

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.--No estimated daily discharges. Records fair. No flow for part of Nov. 15, 1972, result of upstream construction, and Aug. 14, 15, 2002.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	8.9	19	13	14	64	60	48	72	159	18	5.5
2	15	10	14	12	13	31	47	14	822	62	9.4	4.1
3	20	9.1	12	12	171	22	28	11	63	13	7.3	3.3
4	16	154	12	12	47	18	20	9.9	27	9.4	6.0	3.0
5	13	37	11	12	23	16	18	9.7	18	7.8	5.4	2.9
6	11	14	27	11	17	14	16	12	50	7.1	5.0	2.6
7	10	11	34	11	16	15	24	10	65	149	4.7	2.6
8	9.5	9.6	15	11	15	187	25	9.4	23	50	5.3	2.8
9	9.3	8.8	15	11	15	35	21	8.6	14	12	36	2.7
10	9.4	8.5	205	12	14	21	15	116	15	8.4	20	2.0
11	9.0	8.7	47	11	13	17	14	71	22	15	7.9	2.1
12	8.9	62	23	11	12	15	159	205	10	18	6.3	1.9
13	399	31	17	12	12	14	405	99	10	25	8.1	1.7
14	31	12	14	375	75	15	324	19	9.7	13	19	1.6
15	17	10	12	38	35	13	49	14	8.6	6.9	8.2	1.5
16	12	9.7	12	21	18	181	29	11	8.0	5.3	4.5	5.6
17	10	9.5	12	16	15	189	22	9.9	6.8	5.0	4.1	5.0
18	10	9.4	12	14	13	45	19	9.3	6.6	4.9	49	2.4
19	10	9.4	12	13	12	26	18	8.8	6.2	20	9.0	1.7
20	11	9.0	11	13	15	21	16	175	6.3	15	4.9	1.6
21	11	9.1	10	13	83	18	14	20	5.9	21	3.9	1.7
22	9.5	9.4	10	12	36	67	21	12	5.7	16	3.4	1.6
23	9.2	47	45	12	19	183	23	11	5.3	13	142	1.7
24	11	69	24	10	131	41	13	9.3	4.8	5.1	20	1.8
25	10	48	15	11	36	24	12	8.7	4.7	4.0	7.6	1.4
26	9.0	16	13	12	21	19	12	8.6	41	3.3	5.5	1.3
27	9.2	25	12	11	20	19	12	10	18	3.0	5.3	1.3
28	9.7	107	11	9.8	472	439	11	8.1	133	11	4.9	1.4
29	10	23	12	12	---	60	11	8.0	22	214	4.4	2.7
30	10	15	12	60	---	30	36	27	10	140	14	6.7
31	9.4	---	12	24	---	145	---	11	---	60	17	---
TOTAL	757.1	810.1	712	827.8	1,383	2,004	1,494	1,004.3	1,513.6	1,096.2	466.1	78.2
MEAN	24.4	27.0	23.0	26.7	49.4	64.6	49.8	32.4	50.5	35.4	15.0	2.61
MAX	399	154	205	375	472	439	405	205	822	214	142	6.7
MIN	8.9	8.5	10	9.8	12	13	11	8.0	4.7	3.0	3.4	1.3
CFSM	0.62	0.68	0.58	0.67	1.25	1.63	1.26	0.82	1.27	0.89	0.38	0.07
IN.	0.71	0.76	0.67	0.78	1.30	1.88	1.40	0.94	1.42	1.03	0.44	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	32.9	28.6	38.5	63.8	71.7	81.2	50.1	33.7	33.4	30.6	32.8	26.5
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)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	15,065.7		12,146.4		43.6	
ANNUAL MEAN	41.2		33.3		18.9	
HIGHEST ANNUAL MEAN					90.5	2003
LOWEST ANNUAL MEAN					18.9	2001
HIGHEST DAILY MEAN	2,010	Sep 28	822	Jun 2	4,490	Aug 27, 1995
LOWEST DAILY MEAN	2.3	Jul 16	1.3	Sep 26	0.01	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	May 24	1.5	Sep 22	0.08	Aug 8, 2002
MAXIMUM PEAK FLOW			2,170	Jun 2	9,040	Aug 27, 1995
MAXIMUM PEAK STAGE			9.09	Jun 2	17.79	Aug 27, 1995
INSTANTANEOUS LOW FLOW			1.0	Sep 25	0.00*	Nov 15, 1972
ANNUAL RUNOFF (CF5M)	1.04		0.840		1.10	
ANNUAL RUNOFF (INCHES)	14.15		11.41		14.97	
10 PERCENT EXCEEDS	65		63		75	
50 PERCENT EXCEEDS	10		12		13	
90 PERCENT EXCEEDS	4.7		4.8		3.8	

* See REMARKS.

