

Water-Data Report 2008

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 National Geodetic Vertical Datum 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 mill upstream. 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. Minimum discharge for period of record and current water year also occurred on August 25, 2008.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.87	6.4	6.2	27	45	8.4	18	14	7.8	5.4	1.8	7.6
2	0.83	5.6	6.3	16	38	8.4	14	12	6.2	4.0	1.2	4.6
3	0.91	5.5	7.3	12	19	8.0	14	11	5.8	3.6	1.2	3.4
4	0.94	5.4	6.3	10	18	12	51	10	5.8	3.5	0.98	2.6
5	0.89	6.1	6.5	9.9	27	49	217	9.4	5.6	3.6	0.90	2.5
6	0.85	5.6	6.5	9.5	20	21	169	9.0	4.8	5.1	0.80	20
7	0.87	5.1	5.9	9.0	16	27	73	8.7	4.4	4.3	0.74	9.2
8	0.87	5.4	6.7	8.4	13	42	47	8.5	3.9	4.1	0.67	4.9
9	0.68	5.6	6.4	8.3	12	26	34	60	3.9	5.0	0.59	3.9
10	0.53	5.6	6.2	8.4	10	19	27	19	3.6	6.4	0.60	4.4
11	0.48	5.5	7.5	9.0	10	16	22	15	3.0	5.3	0.55	5.4
12	0.51	5.8	6.5	8.3	11	14	20	15	22	4.3	0.51	5.9
13	0.63	5.7	6.4	7.7	19	13	17	10	12	3.6	1.3	4.1
14	0.70	5.9	6.8	7.5	18	12	16	9.2	5.9	3.9	1.5	3.2
15	0.69	9.0	8.0	7.3	14	14	15	9.3	5.1	3.0	1.1	2.6
16	0.62	8.2	12	7.4	13	22	14	11	4.3	2.5	1.0	33
17	0.68	6.2	8.1	14	12	13	14	9.2	3.9	2.2	0.78	30
18	0.69	5.8	6.5	16	12	12	13	10	3.4	2.0	0.80	10
19	3.1	6.0	6.1	12	11	13	13	12	2.9	2.0	0.63	6.5
20	1.5	6.2	6.0	9.8	9.9	22	18	8.9	2.7	2.3	0.53	5.1
21	1.2	6.2	6.5	8.6	9.3	15	17	7.7	2.8	1.8	0.57	4.6
22	1.2	7.8	6.4	8.7	9.6	13	16	7.0	3.6	1.5	0.45	4.1
23	1.3	7.7	8.5	8.9	9.3	11	13	6.5	13	1.6	0.46	4.0
24	2.7	6.4	11	8.4	9.1	11	12	6.5	6.3	2.3	0.44	3.5
25	36	6.4	7.9	8.5	9.8	11	11	6.3	4.5	1.5	0.42	3.2
26	140	7.1	9.5	7.9	11	10	12	6.0	3.7	1.3	1.4	27
27	67	7.6	10	7.7	11	9.8	12	6.0	3.3	1.3	87	46
28	24	6.6	9.8	7.5	9.3	9.3	44	8.0	3.0	1.2	39	18
29	13	6.5	25	7.5	8.8	12	35	7.7	2.8	1.2	11	9.6
30	8.0	6.5	48	7.9	---	12	18	6.9	8.7	1.1	16	7.2
31	7.0	---	69	7.2	---	14	---	7.7	---	1.2	34	---
Total	319.24	189.4	349.8	306.3	435.1	499.9	1,016	347.5	168.7	92.1	208.92	296.1
Mean	10.3	6.31	11.3	9.88	15.0	16.1	33.9	11.2	5.62	2.97	6.74	9.87
Max	140	9.0	69	27	45	49	217	60	22	6.4	87	46
Min	0.48	5.1	5.9	7.2	8.8	8.0	11	6.0	2.7	1.1	0.42	2.5
Cfsm	0.50	0.31	0.55	0.48	0.73	0.78	1.64	0.54	0.27	0.14	0.33	0.48
In.	0.58	0.34	0.63	0.55	0.79	0.90	1.83	0.63	0.30	0.17	0.38	0.53

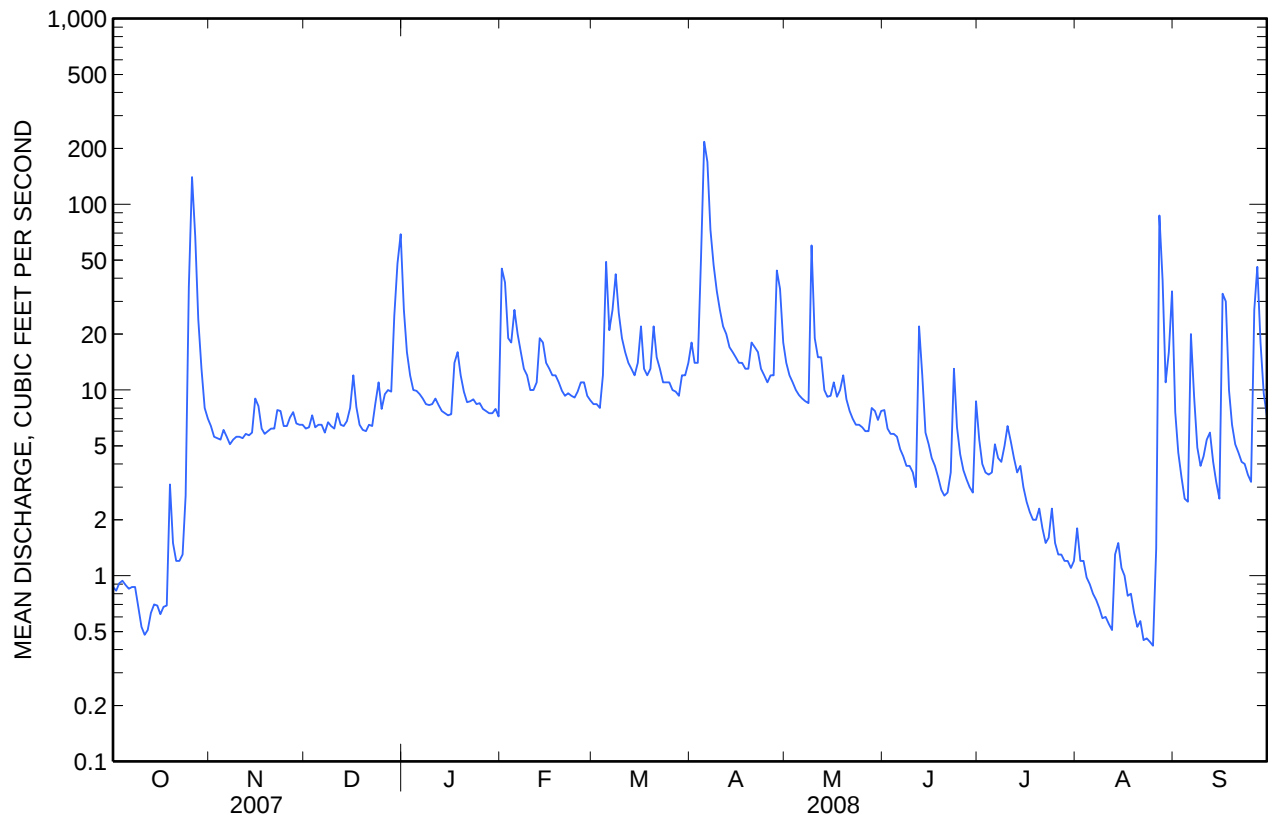
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.7	18.1	23.5	29.2	33.4	36.6	29.5	21.9	18.8	18.8	16.0	19.3
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	2.97	1.58	1.51
(WY)	(1968)	(2002)	(1956)	(1956)	(2002)	(2006)	(2002)	(2002)	(2002)	(2008)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1956 - 2008	
Annual total	5,639.75		4,229.06			
Annual mean	15.5		11.6		23.5	
Highest annual mean					44.8	2003
Lowest annual mean					8.39	2002
Highest daily mean	262	Mar 2	217	Apr 5	1,250	Jul 28, 1984
Lowest daily mean	0.48	Oct 11	0.42	Aug 25	0.42	Aug 25, 2008
Annual seven-day minimum	0.59	Oct 10	0.50	Aug 19	0.50	Aug 19, 2008
Maximum peak flow			358	Apr 5	^a 3,950	Oct 10, 1959
Maximum peak stage			7.97	Apr 5	12.41	Sep 22, 1979
Instantaneous low flow			^a 0.27	Aug 24	^a 0.27	Aug 24, 2008
Annual runoff (cfsm)	0.750		0.561		1.14	
Annual runoff (inches)	10.18		7.64		15.51	
10 percent exceeds	28		21		38	
50 percent exceeds	7.8		7.5		14	
90 percent exceeds	1.4		0.99		6.4	

^aSee 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 2007 TO SEPTEMBER 2008
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	1.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.12	0.00	0.72	0.00	0.00	0.00	0.00	0.00
4	0.07	0.00	0.00	0.00	0.33	1.23	1.28	0.00	0.00	0.03	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.01	0.00	0.34	0.00	0.06
6	0.00	0.01	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.07	0.01	1.26
7	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.01	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.23	0.00	3.30	0.00	0.08	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	1.21	0.00	0.08
10	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.11
11	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.36	0.00	0.15	0.01	0.15
12	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	1.51	0.00	0.00	0.00
13	0.00	0.01	0.01	0.00	0.38	0.00	0.00	0.00	0.00	0.02	0.60	0.00
14	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.06	0.11	0.00	0.00
15	0.00	0.38	0.44	0.00	0.00	0.52	0.00	0.09	0.00	0.00	0.02	0.00
16	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	1.79
17	0.00	0.00	0.00	0.45	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
19	1.05	0.01	0.00	0.00	0.00	0.26	0.21	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.27	0.67	0.15	0.00	0.00	0.00	0.00
21	0.00	0.00	0.17	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.09	0.00
22	0.00	0.13	0.00	0.02	0.04	0.00	0.03	0.00	2.10	0.00	0.00	0.00
23	0.07	0.00	0.47	0.01	0.00	0.00	0.00	0.00	0.09	0.47	0.00	0.00
24	0.77	0.00	0.00	0.00	0.09	0.06	0.00	0.04	0.10	0.60	0.00	0.00
25	2.22	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09
26	2.46	0.08	0.29	0.00	0.24	0.00	0.01	0.00	0.00	0.00	0.82	1.64
27	0.01	0.00	0.00	0.00	0.00	0.00	0.58	0.36	0.00	0.00	3.75	0.09
28	0.00	0.00	0.60	0.00	0.00	0.00	0.63	0.20	0.00	0.00	0.00	0.00
29	0.00	0.00	0.04	0.00	0.00	0.31	0.01	0.00	0.54	0.04	0.00	0.00
30	0.00	0.00	1.22	0.10	---	0.01	0.00	0.00	0.47	0.00	0.03	0.00
31	0.00	---	0.00	0.00	---	0.46	---	5.79	---	0.46	0.00	---
Total	6.65	0.70	3.39	0.95	2.78	4.00	5.38	11.14	4.87	3.61	5.47	5.27

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