



Water-Data Report 2010

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.

PRECIPITATION: October 2001 to October 2005. March 2007 to current year, station number 354303080354645.

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

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation caused by industry 0.7 mi upstream. Minimum discharge for period of record affected by bridge construction. Minimum discharge for current water year also occurred September 24, 25.

02120780 SECOND CREEK NEAR BARBER, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30	1,190	80	129	120	98	165	81	612	41	36	25
2	29	275	364	115	225	100	145	82	537	38	36	24
3	29	133	677	105	691	111	132	86	758	37	34	23
4	26	99	186	101	437	100	123	90	172	36	32	21
5	30	84	138	97	1,420	94	116	83	135	34	33	21
6	33	73	116	94	3,590	92	110	83	130	32	103	21
7	30	65	104	92	626	90	106	81	194	32	98	21
8	26	61	99	93	282	90	106	80	102	31	39	20
9	26	57	1,060	86	244	89	214	78	92	31	36	21
10	32	62	342	84	251	89	117	79	106	34	34	20
11	30	1,580	170	84	186	91	106	83	107	31	31	19
12	29	1,920	133	84	164	96	102	88	83	35	30	23
13	39	478	146	82	158	542	98	85	81	53	29	20
14	29	245	139	81	147	191	96	84	92	53	27	19
15	41	181	120	80	144	137	94	87	116	36	28	17
16	32	142	108	80	137	116	94	102	112	32	30	16
17	28	130	100	825	125	106	92	895	68	78	28	16
18	25	119	105	282	118	102	89	291	59	119	28	16
19	25	114	163	161	112	97	89	658	56	45	332	16
20	25	103	184	132	107	93	88	226	53	39	225	16
21	24	96	172	131	105	93	90	144	50	39	66	15
22	23	91	138	172	144	118	88	132	47	34	51	16
23	22	163	123	125	134	100	86	118	46	33	39	15
24	39	135	116	187	123	93	85	112	47	31	35	15
25	45	106	1,050	2,820	124	90	104	123	62	31	39	14
26	28	94	1,860	1,050	111	92	90	102	45	45	37	29
27	32	91	353	215	106	87	86	93	42	49	32	87
28	313	84	209	160	102	247	84	110	40	57	31	92
29	81	74	162	136	---	1,950	82	345	38	40	29	38
30	59	78	140	150	---	427	81	126	51	35	27	68
31	53	---	142	127	---	211	---	263	---	32	26	---
Total	1,313	8,123	8,999	8,160	10,233	6,032	3,158	5,090	4,133	1,293	1,681	784
Mean	42.4	271	290	263	365	195	105	164	138	41.7	54.2	26.1
Max	313	1,920	1,860	2,820	3,590	1,950	214	895	758	119	332	92
Min	22	57	80	80	102	87	81	78	38	31	26	14
Cfsm	0.36	2.29	2.46	2.23	3.10	1.65	0.89	1.39	1.17	0.35	0.46	0.22
In.	0.41	2.56	2.84	2.57	3.23	1.90	1.00	1.60	1.30	0.41	0.53	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	73.3	88.3	105	134	155	184	144	88.5	89.8	48.8	55.8	58.2
Max	419	271	290	317	365	476	545	340	346	112	304	279
(WY)	(1991)	(2010)	(2010)	(1998)	(2010)	(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)

02120780 SECOND CREEK NEAR BARBER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1979 - 2010	
Annual total	44,456		58,999			
Annual mean	122		162		101	
Highest annual mean					216	2003
Lowest annual mean					21.0	2002
Highest daily mean	1,920	Nov 12	3,590	Feb 6	5,280	Aug 28, 1995
Lowest daily mean	13	Aug 19	14	Sep 25	1.0	Sep 30, 2007
Annual seven-day minimum	15	Aug 14	15	Sep 19	1.2	Sep 8, 2002
Maximum peak flow			4,620	Feb 6	8,560	Aug 28, 1995
Maximum peak stage			15.51	Feb 6	17.28	Aug 28, 1995
Instantaneous low flow			^a 13	Sep 16	^a 0.88	Sep 29, 2007
Annual runoff (cfsm)	1.03		1.37		0.855	
Annual runoff (inches)	14.01		18.60		11.62	
10 percent exceeds	207		249		162	
50 percent exceeds	59		90		60	
90 percent exceeds	23		27		16	

^a See Remarks.

