02162093 SMITH BRANCH AT NORTH MAIN STREET AT COLUMBIA, SC

Santee Basin
Lower Broad Subbasin

LOCATION.--Lat 34°01′38″, long 81°02′31″ referenced to North American Datum of 1927, Richland County, SC, Hydrologic Unit 03050106, on left bank, 15 ft upstream from culvert opening at North Main Street in Columbia.

DRAINAGE AREA.--5.67 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Data collection platform. Datum of gage is 199.10 ft above NGVD of 1929.

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

02162093 SMITH BRANCH AT NORTH MAIN STREET AT COLUMBIA, SC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.2	1.9	2.7	11	2.8	5.4	2.7	2.4	3.0	1.7	1.2	3.9
2	2.2	1.9	2.5	31	3.2	5.2	2.6	2.4	24	1.6	1.1	2.5
3	2.2	1.9	2.6	6.0	3.0	4.4	2.8	2.5	18	1.6	1.2	2.1
4	2.3	2.2	5.4	4.3	6.7	4.2	2.6	2.7	2.1	1.4	1.1	108
5	2.6	2.0	62	4.0	2.6	4.0	2.7	3.5	1.9	1.4	36	9.1
6	19	1.9	5.7	3.3	5.3	4.1	2.7	2.9	1.9	3.7	8.2	4.3
7	6.9	2.0	3.1	3.1	12	3.7	2.6	39	1.8	1.5	1.5	3.2
8	e4.7	2.0	6.8	3.1	2.9	3.4	14	4.5	1.8	1.4	17	2.9
9	e4.5	3.9	10	2.9	2.6	3.8	2.7	2.8	1.7	1.4	6.9	2.6
10	e12	1.7	3.1	2.9	2.7	3.8	2.4	2.7	1.7	1.4	1.4	2.6
11	e2.5	2.0	2.8	e3.0	13	3.1	2.5	2.5	1.6	1.3	4.7	2.5
12	e3.2	2.0	2.9	3.3	3.6	3.1	2.4	2.3	56	1.4	27	2.3
13	e2.7	2.0	2.6	9.8	2.9	3.2	2.4	2.3	38	1.4	2.0	111
14	e2.4	2.4	4.1	3.7	2.9	3.0	2.4	6.7	262	1.4	1.4	16
15	e2.2	4.9	32	3.6	2.9	2.8	2.5	2.5	7.7	1.5	1.2	5.2
16	e2.1	2.2	4.3	2.8	2.9	3.0	2.4	2.2	3.9	1.4	17	3.7
17	e2.1	1.9	18	6.0	3.0	2.8	2.5	2.2	2.9	1.4	1.5	3.1
18	e2.2	1.8	11	31	2.9	2.7	2.4	2.3	2.3	1.5	1.2	3.0
19	e2.3	2.0	3.9	4.2	2.9	2.7	7.9	2.2	2.3	1.5	1.2	2.8
20	e2.3	9.1	3.1	3.4	8.5	2.8	2.4	8.2	2.0	1.6	53	2.7
21	2.2	56	2.8	3.1	3.4	23	2.4	8.9	2.3	1.6	26	2.6
22	2.3	6.6	2.7	3.7	41	3.5	12	2.4	1.8	2.0	e2.6	2.6
23	2.3	2.6	2.6	8.4	34	2.9	2.6	2.0	1.7	34	e2.3	2.7
24	2.2	2.2	2.8	6.1	6.1	2.8	2.4	2.1	1.6	31	e23	2.7
25	2.4	2.3	27	4.0	38	2.8	2.3	4.3	13	2.4	e6.2	2.6
26	2.5	2.3	3.5	3.1	23	2.8	7.4	4.0	8.2	1.6	1.7	2.6
27	2.4	2.5	3.0	3.0	7.3	2.7	32	2.2	92	1.4	1.6	2.6
28	2.2	22	48	3.0	6.7	2.8	2.8	1.9	3.7	1.6	1.4	2.5
29	2.1	3.9	7.9	4.8	---	2.9	2.5	1.8	2.4	17	11	2.5
30	2.2	2.7	4.3	3.2	---	2.6	2.4	1.9	1.9	2.5	1.9	2.3
31	1.9	---	3.5	4.1	---	2.7	---	1.9	---	1.4	49	---
Total	107.3	154.8	296.7	188.9	248.8	122.7	136.4	132.2	565.2	128.0	312.5	319.2
Mean	3.46	5.16	9.57	6.09	8.89	3.96	4.55	4.26	18.8	4.13	10.1	10.6
Max	19	56	62	31	41	23	32	39	262	34	53	111
Min	1.9	1.7	2.5	2.8	2.6	2.6	2.3	1.8	1.6	1.3	1.1	2.1
Cfsm	0.61	0.91	1.69	1.07	1.57	0.70	0.80	0.75	3.32	0.73	1.78	1.88
In.	0.70	1.02	1.95	1.24	1.63	0.81	0.89	0.87	3.71	0.84	2.05	2.09

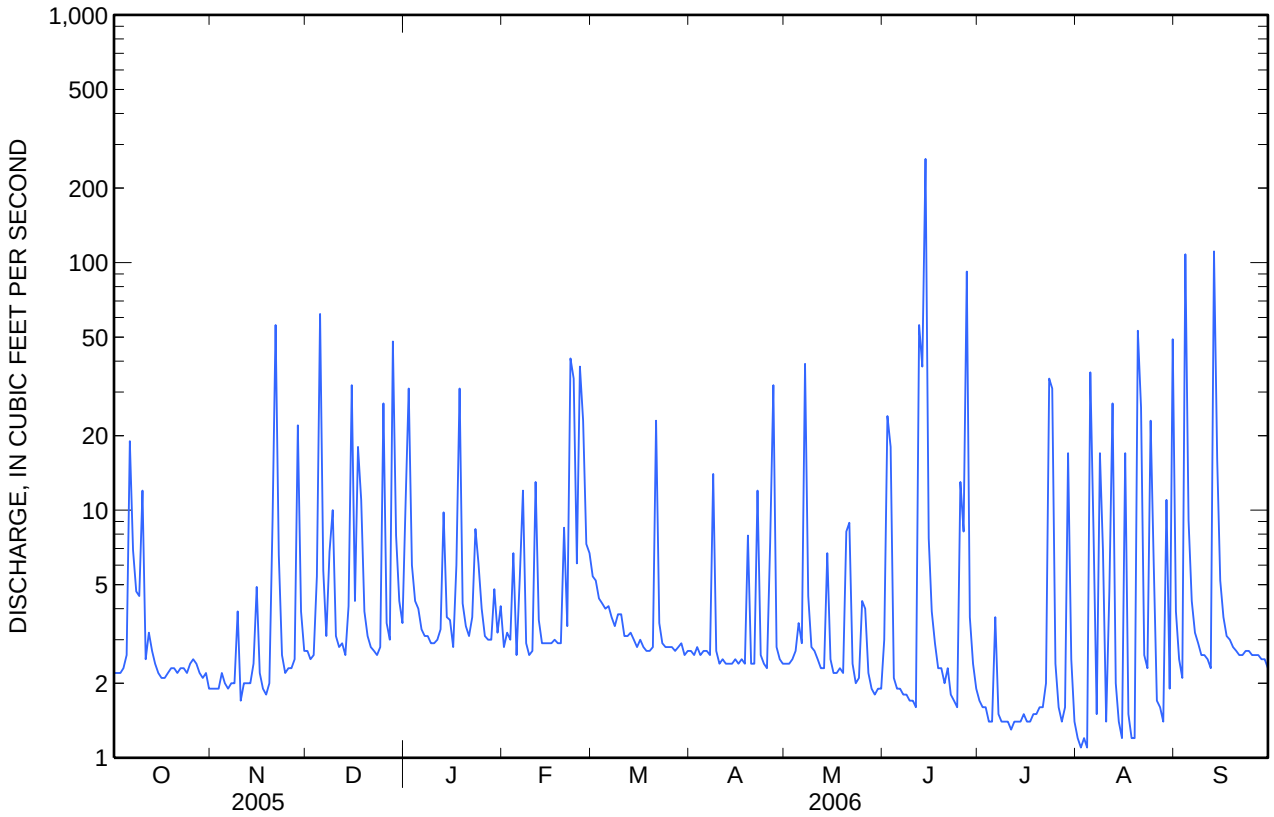
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.68	6.62	8.11	11.5	11.5	13.1	8.96	7.12	10.0	9.82	8.92	8.52
Max	25.7	16.0	25.5	27.6	24.4	29.9	28.0	21.0	34.3	31.3	24.5	19.8
(WY)	(1991)	(1987)	(1977)	(1987)	(1998)	(1980)	(1998)	(1991)	(1995)	(1991)	(1986)	(2004)
Min	1.45	2.09	2.62	2.79	3.64	3.58	1.94	3.26	2.11	3.17	1.46	1.31
(WY)	(2002)	(2002)	(1989)	(1986)	(1986)	(1985)	(1986)	(1977)	(1990)	(1993)	(1983)	(1985)

02162093 SMITH BRANCH AT NORTH MAIN STREET AT COLUMBIA, SC—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1977 - 2006	
Annual total	2,807.2		2,712.7			
Annual mean	7.69		7.43		9.23	
Highest annual mean					14.8	1991
Lowest annual mean					5.42	2002
Highest daily mean	147	Jul 30	262	Jun 14	335	Jun 11, 1995
Lowest daily mean	1.7	Nov 10	1.1	a Aug 2	0.74	Oct 15, 2001
Annual seven-day minimum	1.9	Sep 4	1.4	Jul 8	0.83	Oct 15, 2001
Maximum peak flow			1,350	Sep 4	2,180	Jun 27, 2004
Maximum peak stage			8.39	Sep 4	11.91	Jun 27, 2004
Annual runoff (cfsm)	1.36		1.31		1.63	
Annual runoff (inches)	18.42		17.80		22.12	
10 percent exceeds	19		16		19	
50 percent exceeds	3.1		2.7		3.5	
90 percent exceeds	2.1		1.6		1.7	

e Estimated

a Also occurred Aug. 4.