

0214657975 IRVINS CREEK AT SECONDARY ROAD 3168 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 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	1.8	3.6	2.5	3.1	12	14	8.4	13	4.2	2.1	0.67
2	3.9	1.9	3.0	2.6	2.9	6.9	13	4.7	139	3.5	1.4	0.40
3	4.7	2.5	2.9	2.3	25	5.4	9.2	4.1	13	2.1	1.2	0.41
4	3.8	15	2.7	2.4	8.2	4.8	7.5	3.7	6.1	1.9	1.0	0.35
5	3.2	5.2	2.6	2.2	4.6	4.4	6.9	3.8	4.6	1.8	0.90	0.33
6	2.8	3.0	4.5	2.7	3.8	4.2	6.3	4.2	25	1.7	0.91	0.34
7	2.6	2.8	4.7	2.5	4.5	3.8	6.7	3.8	13	9.0	0.94	0.40
8	2.4	2.5	e3.3	2.6	3.6	24	8.4	3.5	4.9	4.1	1.00	0.33
9	2.5	2.4	e4.7	2.5	3.3	7.3	7.2	3.3	3.8	2.0	1.7	0.28
10	2.3	2.3	e40	2.6	3.3	5.5	5.9	9.5	4.7	1.6	1.4	0.30
11	2.3	2.5	e8.0	2.7	3.0	4.9	5.7	8.1	4.0	1.5	1.0	0.28
12	2.3	6.9	e5.0	2.7	2.9	4.2	48	9.8	3.1	1.5	1.3	0.29
13	63	4.3	e4.0	2.8	2.8	4.1	78	9.1	3.3	1.7	1.0	0.27
14	6.4	2.6	3.1	55	9.9	3.8	77	4.9	3.0	1.7	1.0	0.26
15	4.0	2.4	2.9	6.1	5.9	3.6	13	3.9	2.8	1.3	1.2	0.29
16	2.4	2.3	2.8	4.0	3.9	29	9.4	3.4	2.2	1.2	0.85	0.66
17	1.9	2.3	2.7	3.4	3.6	31	7.7	3.2	2.1	1.2	0.70	1.3
18	1.9	2.2	3.0	3.1	3.2	9.5	6.8	3.1	1.9	1.0	2.8	0.70
19	2.0	2.2	2.6	3.0	3.0	6.3	7.4	2.8	1.8	1.6	1.2	0.45
20	1.9	2.3	2.4	3.0	3.2	5.4	5.8	12	1.9	1.9	0.91	0.41
21	2.0	2.2	2.4	3.0	10	4.4	5.4	4.6	1.8	1.1	0.72	0.38
22	2.0	2.2	2.4	2.8	6.2	9.8	5.3	3.3	1.8	0.97	0.68	0.36
23	1.9	6.5	5.5	2.8	4.0	23	5.6	3.0	1.7	1.0	1.6	0.34
24	2.0	8.1	3.4	2.5	20	8.0	5.2	2.8	1.7	0.76	1.4	0.32
25	1.9	6.2	2.8	2.7	6.7	5.7	4.5	2.7	1.6	0.70	0.71	0.18
26	1.8	3.2	2.5	2.8	4.5	4.9	4.4	2.6	4.4	0.69	0.59	0.21
27	1.9	4.5	2.3	2.7	4.5	5.1	4.7	2.4	3.1	0.62	0.54	0.35
28	2.0	15	2.2	2.4	103	112	4.4	2.5	14	3.0	0.62	0.38
29	2.0	4.2	2.2	2.8	---	15	4.1	2.3	4.0	16	0.75	0.32
30	2.0	3.3	2.4	6.9	---	9.9	6.3	3.9	2.4	4.1	1.0	1.2
31	1.9	---	2.6	4.1	---	24	---	3.2	---	5.8	1.1	---
TOTAL	142.2	124.8	139.2	146.2	262.6	401.9	393.8	142.6	289.7	81.24	34.22	12.76
MEAN	4.59	4.16	4.49	4.72	9.38	13.0	13.1	4.60	9.66	2.62	1.10	0.43
MAX	63	15	40	55	103	112	78	12	139	16	2.8	1.3
MIN	1.8	1.8	2.2	2.2	2.8	3.6	4.1	2.3	1.6	0.62	0.54	0.18
CFSM	0.55	0.50	0.54	0.56	1.12	1.55	1.57	0.55	1.15	0.31	0.13	0.05
IN.	0.63	0.55	0.62	0.65	1.17	1.79	1.75	0.63	1.29	0.36	0.15	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	3.90	2.79	4.45	4.66	8.45	12.3	11.5	7.45	10.7	4.88	3.43	7.65
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	0.43
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2001)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1999 - 2005
ANNUAL TOTAL	2,797.57	2,171.22	
ANNUAL MEAN	7.64	5.95	7.08
HIGHEST ANNUAL MEAN			20.1
LOWEST ANNUAL MEAN			2.16
HIGHEST DAILY MEAN	544	Sep 28	544
LOWEST DAILY MEAN	0.38	Jul 16	0.00
ANNUAL SEVEN-DAY MINIMUM	0.62	May 24	0.01
MAXIMUM PEAK FLOW		139	2,670*
MAXIMUM PEAK STAGE		Jun 2	Jun 18, 2003
INSTANTANEOUS LOW FLOW		5.77	10.27
ANNUAL RUNOFF (CFSM)	0.913	0.711	0.846
ANNUAL RUNOFF (INCHES)	12.43	9.65	11.50
10 PERCENT EXCEEDS	8.0	9.5	9.5
50 PERCENT EXCEEDS	2.3	2.9	1.8
90 PERCENT EXCEEDS	0.70	0.71	0.23

\* See REMARKS.

e Estimated.

