

02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'16", long 80°46'03", Mecklenburg County, Hydrologic Unit 03050103, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 mi downstream of Irvins Creek, and 7 mi southeast of city hall, Charlotte.

DRAINAGE AREA.--39.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-99-00-1B: Instantaneous low flow period of record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 552.36 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. No flow for part of Nov. 15, 1972, result of upstream construction, and Aug. 14, 15, 2002. Minimum discharge for current water year also occurred July 17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of about 14.0 ft, from floodmarks; discharge, 4,150 ft³/s.

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	5.1	6.1	5.3	4.9	5.3	234	79	17	5.7	5.8	7.9	11
2	4.9	5.7	5.3	5.1	5.2	199	21	55	3.8	5.0	18	7.2
3	4.5	5.7	5.2	5.1	87	51	16	21	3.2	9.1	19	6.2
4	4.8	5.8	6.8	5.1	13	27	14	9.7	4.8	7.9	7.5	5.2
5	4.2	6.0	17	10	7.7	20	12	7.9	4.4	37	8.7	4.7
6	4.1	5.9	7.5	12	305	17	11	7.1	3.1	60	9.9	5.7
7	7.0	5.9	6.9	5.3	134	15	11	6.1	3.0	6.2	4.4	996
8	56	7.9	6.0	4.9	28	14	11	5.8	8.7	4.8	3.6	1,220
9	22	7.1	5.8	8.2	18	13	10	5.5	23	4.3	3.4	55
10	7.4	5.6	e99	7.4	16	13	9.7	5.2	10	4.1	3.2	20
11	116	5.7	e153	5.4	13	12	9.4	4.9	4.0	158	4.3	13
12	12	5.6	e23	5.2	124	11	17	5.1	3.2	69	79	11
13	7.3	5.1	e17	5.2	35	11	75	5.3	40	8.7	439	9.0
14	6.4	4.7	e182	5.1	35	11	22	5.2	16	5.0	396	9.7
15	6.1	4.7	e44	5.0	52	12	13	4.8	21	3.1	48	9.0
16	5.4	5.3	9.4	4.7	36	30	11	4.8	26	2.3	17	9.5
17	5.1	5.4	37	4.8	19	16	10	4.6	9.5	127	10	220
18	5.2	5.5	12	12	16	13	9.2	4.5	4.9	715	8.0	40
19	5.0	56	8.0	7.8	14	17	9.1	4.4	3.7	18	7.2	13
20	5.0	13	6.4	5.3	13	12	9.8	4.1	2.9	8.5	6.4	9.4
21	4.8	6.7	5.8	4.9	12	34	8.3	4.0	44	e6.1	11	8.0
22	5.0	5.9	5.8	5.1	11	13	8.0	3.6	17	e5.4	13	7.2
23	4.7	5.6	5.7	5.0	11	11	8.9	5.5	199	4.0	6.0	6.7
24	4.2	5.4	8.6	4.9	11	11	7.4	4.6	215	3.6	5.7	6.4
25	4.1	5.4	5.9	6.5	11	11	6.9	3.4	138	3.0	5.5	6.1
26	5.5	5.7	5.2	7.4	14	11	7.8	3.3	100	2.9	4.4	5.9
27	6.0	5.9	5.1	8.4	64	11	10	3.4	15	491	5.6	160
28	31	6.1	5.1	12	122	10	6.9	3.3	9.7	116	5.5	2,010
29	112	6.9	5.4	8.7	141	10	7.0	3.8	6.9	311	58	64
30	11	5.3	5.3	6.7	---	19	6.7	3.2	5.7	32	63	26
31	7.3	---	4.9	5.9	---	67	---	11	---	12	108	---
TOTAL	489.1	231.6	719.4	204.0	1,373.2	956	458.1	237.1	951.2	2,245.8	1,386.2	4,974.9
MEAN	15.8	7.72	23.2	6.58	47.4	30.8	15.3	7.65	31.7	72.4	44.7	166
MAX	116	56	182	12	305	234	79	55	215	715	439	2,010
MIN	4.1	4.7	4.9	4.7	5.2	10	6.7	3.2	2.9	2.3	3.2	4.7
CFSM	0.40	0.19	0.59	0.17	1.20	0.78	0.39	0.19	0.80	1.83	1.13	4.19
IN.	0.46	0.22	0.68	0.19	1.29	0.90	0.43	0.22	0.89	2.11	1.30	4.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	33.1	28.7	38.9	64.7	72.2	81.6	50.1	33.8	33.0	30.5	33.2	27.1
MAX	212	109	128	157	169	200	182	173	200	140	178	166
(WY)	(1991)	(1986)	(1984)	(1978)	(1979)	(1977)	(2003)	(1975)	(2003)	(1997)	(1994)	(2004)
MIN	3.16	3.11	7.55	6.58	16.9	13.6	7.45	7.65	3.60	4.04	3.42	1.46
(WY)	(1963)	(2002)	(1966)	(2004)	(1968)	(1985)	(1967)	(2004)	(1986)	(1977)	(1968)	(1968)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	29,207.7		14,226.6		43.9	
ANNUAL MEAN	80.0		38.9		18.9	
HIGHEST ANNUAL MEAN					90.5	2003
LOWEST ANNUAL MEAN					18.9	2001
HIGHEST DAILY MEAN	1,930	Apr 10	2,010	Sep 28	4,490	Aug 27, 1995
LOWEST DAILY MEAN	4.1	Oct 6	2.3	Jul 16	0.01	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.7	Oct 19	3.6	May 24	0.08	Aug 8, 2002
MAXIMUM PEAK FLOW			4,650	Sep 28	9,040	Aug 27, 1995
MAXIMUM PEAK STAGE			14.11	Sep 28	17.79	Aug 27, 1995
INSTANTANEOUS LOW FLOW			2.2*	Jul 16	0.00*	Nov 15, 1972
ANNUAL RUNOFF (CFSM)	2.02		0.982		1.11	
ANNUAL RUNOFF (INCHES)	27.44		13.36		15.05	
10 PERCENT EXCEEDS	159		65		75	
50 PERCENT EXCEEDS	20		7.9		13	
90 PERCENT EXCEEDS	5.5		4.4		3.8	

* See REMARKS.
e Estimated.

