

EDISTO RIVER BASIN

02174250 COW CASTLE CREEK NEAR BOWMAN, SC

LOCATION.--Lat $33^{\circ}22'43''$, long $80^{\circ}42'00''$, Orangeburg County, Hydrologic Unit 03050206, at bridge on county road, 1.1 mi, upstream from Buck Branch, and 3.2 mi northwest of Bowman.

DRAINAGE AREA.--23.4 mi².

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.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	2.3	4.9	4.9	5.5	27	35	5.7	6.4	5.0	47	4.9
2	7.2	2.2	6.2	4.7	5.3	21	35	5.4	14	29	27	4.5
3	6.4	2.3	4.8	4.5	8.7	18	28	4.5	28	17	18	4.3
4	5.7	2.4	4.3	4.5	12	16	23	3.9	33	44	14	3.9
5	5.3	2.6	5.3	4.3	9.3	14	20	4.1	21	20	12	3.7
6	4.4	2.1	5.2	4.6	7.8	13	18	4.8	15	14	11	3.4
7	3.9	1.8	5.0	4.3	7.2	13	17	4.3	12	11	11	3.6
8	3.5	1.8	4.2	4.6	6.9	12	18	4.0	9.4	8.9	9.9	3.4
9	3.3	2.0	4.8	4.9	7.6	12	31	3.7	8.0	9.8	11	3.0
10	3.1	1.7	4.8	4.8	10	11	22	3.7	7.2	9.8	9.9	3.1
11	2.7	1.9	4.4	4.2	8.7	11	18	3.6	7.4	8.9	12	2.8
12	2.7	2.2	4.1	4.1	7.8	10	16	3.5	6.7	7.5	9.9	2.5
13	4.3	2.2	4.9	4.9	7.1	9.5	14	3.1	6.2	8.7	9.0	2.4
14	3.4	2.0	4.5	14	6.9	9.1	13	3.5	6.9	21	8.0	2.5
15	e4.2	1.8	4.3	13	7.2	8.6	12	3.0	5.6	51	7.0	2.4
16	e3.0	1.8	3.8	8.5	7.0	19	10	9.9	5.0	26	6.5	2.2
17	e2.8	1.9	3.6	7.1	6.8	29	10	6.4	4.5	17	7.0	2.0
18	e2.6	2.0	3.6	6.3	6.7	20	9.3	6.4	4.0	13	7.6	1.8
19	e2.5	2.0	3.5	5.9	6.3	17	8.2	4.8	3.7	11	6.9	2.1
20	e2.4	2.1	3.4	5.7	6.1	15	7.6	4.2	3.7	9.1	6.7	1.9
21	e2.3	2.0	3.3	5.6	6.8	14	7.0	4.2	3.9	12	5.9	1.6
22	e2.2	2.1	3.3	5.3	20	16	6.7	3.7	3.6	41	6.8	1.5
23	e2.2	2.4	3.6	5.6	16	36	7.2	3.4	3.2	20	19	1.5
24	e4.5	13	3.5	5.2	15	24	6.3	3.0	3.0	13	10	e1.3
25	e3.3	10	3.6	5.3	16	20	5.7	2.7	3.1	10	10	e1.1
26	e3.2	6.9	6.3	5.2	13	17	5.5	2.7	3.6	8.6	9.1	e1.0
27	e3.1	5.5	11	5.7	14	139	5.4	2.5	3.5	7.9	7.8	0.89
28	3.0	6.2	7.3	4.9	39	181	4.9	2.3	5.3	6.7	6.7	0.96
29	2.8	6.3	6.0	5.0	---	77	4.7	2.3	9.5	6.3	6.3	0.78
30	2.7	5.7	5.5	6.8	---	50	5.1	5.6	6.2	18	5.7	0.97
31	2.5	---	4.9	6.3	---	38	---	7.6	---	45	5.5	---
TOTAL	113.5	101.2	147.9	180.7	290.7	917.2	423.6	132.5	252.6	530.2	344.2	72.00
MEAN	3.66	3.37	4.77	5.83	10.4	29.6	14.1	4.27	8.42	17.1	11.1	2.40
MAX	8.3	13	11	14	39	181	35	9.9	33	51	47	4.9
MIN	2.2	1.7	3.3	4.1	5.3	8.6	4.7	2.3	3.0	5.0	5.5	0.78
CFSM	0.16	0.14	0.20	0.25	0.44	1.26	0.60	0.18	0.36	0.73	0.47	0.10
IN.	0.18	0.16	0.24	0.29	0.46	1.46	0.67	0.21	0.40	0.84	0.55	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)

MEAN	5.84	8.02	17.7	31.1	43.6	47.1	24.5	15.2	17.0	16.8	11.5	8.75
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	2.20	1.93	2.48	3.95	2.83	1.13	0.29	0.30	1.39	0.51
(WY)	1979	1979	1981	2002	2002	2002	1981	2002	2002	2002	1996	1996

02174250 COW CASTLE CREEK NEAR BOWMAN, SC--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1971 - 2005
ANNUAL TOTAL	3663.11	3506.30	
ANNUAL MEAN	10.0	9.61	
HIGHEST ANNUAL MEAN			20.5
LOWEST ANNUAL MEAN			62.2
HIGHEST DAILY MEAN	e 355 Feb 27	181 Mar 28	2.41
LOWEST DAILY MEAN	0.67 Aug 26	0.78 Sep 29	0.00 a Jul 30 2002
ANNUAL SEVEN-DAY MINIMUM	0.84 Aug 22	1.0 Sep 24	0.00 Aug 8 2002
MAXIMUM PEAK FLOW		261 Mar 28	2340 Sep 4 1979
MAXIMUM PEAK STAGE		4.95 Mar 28	7.37 Sep 4 1979
ANNUAL RUNOFF (CFSM)	0.428	0.411	0.876
ANNUAL RUNOFF (INCHES)	5.82	5.57	11.90
10 PERCENT EXCEEDS	19	19	47
50 PERCENT EXCEEDS	3.5	5.7	7.2
90 PERCENT EXCEEDS	1.2	2.3	1.6

a Also occurred July 31 and severally days in August, 2002.

e Estimated

