

## 0214657975 IRVINS CREEK AT SR3168 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°09'31", long 80°42'48", 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 mi<sup>2</sup>.

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

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

REMARKS.--Records fair except those for estimated daily discharges and those above 500 ft<sup>3</sup>/s, which are poor. Maximum discharge for current water year and period of record from rating curve extended above 500 ft<sup>3</sup>/s by step-backwater and culvert analysis. No flow also occurred Aug. 14-15, 2002.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.56	1.4	1.8	3.2	6.1	12	5.9	4.5	10	4.2	7.2	e8.7
2	0.52	1.2	2.2	2.8	4.5	25	5.0	4.9	5.4	80	4.3	e6.8
3	e0.52	1.1	1.2	2.9	3.7	7.7	4.5	4.8	18	10	4.3	e5.0
4	e0.50	1.1	1.4	2.5	4.9	5.6	4.2	4.4	16	5.9	4.9	e10
5	e0.45	6.4	45	2.3	3.4	6.6	5.0	4.5	7.8	4.8	29	2.8
6	e0.40	28	9.6	2.2	4.5	169	4.8	176	6.2	4.2	9.7	2.5
7	e0.45	3.9	5.4	2.1	31	14	126	22	531	3.9	5.1	2.4
8	e0.54	2.4	3.5	2.1	6.3	7.0	39	8.4	321	3.8	4.0	2.3
9	0.58	1.9	2.7	2.1	4.3	5.6	139	5.9	53	3.8	3.5	2.0
10	0.69	1.7	2.3	2.0	8.7	4.5	515	5.1	11	4.1	3.4	1.8
11	72	7.7	25	1.8	4.8	4.1	72	4.6	7.3	9.1	3.6	1.6
12	2.8	56	5.4	1.8	3.7	4.0	17	4.1	8.3	6.6	3.2	1.6
13	27	10	116	1.8	3.9	4.4	10	3.7	6.6	e73	3.3	1.6
14	4.3	4.0	16	1.8	3.4	5.1	7.6	3.5	5.6	e20	144	1.6
15	2.2	3.0	5.5	1.8	4.1	8.3	6.5	22	5.9	e10	18	1.8
16	39	36	3.8	1.8	5.8	116	5.9	12	71	e13	6.1	2.1
17	3.1	32	2.9	2.2	6.7	13	5.4	5.2	30	21	4.4	1.3
18	1.5	7.2	2.4	1.8	12	12	139	8.0	422	4.4	3.7	1.4
19	1.1	4.3	2.2	1.8	8.5	8.3	43	7.7	80	108	3.2	1.5
20	0.95	3.4	13	2.6	5.8	434	15	4.9	20	24	3.1	1.3
21	1.0	2.9	4.3	2.1	4.8	23	10	9.2	8.7	11	3.0	1.2
22	2.6	2.5	2.9	2.0	130	9.9	8.3	289	6.5	7.0	2.8	2.6
23	1.1	2.0	2.4	2.8	19	6.9	6.4	46	5.5	6.1	2.7	5.9
24	0.95	1.8	97	e2.1	6.7	5.7	5.6	17	4.8	4.7	2.4	1.6
25	0.97	1.8	e70	e1.8	4.9	5.1	7.0	179	4.3	3.9	2.3	1.5
26	1.1	e1.6	e10	e2.0	5.5	4.7	47	23	3.9	3.6	2.2	1.4
27	e1.0	e1.5	e5.6	e1.8	57	4.6	11	92	3.7	3.4	2.1	1.4
28	e5.0	1.5	e4.0	e1.5	18	4.1	6.2	11	3.8	3.2	2.4	1.6
29	2.8	1.5	e3.2	e2.3	---	4.2	5.4	7.1	4.0	54	2.6	1.2
30	1.9	1.6	e3.0	63	---	50	4.9	5.8	3.8	13	7.6	1.3
31	1.5	---	2.8	14	---	10	---	28	---	25	e20	---
TOTAL	179.08	231.4	472.5	138.8	382.0	994.4	1,281.6	1,023.3	1,685.1	548.7	318.1	79.8
MEAN	5.78	7.71	15.2	4.48	13.6	32.1	42.7	33.0	56.2	17.7	10.3	2.66
MAX	72	56	116	63	130	434	515	289	531	108	144	10
MIN	0.40	1.1	1.2	1.5	3.4	4.0	4.2	3.5	3.7	3.2	2.1	1.2
CFSM	0.69	0.92	1.82	0.53	1.63	3.83	5.10	3.94	6.71	2.11	1.23	0.32
IN.	0.80	1.03	2.10	0.62	1.70	4.42	5.70	4.55	7.49	2.44	1.41	0.35

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	4.19	2.79	4.82	5.19	7.98	13.5	13.4	9.72	12.4	4.57	3.39	2.82
MAX	10.1	7.71	15.2	7.87	13.6	32.1	42.7	33.0	56.2	17.7	10.3	6.58
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	0.37	0.12	0.79	2.13	2.32	5.24	2.35	1.68	0.44	0.082	0.21	1.22
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2002)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	1,630.88		7,334.78		7.37	
ANNUAL MEAN	4.47		20.1		20.1 2003	
HIGHEST ANNUAL MEAN					2.16 2002	
LOWEST ANNUAL MEAN					531 Jun 7, 2003	
HIGHEST DAILY MEAN	139	Aug 31	531	Jun 7		
LOWEST DAILY MEAN	0.00	Aug 13	0.40	Oct 6	0.00 Aug 13, 2002	
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 9	0.48	Oct 2	0.01 Aug 9, 2002	
MAXIMUM PEAK FLOW			2,670*	Jun 18	2,670* Jun 18, 2003	
MAXIMUM PEAK STAGE			10.27	Jun 18	10.27 Jun 18, 2003	
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.00* Aug 13, 2002	
ANNUAL RUNOFF (CFSM)	0.53		2.40		0.88	
ANNUAL RUNOFF (INCHES)	7.25		32.60		11.97	
10 PERCENT EXCEEDS	7.7		41		10	
50 PERCENT EXCEEDS	1.1		4.6		1.5	
90 PERCENT EXCEEDS	0.05		1.5		0.13	

e Estimated.  
 \* See REMARKS.

