

## EDISTO RIVER BASIN

02174250 COW CASTLE CREEK NEAR BOWMAN, SC

LOCATION.--Lat 33°22'43'', long 80°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 mi<sup>2</sup>.

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

GAGE.--Data collection platform. Elevation of gage is 125 ft above sea level (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	4.8	6.5	11	57	16	19	4.1	1.6	3.0	7.3	1.8
2	5.7	5.1	6.4	10	46	15	17	3.9	1.5	1.9	9.7	3.9
3	4.6	4.5	7.0	9.9	41	14	16	4.0	1.4	1.5	8.5	7.1
4	4.7	4.1	6.7	10	37	16	14	4.1	1.3	1.2	7.0	4.5
5	5.1	4.1	6.6	12	32	17	13	3.5	1.9	1.1	6.5	5.8
6	4.4	3.9	6.8	10	29	15	12	3.2	1.9	1.3	5.1	8.6
7	3.8	3.9	6.3	11	27	14	11	3.0	1.7	1.0	4.2	6.9
8	3.3	4.4	6.0	11	25	13	10	3.0	1.6	1.0	3.8	5.3
9	3.4	3.9	5.8	11	24	12	10	3.0	1.5	.90	3.5	4.3
10	3.2	3.7	6.0	43	22	12	9.6	2.9	1.4	.74	3.6	3.7
11	4.3	4.2	5.8	46	21	37	8.9	2.6	1.4	.69	3.4	3.3
12	12	5.1	5.9	28	19	53	8.3	2.4	1.3	.71	3.9	3.0
13	15	4.4	5.8	23	18	34	7.8	2.3	1.3	.84	3.5	2.7
14	11	4.3	13	19	30	26	8.7	2.3	1.7	1.4	3.0	2.5
15	8.4	4.5	11	17	34	22	12	2.2	1.7	.94	2.8	2.4
16	8.6	4.5	9.2	17	27	21	11	2.0	1.7	.61	2.7	2.1
17	11	4.3	8.2	15	24	31	9.1	2.0	1.6	.56	2.6	2.0
18	11	4.1	7.6	15	22	24	8.2	2.0	1.4	.54	2.4	3.9
19	8.8	4.7	46	14	21	20	7.6	2.0	1.6	.53	2.1	5.1
20	9.1	5.0	50	21	19	126	7.1	1.8	1.8	.50	1.8	3.6
21	8.5	4.8	32	19	18	154	6.9	1.8	1.9	.50	1.6	3.3
22	7.6	4.8	25	17	17	74	6.0	1.9	1.6	.48	1.5	5.2
23	6.7	4.8	22	28	16	53	5.7	1.8	1.6	1.1	1.3	175
24	5.7	4.7	20	91	15	42	5.7	1.7	1.4	13	1.3	76
25	5.2	4.7	17	219	14	35	5.8	1.6	1.4	8.7	1.6	47
26	4.9	8.2	16	107	14	30	5.4	1.9	2.2	4.4	1.8	73
27	4.7	10	15	67	15	28	5.0	1.8	2.9	2.8	1.8	38
28	4.6	8.8	14	52	22	27	5.3	1.9	8.0	14	1.9	26
29	4.5	7.4	13	46	18	22	4.7	1.8	4.9	21	1.8	20
30	4.1	6.9	12	58	---	21	4.5	1.8	4.0	9.8	1.9	17
31	4.4	---	11	79	---	23	---	1.7	---	7.9	2.0	---
TOTAL	205.6	152.6	423.6	1136.9	724	1047	275.3	76.0	61.2	104.64	105.9	563.0
MEAN	6.63	5.09	13.7	36.7	25.0	33.8	9.18	2.45	2.04	3.38	3.42	18.8
MAX	15	10	50	219	57	154	19	4.1	8.0	21	9.7	175
MIN	3.2	3.7	5.8	9.9	14	12	4.5	1.6	1.3	.48	1.3	1.8
CFSM	.28	.22	.58	1.57	1.07	1.44	.39	.10	.09	.14	.15	.80
IN.	.33	.24	.67	1.81	1.15	1.66	.44	.12	.10	.17	.17	.90

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

	5.51	8.00	20.3	38.2	50.3	43.8	22.8	16.9	13.8	13.2	8.97	9.48
MEAN	5.51	8.00	20.3	38.2	50.3	43.8	22.8	16.9	13.8	13.2	8.97	9.48
MAX	25.0	31.3	81.9	114	145	113	63.6	56.1	67.6	40.3	53.0	67.3
(WY)	1996	1996	1998	1998	1973	1980	1973	1998	1973	1976	1971	1979
MIN	.87	1.14	2.20	3.43	8.49	6.77	2.83	2.36	2.04	.89	1.39	.51
(WY)	1979	1979	1981	1981	1981	1981	1981	1981	2000	1977	1996	1996

02174250 COW CASTLE CREEK NEAR BOWMAN, SC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	3278.47		4875.74		20.8	
ANNUAL MEAN	8.98		13.3		48.0	
HIGHEST ANNUAL MEAN					5.94	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	149	May 1	219	Jan 25	625	Feb 15 1973
LOWEST DAILY MEAN	.31	Aug 13	.48	Jul 22	.21	Sep 24 1996
ANNUAL SEVEN-DAY MINIMUM	.39	Aug 7	.53	Jul 16	.25	Sep 23 1996
INSTANTANEOUS PEAK FLOW			248	Jan 25	2340	Sep 4 1979
INSTANTANEOUS PEAK STAGE			5.39	Jan 25	7.37	Sep 4 1979
ANNUAL RUNOFF (CFSM)	.38		.57		.89	
ANNUAL RUNOFF (INCHES)	5.21		7.75		12.08	
10 PERCENT EXCEEDS	16		29		49	
50 PERCENT EXCEEDS	5.6		5.8		7.8	
90 PERCENT EXCEEDS	1.2		1.6		1.7	

