007
Annual runoff (cfsm)	1.21		0.971		1.15	
Annual runoff (inches)	16.43		13.18		15.66	
10 percent exceeds	33		32		38	
50 percent exceeds	12		11		14	
90 percent exceeds	5.3		1.9		6.6	

^a See Remarks.



02093800 REEDY FORK NEAR OAK RIDGE, NC—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--November 1999 to current year. Records for November 1999 to September 2000 are unpublished and available from the USGS Water Science Center in Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently water 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	0.14	0.00	0.08	1.13	0.09	0.77	0.02	0.00	0.00	0.00	0.00	0.00
2	0.00	0.03	0.00	0.00	0.05	0.57	0.03	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	1.66	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
5	0.33	0.00	0.00	0.57	0.00	0.00	0.00	0.07	0.24	0.78	0.00	0.00
6	0.09	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.02	0.00	0.00	0.00
7	0.42	0.73	0.00	0.45	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
8	0.25	0.39	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.11	0.00
11	0.15	0.41	0.00	0.00	0.00	0.00	1.33	0.00	0.10	---	0.00	0.00
12	0.37	0.19	0.00	0.00	0.00	0.00	0.76	0.09	0.00	0.00	0.00	0.00
13	0.00	0.00	0.02	0.00	1.42	0.00	0.00	0.00	0.35	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.07	0.00	0.63	0.00	0.00	0.00	0.00	1.22
15	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00
16	0.00	2.49	0.00	0.00	0.00	1.78	0.00	0.18	0.11	0.02	0.00	0.00
17	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.12	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.01	0.00	0.00
19	0.01	0.00	0.00	0.19	0.00	0.00	0.01	0.00	0.09	0.01	0.00	0.00
20	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00
21	0.00	1.09	0.00	---	0.02	0.01	0.00	0.00	0.00	0.00	0.35	0.02
22	0.04	0.90	0.65	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
23	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.26	0.00	0.00
25	0.00	0.00	1.08	0.00	0.67	0.00	0.00	0.00	0.02	0.01	0.00	0.00
26	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
27	0.70	0.00	0.00	0.00	0.00	0.01	0.17	0.00	0.03	0.00	0.00	0.00
28	0.12	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.32	0.00	0.00	0.01	0.00	0.00	0.00
30	0.00	0.08	0.00	0.00	---	0.00	0.00	0.00	0.05	0.40	0.39	0.00
31	0.00	---	0.05	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	3.98	6.32	1.92	---	2.33	3.52	---	0.81	3.22	---	1.00	1.24

02093800 REEDY FORK NEAR OAK RIDGE, NC—Continued

