



Water-Data Report 2008

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 station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.06	0.14	1.5	45	1.8	2.4	2.9	0.68	0.11	0.47	2.6
2	0.12	0.10	0.14	0.93	6.8	1.8	1.9	2.3	0.69	0.09	0.29	0.67
3	0.15	0.09	0.17	0.71	2.7	1.5	2.5	2.1	0.59	0.08	0.26	0.54
4	0.06	0.08	0.18	0.63	1.9	77	3.6	2.1	0.56	0.09	0.23	0.48
5	0.02	0.11	0.29	0.65	1.6	36	13	1.6	0.50	0.38	0.22	0.44
6	0.00	0.11	0.20	0.60	1.5	6.0	5.5	1.5	0.44	7.1	0.20	0.51
7	0.00	0.11	0.18	0.57	1.4	24	3.2	1.3	0.40	0.53	0.20	0.47
8	0.00	0.09	0.19	0.54	1.2	21	2.6	1.3	0.38	11	0.20	0.41
9	0.00	0.08	0.18	0.52	1.2	6.7	2.4	1.3	0.35	2.7	0.18	0.41
10	0.00	0.08	0.19	0.74	1.1	4.2	2.1	1.2	0.33	0.82	0.20	2.9
11	0.00	0.07	0.20	1.1	0.99	3.4	1.9	1.5	7.1	1.1	0.15	1.5
12	0.00	0.06	0.20	0.77	1.2	3.0	2.8	1.2	2.2	0.42	0.15	0.59
13	0.00	0.06	0.19	0.61	13	2.8	2.2	1.0	0.34	6.2	1.4	0.49
14	0.00	0.06	0.21	0.57	8.5	2.5	2.0	1.0	0.25	3.7	0.70	0.41
15	0.00	0.19	0.51	0.56	2.7	52	1.8	0.97	0.22	0.63	3.5	0.39
16	0.00	0.17	16	0.50	2.0	19	1.7	1.8	0.21	0.41	1.4	12
17	0.00	0.09	0.56	20	1.7	5.4	1.6	0.97	0.18	0.26	1.5	2.4
18	0.00	0.06	0.32	5.2	8.1	4.1	1.6	0.95	0.15	0.21	0.43	0.78
19	0.01	0.07	0.27	3.7	2.8	13	1.5	1.1	0.13	0.19	0.25	0.56
20	0.01	0.07	0.40	3.6	1.9	12	1.7	0.85	0.13	0.15	0.18	0.50
21	0.21	0.06	1.0	1.6	1.7	4.6	1.6	0.82	0.23	0.11	0.16	0.47
22	0.09	0.08	0.52	1.4	7.3	3.6	1.6	0.78	0.58	6.6	0.15	0.46
23	0.06	0.08	0.72	2.0	3.6	3.0	1.5	0.72	1.5	106	0.13	0.49
24	0.18	0.08	0.72	1.4	2.4	2.7	1.4	0.70	0.23	34	0.12	0.48
25	6.3	0.09	0.40	1.1	2.1	2.5	1.4	0.72	0.15	1.2	0.12	e0.45
26	14	0.12	14	1.0	14	2.3	4.8	0.64	0.13	0.67	56	e20
27	1.0	0.15	1.5	0.96	5.2	2.0	15	0.75	2.8	0.54	446	15
28	0.24	0.17	3.5	0.90	2.7	1.8	104	6.4	0.57	0.40	4.0	2.2
29	0.13	0.16	9.3	0.95	2.1	1.8	15	1.6	0.46	0.35	1.4	1.0
30	0.10	0.14	38	1.2	---	1.7	4.4	0.86	0.17	0.31	1.5	0.79
31	0.08	---	6.7	0.91	---	2.2	---	0.78	---	0.37	1.3	---
Total	22.76	2.94	97.08	57.42	148.39	325.4	208.7	43.71	22.65	186.72	522.99	70.39
Mean	0.73	0.10	3.13	1.85	5.12	10.5	6.96	1.41	0.76	6.02	16.9	2.35
Max	14	0.19	38	20	45	77	104	6.4	7.1	106	446	20
Min	0.00	0.06	0.14	0.50	0.99	1.5	1.4	0.64	0.13	0.08	0.12	0.39
Cfsm	0.09	0.01	0.37	0.22	0.61	1.25	0.83	0.17	0.09	0.72	2.02	0.28
In.	0.10	0.01	0.43	0.26	0.66	1.45	0.93	0.19	0.10	0.83	2.32	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.98	6.24	5.81	5.07	7.45	11.8	9.55	5.40	8.79	4.58	5.02	6.22
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)	(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 2007	Water Year 2008	Water Years 1999 - 2008	
Annual total	1,857.78	1,709.15		
Annual mean	5.09	4.67	6.80	
Highest annual mean			20.1	2003
Lowest annual mean			2.16	2002
Highest daily mean	389	Mar 2	446	Aug 27
Lowest daily mean	0.00	Sep 12	0.00	Oct 1
Annual seven-day minimum	0.00	Sep 25	0.00	Oct 6
Maximum peak flow			a2,100	Aug 27
Maximum peak stage			9.46	Aug 27
Instantaneous low flow			a0.00	Oct 1
Annual runoff (cfsm)	0.608	0.558	0.812	
Annual runoff (inches)	8.26	7.60	11.04	
10 percent exceeds	7.1	6.7	9.1	
50 percent exceeds	0.94	0.75	1.7	
90 percent exceeds	0.06	0.09	0.19	

^aSee Remarks.

