

Water-Data Report 2010

**0214655255 MCALPINE CREEK AT SECONDARY ROAD 3150 NEAR IDLEWILD, NC**

Santee Basin  
Lower Catawba Subbasin

LOCATION.--Lat 35°10'33", long 80°43'09" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on left bank at upstream side of culvert on Secondary Road 3150 (Idlewild Road), 1.5 mi above Irvins Creek, and 1.6 mi southeast of Idlewild.

DRAINAGE AREA.--7.52 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 613.19 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurs at times most years. Maximum discharge for period of record and current water year from rating curve extended above 800 ft<sup>3</sup>/s on basis of culvert computation of peak flow. Maximum peak stage for current water year from crest-stage gage.

## 0214655255 MCALPINE CREEK AT SECONDARY ROAD 3150 NEAR IDLEWILD, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.28	33	2.5	4.5	7.9	4.6	4.5	2.2	111	8.0	4.8	0.92
2	0.27	2.3	59	3.6	36	7.1	4.1	2.2	43	3.3	3.1	0.84
3	0.27	0.92	29	3.2	24	14	3.6	2.7	9.8	2.4	4.9	0.78
4	0.27	0.67	5.8	2.9	9.0	7.8	3.4	e2.2	4.1	2.2	3.0	0.74
5	2.4	0.55	4.3	2.9	251	6.1	3.2	e2.0	2.6	2.0	99	0.67
6	0.63	0.50	3.3	2.9	46	5.6	3.1	e1.9	2.1	1.8	39	0.65
7	0.42	0.46	2.8	2.8	14	5.3	2.8	1.8	2.4	1.7	11	0.65
8	0.38	0.51	15	2.9	9.0	5.0	3.3	1.7	1.4	1.6	4.4	0.64
9	0.38	0.46	90	2.7	9.3	6.9	4.0	1.6	1.2	1.5	3.5	0.68
10	0.48	25	11	2.6	8.2	6.2	2.7	1.5	8.2	1.7	3.1	0.70
11	0.40	200	4.9	2.6	6.1	8.6	2.5	2.2	2.3	1.3	2.6	0.64
12	0.70	74	3.5	2.8	5.8	34	2.5	1.9	1.7	94	2.2	0.84
13	0.61	11	6.1	2.8	8.7	40	2.5	1.7	21	20	1.8	0.60
14	0.64	4.9	4.6	2.4	6.7	12	2.5	1.7	6.9	5.6	25	0.52
15	0.89	3.2	3.8	2.4	12	7.1	2.5	1.8	6.9	3.6	9.7	0.52
16	0.66	2.7	3.1	2.4	8.7	5.4	2.5	2.6	4.3	6.0	2.8	0.47
17	0.65	2.4	2.8	79	6.1	4.7	2.3	12	e3.5	8.6	2.2	0.47
18	0.61	2.4	23	11	5.3	4.3	2.1	5.2	e2.8	6.8	2.3	1.1
19	0.41	2.4	36	5.5	4.9	3.9	2.2	2.9	2.3	4.0	40	0.70
20	0.38	1.9	8.5	4.1	4.7	3.6	2.5	2.3	1.8	3.0	9.4	0.41
21	0.34	1.8	5.1	30	4.6	4.5	3.3	2.1	1.5	4.0	3.4	0.37
22	0.32	2.0	3.9	21	17	5.3	2.4	2.4	1.4	2.8	2.7	0.35
23	0.34	25	3.5	e8.4	9.3	4.0	2.2	2.0	1.3	2.1	2.1	0.35
24	1.2	5.4	3.2	e34	9.3	3.5	2.2	2.1	1.3	4.2	1.7	0.42
25	0.49	3.5	174	e500	8.4	3.4	5.7	2.7	1.2	3.1	1.5	0.34
26	0.31	2.8	21	e15	6.0	3.4	2.7	2.0	1.2	2.3	1.4	1.7
27	11	2.4	7.3	6.5	5.4	3.2	4.1	1.7	1.2	91	1.3	9.1
28	8.6	2.2	4.9	5.2	4.9	6.0	4.1	8.3	1.1	25	1.2	2.5
29	1.2	2.2	4.0	4.5	---	44	2.6	11	1.1	5.2	1.1	5.9
30	0.74	2.4	3.6	6.4	---	7.8	2.3	2.7	77	3.5	1.0	14
31	0.70	---	7.8	8.5	---	5.1	---	30	---	6.8	0.98	---
<b>Total</b>	36.97	418.97	557.3	785.5	548.3	282.4	90.4	121.1	327.6	329.1	292.18	48.57
<b>Mean</b>	1.19	14.0	18.0	25.3	19.6	9.11	3.01	3.91	10.9	10.6	9.43	1.62
<b>Max</b>	11	200	174	500	251	44	5.7	30	111	94	99	14
<b>Min</b>	0.27	0.46	2.5	2.4	4.6	3.2	2.1	1.5	1.1	1.3	0.98	0.34
<b>Cfsm</b>	0.16	1.86	2.39	3.37	2.60	1.21	0.40	0.52	1.45	1.41	1.25	0.22
<b>In.</b>	0.18	2.07	2.76	3.89	2.71	1.40	0.45	0.60	1.62	1.63	1.45	0.24

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.56	6.13	7.42	7.05	8.02	10.8	7.11	5.77	8.05	6.44	6.84	5.95
<b>Max</b>	8.81	25.1	18.3	25.3	19.6	26.1	31.2	31.1	53.5	21.0	23.4	34.4
<b>(WY)</b>	(2000)	(2007)	(2003)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2003)	(2008)	(2004)
<b>Min</b>	0.45	0.24	1.70	1.11	2.78	2.40	2.24	1.12	0.64	0.79	0.48	0.25
<b>(WY)</b>	(2001)	(2008)	(2001)	(2004)	(2006)	(2006)	(2002)	(2004)	(2002)	(2002)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1999 - 2010	
<b>Annual total</b>	2,693.66		3,838.39			
<b>Annual mean</b>	7.38		10.5		7.03	
<b>Highest annual mean</b>					19.2	2003
<b>Lowest annual mean</b>					2.94	2002
<b>Highest daily mean</b>	200	Nov 11	500	Jan 25	654	Jun 7, 2003
<b>Lowest daily mean</b>	0.19	Sep 9	0.27	Oct 2	<sup>a</sup> 0.00	Jul 10, 2002
<b>Annual seven-day minimum</b>	0.26	Sep 3	0.42	Sep 19	0.00	Sep 27, 2007
<b>Maximum peak flow</b>			<sup>a</sup> 2,470	Jan 25	<sup>a</sup> 5,600	Jun 7, 2003
<b>Maximum peak stage</b>			<sup>a</sup> 9.58	Jan 25	13.32	Jun 7, 2003
<b>Instantaneous low flow</b>			0.22	Oct 4	<sup>a</sup> 0.00	Jul 10, 2002
<b>Annual runoff (cfsm)</b>	0.981		1.40		0.934	
<b>Annual runoff (inches)</b>	13.33		18.99		12.69	
<b>10 percent exceeds</b>	11		20		11	
<b>50 percent exceeds</b>	1.9		2.9		2.0	
<b>90 percent exceeds</b>	0.41		0.64		0.35	

<sup>a</sup> See Remarks.

