



Water-Data Report 2009

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 bridge on Secondary Road 3168, 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 streamgage.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record and current water year 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, October 1, 2, 6-20, 2007. Minimum discharge for current water year also occurred September 16.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.69	0.52	5.2	1.3	1.4	279	3.7	1.6	2.1	0.78	2.2	0.59
2	0.58	0.44	1.8	1.4	1.5	54	3.5	1.6	1.8	0.72	1.6	0.53
3	0.53	0.58	1.3	1.4	3.5	13	4.4	1.9	1.6	0.69	1.4	0.48
4	0.52	1.1	1.2	14	2.0	6.5	3.1	1.7	5.0	0.67	1.2	0.35
5	0.49	0.60	1.1	3.6	1.6	5.0	2.7	167	19	0.69	1.0	0.35
6	0.48	0.67	1.0	79	1.5	4.1	2.7	43	4.5	0.78	1.0	0.26
7	0.46	0.61	1.00	30	1.5	3.5	2.5	5.8	2.4	0.69	0.93	1.1
8	1.6	0.53	0.95	6.0	1.6	3.1	2.3	3.4	1.9	0.62	0.88	0.27
9	1.7	0.57	0.95	3.2	1.5	2.8	2.3	2.7	1.6	0.79	0.83	0.15
10	0.57	0.62	2.4	2.4	1.4	2.6	3.9	2.3	1.8	0.90	0.79	0.20
11	0.51	0.67	162	2.5	1.6	2.4	14	4.0	5.1	0.66	0.77	0.28
12	0.47	0.64	55	2.0	2.1	2.4	3.2	2.4	3.7	0.61	0.91	0.24
13	0.45	0.79	4.6	1.8	1.9	2.8	2.6	2.0	1.8	1.5	1.2	0.17
14	0.52	6.6	2.7	1.7	1.6	8.1	4.9	2.0	1.5	0.76	1.5	0.12
15	0.50	2.0	2.3	1.6	1.5	24	3.0	7.2	1.4	0.52	1.2	0.09
16	0.54	0.81	2.0	1.5	3.5	14	2.5	8.2	1.6	0.47	2.7	3.0
17	0.92	0.77	1.7	1.4	1.7	7.5	2.2	3.4	8.9	0.46	1.2	0.72
18	6.0	0.74	1.7	1.5	8.0	5.4	2.2	4.2	2.1	0.44	0.72	0.28
19	0.73	0.75	1.6	1.5	7.3	4.8	2.1	2.1	1.7	0.41	0.59	0.24
20	0.52	0.77	2.2	1.6	2.5	8.1	8.4	1.8	1.4	0.37	1.5	0.54
21	0.48	0.81	6.8	1.4	2.2	4.2	2.8	1.8	1.3	0.43	0.93	0.27
22	0.45	0.91	2.6	1.4	1.8	3.6	2.4	1.6	1.2	0.52	0.58	0.20
23	0.44	0.91	1.8	1.4	1.6	3.3	1.9	1.8	1.1	1.8	0.61	0.21
24	0.49	1.0	1.6	1.4	1.6	3.1	1.8	3.9	1.1	1.1	0.67	0.28
25	0.99	1.9	1.7	1.3	1.5	3.1	1.8	80	1.0	0.48	0.58	0.17
26	0.70	1.1	1.5	1.3	1.6	4.5	1.7	18	1.00	0.41	0.55	0.46
27	0.47	0.97	1.5	1.3	2.0	5.2	1.6	17	0.94	1.1	1.2	1.7
28	0.47	0.94	1.6	3.5	43	129	1.6	15	0.88	73	0.53	0.26
29	0.52	1.5	1.7	2.5	---	31	1.6	8.0	0.86	96	0.38	0.22
30	0.45	26	1.5	1.6	---	6.7	1.6	3.2	0.81	13	0.39	0.16
31	0.40	---	1.4	1.5	---	4.4	---	2.4	---	2.4	0.49	---
Total	24.64	56.82	276.40	178.0	104.5	651.2	95.0	421.0	81.09	203.77	31.03	13.89
Mean	0.79	1.89	8.92	5.74	3.73	21.0	3.17	13.6	2.70	6.57	1.00	0.46
Max	6.0	26	162	79	43	279	14	167	19	96	2.7	3.0
Min	0.40	0.44	0.95	1.3	1.4	2.4	1.6	1.6	0.81	0.37	0.38	0.09
Cfsm	0.09	0.23	1.07	0.69	0.45	2.51	0.38	1.62	0.32	0.79	0.12	0.06
In.	0.11	0.25	1.23	0.79	0.46	2.89	0.42	1.87	0.36	0.91	0.14	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.66	5.80	6.12	5.13	7.09	12.7	8.92	6.22	8.23	4.76	4.65	5.70
Max	10.1	35.9	15.2	10.3	13.6	32.1	42.7	33.0	56.2	17.7	16.9	39.0
(WY)	(2000)	(2007)	(2003)	(2007)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2008)	(2004)
Min	0.37	0.10	0.79	1.85	2.32	2.82	2.18	1.21	0.44	0.08	0.17	0.11
(WY)	(2002)	(2008)	(2002)	(2008)	(2002)	(2006)	(2006)	(2004)	(2002)	(2002)	(2007)	(2007)

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

	Calendar Year 2008	Water Year 2009	Water Years 1999 - 2009	
Annual total	1,944.23	2,137.34		
Annual mean	5.31	5.86	6.71	
Highest annual mean			20.1	2003
Lowest annual mean			2.16	2002
Highest daily mean	446 Aug 27	279 Mar 1	544 Sep 28, 2004	
Lowest daily mean	0.08 Jul 3	0.09 Sep 15	0.00 Aug 13, 2002	
Annual seven-day minimum	0.16 Aug 19	0.18 Sep 9	0.00 Sep 25, 2007	
Maximum peak flow		^a 1,240 May 5	^a 2,670 Jun 18, 2003	
Maximum peak stage		7.77 May 5	10.27 Jun 18, 2003	
Instantaneous low flow		^a 0.08 Sep 15	^a 0.00 Aug 13, 2002	
Annual runoff (cfsm)	0.635	0.700	0.801	
Annual runoff (inches)	8.64	9.50	10.89	
10 percent exceeds	6.6	6.7	8.8	
50 percent exceeds	1.1	1.5	1.7	
90 percent exceeds	0.26	0.46	0.21	

^a See Remarks.

