

EDISTO RIVER BASIN

497

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 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 good except for estimated daily discharges, which are poor.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	10	11	23	11	48	36	24	14	17	43	10
2	4.2	9.2	10	24	10	246	30	20	12	187	37	10
3	4.0	8.7	10	23	9.5	231	26	18	13	415	60	10
4	3.6	8.5	9.7	20	9.8	88	23	17	15	142	252	11
5	3.1	8.2	12	18	9.7	68	21	15	13	73	123	20
6	2.8	12	13	18	9.4	68	21	15	18	51	226	17
7	3.3	10	11	16	18	120	214	35	79	48	510	19
8	14	9.7	11	16	16	127	513	23	258	51	296	101
9	11	8.8	10	15	14	82	386	17	559	34	111	80
10	8.3	8.4	10	14	16	64	508	14	238	28	71	47
11	37	11	13	13	17	53	386	12	86	29	56	34
12	28	50	13	12	15	45	157	9.9	64	24	45	26
13	18	56	30	12	14	53	95	8.9	55	34	38	22
14	26	32	33	12	13	57	67	8.6	45	220	31	18
15	55	24	24	11	12	282	51	9.0	40	498	31	16
16	53	26	20	11	18	e1030	41	9.0	268	378	63	13
17	34	52	18	11	39	655	34	9.5	503	97	81	11
18	24	41	16	11	32	482	29	13	312	73	50	9.9
19	19	30	15	10	25	270	51	154	341	61	75	9.0
20	16	25	20	9.9	22	368	42	87	159	61	48	8.3
21	14	22	19	9.5	21	585	34	48	80	44	35	7.7
22	14	20	17	11	27	367	29	36	53	38	29	7.7
23	12	17	15	12	41	136	23	152	39	63	25	8.6
24	12	16	46	11	27	89	19	97	30	57	20	7.9
25	11	15	71	10	23	67	143	55	24	41	18	7.1
26	11	14	42	10	20	54	198	64	19	90	16	6.7
27	9.9	13	32	9.8	41	45	80	42	16	80	15	6.4
28	9.6	12	27	9.5	51	39	52	31	15	61	13	5.8
29	19	12	24	9.1	---	34	38	24	21	42	11	5.2
30	15	11	22	9.9	---	41	29	19	20	41	10	5.0
31	12	---	20	12	---	44	---	16	---	46	9.7	---
TOTAL	508.6	592.5	644.7	413.7	581.4	5938	3376	1102.9	3409	3124	2448.7	560.3
MEAN	16.4	19.8	20.8	13.3	20.8	192	113	35.6	114	101	79.0	18.7
MAX	55	56	71	24	51	1030	513	154	559	498	510	101
MIN	2.8	8.2	9.7	9.1	9.4	34	19	8.6	12	17	9.7	5.0
CFSM	0.70	0.84	0.89	0.57	0.89	8.19	4.81	1.52	4.86	4.31	3.38	0.80
IN.	0.81	0.94	1.02	0.66	0.92	9.44	5.37	1.75	5.42	4.97	3.89	0.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY)

MEAN	5.96	8.37	18.9	33.6	44.4	49.4	26.1	16.4	18.2	17.5	12.1	9.25
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

EDISTO RIVER BASIN

02174250 COW CASTLE CREEK NEAR BOWMAN, SC--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1971 - 2003	
ANNUAL TOTAL	2304.67	22699.8	21.6	
ANNUAL MEAN	6.31	62.2	62.2	2003
HIGHEST ANNUAL MEAN			2.41	2002
LOWEST ANNUAL MEAN			e 1030	Mar 16 2003
HIGHEST DAILY MEAN	71 Dec 25	e 1030 Mar 16	0.00 a	Jul 30 2002
LOWEST DAILY MEAN	0.00 a Jul 30	2.8 Oct 6	0.00 a	Jul 30 2002
ANNUAL SEVEN-DAY MINIMUM	0.00 Aug 8	3.7 Oct 1	0.00	Aug 8 2002
MAXIMUM PEAK FLOW		Unknown Mar 16	2340	Sep 4 1979
MAXIMUM PEAK STAGE		7.11 Mar 16	7.37	Sep 4 1979
ANNUAL RUNOFF (CFSM)	0.27	2.66	0.92	
ANNUAL RUNOFF (INCHES)	3.66	36.09	12.53	
10 PERCENT EXCEEDS	18	147	49	
50 PERCENT EXCEEDS	2.0	23	7.9	
90 PERCENT EXCEEDS	0.06	9.6	1.6	

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

e Estimated

