Water-Data Report 2013

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.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 02162093, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02162093.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.6	2.8	3.2	3.2	2.5	5.0	38	e3.4	2.0	12	4.7	4.7
2	3.9	2.9	3.1	8.0	2.3	4.4	5.1	e2.8	3.9	26	4.3	3.8
3	1.8	2.8	3.1	3.6	2.3	4.0	4.2	e2.4	4.0	12	3.8	3.4
4	8.6	3.1	3.5	2.8	2.2	3.6	27	e2.0	1.9	16	3.5	3.0
5	1.8	1.9	3.5	2.6	2.2	3.6	7.1	e19	9.9	98	3.3	2.9
6	1.7	1.8	3.3	2.6	2.3	3.3	4.8	e5.8	25	e30	96	2.7
7	1.7	1.9	e2.8	2.5	44	3.2	4.1	11	42	e9.0	11	2.6
8	14	1.9	e2.5	2.4	15	3.1	4.0	4.2	4.1	e42	6.0	2.7
9	2.0	1.9	e2.2	2.4	3.5	2.9	3.9	3.3	15	17	4.7	2.6
10	1.8	1.8	e1.9	2.4	3.5	2.8	3.7	3.0	50	21	4.0	2.7
11	1.9	1.8	1.9	2.4	26	2.9	9.4	2.8	8.3	127	3.6	2.3
12	1.9	2.0	13	2.3	11	9.8	17	2.6	4.0	34	3.5	2.5
13	2.2	2.3	35	2.3	12	2.9	3.7	2.4	3.5	12	3.2	2.4
14	1.7	2.5	2.5	2.4	4.0	2.6	3.4	2.4	3.3	12	2.9	2.2
15	1.7	46	2.0	2.4	3.4	2.6	3.4	2.4	2.5	8.5	4.1	2.3
16	1.7	2.3	2.0	2.3	8.8	2.6	3.3	2.3	2.5	6.3	216	14
17	1.7	1.9	22	32	3.6	2.6	3.2	2.2	20	47	48	2.3
18	1.8	1.9	3.4	5.1	2.9	26	3.3	7.0	4.0	9.5	19	2.2
19	11	2.2	2.3	2.9	7.8	7.2	8.9	24	3.3	5.8	128	2.1
20	1.8	2.0	4.5	2.7	3.3	3.4	5.0	3.4	2.3	5.0	18	2.5
21	1.7	2.0	2.4	2.5	2.9	2.9	3.4	45	2.2	450	14	2.2
22	1.7	2.0	2.1	2.6	7.9	2.7	2.9	6.7	2.2	48	8.7	3.0
23	1.8	2.1	2.1	2.3	66	27	2.9	3.5	e7.0	14	7.2	2.0
24	1.7	2.3	17	2.3	7.6	102	2.8	2.8	41	9.2	9.2	2.1
25	1.7	2.4	6.0	2.1	5.0	9.1	2.8	2.5	18	7.3	5.3	39
26	1.7	2.5	38	2.1	67	5.8	2.8	2.5	e4.5	6.1	4.9	12
27	1.8	3.2	4.0	2.1	8.6	4.9	2.6	2.4	2.9	8.4	4.6	2.7
28	2.1	2.8	2.8	2.1	5.9	4.3	63	2.2	2.6	5.3	4.1	2.2
29	2.0	2.9	30	2.2	---	3.9	e29	2.2	2.4	24	21	2.2
30	2.5	3.0	3.6	13	---	3.8	e4.8	2.2	3.6	6.2	7.3	2.2
31	2.6	---	3.0	7.4	---	6.1	---	2.0	---	5.1	4.2	---
Total	95.6	112.9	228.7	130.0	333.5	271.0	279.5	182.4	297.9	1,133.7	678.1	135.5
Mean	3.08	3.76	7.38	4.19	11.9	8.74	9.32	5.88	9.93	36.6	21.9	4.52
Max	14	46	38	32	67	102	63	45	50	450	216	39
Min	1.7	1.8	1.9	2.1	2.2	2.6	2.6	2.0	1.9	5.0	2.9	2.0
Cfsm	0.54	0.66	1.30	0.74	2.10	1.54	1.64	1.04	1.75	6.45	3.86	0.80
In.	0.63	0.74	1.50	0.85	2.19	1.78	1.83	1.20	1.95	7.44	4.45	0.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.65	6.62	8.45	9.95	11.2	11.8	7.46	6.85	8.56	9.33	9.33	7.55
Max	13.0	15.6	29.1	27.5	24.4	29.9	21.3	21.0	27.2	36.6	24.2	19.8
(WY)	(1977)	(1987)	(2010)	(1998)	(1998)	(1980)	(1983)	(1991)	(2004)	(2013)	(1986)	(2004)
Min	1.44	1.68	2.62	2.52	3.40	3.58	1.71	2.25	2.11	2.84	1.46	1.31
(WY)	(2002)	(2008)	(1989)	(1986)	(1986)	(1985)	(1986)	(2007)	(1990)	(2007)	(1983)	(1985)

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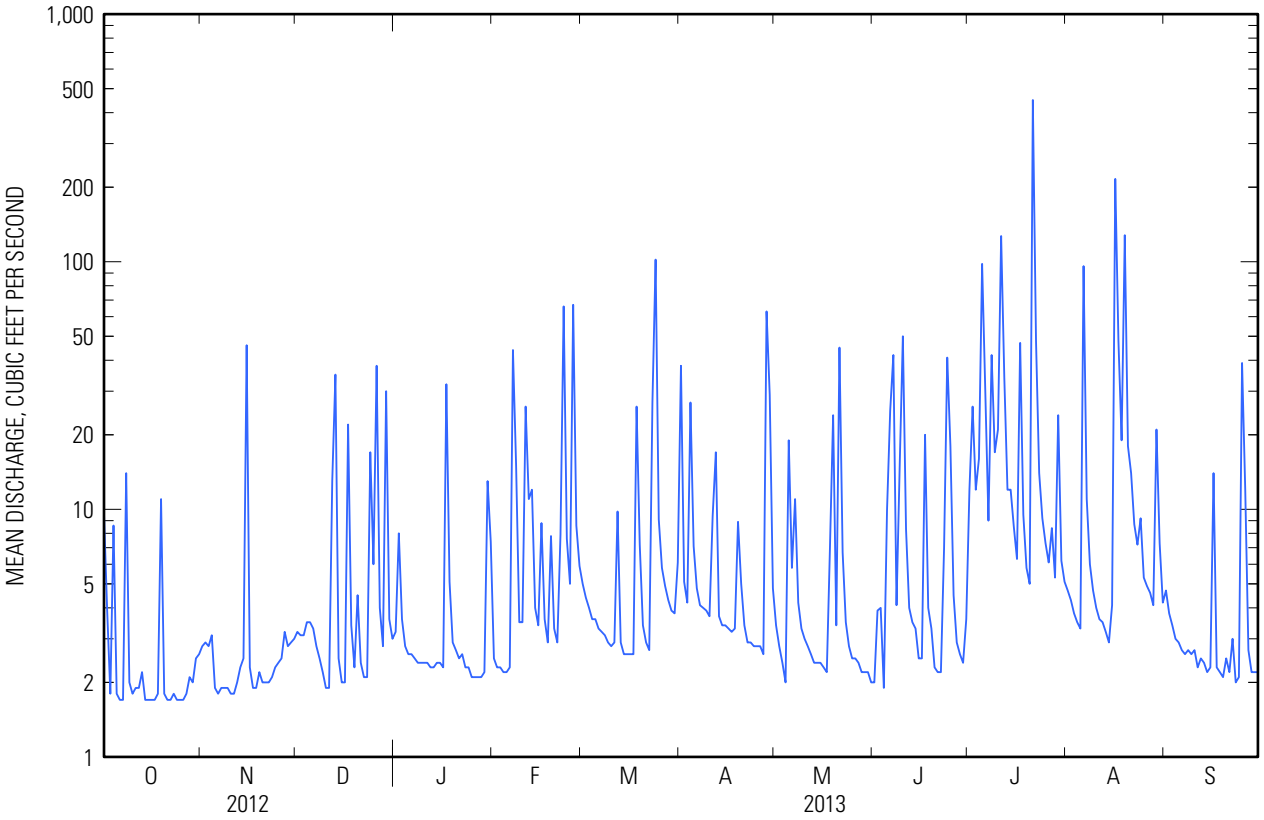
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1977 - 2013	
Annual total	2,666.6		3,878.8			
Annual mean	7.29		10.6		8.18	
Highest annual mean					11.5	2003
Lowest annual mean					5.42	2002
Highest daily mean	174	Feb 24	450	Jul 21	450	Jul 21, 2013
Lowest daily mean	1.4	Aug 4[a]	1.7	Oct 6[b]	0.67	Oct 29, 1985
Annual seven-day minimum	1.7	Jul 22	1.7	Oct 20	0.77	Jun 17, 1986
Maximum peak flow			3,820	Jul 21	3,820	Jul 21, 2013
Maximum peak stage			15.12	Jul 21	15.12	Jul 21, 2013
Annual runoff (cfsm)	1.28		1.87		1.44	
Annual runoff (inches)	17.50		25.45		19.59	
10 percent exceeds	14		24		16	
50 percent exceeds	2.4		3.3		3.0	
90 percent exceeds	1.8		2.0		1.5	

[a] Also occurred Aug. 5.
[b] Also occurred several days in October.