



Water-Data Report 2007

0214657975 IRVINS CREEK AT SECONDARY ROAD 3168 NEAR CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°09'31", long 80°42'48" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on right bank at downstream side of Secondary Road 3168 bridge, 4.0 mi southwest of Mint Hill.

DRAINAGE AREA.--8.37 mi².

SURFACE-WATER RECORDS

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, from levels. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 500 ft³/s by step-backwater and culvert analysis. No flow also occurred Aug. 14-15, 2002, September 12, 13, 25-30, 2007.

0214657975 IRVINS CREEK AT SECONDARY ROAD 3168 NEAR CHARLOTTE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.75	1.6	6.2	8.7	23	92	2.5	1.7	0.65	1.9	0.25	0.47
2	0.74	1.5	3.7	5.5	17	389	3.4	1.6	0.64	1.1	0.22	0.32
3	0.72	1.5	3.1	4.1	7.4	14	2.4	1.7	2.7	1.1	0.19	0.33
4	0.74	1.5	2.9	3.7	5.1	7.8	2.4	1.7	0.94	0.95	0.17	0.25
5	0.75	1.6	2.7	26	4.3	5.8	2.1	1.8	0.74	0.88	0.17	0.24
6	0.76	1.6	2.7	27	3.9	5.0	3.0	1.8	0.70	1.1	0.16	0.21
7	0.82	11	2.6	44	3.9	4.5	2.0	1.6	0.63	4.1	0.16	0.15
8	6.8	13	2.5	64	3.7	4.2	2.0	1.6	1.4	1.4	0.15	0.11
9	1.1	3.2	2.5	12	3.4	3.8	2.0	1.6	1.6	1.0	0.12	0.07
10	0.76	2.2	2.5	6.8	3.6	4.0	2.0	1.7	0.67	1.2	0.11	0.04
11	0.74	3.0	2.8	5.3	3.4	3.8	2.8	1.6	0.64	0.80	0.12	0.01
12	2.1	33	2.6	4.7	3.2	3.4	15	1.5	0.67	0.83	0.13	e0.00
13	0.68	3.8	2.4	4.4	44	3.3	3.0	1.6	7.6	0.71	0.11	0.00
14	0.63	2.6	2.5	4.1	42	3.3	2.4	1.3	14	0.66	0.11	0.02
15	0.63	2.3	2.4	4.0	6.9	3.2	119	1.3	2.4	2.5	0.11	0.37
16	0.62	205	2.6	3.8	4.8	8.8	16	1.3	1.1	1.5	0.14	0.28
17	92	11	2.2	3.3	4.0	4.9	5.4	1.2	0.90	0.75	0.11	0.15
18	17	4.8	2.1	4.4	3.5	3.5	3.8	1.1	0.75	0.78	0.12	0.10
19	2.9	3.6	2.2	4.5	3.0	3.2	5.4	1.1	0.70	0.64	0.10	0.07
20	2.1	2.8	2.1	3.6	2.9	3.2	9.3	1.1	0.68	0.58	0.08	0.05
21	1.7	163	2.1	10	2.9	3.0	3.8	1.0	0.67	0.55	0.06	0.04
22	1.5	542	36	27	2.8	2.9	3.1	0.99	0.54	0.51	0.08	0.02
23	1.5	26	11	7.3	2.7	3.0	2.7	0.97	0.53	0.45	0.14	0.01
24	1.4	9.6	4.3	5.5	2.7	2.9	2.5	0.90	2.0	0.44	0.09	0.01
25	1.4	6.2	79	4.6	14	2.8	2.3	0.86	130	0.43	0.07	0.00
26	1.4	4.7	16	4.0	7.0	2.7	2.2	0.85	19	0.42	0.07	0.00
27	7.2	3.9	6.6	3.8	4.0	2.6	2.4	0.80	1.9	48	0.08	0.00
28	42	3.6	4.7	3.6	3.3	2.7	2.4	0.77	1.2	14	0.21	0.00
29	3.3	3.3	3.9	3.2	---	2.7	1.9	0.76	1.0	0.55	0.18	0.00
30	2.1	3.3	3.7	3.2	---	2.5	1.8	0.69	16	0.34	0.17	0.00
31	1.7	---	4.9	3.1	---	2.7	---	0.70	---	0.29	1.3	---
Total	198.54	1,076.2	227.5	319.2	232.4	601.2	231.0	39.19	212.95	90.46	5.28	3.32
Mean	6.40	35.9	7.34	10.3	8.30	19.4	7.70	1.26	7.10	2.92	0.17	0.11
Max	92	542	79	64	44	389	119	1.8	130	48	1.3	0.47
Min	0.62	1.5	2.1	3.1	2.7	2.5	1.8	0.69	0.53	0.29	0.06	0.00
Cfsm	0.77	4.29	0.88	1.23	0.99	2.32	0.92	0.15	0.85	0.35	0.02	0.01
In.	0.88	4.78	1.01	1.42	1.03	2.67	1.03	0.17	0.95	0.40	0.02	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.38	7.01	6.14	5.47	7.75	12.0	9.88	5.90	9.68	4.42	3.70	6.66
Max	10.1	35.9	15.2	10.3	13.6	32.1	42.7	33.0	56.2	17.7	10.3	39.0
(WY)	(2000)	(2007)	(2003)	(2007)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	0.37	0.12	0.79	2.13	2.32	2.82	2.18	1.21	0.44	0.08	0.17	0.11
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2006)	(2006)	(2004)	(2002)	(2002)	(2007)	(2007)

0214657975 IRVINS CREEK AT SECONDARY ROAD 3168 NEAR CHARLOTTE, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2006	Water Year 2007	Water Years 1999 - 2007
Annual total	2,653.17	3,237.24	
Annual mean	7.27	8.87	7.07
Highest annual mean			20.1
Lowest annual mean			2.16
Highest daily mean	542	Nov 22	544
Lowest daily mean	0.28	Jul 21	0.00
Annual seven-day minimum	0.41	Jul 29	0.00
Maximum peak flow		1,700	^a 2,670
Maximum peak stage		8.75	10.27
Instantaneous low flow		^a 0.00	^a 0.00
Annual runoff (cfsm)	0.868	1.06	0.844
Annual runoff (inches)	11.79	14.39	11.47
10 percent exceeds	7.8	11	9.4
50 percent exceeds	2.1	2.2	1.9
90 percent exceeds	0.68	0.13	0.26

^a See Remarks.

