

Water-Data Report 2007

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.

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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	17	30	70	502	78	139	70	60	19	48	6.0	2.9
2	16	29	60	247	98	2,560	68	55	19	19	4.7	3.2
3	16	28	57	134	76	860	63	53	65	19	4.2	2.8
4	15	27	55	107	70	299	62	62	45	17	4.3	2.6
5	15	28	53	109	67	220	58	73	26	15	4.1	2.0
6	15	29	53	127	65	183	57	69	25	13	4.2	1.8
7	16	56	52	140	68	158	57	55	22	13	3.8	1.9
8	21	210	48	838	64	140	57	54	20	12	4.2	2.5
9	23	81	48	318	62	127	58	54	19	15	2.7	2.2
10	18	55	49	193	61	118	57	52	18	37	3.1	2.1
11	16	48	49	147	59	109	68	48	26	22	3.6	1.9
12	19	98	47	124	59	103	284	46	43	16	3.6	2.2
13	17	62	48	111	86	99	113	45	28	13	3.9	2.4
14	16	51	47	102	548	93	87	39	42	13	3.6	4.7
15	17	47	47	96	172	88	704	40	27	12	3.2	11
16	17	637	45	89	125	383	364	35	27	12	3.0	4.5
17	55	233	44	79	107	292	215	34	24	11	2.8	3.3
18	145	122	44	81	96	163	161	32	19	12	2.7	3.0
19	38	92	43	86	80	131	138	32	18	10	3.2	2.9
20	38	74	42	75	79	116	126	31	21	9.1	3.1	2.4
21	31	73	42	78	82	106	111	29	17	9.5	3.2	2.4
22	29	995	60	214	74	101	102	27	15	7.8	6.1	2.5
23	30	391	76	120	67	95	95	27	15	7.2	4.2	2.1
24	27	198	52	103	65	88	91	27	18	7.1	3.8	1.8
25	26	137	302	95	143	81	84	26	78	8.4	3.4	1.4
26	28	112	252	86	170	77	76	25	46	7.6	3.6	1.4
27	33	96	127	83	107	76	90	24	19	6.9	3.9	1.2
28	87	87	99	79	93	74	76	22	22	7.6	3.8	1.3
29	43	77	85	71	---	76	69	21	18	7.3	4.3	1.1
30	34	72	76	71	---	72	65	20	31	7.7	3.6	1.0
31	31	---	73	69	---	70	---	20	---	7.2	5.6	---
Total	949	4,275	2,245	4,774	2,921	7,297	3,726	1,237	832	422.4	119.5	78.5
Mean	30.6	142	72.4	154	104	235	124	39.9	27.7	13.6	3.85	2.62
Max	145	995	302	838	548	2,560	704	73	78	48	6.1	11
Min	15	27	42	69	59	70	57	20	15	6.9	2.7	1.0
Cfsm	0.26	1.21	0.61	1.31	0.88	1.99	1.05	0.34	0.24	0.12	0.03	0.02
In.	0.30	1.35	0.71	1.51	0.92	2.30	1.17	0.39	0.26	0.13	0.04	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2007, BY WATER YEAR (WY)

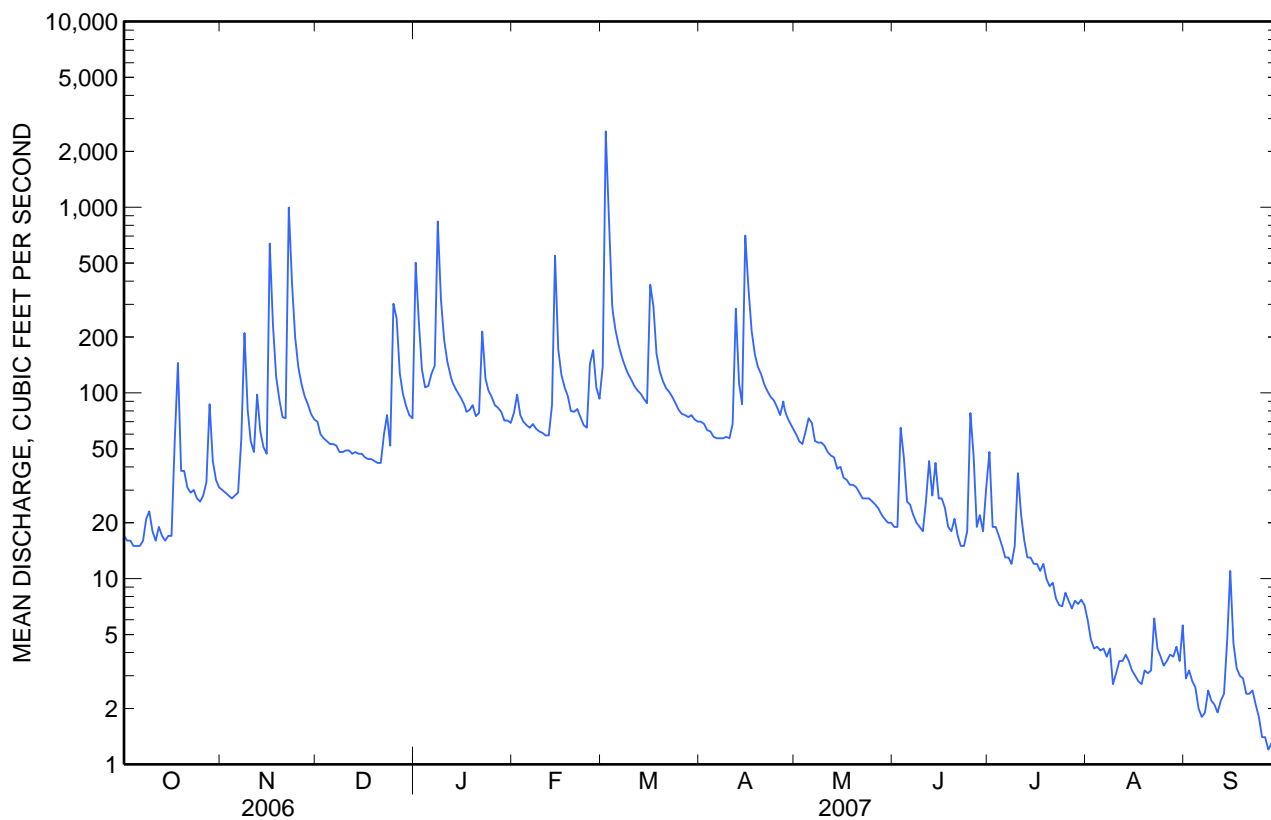
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	78.4	85.7	101	134	155	187	147	88.5	86.4	50.8	55.2	60.7
Max	419	262	222	317	301	476	545	340	346	112	304	279
(WY)	(1991)	(1996)	(1984)	(1998)	(1990)	(1993)	(2003)	(2003)	(2003)	(2003)	(1995)	(2004)
Min	8.37	11.0	18.7	29.6	34.3	49.7	27.9	16.1	7.96	7.34	2.00	2.57
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1979 - 2007	
Annual total	25,016		28,876.4			
Annual mean	68.5		79.1		101	
Highest annual mean					216	2003
Lowest annual mean					21.0	2002
Highest daily mean	995	Nov 22	2,560	Mar 2	5,280	Aug 28, 1995
Lowest daily mean	10	Jul 20	1.0	Sep 30	1.0	Sep 30, 2007
Annual seven-day minimum	14	Jul 14	1.3	Sep 24	1.2	Sep 8, 2002
Maximum peak flow			3,140	Mar 2	8,560	Aug 28, 1995
Maximum peak stage			13.93	Mar 2	17.28	Aug 28, 1995
Instantaneous low flow			^a 0.88	Sep 29	^a 0.88	Sep 29, 2007
Annual runoff (cfsm)	0.581		0.670		0.859	
Annual runoff (inches)	7.89		9.10		11.67	
10 percent exceeds	113		139		162	
50 percent exceeds	52		47		61	
90 percent exceeds	17		3.4		17	

^a See Remarks.



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CLIMATOLOGICAL RECORDS

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

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 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	---	---	---	---	---	---	0.02	0.00	0.00	0.00	0.00	0.00
2	---	---	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
3	---	---	---	---	---	---	0.00	0.03	1.14	0.00	0.00	0.00
4	---	---	---	---	---	---	0.00	0.21	0.00	0.00	0.00	0.00
5	---	---	---	---	---	---	0.00	0.09	0.00	0.00	0.00	0.00
6	---	---	---	---	---	---	0.01	0.00	0.02	0.00	0.00	0.00
7	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
8	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	---	---	---	---	---	---	0.00	0.00	0.00	0.01	0.00	0.00
10	---	---	---	---	---	---	0.00	0.00	0.00	0.41	0.09	0.00
11	---	---	---	---	---	---	1.13	0.00	0.53	0.60	0.00	0.00
12	---	---	---	---	---	---	0.56	0.00	0.01	0.00	0.00	0.00
13	---	---	---	---	---	---	0.00	0.00	0.81	0.00	0.09	0.00
14	---	---	---	---	---	---	1.02	0.00	0.00	0.00	0.00	1.04
15	---	---	---	---	---	0.00	0.70	0.00	0.00	0.00	0.00	0.01
16	---	---	---	---	---	1.50	0.00	0.00	0.00	0.00	0.00	0.00
17	---	---	---	---	---	0.00	0.00	0.00	0.00	0.23	0.00	0.00
18	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	---	---	---	---	---	0.00	0.01	0.00	0.12	0.00	0.00	0.00
20	---	---	---	---	---	0.00	0.00	0.00	0.02	0.00	0.00	0.00
21	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.73	0.00
22	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.03	0.00
23	---	---	---	---	---	0.00	0.00	0.00	0.00	0.04	0.00	0.00
24	---	---	---	---	---	0.00	0.00	0.00	0.89	0.02	0.00	0.00
25	---	---	---	---	---	0.00	0.00	0.00	0.35	0.00	0.00	0.00
26	---	---	---	---	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00
27	---	---	---	---	---	0.00	0.16	0.00	0.00	0.03	0.00	0.00
28	---	---	---	---	---	0.06	0.00	0.00	0.01	0.04	0.00	0.00
29	---	---	---	---	---	0.14	0.00	0.00	0.01	0.00	0.26	0.00
30	---	---	---	---	---	0.00	0.00	0.12	0.76	0.00	0.00	0.00
31	---	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
Total	---	---	---	---	---	---	3.61	0.45	4.69	1.38	1.20	1.05

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