460 SANTEE RIVER BASIN

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC

 $\label{location.--Lat 35^09'30", long 80^42'49", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Secondary Road 3168, 4.0 mi southwest of Mint Hill.$

DRAINAGE AREA.--8.37 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 612.56 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those above 300 ft³/s, and those for estimated daily discharges, which are poor. Maximum discharge for 2000 water year, current water year, and period of record from rating curve extended above 210 ft³/s by step-backwater analysis. Minimum discharge for period June 1999 to Sept. 1999 also occurred on Sept. 5. Minimum discharge for 2000 water year also occurred on Aug. 28-30. Minimum discharge for period of record and current water year also occurred on Aug. 26, 27, 28, 29, 30, 31.

		DISCHARGE	, CUBIC	FEET PER		FOR PERIO		SEPTEMB	ER 1999			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1.2	1.1	1.1	.13
2									1.1	1.0	.75	.18
3									1.1	.95	.44	.24
4									.99	.92	.38	.07
5									.97	.83	.38	5.4
6									.90	1.7	.37	1.9
7									.87	21	.34	.49
8									.80	3.3	.46	.42
9									1.8	1.4	1.2	.57
10									2.5	1.5	.44	.94
11									2.4	1.4	.35	.54
12									1.3	5.5	.28	.36
13									1.1	14	.25	.29
14									1.0	2.9	.33	.26
15									4.3	2.1	.35	3.6
16									9.7	1.7	.36	6.3
17									4.3	3.5	.33	.65
18									1.6	1.7	.32	.39
19									1.3	1.2	.26	.38
20									1.7	1.1	.89	.61
21									1.6	1.0	1.2	.52
22									1.4	1.0	.41	1.9
23									1.3	.90	.35	.49
24									1.2	.89	.35	.36
25									1.9	1.1	2.2	.37
26									2.1	.83	4.4	.35
27									1.8	.78	.57	2.4
28									1.3	.57	.43	2.4
29									1.2	.55	.40	32
30									1.3	.95	.34	5.8
31										4.4	.24	
TOTAL									56.03	81.77	20.47	70.31
MEAN									1.87	2.64	.66	2.34
MAX									9.7	21	4.4	32
MIN									.80	.55	.24	.07
CFSM									.22	.32	.08	.28
IN.									.25	.36	.09	.31

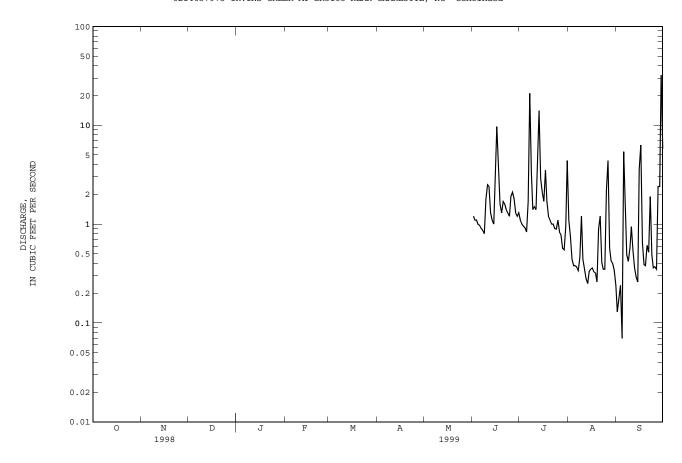
SUMMARY STATISTICS

FOR PERIOD JUNE TO SEPTEMBER 1999

MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW 203 Jul 7 4.26 Jul 7 .05* Sep 4

* See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued



462 SANTEE RIVER BASIN

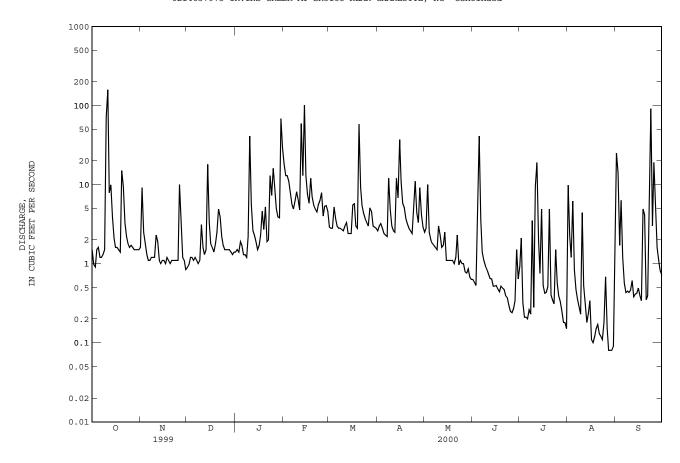
0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

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 2 3 4 5	1.5 .98 .91 1.5	1.6 9.1 2.5 1.8 1.3	.89 .97 1.2 1.2	1.4 1.5 1.4 1.9	18 13 13 11 7.7	2.9 2.8 2.8 5.2 3.7	2.6 3.0 3.2 2.8 2.4	2.5 2.8 e10 e2.5 e2.0	.63 .58 .53 3.7	.93 2.1 .32 .21	9.8 2.2 1.2 6.2 .84	25 14 1.7 6.3 1.2
6 7 8 9 10	1.2 1.2 1.3 1.5	1.1 1.1 1.2 1.2	1.2 1.1 1.0 1.1 3.1	1.3 1.3 1.2 2.2	5.6 4.9 6.2 8.1 6.4	3.0 2.8 2.8 2.7 2.6	2.3 2.2 12 4.9 3.0	e1.8 e1.7 e1.6 e1.5 e3.0	3.6 1.4 1.1 .94 .84	.20 .26 .23 3.5 .28	.47 .36 .29 .23	.57 .43 .45 .43
	158 7.9 9.9 3.9 2.1	2.3 1.9 1.1 1.0	1.6 1.3 1.5 18 3.3	5.5 2.6 2.3 1.9 1.5	4.8 59 13 101 13	3.0 3.3 2.4 2.4 2.4	2.6 2.5 12 6.8 37	e2.3 e1.6 e1.7 e2.5 1.1	.74 .65 .64 .52	9.4 19 2.0 .75 4.9	.53 .30 .18 .24 .34	.61 .38 .41 .42 .49
16 17 18 19 20	1.6 1.6 1.5 1.4	1.1 1.0 1.2 1.1	1.8 1.6 1.4 1.8 2.5	1.7 2.3 4.6 2.7 5.2	7.5 5.8 12 7.0 5.5	5.5 5.7 3.0 2.8 58	11 5.8 5.1 3.7 3.2	1.1 1.1 1.1 1.1	.53 .48 .44 .52 .49	.53 .42 .43 .51 4.9	.11 .10 .12 .15	.39 .34 4.9 4.1 .35
								1.2 2.3 .96 1.1 1.0				
26 27 28 29 30 31	1.7 1.6 1.5 1.5 1.5	10 2.9 1.2 1.1 .84	1.5 1.5 1.5 1.4 1.3	8.8 5.0 3.9 3.8 68 29	4.0 5.3 5.4 4.6	3.0 5.1 4.6 3.0 2.9 2.8	4.4 3.3 9.1 4.2 2.9	1.0 .79 .76 .86 .68	.24 .27 .34 1.5 .64	.39 .33 .25 .18 .18	.15 .08 .08 .08 .09	5.7 1.6 1.1 .82 .72
								55.28 1.78 10 .63 .21				
								YEAR (WY				
MEAN MAX (WY) MIN (WY)	10.1 10.1 2000 10.1 2000	1.88 1.88 2000 1.88 2000	2.27 2.27 2000 2.27 2000	7.87 7.87 2000 7.87 2000	12.8 12.8 2000 12.8 2000	5.39 5.39 2000 5.39 2000	5.87 5.87 2000 5.87 2000	1.78 1.78 2000 1.78 2000	2.01 2.15 2000 1.87 1999	2.22 2.64 1999 1.80 2000	.82 .98 2000 .66 1999	4.46 6.58 2000 2.34 1999
SUMMARY STATISTICS			FOR	1999 CALEN	NDAR YEAR	F	OR 2000 W	ATER YEAR	WATER YEARS 1999 - 2000			
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN HOWEST ANNUAL MEAN HOWEST ANNUAL MEAN HOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS				158 .07 .23 4.3 1.2 .36			1801.3 4.9 158 .0 .1 802* 6.9 .0 .9.4 1.6	Oct 11 18 Aug 27 3 Aug 16 Oct 11 19 Oct 11 16* Aug 27 9		4.9 4.9 4.9 158 .0 .0 .0 .5 7.9 7.7 1.5	2 Oct 7 Sep 3 Aug Oct 9 Oct 5 Sep 9	2000 2000 11 1999 4 1999 16 2000 11 1999 11 1999 4 1999

e Estimated. * See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued



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0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

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

DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	.67	.48	.79	.83	1.1 1.1 1.0 1.0	1.7	5.7	1.5	8.9	.36	.21	.29	
2	.56 .48	.49 .49	.79 .91 .85 .75	. 84 84	1.1	1.6 2.4	4.1	1.5	3.1 1.4	.30	.20 17	.16 4 3	
4	.48	.52	.75	.89	1.0	30	3.3	1.3	1.1	1.3	.16	9.5	
5	.41	.63											
6 7	.46	.59	.75	.93	1.0 1.0 .98 1.0 1.3	3.4	2.7	1.2	.87	.41	.14	.10	
8	.37	.61	.75	1.7	.98	2.3	2.6	1.3	1.0	.30	.12	.05	
9	.45	.88	.86	1.3	1.0	2.0	2.3	1.2	. 97	.52	.08	.16	
10													
11 12	.57 .55	.57 49	.66 64	1.1	.98 1.9 1.9 3.9	1.7	2.1	1.1	.70	.25 .22	.15 .11	.07	
13	.51	.51	.57	4.7	1.9	3.4	3.2	.97	6.7	.51	2.0	.04	
14 15	.45 .39	2.1	.75	1.8	3.9	1.9	2.1	.91	3.1	.37	.58 .17	.04	
		. 72	.75										
16 17	.50 .44	.65 1.5	3.0	1.2	1.5 27	3.4	1.9	.88 .96	.82 .77	.17 .16	.11 .12	.03	
18	.49	.72	1.4	1.2	3.7	2.6	1.8	1.0	.61	.16	1.1	.03	
19 20	.55 .58	2.7	1.7 3.0 1.4 1.2	1.2 1.1 1.2 8.0 12	2.4	2.2 30	1.9 1.8 1.8 1.8	.88 .96 1.0 18 5.7	.60 .53	.16 .15	1.1 .21 .12	.03	
		2.1											
21 22	.45 .59	.85 .64	1.0	2.0	1.8 8.2	8.1	1.7	3.7	1.0	.13	.07	.41	
23	.67	.68	.94	1.6	3.7	4.5	1.7	2.0	1.3	.16	.04	.04	
24 25	.64 .66	.60 14	1.0 1.1 .94 .88 .83	1.5	1.8 8.2 3.7 2.4 3.2	3.4 2.8	1.7 1.7 1.7 2.0	1.3 2.1	. 74	.13 .11 .16 1.1 6.2	.03	20 .90	
		0.0		1.0									
26 27	.60	1.4	.77	1.3	2.7	2.5	1.9	1.4	.86	.54	.03	.17 .11	
28	.54	1.1	1.1	1.2	1.8	2.0	1.8	4.0	.45	.40	.02	.11	
29 30	.51 .45	1.0	.98 .91	1.1		94 27	1.6	2.9 1.4	.42	.33	.02	.08	
31	.45		.83	1.3	2.7 2.0 1.8 	7.0		1.2		.26	.09		
TOTAL	15.98	43.19	30.27	65.93	83.26 2.97 27 .98 .36 .37	346.8	78.9	74.12	42.54	20.11	6.48	38.40	
MEAN	.52	1.44	.98	2.13	2.97	11.2	2.63	2.39	1.42	.65	.21	1.28	
MIN	.37	.48	.57	.83	.98	1.6	1.6	.88	.42	.11	.02	.03	
CFSM	.06	.17	.12	.25	.36	1.34	.31	.29	.17	.08	.02	.15	
										.09	.03	.1/	
STATIST			AN DATA F		YEARS 1999			YEAR (WY)	1.69 2.64 1999 .65			
MEAN	5.31	1.66 1.88 2000	1.62	5.00	7.97	8.29	4.25	2.60	1.81	1.69	.62	3.40	
MAX (WY)	10.1 2000	2000	2.27	7.87 2000	2000	2001	2000	2.82	2.15 2000	2.64 1999	.98 2000	6.58 2000	
MIN	. 52	1.66 1.88 2000 1.44 2001	.98	2.13	7.97 12.8 2000 2.97 2001	5.39	2.63	2.39	1.42	.65	.21	1.28	
(WY)	2001	2001	2001	2001	2001	2000	2001	2001	2001	2001	2001	2001	
SUMMARY	Y STATIST	ICS	FOR	2000 CALE	NDAR YEAR	F	OR 2001 W	ATER YEAR		WATER Y	EARS 1999	- 2001	
ANNUAL				1450.7			845.98						
ANNUAL MEAN HIGHEST ANNUAL MEAN				3.96			2.32				3.67 5.01 200		
LOWEST ANNUAL MEAN											_	2001	
HIGHEST DAILY MEAN LOWEST DAILY MEAN					Feb 14		94	Mar 29		158	Oct :	11 1999 27 2001	
				.1	8 Aug 27 3 Aug 16		.02 Aug 27				2 Aug	24 2001	
MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE							94 Mar 29 .02 Aug 27 .02 Aug 24 417* Mar 29 5.47 Mar 29 .02* Aug 25				802* Oct 11 1999 6.99 Oct 11 1999		
INSTANTANEOUS LOW FLOW							5.4/ Mar 29 .02* Aug 25				2* Aug :	25 2001	
ANNUAL RUNOFF (CFSM)				.4 6.4			.20				• 1 1		
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS				7.8			3.76 3.5				5.95 5.7		
	CENT EXCE			1.1			. 95				1.2		
90 PERCENT EXCEEDS .34 .12 .24											I		

^{*} See REMARKS.

0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC--Continued

