

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 Oct. 9. 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.80	1.8	2.2	4.1	6.8	17	7.3	3.3	15	5.7	14	3.6
2	0.52	1.6	2.1	3.4	4.4	e20	5.5	4.5	5.7	67	5.7	2.9
3	0.50	1.4	2.2	4.0	3.5	e9.0	4.7	3.7	34	15	16	2.3
4	0.37	1.4	3.6	2.9	4.3	7.1	4.5	3.7	20	8.1	21	3.1
5	0.38	11	59	2.4	3.1	9.6	7.1	3.5	7.1	5.8	114	2.8
6	0.39	31	14	2.3	5.8	e90	5.2	88	6.4	4.8	34	2.2
7	0.38	4.2	6.9	2.1	29	e13	134	17	654	4.2	11	2.6
8	0.35	2.5	4.0	2.0	7.3	9.3	39	9.4	369	3.8	8.2	1.8
9	0.56	2.1	2.9	2.0	4.6	6.7	106	5.6	69	6.2	6.7	1.2
10	0.54	2.0	2.5	2.1	11	5.1	312	4.0	22	4.4	6.0	1.1
11	72	10	31	2.1	5.4	4.4	51	3.3	15	12	5.2	0.97
12	4.3	65	e9.5	3.3	3.9	3.9	15	2.9	42	8.8	4.1	0.90
13	47	15	e150	2.4	3.0	4.0	8.0	2.4	24	51	5.5	0.94
14	6.6	e3.4	19	2.1	3.4	4.4	5.8	2.4	12	13	63	0.82
15	4.6	e2.1	6.4	1.9	4.6	12	4.6	8.4	9.7	7.3	20	3.6
16	49	38	4.2	1.9	6.1	97	4.1	6.2	56	7.8	9.0	2.3
17	4.4	37	3.1	2.6	8.8	17	3.9	3.1	38	17	5.8	0.88
18	1.7	9.2	2.6	e1.9	16	15	111	6.9	65	7.7	4.4	0.91
19	1.3	4.7	2.6	e1.8	11	11	33	5.7	55	100	3.8	1.4
20	1.1	3.2	31	e1.8	7.0	302	12	3.5	21	43	3.9	1.1
21	1.3	2.7	7.2	e2.7	5.3	26	8.9	38	12	17	e3.7	1.2
22	3.3	2.5	4.0	2.4	70	11	7.0	253	9.1	17	e3.1	7.2
23	1.3	2.4	3.0	3.3	21	7.7	5.1	41	7.2	9.4	e3.4	16
24	0.94	2.1	91	2.7	8.1	6.5	4.3	23	6.0	6.4	e3.0	3.3
25	0.91	2.1	74	2.6	6.1	5.4	6.5	106	5.1	4.5	e2.5	2.1
26	1.1	2.0	11	2.6	8.4	4.8	13	22	4.6	21	e3.0	2.1
27	1.0	2.0	5.7	2.5	51	4.5	5.9	236	4.2	7.0	e2.5	2.4
28	11	1.9	4.2	2.1	21	4.1	4.6	16	5.3	4.0	e2.3	4.2
29	7.6	1.9	3.5	2.8	---	4.0	3.8	6.6	5.8	117	e2.1	1.8
30	3.9	2.2	3.3	51	---	64	3.5	4.8	4.9	38	2.0	1.4
31	2.4	---	2.9	18	---	15	---	31	---	17	9.4	---
TOTAL	231.54	268.4	568.6	141.8	339.9	810.5	936.3	964.9	1,604.1	650.9	398.3	79.12
MEAN	7.47	8.95	18.3	4.57	12.1	26.1	31.2	31.1	53.5	21.0	12.8	2.64
MAX	72	65	150	51	70	302	312	253	654	117	114	16
MIN	0.35	1.4	2.1	1.8	3.0	3.9	3.5	2.4	4.2	3.8	2.0	0.82
CFSM	0.99	1.19	2.44	0.61	1.61	3.48	4.15	4.14	7.11	2.79	1.71	0.35
IN.	1.15	1.33	2.81	0.70	1.68	4.01	4.63	4.77	7.94	3.22	1.97	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	4.41	3.90	6.17	6.02	7.85	14.2	11.4	9.24	12.3	6.33	4.72	4.13
MAX	8.81	8.95	18.3	9.20	12.1	26.1	31.2	31.1	53.5	21.0	12.8	7.59
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	0.45	0.82	1.70	2.96	3.02	5.35	2.24	1.36	0.64	0.79	0.63	2.44
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2000)	(2002)	(2000)	(2002)	(2002)	(2001)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	2,024.32		6,994.36		7.86	
ANNUAL MEAN	5.55		19.2		19.2	
HIGHEST ANNUAL MEAN					2.94	
LOWEST ANNUAL MEAN					0.00	
HIGHEST DAILY MEAN	150	Dec 13	654	Jun 7	654	Jun 7, 2003
LOWEST DAILY MEAN	0.00	Jul 10	0.35	Oct 8	0.00	Jul 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 9	0.41	Oct 2	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			5,600*	Jun 7	5,600*	Jun 7, 2003
MAXIMUM PEAK STAGE			13.32	Jun 7	13.32	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.30*	Oct 8	0.00*	Jul 10, 2002
ANNUAL RUNOFF (CFSM)	0.74		2.55		1.04	
ANNUAL RUNOFF (INCHES)	10.01		34.60		14.19	
10 PERCENT EXCEEDS	11		45		15	
50 PERCENT EXCEEDS	1.7		4.9		2.0	
90 PERCENT EXCEEDS	0.25		1.8		0.29	

e Estimated.
 * See REMARKS.

