

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC

LOCATION.--Lat 35°10'33", long 80°43'09", Mecklenburg County, Hydrologic Unit 03050103, on left bank at upstream side of culvert on State Road 3120 (Idlewild Road), 1.5 mi above Irvins Creek, and 1.6 mi southeast of Idlewild.

DRAINAGE AREA.--7.52 mi².

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. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Sept. 22, 27. No flow also occurred July 11, Aug. 13-14, 2002. Maximum discharge for period of record from rating curve extended above 800 ft³/s on basis of culvert computation of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.8	3.6	2.1	3.0	13	13	6.9	12	14	3.7	0.50
2	2.8	1.8	2.6	2.3	2.5	6.3	9.6	2.9	90	10	1.8	0.37
3	3.6	2.2	2.4	2.3	27	4.7	6.0	2.1	12	2.7	1.2	0.29
4	3.3	23	2.3	2.3	9.7	3.8	4.6	1.9	4.5	1.8	0.94	0.26
5	2.8	7.6	2.2	2.3	4.5	3.4	4.1	1.8	3.0	1.4	0.83	0.24
6	2.5	3.0	4.1	2.3	3.3	3.1	3.8	2.1	2.3	1.1	0.77	0.24
7	2.1	2.3	4.2	2.4	2.9	4.3	4.2	1.8	2.5	21	0.70	0.22
8	2.0	2.0	2.9	2.6	2.7	29	6.5	1.8	2.4	9.2	0.64	e0.26
9	1.9	1.9	3.1	2.4	2.7	7.4	5.0	1.8	1.7	2.7	2.0	e0.25
10	1.9	1.8	44	2.4	2.8	4.4	3.7	5.3	3.0	1.7	1.5	0.21
11	1.8	1.8	9.6	2.2	2.5	4.1	3.3	6.2	2.1	1.6	0.86	0.18
12	1.7	9.5	4.7	2.2	2.2	3.4	40	12	1.4	1.5	0.91	0.17
13	72	6.4	3.5	2.3	2.4	3.0	81	12	1.3	1.5	0.62	0.14
14	6.7	2.9	2.8	56	11	3.0	52	3.7	1.2	1.3	0.59	0.15
15	3.3	2.3	2.4	7.4	6.5	2.6	11	2.5	1.0	1.0	0.55	0.13
16	2.6	2.1	2.4	4.2	3.7	27	6.5	2.2	0.92	0.90	0.53	0.24
17	2.1	2.0	2.5	3.3	3.0	32	4.9	1.8	0.80	0.81	0.46	0.55
18	2.1	2.0	2.5	2.7	2.6	9.3	3.9	1.5	0.78	0.68	2.2	0.23
19	1.8	1.9	2.5	2.6	2.3	5.4	3.8	1.4	0.77	0.65	0.86	0.15
20	1.8	2.0	2.2	2.7	2.8	4.9	3.2	12	0.89	1.0	0.65	0.14
21	1.7	2.0	2.0	2.6	11	3.7	3.0	3.3	0.79	0.60	0.53	0.11
22	1.7	2.0	2.1	2.3	6.0	12	3.6	1.9	0.74	1.4	0.45	0.12
23	1.7	5.6	8.5	2.2	3.6	28	4.0	1.6	0.68	1.4	3.5	0.12
24	2.1	13	4.3	2.0	19	7.9	2.8	1.3	0.64	0.69	1.6	0.20
25	1.9	9.5	2.9	2.0	7.0	4.8	2.5	1.0	0.63	0.56	0.71	0.18
26	1.8	3.3	2.5	2.1	4.0	3.9	2.2	1.0	3.2	0.50	0.52	0.14
27	1.8	5.7	2.2	2.0	4.5	4.0	2.3	0.97	2.0	0.43	0.46	0.12
28	2.2	14	2.1	1.9	74	76	2.1	1.6	12	6.7	0.39	0.18
29	2.1	4.6	2.1	2.4	---	13	2.1	1.4	3.7	36	0.34	0.75
30	2.8	3.2	2.1	9.7	---	7.1	5.2	2.8	1.9	9.1	2.7	0.74
31	1.9	---	2.1	4.5	---	23	---	1.7	---	8.9	1.4	---
TOTAL	143.7	143.2	139.4	142.7	229.2	357.5	299.9	102.27	170.84	142.82	34.91	7.58
MEAN	4.64	4.77	4.50	4.60	8.19	11.5	10.0	3.30	5.69	4.61	1.13	0.25
MAX	72	23	44	56	74	76	81	12	90	36	3.7	0.75
MIN	1.7	1.8	2.0	1.9	2.2	2.6	2.1	0.97	0.63	0.43	0.34	0.11
CFM	0.62	0.63	0.60	0.61	1.09	1.53	1.33	0.44	0.76	0.61	0.15	0.03
IN.	0.71	0.71	0.69	0.71	1.13	1.77	1.48	0.51	0.85	0.71	0.17	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	4.14	3.59	5.51	4.96	8.01	12.4	9.76	6.90	10.1	7.39	4.66	7.90
MAX	8.81	8.95	18.3	9.20	12.1	26.1	31.2	31.1	53.5	21.0	12.8	34.4
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.45	0.82	1.70	1.11	3.02	5.35	2.24	1.12	0.64	0.79	0.63	0.25
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2000)	(2002)	(2004)	(2002)	(2002)	(2001)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	2,868.18		1,914.02		7.33	
ANNUAL MEAN	7.84		5.24		2.94	
HIGHEST ANNUAL MEAN					19.2	2003
LOWEST ANNUAL MEAN					2.94	2002
HIGHEST DAILY MEAN	385	Sep 28	90	Jun 2	654	Jun 7, 2003
LOWEST DAILY MEAN	0.11	Jun 3	0.11	Sep 21	0.00	Jul 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.19	Jun 2	0.14	Sep 21	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			423	Oct 13	5,600*	Jun 7, 2003
MAXIMUM PEAK STAGE			5.05	Oct 13	13.32	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.10*	Sep 21	0.00*	Jul 10, 2002
ANNUAL RUNOFF (CFSM)	1.04		0.697		0.975	
ANNUAL RUNOFF (INCHES)	14.19		9.47		13.24	
10 PERCENT EXCEEDS	12		9.8		13	
50 PERCENT EXCEEDS	2.1		2.3		2.0	
90 PERCENT EXCEEDS	0.39		0.53		0.33	

* See REMARKS.

e Estimated.

