

Water-Data Report 2010

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 streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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. Minimum discharge for period of record also occurred on August 25, 2008. Minimum discharge for current water year also occurred October 2, 3.

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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	2.6	227	16	22	26	20	42	16	17	6.3	9.0	6.9
2	2.6	48	30	19	34	21	37	16	14	5.8	7.9	6.6
3	2.9	19	85	17	75	25	33	16	25	5.5	7.5	6.1
4	3.0	13	33	17	e55	23	30	17	15	5.3	6.9	5.5
5	3.5	10	30	16	169	20	28	14	13	5.1	6.7	5.3
6	3.9	8.8	25	16	292	19	27	14	12	4.8	7.1	5.3
7	3.8	8.9	21	16	e90	18	25	13	11	4.8	6.0	5.3
8	3.2	7.8	19	17	e55	18	29	12	10	4.7	5.5	5.5
9	3.1	7.4	190	15	43	18	122	11	11	5.5	5.3	5.8
10	6.6	8.8	67	13	45	20	40	11	11	5.8	8.8	5.1
11	4.6	281	32	14	33	21	33	12	9.8	4.9	25	5.3
12	4.1	597	25	14	30	26	29	12	9.4	5.6	397	5.7
13	5.9	191	49	13	28	107	26	13	26	20	52	5.0
14	4.7	65	46	13	26	48	26	12	25	76	26	4.6
15	6.4	37	29	13	28	31	25	12	28	15	20	4.4
16	5.7	28	22	13	29	26	24	15	24	10	16	4.7
17	4.7	23	19	127	25	23	24	52	17	95	14	4.4
18	4.4	20	19	51	24	22	21	31	12	52	45	4.4
19	4.3	21	26	29	23	20	21	21	11	19	41	4.3
20	4.2	19	25	23	22	19	21	17	10	12	23	3.7
21	4.9	17	23	27	21	19	21	14	9.2	10	15	3.6
22	4.2	16	22	44	26	21	21	15	8.8	8.8	13	3.6
23	4.1	73	20	28	24	19	19	32	8.5	8.2	11	4.2
24	4.8	46	19	25	25	17	20	23	9.3	7.5	10	3.8
25	5.6	28	165	593	25	17	29	22	8.3	6.7	10	3.6
26	4.5	22	208	118	22	18	22	18	7.8	6.3	9.3	5.6
27	6.6	20	57	56	22	18	19	14	7.1	14	8.7	21
28	43	17	36	40	20	61	17	16	6.6	17	8.6	21
29	11	16	28	33	---	493	16	31	6.2	8.8	8.2	16
30	6.5	16	23	36	---	111	16	17	6.3	7.1	7.8	505
31	5.3	---	24	30	---	57	---	16	---	6.9	7.4	---
Total	184.7	1,911.7	1,433	1,508	1,337	1,396	863	555	389.3	464.4	838.7	691.3
Mean	5.96	63.7	46.2	48.6	47.8	45.0	28.8	17.9	13.0	15.0	27.1	23.0
Max	43	597	208	593	292	493	122	52	28	95	397	505
Min	2.6	7.4	16	13	20	17	16	11	6.2	4.7	5.3	3.6
Cfsm	0.29	3.09	2.24	2.36	2.32	2.19	1.40	0.87	0.63	0.73	1.31	1.12
In.	0.33	3.45	2.59	2.72	2.41	2.52	1.56	1.00	0.70	0.84	1.51	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2010, BY WATER YEAR (WY)

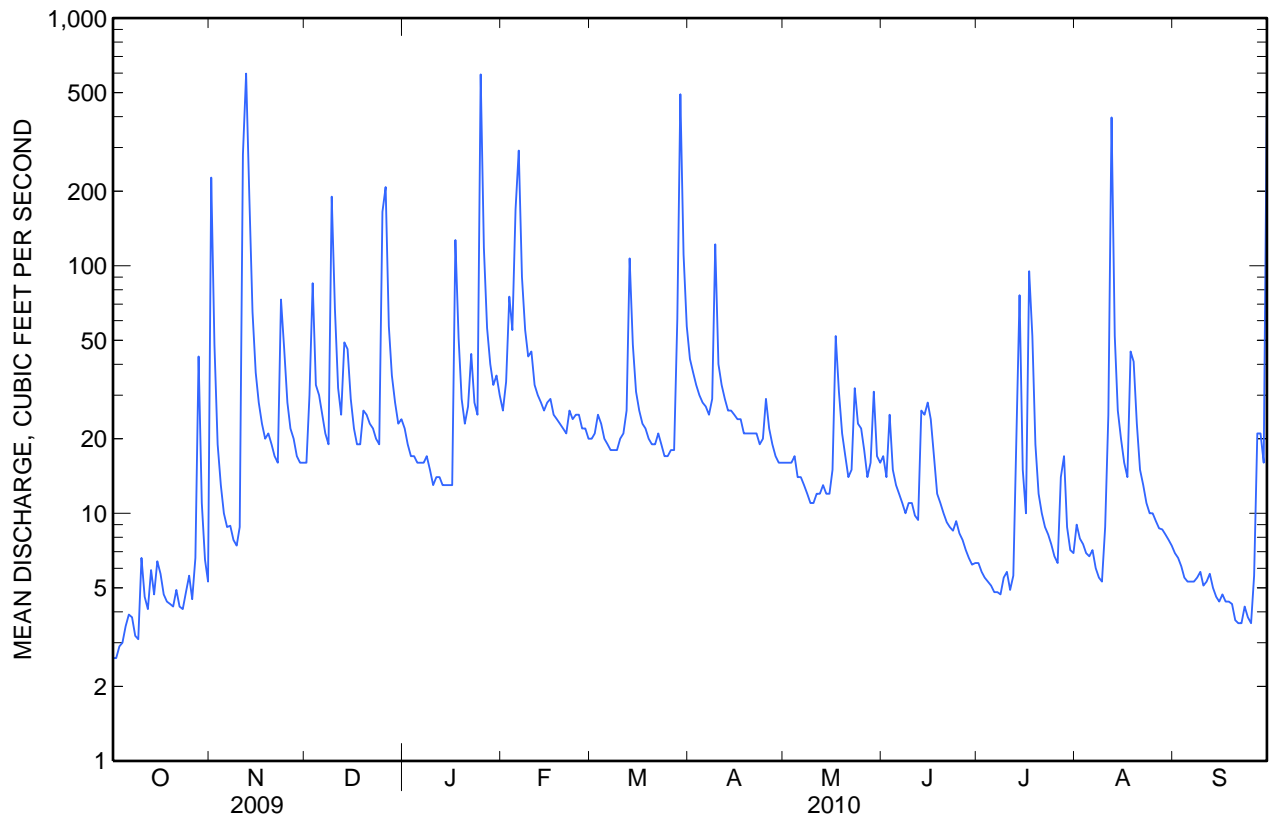
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.3	18.8	23.8	29.3	33.2	36.6	29.3	21.6	18.8	18.5	16.0	19.1
Max	80.2	63.7	48.7	82.0	78.7	102	75.8	58.9	74.4	152	62.0	100
(WY)	(1991)	(2010)	(1963)	(1978)	(1979)	(1975)	(1987)	(1991)	(1982)	(1984)	(1978)	(1996)
Min	5.08	5.87	8.67	8.52	10.2	11.4	8.41	5.13	2.94	2.97	1.58	1.51
(WY)	(2009)	(2002)	(1956)	(1956)	(2009)	(2006)	(2002)	(2002)	(2002)	(2008)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1956 - 2010	
Annual total	7,354.8		11,572.1			
Annual mean	20.2		31.7		23.5	
Highest annual mean					44.8	2003
Lowest annual mean					8.39	2002
Highest daily mean	597	Nov 12	597	Nov 12	1,250	Jul 28, 1984
Lowest daily mean	1.2	Sep 15	2.6	Oct 1	0.42	Aug 25, 2008
Annual seven-day minimum	1.6	Sep 9	3.2	Oct 1	0.50	Aug 19, 2008
Maximum peak flow			1,380	Jan 25	^a 3,950	Oct 10, 1959
Maximum peak stage			10.70	Jan 25	12.41	Sep 22, 1979
Instantaneous low flow			^a 2.4	Oct 1	^a 0.27	Aug 24, 2008
Annual runoff (cfsm)	0.978		1.54		1.14	
Annual runoff (inches)	13.28		20.90		15.48	
10 percent exceeds	35		50		38	
50 percent exceeds	10		17		14	
90 percent exceeds	2.5		4.9		6.3	

^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.

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	1.58	0.00	0.00	---	0.00	0.00	0.00	0.09	0.00	0.10	0.00
2	0.00	0.10	1.02	0.00	---	---	0.00	0.00	0.10	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	---	0.00	0.08	0.01	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
5	0.11	0.00	0.34	0.00	---	0.00	0.00	0.00	0.00	0.00	0.53	0.00
6	0.04	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00
7	0.00	0.00	0.00	0.01	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.46	0.04	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.06
9	0.02	0.00	0.78	0.00	0.17	0.00	0.09	0.00	0.01	0.51	0.00	0.00
10	0.29	0.75	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.39	0.00
11	0.00	2.96	0.00	0.00	0.00	0.45	0.00	0.01	0.00	0.00	5.48	0.10
12	0.25	1.62	0.01	0.00	---	0.48	0.00	0.00	0.00	0.22	0.03	0.01
13	0.00	0.00	0.73	0.00	---	0.56	0.00	0.00	1.51	2.64	0.00	0.00
14	0.15	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.25	0.00	0.00	0.00
15	0.11	0.00	0.00	0.00	0.19	0.00	0.00	0.04	0.01	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.11	1.34	0.00	0.00	0.00
17	0.00	0.00	0.00	1.29	0.00	0.00	0.00	1.55	0.00	1.70	0.25	0.00
18	0.00	0.05	---	0.00	0.00	0.00	0.00	0.04	0.00	0.00	1.18	0.00
19	0.00	0.11	---	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.24	0.00
20	0.00	0.01	0.00	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.57	0.00	0.02	0.05	0.00	0.00	0.00	0.00	0.00
22	0.00	0.09	0.00	0.04	0.21	0.03	0.00	0.04	0.00	0.00	0.00	0.50
23	0.00	1.05	0.00	0.00	0.00	0.01	0.00	0.90	0.00	0.04	0.00	0.01
24	0.28	0.00	0.00	1.46	0.22	0.00	0.11	0.09	0.06	0.00	0.00	0.00
25	0.00	0.00	1.30	1.25	0.01	0.00	0.23	0.02	0.01	0.00	0.02	0.00
26	0.00	0.11	0.01	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.73
27	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	1.09
28	0.13	0.00	0.00	0.00	0.00	2.71	0.00	1.42	0.10	0.00	0.00	0.05
29	0.00	0.00	0.00	---	---	0.37	0.00	0.05	0.00	0.01	0.00	1.14
30	0.00	0.12	0.03	---	---	0.01	0.00	0.00	0.00	0.00	0.00	3.89
31	0.79	---	0.13	---	---	0.00	---	0.18	---	0.17	0.00	---
Total	3.56	8.55	---	---	---	---	1.80	4.69	3.49	5.51	8.24	7.58

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