



Water-Data Report 2010

02094775 RYAN CREEK BELOW U.S. HIGHWAY 220 AT GREENSBORO, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°01'52", long 79°47'46" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank 0.6 mi upstream from South Buffalo Creek, and .2 mi downstream from U.S. Highway 220 in Greensboro.

DRAINAGE AREA.--4.12 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1998 to current year.

REVISED RECORDS.--WDR NC-02-1B: 1999-2001 (annual maximum discharges).

GAGE.--Water-stage recorder. Datum of gage is 725.35 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum for period of record, no flow, occurred several days in August 2002.

02094775 RYAN CREEK BELOW U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

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	0.28	51	2.0	2.5	6.2	1.2	2.0	0.82	2.4	0.57	0.84	0.22
2	0.27	1.6	47	2.4	25	3.7	1.8	0.81	1.6	0.51	0.52	0.18
3	0.31	0.72	14	1.8	37	4.4	1.8	0.82	1.7	0.50	0.46	0.17
4	0.26	0.57	3.2	2.1	9.0	2.0	1.7	0.87	1.0	0.54	0.40	0.14
5	0.38	0.48	9.9	2.1	112	1.5	1.5	0.78	0.95	0.46	8.0	0.10
6	0.40	0.47	3.4	1.8	24	1.3	1.5	0.70	2.4	0.42	2.3	0.10
7	0.40	0.49	2.3	1.6	6.6	1.4	1.3	0.66	2.3	0.66	0.42	0.11
8	0.28	0.60	7.5	1.9	4.2	1.2	6.3	0.55	0.83	0.69	0.30	0.21
9	0.27	0.68	63	1.4	5.1	1.3	5.2	0.45	0.79	0.61	0.28	0.18
10	0.49	12	5.1	1.3	4.7	1.3	1.3	0.48	0.77	0.34	0.22	0.12
11	0.30	154	2.6	1.3	2.2	2.1	1.2	0.73	0.69	0.31	13	0.14
12	2.4	185	2.2	1.2	2.0	6.4	1.1	0.77	1.2	0.47	27	0.15
13	1.3	18	13	1.1	3.6	43	1.1	0.71	12	36	3.1	0.11
14	0.74	4.4	4.6	1.1	2.1	4.0	1.1	0.70	4.6	50	0.50	0.10
15	1.3	2.5	2.8	1.0	4.4	2.1	1.2	2.8	6.3	1.0	0.42	0.09
16	0.59	2.0	2.1	0.94	2.5	1.7	1.2	11	6.7	0.68	0.34	0.09
17	0.35	1.7	2.0	59	1.7	1.6	1.2	51	1.6	6.2	0.30	0.10
18	0.25	1.6	2.3	4.5	1.5	1.7	1.1	19	0.80	2.0	0.33	0.11
19	0.22	2.2	16	2.2	1.4	1.5	1.1	2.4	0.68	0.78	1.7	0.09
20	0.24	1.6	13	1.9	1.3	1.4	1.1	1.4	0.65	3.3	2.5	0.08
21	0.28	1.4	8.9	13	1.3	1.6	5.0	0.81	0.69	1.1	e1.0	0.08
22	0.30	1.5	5.4	12	11	2.0	1.2	0.80	0.54	0.55	e0.50	0.08
23	0.25	49	4.2	2.7	2.4	1.5	0.95	20	1.2	0.56	e0.38	0.09
24	1.5	5.6	3.5	6.7	7.4	1.3	1.2	3.2	0.88	0.66	e0.37	0.08
25	0.60	2.9	89	127	3.1	1.4	7.8	1.7	0.59	0.51	e0.38	0.08
26	0.28	8.3	10	4.3	1.7	2.0	1.3	0.99	0.57	0.45	e0.37	2.2
27	17	8.9	3.6	2.3	1.5	1.6	0.97	0.85	0.59	21	e0.36	8.6
28	26	2.4	2.4	1.9	1.3	20	0.88	7.9	0.66	1.8	e0.35	4.3
29	0.76	2.0	2.0	2.0	---	61	0.82	11	0.63	0.67	e0.35	10
30	0.48	2.1	1.8	4.1	---	4.1	0.81	1.2	0.59	0.45	e0.34	183
31	0.54	---	5.8	3.4	---	2.4	---	12	---	0.54	e0.33	---
Total	59.02	525.71	354.6	272.54	286.2	183.7	56.73	157.90	56.90	134.33	67.66	211.10
Mean	1.90	17.5	11.4	8.79	10.2	5.93	1.89	5.09	1.90	4.33	2.18	7.04
Max	26	185	89	127	112	61	7.8	51	12	50	27	183
Min	0.22	0.47	1.8	0.94	1.3	1.2	0.81	0.45	0.54	0.31	0.22	0.08
Cfsm	0.46	4.25	2.78	2.13	2.48	1.44	0.46	1.24	0.46	1.05	0.53	1.71
In.	0.53	4.75	3.20	2.46	2.58	1.66	0.51	1.43	0.51	1.21	0.61	1.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)

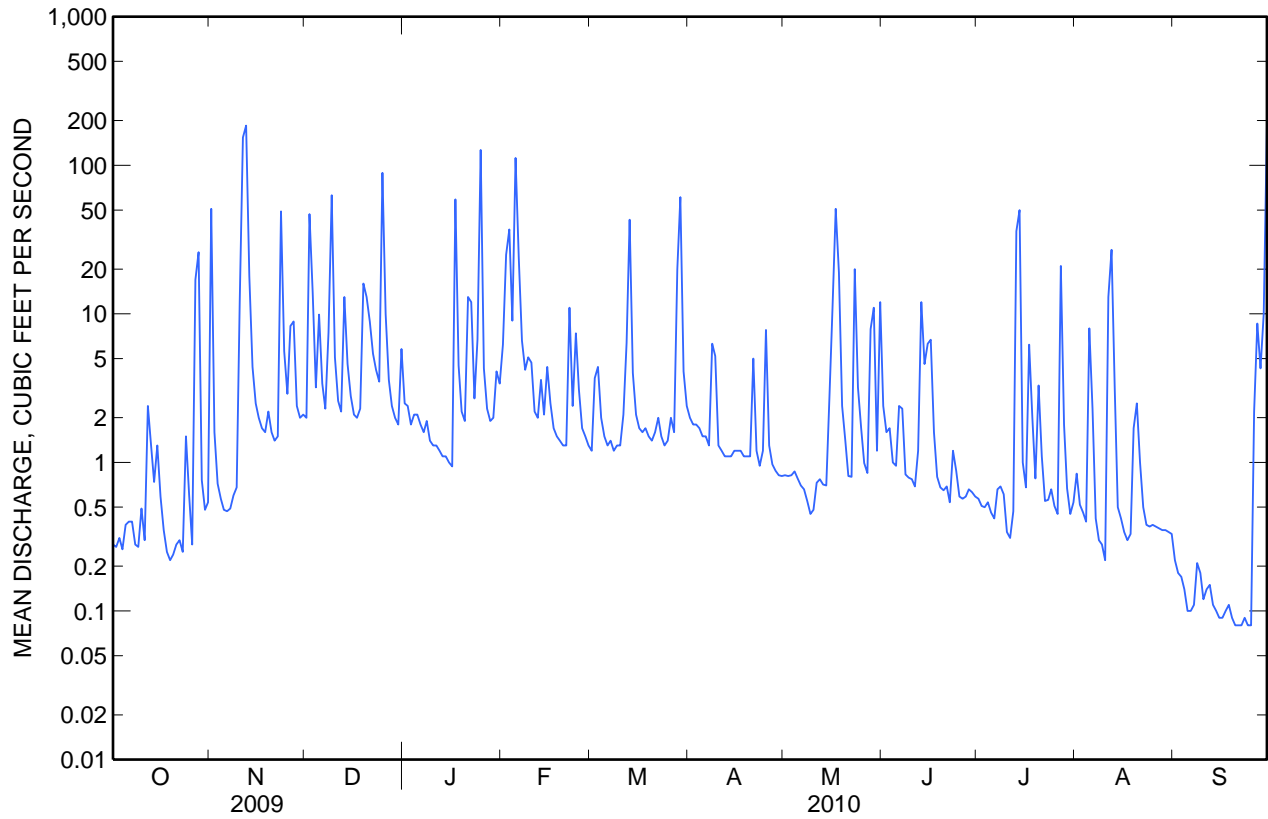
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.54	5.34	5.63	5.70	5.24	6.56	5.54	2.82	5.15	5.28	3.85	8.41
Max	17.9	17.5	13.6	12.9	10.4	17.5	20.4	11.4	17.5	14.1	11.1	29.9
(WY)	(2003)	(2010)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
Min	0.31	0.42	1.35	1.74	2.06	1.34	0.76	0.52	0.14	0.89	0.43	0.27
(WY)	(1999)	(1999)	(2001)	(2008)	(2006)	(2006)	(2002)	(2007)	(2002)	(1999)	(2007)	(2005)

02094775 RYAN CREEK BELOW U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1998 - 2010	
Annual total	2,158.61		2,366.39			
Annual mean	5.91		6.48		5.31	
Highest annual mean					14.0	2003
Lowest annual mean					2.98	2002
Highest daily mean	185	Nov 12	185	Nov 12	393	Sep 15, 2000
Lowest daily mean	0.08	Sep 14	0.08	Sep 20	0.00	Aug 6, 2002
Annual seven-day minimum	0.09	Sep 9	0.08	Sep 19	0.00	Aug 6, 2002
Maximum peak flow			559	Sep 30	1,060	Jul 13, 2003
Maximum peak stage			6.90	Sep 30	12.53	Jul 13, 2003
Instantaneous low flow			Not Determined		^a 0.00	Aug 6, 2002
Annual runoff (cfsm)	1.44		1.57		1.29	
Annual runoff (inches)	19.49		21.37		17.51	
10 percent exceeds	13		12		9.6	
50 percent exceeds	1.5		1.4		1.2	
90 percent exceeds	0.30		0.28		0.26	

^a See Remarks.



02094775 RYAN CREEK BELOW U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--August 1998 to current year.

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	1.12	0.00	0.00	---	0.00	0.00	0.00	0.02	0.00	0.05	0.00
2	0.00	0.01	0.97	0.00	---	---	0.00	0.00	0.22	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	---	0.00	0.02	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	0.07	0.00	0.23	0.00	---	0.00	0.00	0.00	0.00	0.00	0.52	0.00
6	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.23	0.00	0.00	0.00
7	0.00	0.00	0.00	0.02	0.00	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	0.36	0.00	0.00	0.00	0.00	0.06
9	0.02	0.00	0.49	0.00	0.09	0.00	0.00	0.00	0.00	0.03	0.00	0.00
10	0.04	0.68	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	2.52	0.00	0.00	0.00	0.09	0.00	0.03	0.00	0.00	2.04	0.03
12	0.26	2.14	0.00	0.00	---	0.36	0.00	0.00	0.17	0.08	0.03	0.02
13	0.00	0.12	0.32	0.00	---	0.35	0.00	0.02	0.95	2.50	0.00	0.00
14	0.10	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00
15	0.13	0.00	0.00	0.00	0.12	0.00	0.00	0.80	0.15	0.00	0.01	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.15	0.11	0.01	0.00	0.00
17	0.00	0.00	0.00	1.08	0.00	0.00	0.00	1.50	0.00	0.53	0.02	0.00
18	0.00	0.02	---	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.05	0.00
19	0.00	0.02	---	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.24	0.00
20	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.35	0.00	0.00
21	0.00	0.00	0.00	0.39	0.00	0.04	0.29	0.00	0.10	0.00	0.00	0.00
22	0.00	0.16	0.00	0.02	0.31	0.03	0.00	0.04	0.00	0.00	0.00	0.00
23	0.01	0.81	0.00	0.00	0.01	0.02	0.00	0.57	0.05	0.00	0.00	0.00
24	0.09	0.00	0.00	0.47	0.20	0.00	0.15	0.11	0.00	0.00	0.00	0.00
25	0.01	0.01	1.29	1.06	0.00	0.00	0.30	0.00	0.00	0.00	0.01	0.00
26	0.00	0.24	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.53
27	1.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.83
28	0.17	0.00	0.00	0.00	0.00	0.77	0.00	0.81	0.00	0.00	0.00	0.01
29	0.00	0.00	0.00	---	---	0.42	0.00	0.06	0.00	0.00	0.00	0.73
30	0.00	0.05	0.05	---	---	0.00	0.00	0.00	0.00	0.00	0.00	2.74
31	0.02	---	0.12	---	---	0.00	---	0.38	---	0.10	0.00	---
Total	2.02	7.91	---	---	---	---	1.10	4.92	2.18	4.68	2.98	4.95

