

Water-Data Report 2008

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 station.

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.

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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	0.79	0.11	3.4	41	1.7	2.4	2.7	0.92	0.28	0.53	3.0
2	0.00	0.44	0.10	1.9	8.9	2.5	1.8	2.2	0.74	0.19	0.24	2.1
3	0.00	0.42	0.09	1.4	3.7	2.2	2.6	1.8	0.72	0.13	0.17	1.8
4	0.00	0.36	0.10	1.1	2.6	28	3.3	1.7	0.78	0.09	0.13	1.5
5	0.00	0.31	0.09	1.1	2.1	23	9.4	1.4	0.61	0.29	0.10	1.3
6	0.00	0.25	0.09	0.96	1.9	5.2	4.4	1.3	0.51	8.8	0.08	1.2
7	0.00	0.22	0.10	1.8	1.7	15	2.9	1.1	0.46	1.8	0.09	1.0
8	0.00	0.28	e0.11	1.8	1.5	9.9	2.3	1.0	0.43	15	0.07	0.92
9	0.00	0.26	e0.10	1.4	1.6	4.3	2.0	1.1	0.39	6.9	0.03	0.92
10	0.00	0.20	e0.11	1.4	1.6	3.0	1.8	1.00	0.38	5.3	0.01	26
11	0.00	0.20	e0.11	2.3	1.2	2.4	1.6	1.6	2.0	2.8	0.00	10
12	0.00	0.12	e0.09	1.5	1.7	2.1	5.5	0.96	2.0	1.1	0.00	3.2
13	0.00	0.13	e0.10	1.2	17	1.8	3.0	0.86	0.63	13	2.4	2.1
14	0.00	0.14	e0.11	1.1	11	1.7	2.1	0.89	0.48	6.2	0.67	1.6
15	0.00	0.44	0.85	0.96	3.7	56	1.7	0.89	0.48	1.5	5.8	1.3
16	0.00	0.39	19	0.88	2.6	23	1.4	2.1	0.44	0.77	1.7	69
17	0.00	0.22	2.1	18	2.6	5.6	1.4	1.0	0.39	0.51	2.7	16
18	0.00	0.15	1.1	6.9	5.2	3.5	1.3	0.92	0.28	0.41	1.0	4.0
19	1.5	0.15	0.84	6.7	2.5	11	1.3	1.2	0.21	0.34	0.48	2.3
20	0.51	0.12	0.74	5.3	1.9	8.6	2.1	0.85	0.21	0.30	0.35	1.7
21	0.23	0.10	2.1	2.9	1.7	3.4	1.5	0.84	2.0	0.38	0.28	1.5
22	0.13	0.12	1.1	2.7	6.3	2.5	1.3	0.74	6.3	4.7	0.27	1.3
23	0.11	0.12	3.0	3.2	3.2	2.1	1.2	0.66	13	11	0.26	1.2
24	2.7	0.15	2.1	2.2	2.3	1.9	1.1	0.67	2.7	2.8	0.26	0.98
25	15	0.12	1.2	1.7	2.0	1.8	1.1	0.66	1.3	0.99	0.92	0.83
26	15	0.19	19	e1.6	12	1.7	3.7	0.59	0.90	0.74	98	22
27	3.5	0.32	4.9	e1.4	4.6	2.2	8.5	0.58	0.74	0.58	582	29
28	1.7	0.22	5.4	e1.3	2.4	2.1	51	10	0.56	0.44	9.7	5.2
29	1.2	0.15	8.5	e1.3	1.9	1.7	12	3.1	0.57	0.40	6.4	2.5
30	1.0	0.14	29	e1.7	---	1.6	4.1	1.7	0.40	0.34	6.6	1.9
31	0.92	---	11	1.1	---	2.3	---	1.2	---	0.41	3.5	---
Total	43.50	7.22	113.34	82.20	152.4	233.8	139.8	47.31	41.53	88.49	724.74	217.35
Mean	1.40	0.24	3.66	2.65	5.26	7.54	4.66	1.53	1.38	2.85	23.4	7.25
Max	15	0.79	29	18	41	56	51	10	13	15	582	69
Min	0.00	0.10	0.09	0.88	1.2	1.6	1.1	0.58	0.21	0.09	0.00	0.83
Cfsm	0.19	0.03	0.49	0.35	0.70	1.00	0.62	0.20	0.18	0.38	3.11	0.96
In.	0.22	0.04	0.56	0.41	0.75	1.16	0.69	0.23	0.21	0.44	3.59	1.08

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	4.02	5.52	6.12	5.17	7.27	10.6	8.01	5.07	8.17	5.78	7.16	6.89
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)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1999 - 2008	
Annual total	1,420.16		1,891.68			
Annual mean	3.89		5.17		6.78	
Highest annual mean					19.2	2003
Lowest annual mean					2.94	2002
Highest daily mean	172	Mar 2	582	Aug 27	654	Jun 7, 2003
Lowest daily mean	0.00	Sep 27	0.00	Oct 1	0.00	Jul 10, 2002
Annual seven-day minimum	0.00	Sep 27	0.00	Oct 1	0.00	Sep 27, 2007
Maximum peak flow			^a 3,200	Aug 27	^a 5,600	Jun 7, 2003
Maximum peak stage			10.57	Aug 27	13.32	Jun 7, 2003
Instantaneous low flow			^a 0.00	Oct 1	^a 0.00	Jul 10, 2002
Annual runoff (cfs)	0.517		0.687		0.901	
Annual runoff (inches)	7.03		9.36		12.24	
10 percent exceeds	6.5		8.8		12	
50 percent exceeds	1.1		1.3		1.9	
90 percent exceeds	0.09		0.10		0.29	

^aSee Remarks.