

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 June 2-4, 6-7, 12, 21, and Aug. 11. No flow also occurred July 11, Aug. 13-14, 2002. Maximum discharge for current water year and 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0.74	1.5	0.83	0.41	40	15	1.6	0.37	0.73	0.81	2.3
2	1.2	0.72	1.3	0.72	0.37	28	4.8	7.9	0.17	0.79	9.0	1.3
3	1.1	0.72	1.2	0.75	11	11	3.1	3.0	0.11	0.71	2.8	1.5
4	1.2	0.66	1.9	0.74	2.0	6.4	2.6	1.4	0.19	0.87	0.89	0.62
5	1.1	0.59	3.6	2.1	1.0	4.7	2.2	1.0	0.25	16	1.1	0.51
6	1.1	0.94	1.7	1.7	52	4.0	2.1	1.5	0.15	6.1	0.66	0.55
7	1.7	1.4	1.9	0.81	22	4.2	2.3	1.9	0.16	0.80	0.39	204
8	6.0	2.5	1.6	0.63	5.4	4.4	2.1	2.4	0.30	0.33	0.31	211
9	3.3	e1.8	1.8	1.1	3.4	3.3	2.0	1.6	1.5	0.21	0.26	18
10	1.8	e1.2	23	0.81	3.1	3.4	1.7	e1.1	0.36	0.19	0.19	7.6
11	16	e0.90	11	0.61	2.5	2.9	1.6	e0.84	0.21	4.2	0.18	5.0
12	3.4	e0.74	2.9	0.54	20	2.9	3.1	e0.93	0.19	5.4	7.0	4.1
13	1.9	e0.60	4.2	0.53	7.9	2.6	13	0.81	1.1	0.83	78	3.2
14	1.7	e0.54	30	0.50	7.1	2.6	5.5	0.73	2.1	0.38	81	3.2
15	1.9	e0.52	5.9	0.50	10	3.2	2.6	0.72	1.9	0.27	e12	2.3
16	1.7	e0.75	2.8	0.43	7.6	7.1	2.0	0.61	1.1	0.26	e6.3	2.9
17	1.7	e0.68	7.3	0.41	4.4	3.8	e1.9	0.63	0.62	97	e2.8	35
18	1.6	e0.65	3.0	1.6	3.5	3.3	e1.8	0.58	0.48	169	e2.1	13
19	1.6	e4.0	2.0	0.79	2.9	4.2	e1.7	0.44	0.25	6.1	e1.7	6.1
20	1.6	e1.8	1.4	0.51	2.6	3.3	e1.9	0.41	0.23	2.5	0.74	3.4
21	1.0	e0.95	1.2	0.53	2.3	8.0	1.4	0.39	4.9	1.4	0.74	2.8
22	0.98	0.78	1.2	0.49	2.0	3.5	1.2	0.31	0.63	e1.4	1.0	2.4
23	0.84	0.81	1.0	0.55	1.9	2.6	1.2	0.29	20	e1.7	0.63	1.3
24	0.71	1.0	1.4	0.51	2.1	2.2	0.91	0.42	28	e1.4	0.46	1.2
25	0.58	1.2	0.93	e1.6	1.8	2.1	0.83	0.31	17	e1.2	0.39	1.1
26	0.59	1.2	0.78	e2.5	2.8	2.2	0.90	0.26	15	e1.0	0.33	1.1
27	0.78	1.8	0.71	e3.4	13	2.1	1.2	0.22	2.4	109	0.28	85
28	5.3	1.3	0.81	e6.1	22	2.1	0.71	0.18	0.98	31	0.28	385
29	13	1.4	1.1	0.82	28	2.0	0.58	0.45	0.76	13	8.7	19
30	2.1	1.2	1.0	0.67	---	3.9	0.57	0.23	0.67	4.2	12	e7.0
31	1.0	---	1.0	0.49	---	11	---	1.6	---	1.7	12	---
TOTAL	79.78	34.09	121.13	34.27	245.08	187.0	82.50	34.76	102.08	479.67	245.04	1,031.48
MEAN	2.57	1.14	3.91	1.11	8.45	6.03	2.75	1.12	3.40	15.5	7.90	34.4
MAX	16	4.0	30	6.1	52	40	15	7.9	28	169	81	385
MIN	0.58	0.52	0.71	0.41	0.37	2.0	0.57	0.18	0.11	0.19	0.18	0.51
CFSM	0.34	0.15	0.52	0.15	1.12	0.80	0.37	0.15	0.45	2.06	1.05	4.57
IN.	0.39	0.17	0.60	0.17	1.21	0.93	0.41	0.17	0.50	2.37	1.21	5.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	4.04	3.35	5.72	5.03	7.97	12.6	9.71	7.61	10.8	7.85	5.25	9.18
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	2.44
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2000)	(2002)	(2004)	(2002)	(2002)	(2001)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	6,160.82		2,676.88		7.75	
ANNUAL MEAN	16.9		7.31		2.94	
HIGHEST ANNUAL MEAN					19.2	2003
LOWEST ANNUAL MEAN					2.94	2002
HIGHEST DAILY MEAN	654	Jun 7	385	Sep 28	654	Jun 7, 2003
LOWEST DAILY MEAN	0.52	Nov 15	0.11	Jun 3	0.00	Jul 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.64	Nov 12	0.19	Jun 2	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			1,580*	Sep 28	5,600*	Jun 7, 2003
MAXIMUM PEAK STAGE			7.79	Sep 28	13.32	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.09*	Jun 2	0.00*	Jul 10, 2002
ANNUAL RUNOFF (CFSM)	2.24		0.973		1.03	
ANNUAL RUNOFF (INCHES)	30.48		13.24		14.00	
10 PERCENT EXCEEDS	34		12		14	
50 PERCENT EXCEEDS	4.3		1.6		1.9	
90 PERCENT EXCEEDS	1.0		0.39		0.31	

* See REMARKS.
e Estimated.

