

SANTÉE RIVER BASIN

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'11", long 80°44'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank upstream side culvert on Secondary Road 3150, 2.3 mi upstream from mouth, and 6.0 mi east of Charlotte.

DRAINAGE AREA.--5.6 mi².

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 663.92 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period July 1999 to Sept. 1999 also occurred on Sept. 4.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JULY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.74	3.2	.22
2	---	---	---	---	---	---	---	---	---	.54	1.2	.24
3	---	---	---	---	---	---	---	---	---	.46	.61	.22
4	---	---	---	---	---	---	---	---	---	.42	.56	.29
5	---	---	---	---	---	---	---	---	---	.37	.69	16
6	---	---	---	---	---	---	---	---	---	50	.54	2.4
7	---	---	---	---	---	---	---	---	---	19	.50	.72
8	---	---	---	---	---	---	---	---	---	3.0	.57	.46
9	---	---	---	---	---	---	---	---	---	1.2	1.7	.50
10	---	---	---	---	---	---	---	---	---	.77	.52	.57
11	---	---	---	---	---	---	---	---	---	2.3	.50	.28
12	---	---	---	---	---	---	---	---	---	10	.42	.25
13	---	---	---	---	---	---	---	---	---	9.7	.33	.26
14	---	---	---	---	---	---	---	---	---	2.1	.38	.29
15	---	---	---	---	---	---	---	---	---	1.3	.32	12
16	---	---	---	---	---	---	---	---	---	1.1	.36	7.1
17	---	---	---	---	---	---	---	---	---	3.5	.34	.64
18	---	---	---	---	---	---	---	---	---	.97	.31	.35
19	---	---	---	---	---	---	---	---	---	.89	.31	.29
20	---	---	---	---	---	---	---	---	---	.82	4.2	.44
21	---	---	---	---	---	---	---	---	---	.84	1.4	3.0
22	---	---	---	---	---	---	---	---	---	.77	.36	3.0
23	---	---	---	---	---	---	---	---	---	.77	.29	.39
24	---	---	---	---	---	---	---	---	---	6.1	1.4	.28
25	---	---	---	---	---	---	---	---	---	2.2	5.4	.24
26	---	---	---	---	---	---	---	---	---	.92	13	.22
27	---	---	---	---	---	---	---	---	---	.69	.74	6.2
28	---	---	---	---	---	---	---	---	---	.67	.43	16
29	---	---	---	---	---	---	---	---	---	5.8	.33	78
30	---	---	---	---	---	---	---	---	---	1.5	.27	6.2
31	---	---	---	---	---	---	---	---	---	5.5	.24	---
TOTAL	---	---	---	---	---	---	---	---	---	134.94	41.42	157.05
MEAN	---	---	---	---	---	---	---	---	---	4.35	1.34	5.24
MAX	---	---	---	---	---	---	---	---	---	50	13	78
MIN	---	---	---	---	---	---	---	---	---	.37	.24	.22
CFSM	---	---	---	---	---	---	---	---	---	.78	.24	.93
IN.	---	---	---	---	---	---	---	---	---	.90	.28	1.04

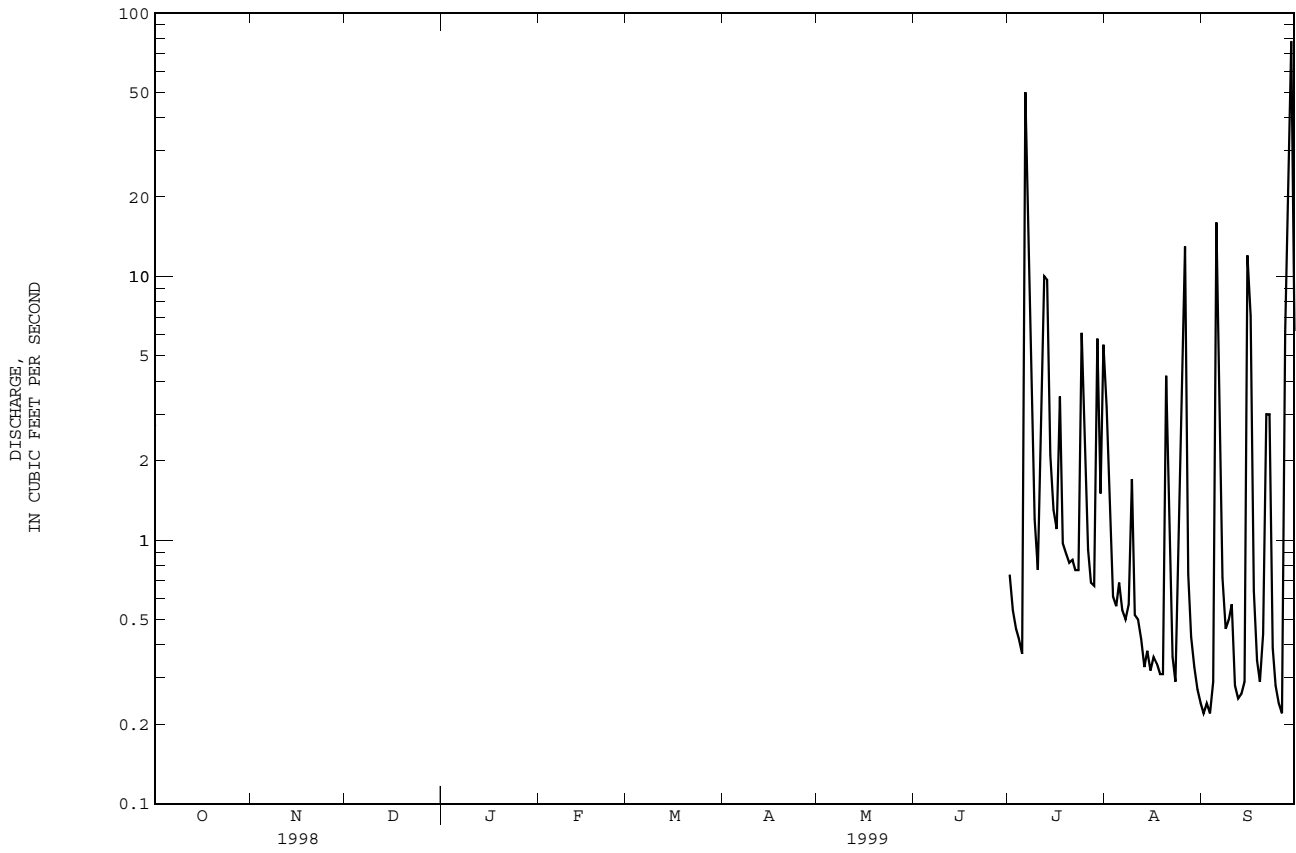
SUMMARY STATISTICS

FOR PERIOD JULY TO SEPTEMBER 1999

MAXIMUM PEAK FLOW	404	Sep 29
MAXIMUM PEAK STAGE	3.99	Sep 29
INSTANTANEOUS LOW FLOW	.17*	Sep 2

* See REMARKS.

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued



SANTEE RIVER BASIN

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued

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	1.5	1.1	1.1	1.1	8.3	2.6	1.8	1.6	.78	.64	42	1.2
2	1.3	18	1.1	1.1	6.1	2.4	4.1	37	.72	.50	12	54
3	.76	1.8	1.2	1.2	5.0	2.2	5.0	25	.67	.44	31	7.4
4	2.2	1.2	1.2	4.5	4.4	6.9	2.3	3.0	5.1	.35	33	4.1
5	.94	1.1	1.2	1.8	3.2	3.1	1.9	1.8	11	.35	3.1	2.4
6	.63	1.1	1.7	1.8	2.5	2.5	1.7	1.5	1.4	.44	1.4	1.0
7	.55	1.1	1.3	1.4	2.2	2.2	1.7	1.3	.93	3.3	1.2	.80
8	.51	1.2	1.1	1.1	2.0	2.2	37	1.3	.78	.58	.95	.69
9	.48	1.2	1.1	5.5	2.0	2.1	5.2	1.2	.74	1.5	.91	.66
10	100	1.3	5.2	46	1.8	2.0	2.3	2.7	.81	.39	29	.62
11	146	6.9	1.4	4.4	2.1	4.2	1.8	1.4	.62	9.5	2.2	.58
12	4.7	2.0	1.0	2.1	53	3.1	1.6	1.1	.57	81	1.2	e.61
13	17	1.1	3.0	1.7	7.2	2.0	45	1.9	.57	5.9	.94	e.60
14	3.4	1.1	20	1.3	87	1.9	12	1.9	1.4	25	.86	.59
15	1.7	1.2	2.4	1.2	7.2	1.9	45	1.0	1.2	19	.76	.55
16	1.2	1.2	1.6	1.2	4.4	12	9.3	.96	.70	2.9	.76	.45
17	1.2	1.2	1.3	1.2	3.6	3.7	4.2	.94	.55	1.6	.67	.44
18	1.1	1.2	1.2	2.4	12	2.2	3.3	1.0	.55	1.0	3.0	19
19	2.8	1.1	1.8	1.5	4.4	2.1	2.3	.86	.67	10	1.4	8.8
20	20	1.1	3.0	6.4	3.3	66	2.0	.96	.50	4.1	.92	1.2
21	5.3	1.5	8.5	1.6	2.8	7.9	1.9	3.4	.50	1.2	1.0	.89
22	1.8	1.3	3.1	1.4	2.6	3.6	1.7	2.5	.59	1.0	.82	60
23	1.2	1.2	1.9	20	2.5	2.8	1.7	.92	.63	3.4	.64	195
24	1.1	1.2	1.5	7.6	2.4	2.5	7.4	1.6	.46	8.9	2.9	11
25	1.1	1.2	1.3	22	2.4	2.2	23	1.3	.42	2.2	1.8	41
26	1.1	31	1.3	6.5	2.3	2.0	4.1	1.1	.40	1.3	.70	e5.0
27	1.1	3.4	1.3	3.2	10	7.4	2.2	.84	2.1	.93	.59	e3.0
28	1.0	1.7	1.2	2.3	4.8	3.7	12	.89	8.7	.81	.59	e1.1
29	1.0	1.3	1.2	3.5	2.8	2.3	3.8	.96	10	.74	.53	.91
30	.97	1.2	1.1	86	---	2.1	2.0	.72	1.1	.67	1.3	.83
31	1.0	---	1.1	15	---	2.1	---	.80	---	.61	1.8	---
TOTAL	324.64	92.2	76.4	258.0	254.3	165.9	249.3	103.45	55.16	190.25	179.94	424.42
MEAN	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	6.14	5.80	14.1
MAX	146	31	20	86	87	66	45	37	11	81	42	195
MIN	.48	1.1	1.0	1.1	1.8	1.9	1.6	.72	.40	.35	.53	.44
CFSM	1.87	.55	.44	1.49	1.57	.96	1.48	.60	.33	1.10	1.04	2.53
IN.	2.16	.61	.51	1.71	1.69	1.10	1.66	.69	.37	1.26	1.20	2.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

	1999	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MEAN	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	5.24	3.57	9.69
MAX	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	6.14	5.80	14.1
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	10.5	3.07	2.46	8.32	8.77	5.35	8.31	3.34	1.84	4.35	1.34	5.24
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999

SUMMARY STATISTICS

FOR 2000 WATER YEAR

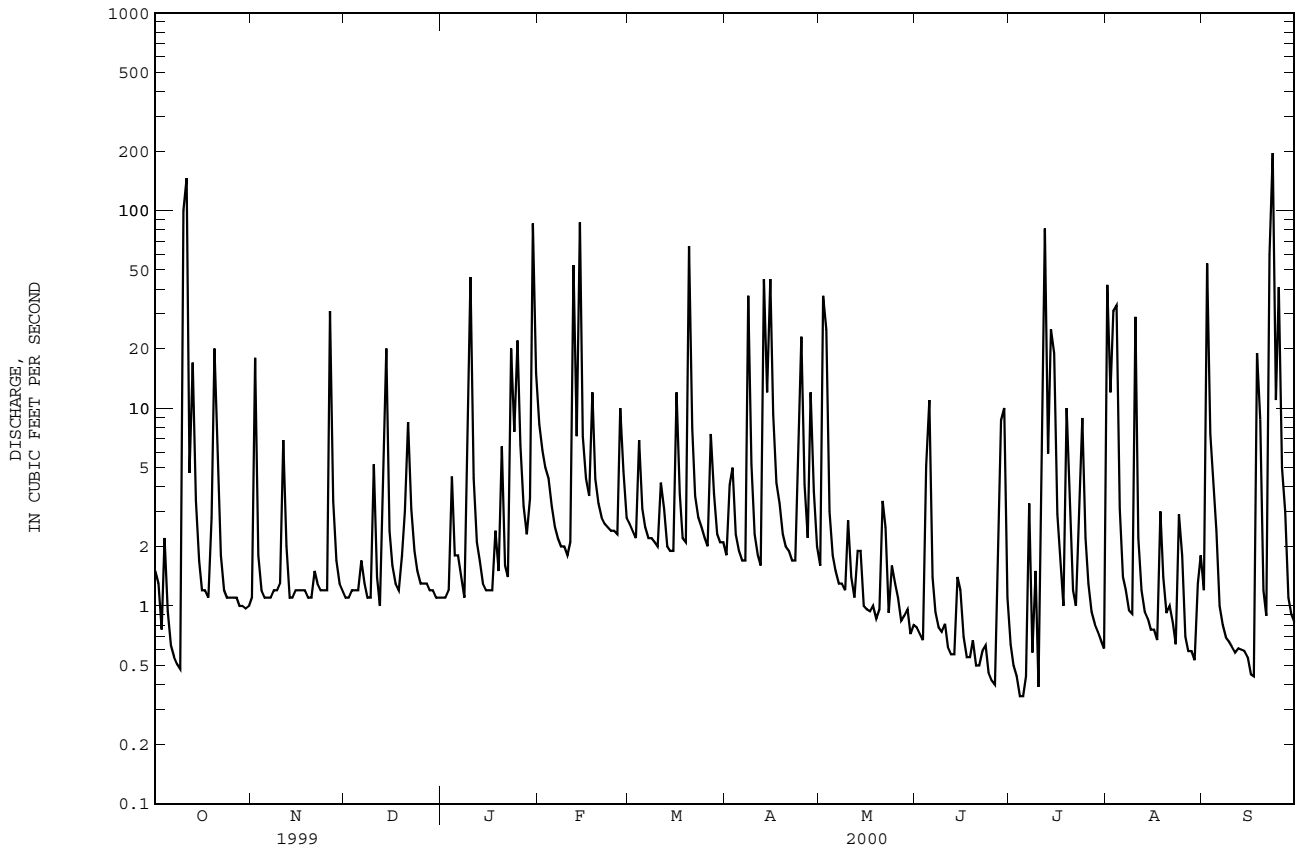
WATER YEARS 1999 - 2000

ANNUAL TOTAL	2373.96		
ANNUAL MEAN	6.49	6.49	
HIGHEST ANNUAL MEAN		6.49	2000
LOWEST ANNUAL MEAN		6.49	2000
HIGHEST DAILY MEAN	195	Sep 23	2000
LOWEST DAILY MEAN	.35	Jul 4	1999
ANNUAL SEVEN-DAY MINIMUM	.50	Jun 20	1999
MAXIMUM PEAK FLOW	583	Jul 12	2000
MAXIMUM PEAK STAGE	4.98	Jul 12	2000
INSTANTANEOUS LOW FLOW	.25	Jul 7	1999
ANNUAL RUNOFF (CFSM)	1.16		
ANNUAL RUNOFF (INCHES)	15.77		
10 PERCENT EXCEEDS	12		
50 PERCENT EXCEEDS	1.7		
90 PERCENT EXCEEDS	.64		

e Estimated.

* See REMARKS.

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02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	.34	1.2	1.1	1.1	1.3	5.5	.96	24	.37	.22	.87
2	.70	.39	1.3	1.1	.97	1.3	3.0	.92	3.3	.32	.18	.19
3	.69	.42	1.3	1.1	.91	6.3	3.5	.86	1.2	2.8	.17	40
4	.69	.39	1.3	1.1	.91	47	2.4	.84	.83	42	.17	37
5	.73	1.2	1.3	1.0	.96	6.4	2.0	.83	.71	9.1	.16	1.8
6	.67	.45	1.3	.97	.88	2.9	1.9	.79	.64	1.2	.14	.66
7	.60	.52	1.3	.95	.85	2.0	1.7	.80	.59	.55	.18	.48
8	.73	e.52	1.3	5.2	1.0	1.7	1.7	.84	2.9	1.6	.10	.34
9	.59	e2.0	1.3	1.5	.89	1.5	1.6	.80	.90	.62	.07	1.6
10	.59	e5.6	1.5	1.0	1.7	1.4	1.5	.75	.65	.45	3.6	.44
11	.58	e.98	1.4	1.0	.86	1.3	1.4	.74	.56	.35	.94	.25
12	.56	e.52	1.6	9.7	4.5	8.6	1.4	.72	.50	.59	.21	.22
13	.54	e.51	2.2	3.0	3.4	4.6	6.7	.70	38	.85	7.9	.19
14	.49	e7.4	4.0	1.6	5.3	1.8	1.9	.67	7.6	.31	.50	.17
15	.58	.80	2.3	1.5	1.6	27	2.0	.63	1.4	.25	.23	.15
16	.57	.60	6.6	1.2	1.4	5.3	1.5	.78	.82	.24	.19	.15
17	.56	4.7	9.4	1.1	40	2.9	1.4	1.0	.59	.95	9.6	.14
18	.51	e.98	1.8	2.4	3.4	2.0	1.3	1.0	.50	.21	1.7	.16
19	.49	e10	2.1	20	1.9	1.6	1.3	3.2	.46	.29	.22	.21
20	.50	e5.1	1.8	13	1.5	39	1.2	1.9	.41	.25	.16	5.1
21	.51	1.7	1.2	3.9	1.3	46	1.2	3.2	.35	.29	.11	.33
22	.43	.99	1.5	2.1	15	5.8	1.1	19	15	.12	.09	.19
23	.42	.95	1.1	1.6	3.1	3.3	1.1	2.6	3.0	.92	.08	.16
24	.43	e.94	1.1	1.4	1.8	2.5	2.5	2.5	.89	7.1	.27	82
25	.47	e40	1.0	1.3	8.2	2.1	18	2.8	.59	4.9	.08	2.1
26	.44	e6.0	1.0	1.2	2.9	1.9	2.2	19	.75	4.2	.05	.33
27	.45	e3.8	1.2	1.1	1.8	1.7	1.3	1.7	.52	.54	.06	.17
28	.41	e2.8	1.3	1.1	1.5	1.6	1.1	9.0	1.4	.35	.12	e.11
29	.40	1.2	1.1	1.0	---	87	.98	9.1	1.0	.58	.14	e.08
30	.35	1.3	1.0	3.7	---	15	.95	1.6	.52	.45	.05	.07
31	.36	---	1.0	1.3	---	5.4	---	.89	---	.24	2.7	---
TOTAL	16.80	103.10	58.8	89.22	109.63	338.2	75.33	91.12	110.58	82.99	30.39	175.66
MEAN	.54	3.44	1.90	2.88	3.92	10.9	2.51	2.94	3.69	2.68	.98	5.86
MAX	.76	40	9.4	20	40	87	18	19	38	42	9.6	82
MIN	.35	.34	1.0	.95	.85	1.3	.95	.63	.35	.12	.05	.07
CFSM	.10	.61	.34	.51	.70	1.95	.45	.52	.66	.48	.18	1.05
IN.	.11	.68	.39	.59	.73	2.25	.50	.61	.73	.55	.20	1.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	5.51	3.25	2.18	5.60	6.38	8.13	5.41	3.14	2.76	4.39	2.71	8.41
MAX	10.5	3.44	2.46	8.32	8.77	10.9	8.31	3.34	3.69	6.14	5.80	14.1
(WY)	2000	2001	2000	2000	2000	2001	2000	2000	2001	2000	2000	2000
MIN	.54	3.07	1.90	2.88	3.92	5.35	2.51	2.94	1.84	2.68	.98	5.24
(WY)	2001	2000	2001	2001	2001	2000	2001	2001	2000	2001	2001	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	2059.42	1281.82		
ANNUAL MEAN	5.63	3.51		5.00
HIGHEST ANNUAL MEAN				6.49
LOWEST ANNUAL MEAN				3.51
HIGHEST DAILY MEAN	195	Sep 23	87	Mar 29
LOWEST DAILY MEAN	.34	Nov 1	.05	Aug 26
ANNUAL SEVEN-DAY MINIMUM	.38	Oct 29	.11	Aug 21
MAXIMUM PEAK FLOW			371	Sep 24
MAXIMUM PEAK STAGE			3.80	Sep 24
INSTANTANEOUS LOW FLOW			.03	Aug 29
ANNUAL RUNOFF (CFSM)	1.00		.63	.89
ANNUAL RUNOFF (INCHES)	13.68		8.51	12.13
10 PERCENT EXCEEDS	10		6.5	9.0
50 PERCENT EXCEEDS	1.5		1.1	1.3
90 PERCENT EXCEEDS	.52		.22	.35

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC--Continued

