

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 fair except for discharges Oct. 1 to Dec. 15 and estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	4.1	4.3	1.3	1.4	1.7	14	1.5	0.35	0.39	e0.00	4.4
2	1.9	4.0	4.3	1.6	1.1	4.7	7.0	1.6	0.25	0.25	e0.02	3.2
3	1.9	4.0	4.6	1.6	1.1	13	5.3	1.2	0.22	0.18	e0.03	2.4
4	1.8	3.5	4.7	1.8	1.5	6.8	4.7	1.4	0.20	0.15	e0.51	1.8
5	1.8	3.6	4.6	2.3	1.1	4.9	4.4	4.1	0.18	0.14	e0.07	1.8
6	2.1	3.7	4.6	2.3	1.4	4.3	4.1	2.4	0.17	0.15	e0.01	1.5
7	2.7	3.8	4.0	2.3	9.5	3.7	4.1	1.5	0.27	3.9	e0.02	1.3
8	2.7	3.9	3.6	1.7	7.1	3.3	3.7	1.4	0.19	1.1	e0.00	1.3
9	2.3	4.5	3.4	1.6	4.6	3.2	3.3	1.4	0.16	0.23	e0.00	1.2
10	2.1	5.2	3.7	2.7	3.5	3.6	3.2	1.3	0.13	0.16	e0.00	0.89
11	2.2	4.7	4.1	1.2	3.1	3.1	3.3	1.3	0.10	0.27	e0.00	0.64
12	2.5	4.8	4.0	2.1	2.6	3.3	3.7	1.2	0.09	0.71	e0.00	0.57
13	2.5	4.8	4.7	4.3	2.3	3.7	4.2	0.93	0.08	0.71	e0.00	0.53
14	2.4	4.9	3.5	4.1	2.2	3.3	3.8	0.97	0.06	0.22	e0.00	0.74
15	2.3	4.8	3.0	2.9	2.4	3.1	5.8	0.85	0.05	0.19	e0.00	1.5
16	2.2	4.5	3.2	2.0	2.1	2.9	3.7	0.76	0.04	0.13	e0.01	2.6
17	2.3	4.5	3.4	2.4	2.0	2.8	3.0	0.77	0.04	0.08	e0.00	1.3
18	2.2	5.3	3.5	2.0	2.2	2.8	3.1	1.2	0.05	0.05	e0.01	0.93
19	2.2	5.2	3.2	1.6	1.8	2.8	2.8	1.4	0.06	0.04	e0.96	1.1
20	2.4	4.8	2.9	1.7	1.9	3.1	2.3	1.2	0.17	0.03	0.38	0.98
21	2.5	5.0	2.4	1.6	1.9	3.2	2.1	0.96	0.13	0.03	0.08	0.79
22	2.5	5.7	2.0	1.4	1.8	3.2	2.0	0.79	0.14	0.03	0.18	0.71
23	2.5	6.7	2.1	1.3	1.7	3.1	1.8	0.73	0.18	0.04	0.06	0.72
24	2.3	6.7	2.4	1.8	1.9	2.8	1.9	0.63	0.19	0.04	0.05	0.69
25	2.5	6.3	1.8	1.4	1.8	3.0	2.0	0.51	0.34	0.10	0.20	0.67
26	2.8	6.0	1.7	1.6	1.8	3.3	1.7	0.52	0.33	0.03	0.15	25
27	2.9	5.7	1.5	1.5	1.7	6.9	1.5	0.53	3.5	e0.03	0.69	18
28	3.3	5.7	1.4	1.6	1.9	4.5	1.5	0.45	0.55	e0.02	20	10
29	3.5	4.8	1.4	1.4	---	3.7	1.3	0.41	0.34	e0.02	12	7.0
30	3.7	4.5	1.4	1.2	---	4.0	1.2	0.54	0.27	e0.00	6.5	5.6
31	4.0	---	1.3	1.5	---	4.8	---	0.48	---	e0.00	5.6	---
TOTAL	76.9	145.7	96.7	59.8	69.4	122.6	106.5	34.93	8.83	9.42	47.53	99.86
MEAN	2.48	4.86	3.12	1.93	2.48	3.95	3.55	1.13	0.29	0.30	1.53	3.33
MAX	4.0	6.7	4.7	4.3	9.5	13	14	4.1	3.5	3.9	20	25
(WY)	1996	1996	1998	1998	1973	1980	1973	1998	1973	1976	1971	1979
MIN	1.8	3.5	1.3	1.2	1.1	1.7	1.2	0.41	0.04	0.00	0.00	0.53
CFSM	0.11	0.21	0.13	0.08	0.11	0.17	0.15	0.05	0.01	0.01	0.07	0.14
IN.	0.12	0.23	0.15	0.10	0.11	0.19	0.17	0.06	0.01	0.01	0.08	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

MEAN	5.38	7.74	18.8	34.7	45.7	41.5	21.3	15.3	12.9	12.9	8.33	8.72
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	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

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1971 - 2002
ANNUAL TOTAL	4202.66	878.17	
ANNUAL MEAN	11.5	2.41	19.3
HIGHEST ANNUAL MEAN			48.0
LOWEST ANNUAL MEAN			2.41
HIGHEST DAILY MEAN	123 Mar 4	25 Sep 26	625 Feb 15 1973
LOWEST DAILY MEAN	0.96 Sep 19	0.00 a Jul 30	0.00 a Jul 30 2002
ANNUAL SEVEN-DAY MINIMUM	1.5 Dec 25	0.00 Aug 8	0.00 Aug 8 2002
MAXIMUM PEAK FLOW		40 Sep 26	2340 Sep 4 1979
MAXIMUM PEAK STAGE		2.30 Sep 26	7.37 Sep 4 1979
ANNUAL RUNOFF (CFSM)	0.49	0.10	0.83
ANNUAL RUNOFF (INCHES)	6.68	1.40	11.22
10 PERCENT EXCEEDS	25	4.8	46
50 PERCENT EXCEEDS	5.9	1.8	7.0
90 PERCENT EXCEEDS	2.2	0.06	1.6

a Also occurred July 31 and several days in August.

e Estimated

