



Water-Data Report 2011

02174250 COW CASTLE CREEK NEAR BOWMAN, SC

Edisto-South Carolina Coastal Basin
Four Hole Swamp Subbasin

LOCATION.--Lat 33°22'43", long 80°42'00" referenced to North American Datum of 1927, Orangeburg County, SC, Hydrologic Unit 03050206, at bridge over box culvert on Country road,(unnumbered dirt road) 1.1 mi.upstream from Buck Branch, and 3.2 mi northwest of Bowman.

DRAINAGE AREA.--23.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1971 to September 1981, October 1995 to current year.

GAGE.--Data collection platform. Elevation of gage is 125 ft above NGVD of 1929 (from topographic map). Prior to February 1988, gage at same site at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

02174250 COW CASTLE CREEK NEAR BOWMAN, SC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.0	1.5	1.7	1.6	2.5	9.7	22	3.4	0.79	e0.07	4.3	2.4
2	6.2	1.5	1.6	2.0	7.6	7.9	16	3.1	0.74	e0.51	3.7	1.9
3	5.2	1.5	1.8	1.8	6.9	6.6	12	2.9	1.0	0.51	3.1	1.6
4	4.5	2.0	1.7	1.7	17	6.5	9.8	2.7	1.2	0.32	2.5	1.4
5	4.1	2.8	1.7	1.7	51	6.5	15	2.5	0.79	0.22	3.6	1.4
6	3.7	2.0	1.7	2.8	28	6.7	14	2.8	0.66	8.8	14	1.4
7	3.4	2.0	1.5	2.6	20	6.1	10	3.3	0.53	23	28	1.2
8	3.1	1.7	1.4	2.2	23	5.8	8.6	2.8	1.2	15	12	1.1
9	2.9	1.6	3.2	1.9	17	5.5	7.5	2.3	0.48	7.7	8.0	0.99
10	2.7	1.4	1.8	2.2	15	6.9	6.8	2.0	0.31	5.0	5.3	0.81
11	2.4	1.4	1.7	3.3	14	6.7	6.3	2.2	0.35	3.5	4.1	0.68
12	2.3	1.6	2.3	4.3	12	5.9	5.8	2.0	0.36	2.6	3.9	0.58
13	2.1	1.5	2.1	3.3	11	5.9	5.5	2.2	0.34	2.0	4.2	0.51
14	2.2	1.5	1.8	2.8	10	6.0	5.0	5.6	0.31	1.8	5.2	0.58
15	2.0	1.4	1.7	2.7	9.8	6.1	4.7	3.5	0.45	1.5	4.9	0.48
16	1.9	1.6	1.8	2.5	9.5	6.3	4.6	2.7	0.63	1.1	5.8	0.37
17	1.8	1.9	1.8	2.5	9.0	5.3	4.3	2.9	0.44	0.92	4.1	0.47
18	1.8	1.6	2.6	3.8	9.6	5.3	3.9	2.6	0.50	0.69	3.0	0.75
19	1.7	1.5	2.9	4.1	10	5.9	3.5	2.3	0.82	0.62	2.5	0.72
20	1.8	1.5	2.2	3.5	7.5	5.8	3.0	2.1	0.57	0.52	8.0	0.63
21	1.8	1.4	1.9	3.1	7.3	6.0	2.9	1.9	0.47	0.40	5.6	1.0
22	1.5	1.4	2.0	2.8	7.1	6.0	5.2	1.8	0.36	0.23	4.0	4.0
23	1.5	1.5	1.8	2.6	6.3	5.0	8.1	1.6	0.24	0.18	2.9	5.4
24	1.7	1.4	1.7	2.6	6.0	4.7	4.3	1.3	0.23	0.11	2.5	5.8
25	2.2	1.5	1.6	2.6	6.6	4.6	3.7	1.2	0.20	e0.07	2.3	4.3
26	2.4	1.6	2.5	3.1	6.3	4.9	3.6	0.99	0.18	87	2.1	4.4
27	2.2	1.5	2.7	3.0	6.3	14	4.0	1.0	0.13	59	1.8	28
28	1.9	1.5	2.1	2.7	5.9	21	5.6	2.2	0.42	20	1.5	10
29	1.7	1.4	1.7	2.6	---	19	7.3	1.6	0.19	12	1.3	6.2
30	1.5	1.5	1.6	2.4	---	28	4.3	1.1	0.09	8.7	4.0	4.4
31	1.6	---	1.6	2.4	---	33	---	0.99	---	6.3	3.6	---
Total	83.8	48.2	60.2	83.2	342.2	273.6	217.3	71.58	14.98	270.37	161.8	93.47
Mean	2.70	1.61	1.94	2.68	12.2	8.83	7.24	2.31	0.50	8.72	5.22	3.12
Max	8.0	2.8	3.2	4.3	51	33	22	5.6	1.2	87	28	28
Min	1.5	1.4	1.4	1.6	2.5	4.6	2.9	0.99	0.09	0.07	1.3	0.37
Cfsm	0.12	0.07	0.08	0.11	0.52	0.38	0.31	0.10	0.02	0.37	0.22	0.13
In.	0.13	0.08	0.10	0.13	0.54	0.43	0.35	0.11	0.02	0.43	0.26	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.33	7.41	17.0	28.2	38.6	40.8	22.0	13.4	14.4	14.7	10.1	7.46
Max	25.0	31.3	81.9	114	145	192	113	56.1	114	101	79.0	67.3
(WY)	(1996)	(1996)	(1998)	(1998)	(1973)	(2003)	(2003)	(1998)	(2003)	(2003)	(2003)	(1979)
Min	0.87	1.14	1.94	1.93	2.48	3.95	2.83	1.13	0.29	0.30	1.39	0.41
(WY)	(1979)	(1979)	(2011)	(2002)	(2002)	(2002)	(1981)	(2002)	(2002)	(2002)	(1996)	(2009)

02174250 COW CASTLE CREEK NEAR BOWMAN, SC—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1971 - 2011	
Annual total	5,041.11	1,720.70		
Annual mean	13.8	4.71	18.2	
Highest annual mean			62.2	2003
Lowest annual mean			2.41	2002
Highest daily mean	195	Jan 18	87	Jul 26
Lowest daily mean	0.42	May 28	e0.07	Jul 1 ^a
Annual seven-day minimum	0.68	May 23	0.18	Jun 25
Maximum peak flow			176	Jul 26
Maximum peak stage			4.38	Jul 26
Annual runoff (cfsm)	0.590		0.201	
Annual runoff (inches)	8.01		2.74	
10 percent exceeds	40		9.7	
50 percent exceeds	3.7		2.5	
90 percent exceeds	1.5		0.58	

^e Estimated.^a Also occurred July 25.^b Also occurred July 31 and several days August 2002.