

## SANTEE RIVER BASIN

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC

LOCATION.--Lat 35°10'33", long 80°43'12", Mecklenburg County, Hydrologic Unit 03050103, on left bank at upstream side of culvert on State Road 3150 (Idlewild Road), 1.5 mi above Irvins Creek, and 1.6 mi southeast of Idlewild.

DRAINAGE AREA.--7.52 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 613.19 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 June to Sept. 1999 also occurred Aug. 20. Minimum discharge for 2000 water year also occurred June 25, 26. Minimum discharge for period of record also occurred June 25, 26, 2000 and Aug. 30, 2001.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.1	2.0	4.4	.49
2	---	---	---	---	---	---	---	---	.88	1.3	2.7	.40
3	---	---	---	---	---	---	---	---	.68	.96	2.0	.27
4	---	---	---	---	---	---	---	---	.53	.71	1.6	.68
5	---	---	---	---	---	---	---	---	.46	.54	1.3	12
6	---	---	---	---	---	---	---	---	.41	8.2	1.3	6.4
7	---	---	---	---	---	---	---	---	.33	26	1.1	2.9
8	---	---	---	---	---	---	---	---	.28	8.6	.93	1.8
9	---	---	---	---	---	---	---	---	.31	3.7	1.8	1.4
10	---	---	---	---	---	---	---	---	3.4	2.2	.80	1.8
11	---	---	---	---	---	---	---	---	4.9	2.1	.58	.99
12	---	---	---	---	---	---	---	---	2.0	9.9	.42	.79
13	---	---	---	---	---	---	---	---	1.4	14	.37	.71
14	---	---	---	---	---	---	---	---	1.0	4.4	.18	.38
15	---	---	---	---	---	---	---	---	6.1	2.9	.13	7.9
16	---	---	---	---	---	---	---	---	15	2.3	.11	11
17	---	---	---	---	---	---	---	---	8.4	2.9	.11	3.0
18	---	---	---	---	---	---	---	---	3.5	1.8	.08	2.0
19	---	---	---	---	---	---	---	---	2.5	1.4	.06	1.4
20	---	---	---	---	---	---	---	---	2.6	1.0	1.3	1.1
21	---	---	---	---	---	---	---	---	2.2	.69	2.4	1.2
22	---	---	---	---	---	---	---	---	1.4	.59	.32	4.5
23	---	---	---	---	---	---	---	---	1.5	.53	.11	1.3
24	---	---	---	---	---	---	---	---	1.2	1.6	.09	.84
25	---	---	---	---	---	---	---	---	4.2	1.7	5.8	.63
26	---	---	---	---	---	---	---	---	2.6	.64	11	.54
27	---	---	---	---	---	---	---	---	2.0	.39	2.4	4.7
28	---	---	---	---	---	---	---	---	1.5	.32	1.5	6.4
29	---	---	---	---	---	---	---	---	3.0	1.7	1.1	58
30	---	---	---	---	---	---	---	---	3.2	1.7	.68	16
31	---	---	---	---	---	---	---	---	---	11	.55	---
TOTAL	---	---	---	---	---	---	---	---	78.58	117.77	47.22	151.52
MEAN	---	---	---	---	---	---	---	---	2.62	3.80	1.52	5.05
MAX	---	---	---	---	---	---	---	---	15	26	11	58
MIN	---	---	---	---	---	---	---	---	.28	.32	.06	.27
CFSM	---	---	---	---	---	---	---	---	.35	.51	.20	.67
IN.	---	---	---	---	---	---	---	---	.39	.58	.23	.75

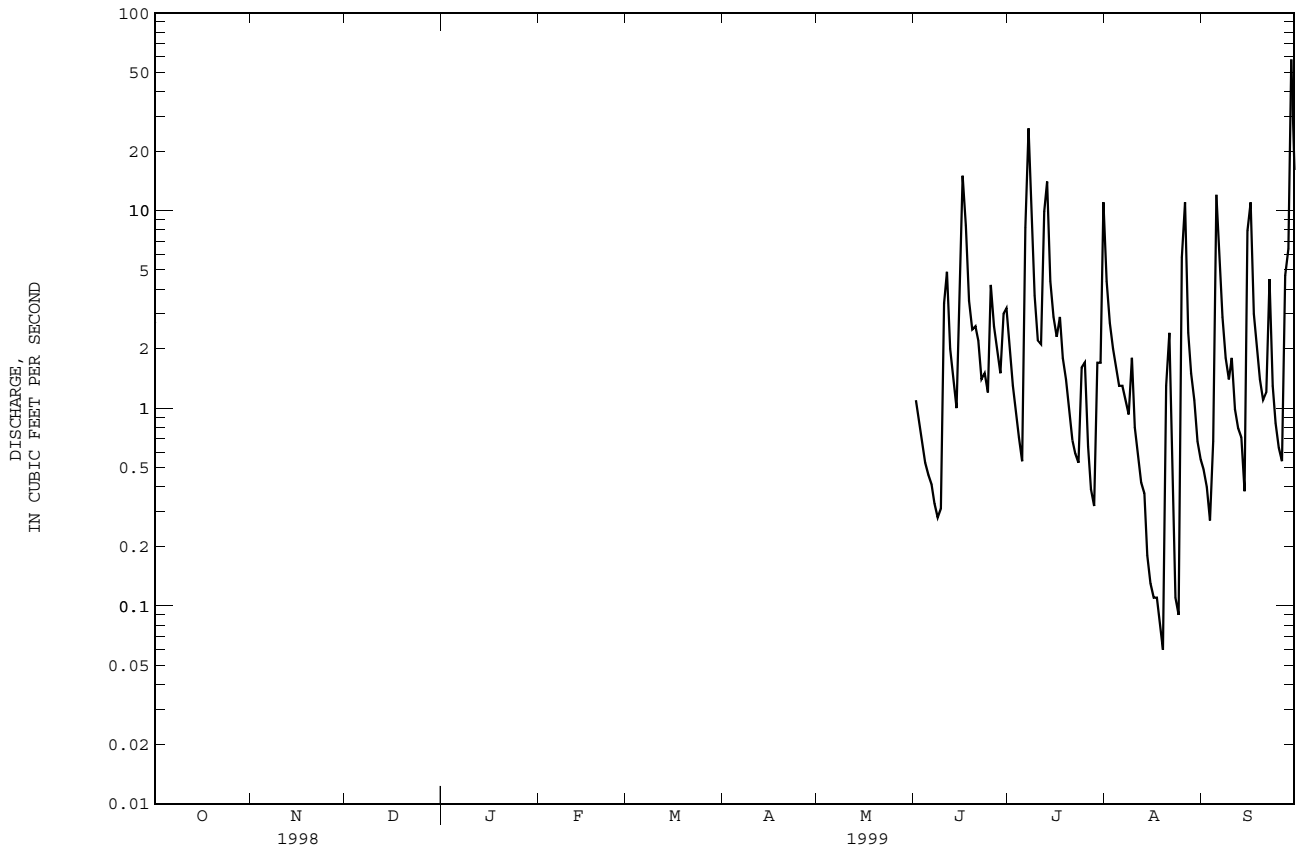
## SUMMARY STATISTICS

## FOR PERIOD JUNE TO SEPTEMBER 1999

MAXIMUM PEAK FLOW 184 Sep 29  
 MAXIMUM PEAK STAGE 3.72 Sep 29  
 INSTANTANEOUS LOW FLOW .05\* Aug 19

\* See REMARKS.

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued



SANTEE RIVER BASIN

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, 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	4.0	.99	1.2	1.1	19	2.3	1.9	2.0	.25	1.2	16	4.6
2	2.3	15	1.0	1.1	13	2.1	3.3	7.4	.19	2.6	8.9	13
3	1.9	3.3	.94	1.2	12	1.9	4.1	6.0	.12	.40	4.1	5.1
4	2.5	1.9	.94	2.2	11	6.4	3.3	2.6	2.5	.10	16	9.2
5	2.5	1.7	1.1	2.4	7.2	3.8	1.9	2.0	11	.07	3.4	2.3
6	1.7	1.5	1.4	1.4	5.3	2.6	1.7	1.7	1.8	.16	1.8	.89
7	1.5	1.1	1.2	1.2	4.3	2.2	1.6	1.5	.94	.27	1.1	.49
8	1.4	.95	.94	.98	3.6	2.2	26	1.4	.72	.12	.50	.19
9	1.4	.93	.94	3.3	3.5	2.1	10	1.3	.57	6.4	.25	.14
10	57	1.2	3.6	38	3.2	1.9	4.5	1.4	.41	.26	10	.12
11	e122	5.3	1.8	7.6	3.2	3.2	3.1	1.3	.38	4.8	1.8	.08
12	7.6	2.9	1.4	3.1	64	3.2	2.6	1.1	.31	e35	.63	.07
13	18	1.8	2.1	2.4	16	1.8	32	1.0	.24	8.9	.24	.06
14	5.1	2.2	22	2.1	e100	1.7	17	1.3	.18	10	.08	.06
15	2.3	1.8	4.4	1.6	13	1.6	66	.64	.31	21	.06	.08
16	1.7	1.5	2.5	1.5	6.7	6.4	23	.54	.11	3.3	.05	.04
17	1.5	1.4	1.7	1.4	4.7	3.9	8.6	.54	.08	1.5	.05	.04
18	1.3	1.2	1.4	2.2	15	2.3	5.5	.50	.05	.82	.51	8.8
19	.95	1.2	1.7	1.8	6.9	1.9	4.1	.43	.02	4.5	1.0	9.7
20	16	1.3	3.1	5.8	4.4	62	3.4	.41	.02	6.0	.04	2.0
21	9.0	1.4	6.9	2.5	3.6	12	2.9	.51	.02	1.6	.03	1.3
22	3.2	1.7	4.8	1.8	3.0	4.8	2.5	2.2	.02	.66	.03	19
23	2.2	1.6	2.6	18	2.7	3.1	2.3	.51	.02	.37	.02	e105
24	1.1	1.6	2.0	11	2.6	3.1	5.0	.86	.01	8.6	.18	7.3
25	.62	1.6	1.5	23	2.6	2.4	15	.60	.01	3.2	1.4	22
26	.62	16	1.2	12	2.4	1.9	6.1	.75	.01	1.9	.03	10
27	.72	5.7	1.2	5.5	5.5	9.6	3.1	.37	.02	1.1	.02	2.8
28	.72	2.3	1.2	3.5	4.9	6.1	5.9	.36	1.8	.56	.02	1.6
29	.72	1.6	1.1	3.5	2.7	2.8	3.8	.44	7.1	.27	.02	.99
30	.76	1.3	.94	e87	---	2.5	2.6	.29	2.2	.15	.02	.75
31	.92	---	1.1	35	---	2.2	---	.31	---	.09	.72	---
TOTAL	273.23	83.97	79.90	285.18	346.0	166.0	272.8	42.26	31.41	125.90	69.00	227.70
MEAN	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	1.05	4.06	2.23	7.59
MAX	122	16	22	87	100	62	66	7.4	11	35	16	105
MIN	.62	.93	.94	.98	2.4	1.6	1.6	.29	.01	.07	.02	.04
CFSM	1.17	.37	.34	1.22	1.59	.71	1.21	.18	.14	.54	.30	1.01
IN.	1.35	.42	.40	1.41	1.71	.82	1.35	.21	.16	.62	.34	1.13

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	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	1.83	3.93	1.87	6.32
MAX	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	2.62	4.06	2.23	7.59
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000	2000
MIN	8.81	2.80	2.58	9.20	11.9	5.35	9.09	1.36	1.05	3.80	1.52	5.05
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	1999	1999

SUMMARY STATISTICS

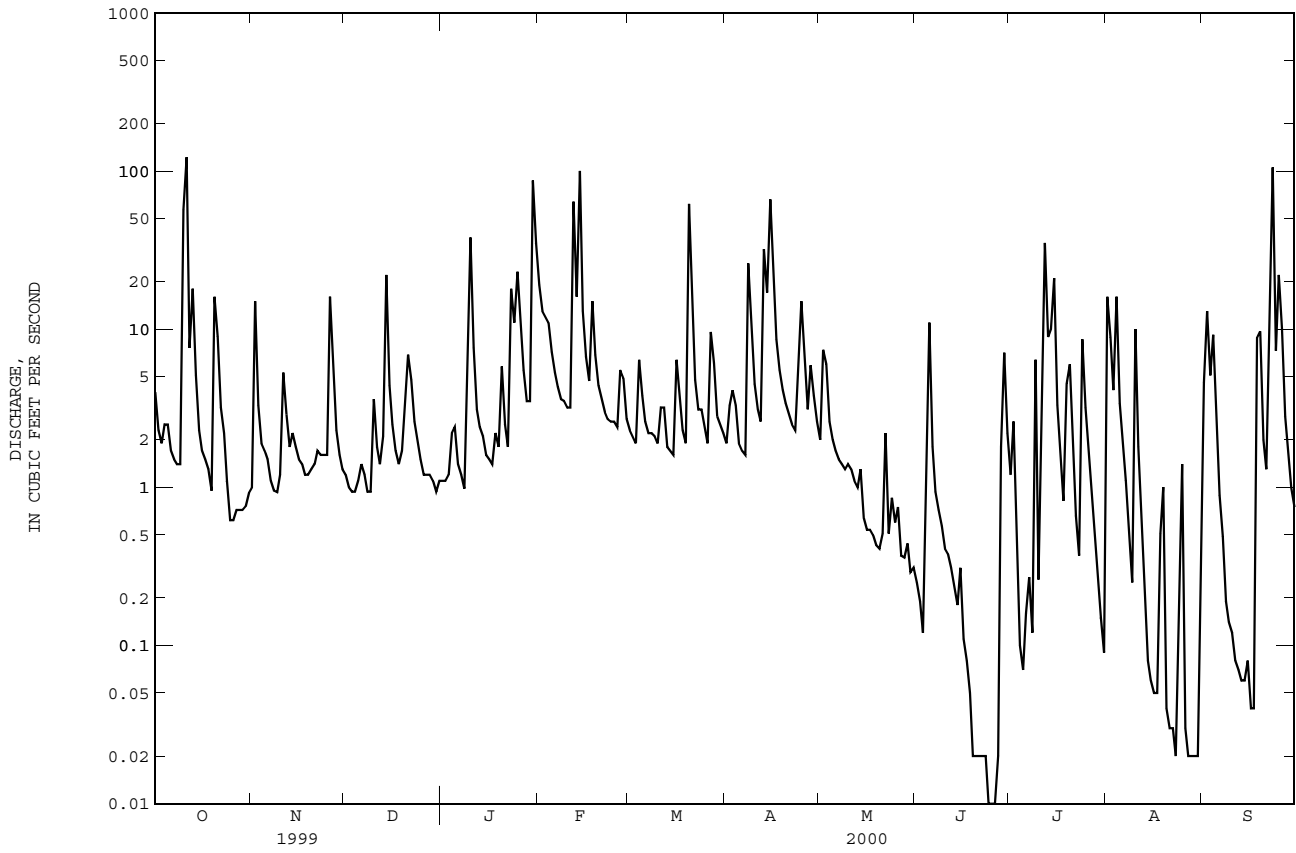
FOR 2000 WATER YEAR

WATER YEARS 1999 - 2000

ANNUAL TOTAL	2003.35	
ANNUAL MEAN	5.47	5.47
HIGHEST ANNUAL MEAN		5.47 2000
LOWEST ANNUAL MEAN		5.47 2000
HIGHEST DAILY MEAN	e122 Oct 11	e122 Oct 11 1999
LOWEST DAILY MEAN	.01 Jun 24	.01 Jun 24 2000
ANNUAL SEVEN-DAY MINIMUM	.02 Jun 20	.02 Jun 20 2000
MAXIMUM PEAK FLOW	NOT DETERMINED	NOT DETERMINED
MAXIMUM PEAK STAGE	5.22 Oct 11	5.22 Oct 11 1999
INSTANTANEOUS LOW FLOW	.01* Jun 24	.01* Jun 24 2000
ANNUAL RUNOFF (CFSM)	.73	.73
ANNUAL RUNOFF (INCHES)	9.91	9.89
10 PERCENT EXCEEDS	12	11
50 PERCENT EXCEEDS	1.8	1.8
90 PERCENT EXCEEDS	.12	.18

e Estimated.  
\* See REMARKS.

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued



## SANTEE RIVER BASIN

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, 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	.62	.19	1.2	.86	1.8	2.7	7.9	1.3	22	.86	.85	1.6
2	2.0	.19	1.3	.91	1.6	2.6	5.6	1.1	7.6	.75	.64	1.6
3	1.4	.20	1.5	.78	1.5	12	5.2	.94	2.8	1.6	.44	14
4	.45	.39	1.3	.78	1.4	54	4.2	.81	1.7	7.7	.36	18
5	.27	.94	1.3	.99	1.4	21	3.4	.88	1.3	12	.29	4.1
6	.27	.96	1.3	.75	1.4	14	3.1	.83	.89	2.5	.16	1.8
7	.31	.82	1.4	.73	1.3	11	2.9	.62	.89	1.4	.15	.96
8	.34	1.1	1.4	2.9	1.3	9.2	2.9	.55	1.4	1.9	.07	.56
9	.38	2.6	1.3	2.0	1.4	8.6	2.7	.61	1.3	1.9	.05	1.7
10	.45	4.5	1.5	1.1	2.1	7.9	2.5	.55	.90	1.2	.82	.95
11	.57	1.5	1.5	.91	1.6	7.5	2.4	.55	.73	.84	.98	.45
12	.36	.92	1.7	7.2	3.7	11	2.3	.53	.70	.62	.11	.36
13	.32	.78	1.6	5.5	3.3	16	4.6	.34	15	.99	3.6	.07
14	.31	5.5	2.2	2.9	5.9	10	3.4	.27	13	.76	1.1	.06
15	.31	2.2	2.1	2.3	2.9	35	2.6	.23	3.3	.58	.14	.05
16	.31	1.3	4.8	1.8	2.3	19	2.3	.20	2.0	.41	.05	.04
17	.30	4.3	7.5	1.4	26	e12	1.8	.35	1.4	.33	1.2	.03
18	.32	2.2	2.8	e2.0	6.5	e9.0	1.5	.40	.95	.31	4.6	.03
19	.28	8.9	1.9	12	4.0	24	1.5	7.7	.82	.32	.93	.03
20	.27	6.1	2.2	16	3.1	58	1.5	4.9	.72	.20	.79	5.2
21	.24	3.1	1.3	5.8	2.8	71	1.4	1.8	.89	.15	.50	1.7
22	.32	1.7	1.5	3.3	11	17	1.4	8.6	13	.08	.28	.36
23	.86	1.3	.93	2.4	5.9	10	1.3	5.6	8.2	.32	.12	.11
24	.45	1.2	.76	2.1	3.6	7.4	1.6	2.7	2.4	3.5	.18	25
25	.41	21	.78	2.0	6.6	5.7	16	3.2	1.4	6.1	.23	5.6
26	.33	8.2	.71	1.8	5.5	5.4	4.2	11	1.3	5.9	.03	1.8
27	.36	3.5	.94	1.8	3.6	4.9	2.4	2.9	1.3	2.4	.02	1.2
28	.39	2.4	1.3	1.7	3.0	5.0	1.8	7.2	.92	1.6	.02	.55
29	.30	1.9	1.0	1.6	---	76	1.5	7.0	.79	1.4	.01	.33
30	.17	1.6	.91	3.1	---	31	1.4	2.8	.83	1.8	.01	.23
31	.14	---	.83	2.3	---	8.4	---	1.6	---	1.1	.73	---
TOTAL	13.81	91.49	52.76	91.71	116.5	586.3	97.3	78.06	110.43	61.52	19.46	88.47
MEAN	.45	3.05	1.70	2.96	4.16	18.9	3.24	2.52	3.68	1.98	.63	2.95
MAX	2.0	21	7.5	16	26	76	16	11	22	12	4.6	25
MIN	.14	.19	.71	.73	1.3	2.6	1.3	.20	.70	.08	.01	.03
CFSM	.06	.41	.23	.39	.55	2.52	.43	.33	.49	.26	.08	.39
IN.	.07	.45	.26	.45	.58	2.90	.48	.39	.55	.30	.10	.44

## 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	4.63	2.92	2.14	6.08	8.11	12.1	6.17	1.94	2.45	3.28	1.46	5.20
MAX	8.81	3.05	2.58	9.20	11.9	18.9	9.09	2.52	3.68	4.06	2.23	7.59
(WY)	2000	2001	2000	2000	2000	2001	2000	2001	2001	2000	2000	2000
MIN	.45	2.80	1.70	2.96	4.16	5.35	3.24	1.36	1.05	1.98	.63	2.95
(WY)	2001	2000	2001	2001	2001	2000	2001	2000	2000	2001	2001	2001

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

ANNUAL TOTAL	1724.31	1407.81	
ANNUAL MEAN	4.71	3.86	4.67
HIGHEST ANNUAL MEAN			5.47
LOWEST ANNUAL MEAN			3.86
HIGHEST DAILY MEAN	105	76	122
LOWEST DAILY MEAN	.01	.01	.01
ANNUAL SEVEN-DAY MINIMUM	.02	.04	.02
MAXIMUM PEAK FLOW		259	NOT DETERMINED
MAXIMUM PEAK STAGE		4.25	5.22
INSTANTANEOUS LOW FLOW		.01	.01*
ANNUAL RUNOFF (CFSM)	.63	.51	.62
ANNUAL RUNOFF (INCHES)	8.53	6.96	8.43
10 PERCENT EXCEEDS	10	8.7	10
50 PERCENT EXCEEDS	1.6	1.4	1.6
90 PERCENT EXCEEDS	.12	.27	.23

e Estimated.

\* See REMARKS.

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC--Continued

