

Water-Data Report 2007

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.--No estimated daily discharges. Records fair. No flow also occurred July 11, August 13-14, 2002, August 22, September 14, 27-30, 2007. Maximum discharge for period of record 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.68	2.1	6.9	9.2	20	56	2.7	1.6	0.67	1.8	0.84	2.1
2	0.73	2.2	4.0	5.5	17	172	2.9	1.8	0.64	1.1	0.68	1.4
3	0.64	2.1	2.9	3.9	6.9	12	2.2	1.5	3.8	0.85	0.52	0.53
4	0.66	2.3	2.5	3.6	4.7	6.4	2.1	1.7	1.1	0.75	0.47	0.50
5	0.65	2.4	2.3	29	3.9	5.3	1.9	1.8	0.78	0.66	0.46	0.27
6	0.70	3.4	2.2	21	3.2	4.3	1.8	1.8	0.70	0.81	0.42	0.24
7	0.80	16	2.1	32	3.2	3.6	1.7	1.4	0.64	1.3	0.40	0.21
8	8.9	20	1.9	47	2.9	3.2	1.7	1.3	0.83	0.84	0.39	0.24
9	2.4	5.6	1.8	11	2.8	2.9	1.8	1.4	1.1	0.96	0.33	0.22
10	1.3	3.3	2.6	6.2	2.7	3.0	1.8	1.8	0.56	1.6	0.27	0.20
11	0.90	9.2	2.6	4.4	2.9	2.9	3.2	1.4	0.53	0.59	0.24	0.12
12	1.4	35	2.3	4.0	2.7	2.6	15	1.6	0.67	1.3	0.22	0.07
13	0.74	6.1	2.2	3.7	58	2.6	3.5	1.6	2.9	0.76	0.24	0.04
14	0.70	3.9	2.0	3.7	53	2.5	2.7	1.3	5.4	0.62	0.22	0.02
15	0.73	3.8	2.0	3.5	8.9	2.5	88	1.1	2.6	1.9	0.17	1.4
16	0.74	124	1.9	3.4	5.5	9.5	16	1.1	1.3	1.7	0.14	0.52
17	63	12	1.9	2.8	4.6	4.9	5.0	1.0	0.97	0.81	0.09	0.28
18	23	4.8	2.0	4.0	4.0	3.3	3.8	0.89	0.78	1.1	0.07	0.15
19	4.3	3.7	2.0	4.0	3.4	2.8	5.3	0.82	0.68	0.77	0.06	0.10
20	3.3	3.0	1.9	3.2	3.3	2.6	7.7	0.86	0.64	0.67	0.04	0.12
21	2.3	115	1.9	10	3.5	2.5	3.5	0.86	0.60	0.52	0.01	0.10
22	2.0	318	29	23	3.2	2.5	2.7	0.76	0.48	0.47	0.45	0.12
23	2.0	23	13	6.7	2.9	2.5	2.4	0.74	0.47	0.44	0.74	0.10
24	1.7	7.9	4.6	4.5	2.9	2.5	2.2	0.72	0.56	0.41	0.55	0.08
25	1.6	5.0	61	3.7	17	2.6	2.2	0.70	26	0.43	0.37	0.06
26	1.6	4.0	16	3.0	9.5	2.7	1.9	0.69	12	0.85	0.97	0.03
27	8.9	3.5	6.4	3.0	5.0	2.7	2.4	0.79	2.9	17	1.8	0.00
28	28	3.2	4.3	3.7	3.9	2.5	2.0	0.91	1.8	11	0.52	0.00
29	4.5	4.3	3.6	3.1	---	2.7	2.0	0.75	1.3	2.2	0.30	0.00
30	2.9	3.5	3.2	2.7	---	2.4	1.7	1.0	6.3	1.4	0.51	0.00
31	2.3	---	4.4	2.6	---	2.2	---	0.79	---	1.1	2.4	---
Total	174.07	752.3	197.4	271.1	261.5	332.7	193.8	36.48	79.70	56.71	14.89	9.22
Mean	5.62	25.1	6.37	8.75	9.34	10.7	6.46	1.18	2.66	1.83	0.48	0.31
Max	63	318	61	47	58	172	88	1.8	26	17	2.4	2.1
Min	0.64	2.1	1.8	2.6	2.7	2.2	1.7	0.69	0.47	0.41	0.01	0.00
Cfsm	0.75	3.33	0.85	1.16	1.24	1.43	0.86	0.16	0.35	0.24	0.06	0.04
In.	0.86	3.72	0.98	1.34	1.29	1.65	0.96	0.18	0.39	0.28	0.07	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.35	6.18	6.43	5.48	7.52	11.0	8.43	5.52	8.92	6.11	5.36	6.85
Max	8.81	25.1	18.3	9.20	12.1	26.1	31.2	31.1	53.5	21.0	15.2	34.4
(WY)	(2000)	(2007)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2006)	(2004)
Min	0.45	0.82	1.70	1.11	2.78	2.40	2.24	1.12	0.64	0.79	0.48	0.25
(WY)	(2001)	(2002)	(2001)	(2004)	(2006)	(2006)	(2002)	(2004)	(2002)	(2002)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007	
Annual total	2,472.90		2,379.87			
Annual mean	6.78		6.52		6.98	
Highest annual mean					19.2	2003
Lowest annual mean					2.94	2002
Highest daily mean	318	Nov 22	318	Nov 22	654	Jun 7, 2003
Lowest daily mean	0.09	Aug 3	0.00	Sep 27	0.00	Jul 10, 2002
Annual seven-day minimum	0.15	Jul 14	0.02	Sep 24	0.01	Aug 9, 2002
Maximum peak flow			761	Nov 21	^a 5,600	Jun 7, 2003
Maximum peak stage			6.21	Nov 21	13.32	Jun 7, 2003
Instantaneous low flow			^a 0.00	Aug 21	^a 0.00	Jul 10, 2002
Annual runoff (cfsm)	0.901		0.867		0.928	
Annual runoff (inches)	12.23		11.77		12.61	
10 percent exceeds	9.3		10		12	
50 percent exceeds	2.0		2.1		2.0	
90 percent exceeds	0.66		0.29		0.35	

^a See Remarks.

