

## 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	1.2	1.5	e3.4	61	e9.1	2.8	0.66	0.81	1.5	1.2
2	1.2	1.2	1.1	1.6	e7.0	42	e3.4	4.4	0.66	0.79	7.1	1.0
3	1.1	1.3	1.1	1.4	15	10	2.7	2.7	0.80	0.78	2.8	0.83
4	1.1	1.2	1.2	1.7	4.2	6.2	2.5	2.4	0.79	0.72	1.6	0.73
5	1.0	1.3	1.8	1.9	3.5	4.8	2.3	2.1	e0.70	9.8	9.5	0.70
6	1.0	1.3	1.4	1.7	69	4.4	2.4	1.9	e0.54	3.5	2.5	0.68
7	1.7	1.3	1.3	1.6	19	3.8	2.1	1.7	0.57	0.82	1.2	274
8	2.8	1.4	1.3	1.8	5.1	3.5	2.1	1.5	0.75	0.57	1.3	196
9	2.0	1.3	1.3	2.1	3.7	3.3	2.0	1.4	1.4	0.54	1.2	6.7
10	1.4	1.3	17	1.9	3.4	3.4	1.8	1.2	0.67	0.47	1.2	2.7
11	9.0	1.4	5.3	1.7	3.2	3.1	1.8	1.1	0.61	2.4	1.3	2.0
12	1.7	1.3	1.9	e1.6	19	3.1	2.4	1.1	0.55	2.4	6.0	1.7
13	1.4	1.3	2.2	e1.7	6.5	2.9	8.6	1.1	0.86	0.63	58	1.4
14	1.3	1.3	23	e1.7	6.0	2.8	3.3	0.94	1.2	0.51	62	1.4
15	1.4	1.4	3.2	e2.0	8.4	2.9	2.3	0.76	1.9	0.42	4.3	1.3
16	1.3	1.3	1.9	e1.7	6.2	3.9	2.0	0.69	1.2	0.38	2.0	1.2
17	1.3	1.3	3.9	e1.5	4.3	3.1	1.9	0.66	0.94	38	1.3	34
18	1.3	1.2	2.2	4.7	3.9	3.0	1.8	0.66	0.61	74	1.1	4.1
19	1.3	4.1	1.7	e2.7	3.7	3.1	1.7	0.65	0.60	1.7	1.2	1.9
20	1.4	1.7	1.6	e2.1	3.6	2.8	1.7	0.66	0.53	1.1	1.3	1.6
21	1.3	1.5	1.4	e2.0	3.7	4.7	e1.6	0.63	1.4	0.86	1.2	1.4
22	1.1	1.3	1.5	e2.1	3.8	3.0	e1.7	0.65	0.90	0.72	1.2	1.3
23	1.1	1.3	1.5	e2.1	4.0	2.7	1.6	0.59	21	0.69	1.1	1.3
24	1.1	1.2	1.9	e2.0	e4.2	2.7	1.6	0.75	26	0.60	0.97	1.2
25	1.1	1.2	1.5	e3.1	e4.2	2.6	1.5	0.59	18	0.52	0.87	1.2
26	1.4	1.5	1.4	e2.7	5.1	2.6	1.6	0.62	8.0	0.49	0.84	1.2
27	e1.7	1.2	1.4	e3.5	10	2.5	1.7	0.67	2.3	31	1.5	72
28	e7.0	1.2	1.3	e4.8	14	2.5	1.5	0.60	1.3	6.3	1.1	544
29	9.4	1.3	1.3	e7.9	26	2.5	1.5	0.58	1.1	82	3.1	8.6
30	1.6	1.2	1.3	e3.9	---	3.2	1.6	0.55	0.92	4.2	2.1	3.6
31	1.3	---	1.3	e3.5	---	6.4	---	0.82	---	1.9	1.9	---
TOTAL	64.1	42.1	91.4	76.2	273.1	208.5	73.8	37.47	97.46	269.62	184.28	1,170.94
MEAN	2.07	1.40	2.95	2.46	9.42	6.73	2.46	1.21	3.25	8.70	5.94	39.0
MAX	9.4	4.1	23	7.9	69	61	9.1	4.4	26	82	62	544
MIN	1.0	1.2	1.1	1.4	3.2	2.5	1.5	0.55	0.53	0.38	0.84	0.68
CFSM	0.25	0.17	0.35	0.29	1.13	0.80	0.29	0.14	0.39	1.04	0.71	4.66
IN.	0.28	0.19	0.41	0.34	1.21	0.93	0.33	0.17	0.43	1.20	0.82	5.20

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	3.77	2.51	4.45	4.64	8.27	12.1	11.2	8.01	10.9	5.26	3.82	8.85
MAX	10.1	7.71	15.2	7.87	13.6	32.1	42.7	33.0	56.2	17.7	10.3	39.0
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.37	0.12	0.79	2.13	2.32	5.24	2.35	1.21	0.44	0.08	0.21	1.22
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2001)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	6,649.4		2,588.97		7.31	
ANNUAL MEAN	18.2		7.07		20.1 2003	
HIGHEST ANNUAL MEAN					2.16 2002	
LOWEST ANNUAL MEAN					544 Sep 28, 2004	
HIGHEST DAILY MEAN	531	Jun 7	544	Sep 28		
LOWEST DAILY MEAN	1.0	Oct 5	0.38	Jul 16	0.00 Aug 13, 2002	
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 30	0.62	May 24	0.01 Aug 9, 2002	
MAXIMUM PEAK FLOW			2,540*	Sep 28	2,670* Jun 18, 2003	
MAXIMUM PEAK STAGE			10.10	Sep 28	10.27 Jun 18, 2003	
INSTANTANEOUS LOW FLOW			0.24	Jul 17	0.00* Aug 13, 2002	
ANNUAL RUNOFF (CFSM)	2.18		0.845		0.874	
ANNUAL RUNOFF (INCHES)	29.55		11.51		11.87	
10 PERCENT EXCEEDS	25		7.3		9.6	
50 PERCENT EXCEEDS	4.1		1.6		1.5	
90 PERCENT EXCEEDS	1.3		0.70		0.18	

\* See REMARKS.  
e Estimated.

