

Water-Data Report 2008

02120780 SECOND CREEK NEAR BARBER, NC

Upper Pee Dee Basin
South Yadkin Subbasin

LOCATION.--Lat 35°43'04", long 80°35'45" referenced to North American Datum of 1983, Rowan County, NC, Hydrologic Unit 03040102, on right bank 150 ft upstream from bridge on U.S. Highway 70, 1.3 mi downstream of Withrow Creek, and 2.7 mi east of Barber.

DRAINAGE AREA.--118 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-57, 1961-63. April 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.31 ft above NGVD of 1929. Prior to November 2, 2005, 80 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation caused by industry 0.7 mi upstream. Minimum discharge for period of record and current water year affected by bridge construction. Minimum discharge for current water year also occurred October 2, 3.

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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	1.2	4.1	8.9	56	159	27	64	78	22	10	93	39
2	1.2	3.7	9.2	36	127	26	53	66	20	7.8	16	32
3	1.3	3.8	9.6	28	59	25	51	58	22	7.2	17	28
4	1.4	5.1	8.6	27	44	46	90	54	30	6.7	11	24
5	1.9	6.8	9.5	25	41	270	339	49	20	8.5	8.6	22
6	2.7	4.3	10	24	36	91	292	46	18	32	7.9	21
7	2.9	4.9	9.8	21	33	176	166	43	16	24	6.9	19
8	3.2	5.7	11	21	29	235	114	42	14	15	6.2	17
9	2.7	6.4	11	21	28	110	98	45	13	41	6.0	74
10	2.6	6.5	11	21	26	78	86	38	12	73	6.1	57
11	2.3	6.2	11	26	23	65	76	40	11	42	6.8	84
12	2.4	7.0	12	24	25	59	71	52	16	15	5.7	37
13	3.2	7.3	11	20	37	52	66	36	12	13	8.3	31
14	3.9	7.8	11	20	42	47	61	35	11	12	14	25
15	4.0	9.9	12	19	32	51	57	36	19	9.7	8.8	21
16	3.3	12	24	18	30	92	53	42	12	8.8	8.4	82
17	3.7	7.4	15	35	28	54	52	37	9.7	8.0	7.6	81
18	4.1	8.1	9.9	55	34	49	49	34	9.4	7.3	10	37
19	5.6	6.8	10	37	28	53	49	54	9.3	7.4	7.8	29
20	8.9	7.1	10	33	26	95	54	34	8.9	6.9	6.8	26
21	6.0	7.5	12	26	25	61	49	31	9.2	7.6	6.5	24
22	5.0	8.6	13	28	27	55	47	28	11	6.0	6.8	23
23	5.1	11	15	28	27	49	45	27	57	52	6.0	21
24	7.5	7.8	24	25	25	46	43	26	15	25	4.4	21
25	19	9.1	14	22	25	43	41	26	6.5	9.5	3.9	19
26	69	12	26	22	39	41	40	24	7.4	9.3	16	36
27	17	12	27	22	45	40	63	23	8.6	9.0	1,560	79
28	5.2	9.6	19	21	30	39	330	26	8.1	7.9	865	55
29	3.5	8.9	53	21	28	44	218	41	15	6.7	182	37
30	3.3	9.1	103	21	---	50	103	28	19	9.2	82	32
31	3.8	---	202	19	---	54	---	25	---	24	53	---
Total	206.9	226.5	732.5	822	1,158	2,223	2,920	1,224	462.1	521.5	3,048.5	1,133
Mean	6.67	7.55	23.6	26.5	39.9	71.7	97.3	39.5	15.4	16.8	98.3	37.8
Max	69	12	202	56	159	270	339	78	57	73	1,560	84
Min	1.2	3.7	8.6	18	23	25	40	23	6.5	6.0	3.9	17
Cfsm	0.06	0.06	0.20	0.22	0.34	0.61	0.82	0.33	0.13	0.14	0.83	0.32
In.	0.07	0.07	0.23	0.26	0.37	0.70	0.92	0.39	0.15	0.16	0.96	0.36

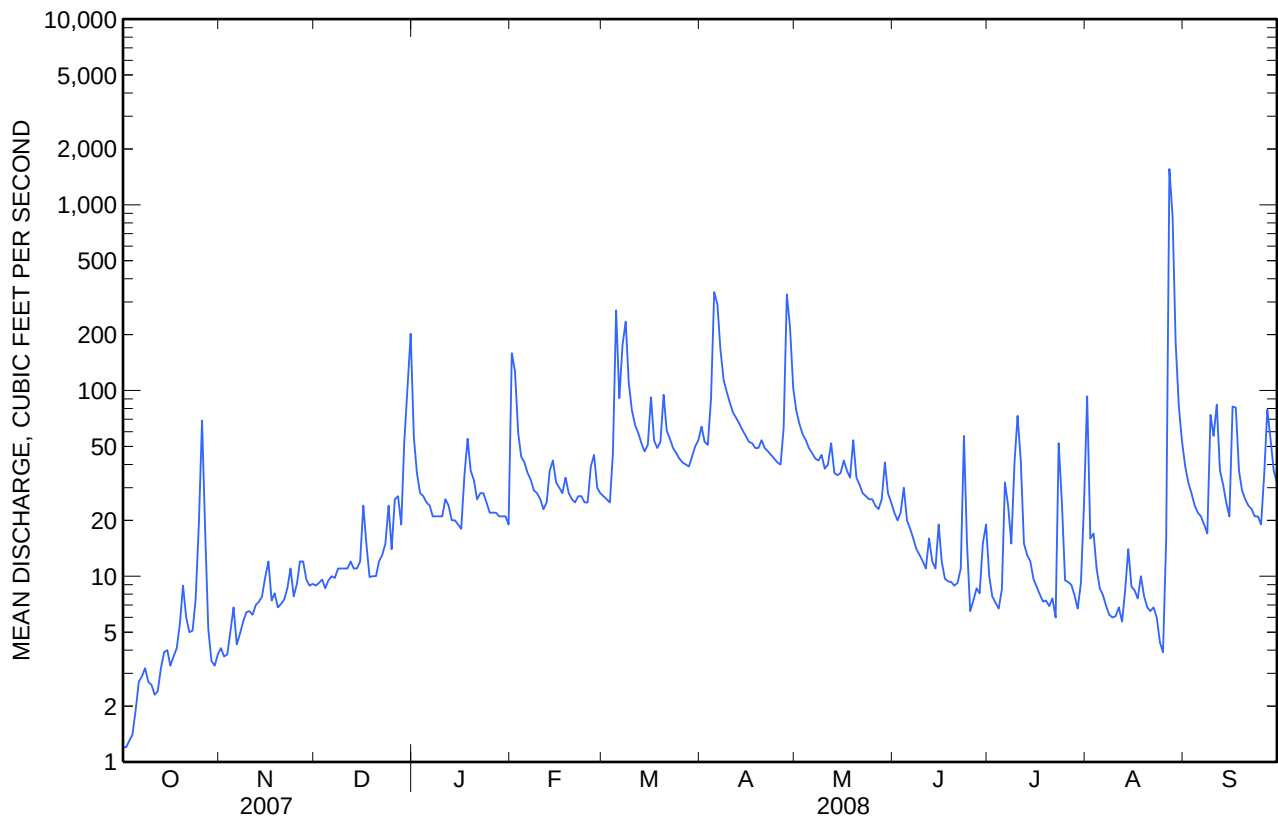
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	75.9	83.0	97.9	131	151	183	146	86.8	84.0	49.7	56.6	60.0
Max	419	262	222	317	301	476	545	340	346	112	304	279
(WY)	(1991)	(1996)	(1984)	(1998)	(1990)	(1993)	(2003)	(2003)	(2003)	(2003)	(1995)	(2004)
Min	6.67	7.55	18.7	26.5	34.3	49.7	27.9	16.1	7.96	7.34	2.00	2.57
(WY)	(2008)	(2008)	(2001)	(2008)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1979 - 2008	
Annual total	22,573.3		14,678.0			
Annual mean	61.8		40.1		99.2	
Highest annual mean					216	2003
Lowest annual mean					21.0	2002
Highest daily mean	2,560	Mar 2	1,560	Aug 27	5,280	Aug 28, 1995
Lowest daily mean	1.0	Sep 30	1.2	Oct 1	1.0	Sep 30, 2007
Annual seven-day minimum	1.2	Sep 27	1.8	Oct 1	1.2	Sep 8, 2002
Maximum peak flow			2,150	Aug 27	8,560	Aug 28, 1995
Maximum peak stage			12.28	Aug 27	17.28	Aug 28, 1995
Instantaneous low flow			^a 1.0	Oct 1	^a 0.88	Sep 29, 2007
Annual runoff (cfs)	0.524		0.340		0.841	
Annual runoff (inches)	7.12		4.63		11.42	
10 percent exceeds	124		70		160	
50 percent exceeds	19		22		60	
90 percent exceeds	2.9		6.0		16	

^aSee Remarks.

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PERIOD OF RECORD.--October 2001 to October 2005, March 2007 to current year.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record may be 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	1.19	0.00	0.06	0.00	0.00	0.00	0.44	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	0.03	0.00	0.54	0.00	1.04	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.06	1.20	0.65	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.77	0.00	0.03
6	0.00	0.00	0.00	0.00	0.03	0.00	0.12	0.00	0.00	0.15	0.00	0.01
7	0.00	0.00	0.00	0.00	0.00	0.82	0.01	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.32	0.00	0.03
9	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.01	0.00	0.02
10	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.11	0.13	2.16
11	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.09
12	0.00	0.01	0.00	0.00	0.16	0.00	0.05	0.00	0.00	0.00	0.00	0.05
13	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.22	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.11	0.00	0.00	0.00
15	0.00	0.44	0.53	0.00	0.00	0.67	0.00	0.03	0.00	0.00	0.00	0.00
16	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	1.44
17	0.00	0.00	0.00	0.57	0.15	0.00	0.00	0.00	0.00	0.00	0.05	0.00
18	0.00	0.00	0.00	0.23	0.01	0.00	0.00	0.29	0.00	0.00	0.00	0.00
19	0.36	0.00	0.01	0.10	0.00	0.55	0.19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.02	0.00	0.00	0.16	0.01	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.20	0.00	0.05	0.00	0.02	0.00	0.00	0.12	0.00	0.00
22	0.00	0.20	0.00	0.06	0.06	0.00	0.00	0.00	0.39	0.21	0.00	0.00
23	0.00	0.00	0.49	0.01	0.00	0.00	0.00	0.00	0.68	1.19	0.00	0.00
24	0.42	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00
25	2.29	0.15	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.20	0.04
26	0.64	0.11	0.61	0.00	0.54	0.00	0.01	0.00	0.05	0.00	1.73	0.98
27	0.01	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	4.68	0.43
28	0.00	0.00	0.67	0.00	0.00	0.00	1.22	0.48	0.10	0.00	0.00	0.01
29	0.00	0.00	0.06	0.01	0.00	0.21	0.00	0.00	0.65	0.00	0.00	0.00
30	0.00	0.00	1.33	0.05	---	0.04	0.00	0.00	0.07	0.04	0.00	0.20
31	0.00	---	0.01	0.00	---	0.35	---	0.00	---	0.42	0.00	---
Total	3.77	0.91	4.03	1.34	2.77	4.08	4.60	1.66	3.09	3.35	7.45	5.49

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