

Water-Data Report 2009

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 mi².

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. Radio 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 ft³/s on basis of culvert computation of peak flow. Minimum discharge for current water year also occurred September 16.

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

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.6	1.9	11	e1.3	1.4	149	3.5	1.2	1.9	0.64	2.5	0.47
2	1.4	1.5	4.3	e1.3	1.7	49	3.2	1.7	1.9	0.62	2.1	0.37
3	1.3	1.3	3.1	1.2	4.6	15	4.4	1.6	1.8	0.59	1.6	0.32
4	1.2	2.9	2.8	20	2.2	7.8	3.0	5.9	11	0.57	1.3	0.30
5	1.1	2.5	2.5	4.7	1.6	5.5	2.7	187	45	0.60	1.1	0.29
6	1.1	2.3	1.9	67	1.4	4.5	2.8	36	9.6	0.65	1.2	0.26
7	1.0	2.0	1.9	31	1.4	3.8	2.4	5.8	3.7	0.64	0.81	0.23
8	5.6	1.9	1.7	7.1	1.4	3.6	2.2	3.3	2.6	0.60	0.74	0.20
9	3.9	1.7	1.8	3.6	1.3	3.2	2.1	2.6	2.2	1.2	0.69	0.19
10	2.1	1.8	5.0	2.8	2.0	2.8	6.2	2.0	1.9	0.95	0.63	0.47
11	1.6	2.1	123	2.7	2.1	2.6	13	2.2	3.6	0.66	0.53	0.40
12	1.3	2.3	54	2.1	2.3	2.2	3.7	1.9	3.5	0.62	0.56	0.29
13	1.2	3.8	6.7	1.9	1.5	2.8	2.8	1.6	2.6	2.4	0.74	0.24
14	1.2	10	3.6	1.8	1.7	9.9	4.7	1.5	1.8	0.89	0.56	0.22
15	1.2	4.6	3.3	1.6	1.4	21	2.9	2.2	1.5	0.62	0.55	0.19
16	1.1	2.3	2.6	1.5	3.4	12	2.4	8.5	1.5	0.55	1.7	8.1
17	1.9	1.8	2.1	1.4	1.8	6.8	1.9	3.2	8.9	0.51	1.5	1.3
18	4.7	1.8	1.9	1.6	7.6	4.5	1.8	4.3	2.5	0.48	0.89	0.53
19	1.5	1.9	1.7	1.6	6.6	4.4	1.6	2.0	2.0	0.42	0.74	0.41
20	1.4	1.9	2.7	1.8	2.9	7.0	10	1.7	1.6	0.40	6.0	1.5
21	1.3	1.9	7.2	1.6	2.1	3.6	3.0	1.4	1.3	0.41	1.4	0.40
22	1.3	1.9	2.8	1.5	1.8	3.0	2.0	1.3	1.0	1.4	0.77	e0.35
23	1.3	2.1	2.0	1.4	1.6	2.8	1.5	2.1	0.87	13	0.62	e0.38
24	1.5	2.2	2.0	1.4	1.5	2.7	1.4	9.6	0.91	4.6	0.61	e0.57
25	e2.0	3.7	2.1	1.3	1.5	2.8	1.3	90	0.90	1.6	0.51	e0.38
26	e1.7	2.0	1.7	1.3	1.4	3.8	1.3	25	0.89	1.1	0.45	e1.9
27	1.5	1.9	2.1	1.3	1.9	4.7	1.4	7.7	0.82	8.9	0.41	e3.7
28	1.5	1.8	2.3	3.5	30	59	1.3	6.2	0.73	117	0.39	e0.88
29	1.4	2.5	2.7	2.9	---	25	1.2	4.8	0.68	101	0.40	0.46
30	1.5	41	2.0	1.8	---	6.3	1.3	2.8	0.65	8.0	0.39	0.35
31	1.6	---	1.6	1.5	---	4.2	---	2.2	---	3.3	0.41	---
Total	54.0	113.3	266.1	177.5	92.1	435.3	93.0	429.3	119.85	274.92	32.80	25.65
Mean	1.74	3.78	8.58	5.73	3.29	14.0	3.10	13.8	4.00	8.87	1.06	0.85
Max	5.6	41	123	67	30	149	13	187	45	117	6.0	8.1
Min	1.0	1.3	1.6	1.2	1.3	2.2	1.2	1.2	0.65	0.40	0.39	0.19
Cfsm	0.23	0.50	1.14	0.76	0.44	1.87	0.41	1.84	0.53	1.18	0.14	0.11
In.	0.27	0.56	1.32	0.88	0.46	2.15	0.46	2.12	0.59	1.36	0.16	0.13

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	3.79	5.35	6.36	5.23	6.87	10.9	7.52	5.95	7.79	6.06	6.61	6.34
Max	8.81	25.1	18.3	9.20	12.1	26.1	31.2	31.1	53.5	21.0	23.4	34.4
(WY)	(2000)	(2007)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2008)	(2004)
Min	0.45	0.24	1.70	1.11	2.78	2.40	2.24	1.12	0.64	0.79	0.48	0.25
(WY)	(2001)	(2008)	(2001)	(2004)	(2006)	(2006)	(2002)	(2004)	(2002)	(2002)	(2007)	(2005)

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

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1999 - 2009	
Annual total	2,161.02		2,113.82			
Annual mean	5.90		5.79		6.68	
Highest annual mean					19.2	2003
Lowest annual mean					2.94	2002
Highest daily mean	582	Aug 27	187	May 5	654	Jun 7, 2003
Lowest daily mean	0.00	Aug 11	0.19	Sep 9	0.00	Jul 10, 2002
Annual seven-day minimum	0.04	Aug 6	0.26	Sep 3	0.00	Sep 27, 2007
Maximum peak flow			^a 1,690	May 5	^a 5,600	Jun 7, 2003
Maximum peak stage			8.31	May 5	13.32	Jun 7, 2003
Instantaneous low flow			^a 0.17	Sep 15	^a 0.00	Jul 10, 2002
Annual runoff (cfsm)	0.785		0.770		0.888	
Annual runoff (inches)	10.69		10.46		12.06	
10 percent exceeds	8.7		7.7		11	
50 percent exceeds	1.8		1.8		1.9	
90 percent exceeds	0.44		0.54		0.32	

^a See Remarks.

