

## 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 mi<sup>2</sup>.

## 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. Datum of gage is 552.36 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are 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 Oct. 7.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of about 14.0 ft, from floodmarks; discharge, 4,150 ft<sup>3</sup>/s.

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	2.9	5.5	5.6	18	28	63	33	17	62	20	43	13
2	2.3	4.4	5.8	16	18	164	25	22	25	391	20	9.3
3	1.7	4.1	6.3	18	15	43	21	25	155	54	42	8.7
4	1.7	4.0	10	15	28	27	20	20	94	24	61	10
5	1.5	56	334	12	17	43	38	17	37	18	276	14
6	1.5	198	64	12	20	796	24	712	28	16	111	8.1
7	6.2	18	29	9.9	205	86	754	109	1,340	14	34	8.1
8	3.4	9.6	16	9.4	36	41	174	49	1,760	14	29	8.1
9	5.2	7.5	14	11	21	30	614	28	239	41	25	7.6
10	2.8	8.7	11	9.5	59	24	1,930	21	50	26	30	7.0
11	439	77	165	8.8	26	20	303	20	36	89	34	6.9
12	19	359	35	9.4	18	18	74	18	126	41	16	6.5
13	237	63	524	9.5	16	21	44	14	56	302	22	6.5
14	34	18	94	9.2	19	20	33	14	30	47	311	6.5
15	22	12	33	9.0	27	80	27	152	27	24	97	6.7
16	265	211	19	8.5	34	556	24	91	236	21	60	9.6
17	25	213	15	14	53	69	21	23	230	79	16	5.9
18	9.9	37	13	10	84	65	568	40	826	21	12	5.1
19	6.4	17	11	8.7	56	43	196	43	336	277	9.1	6.5
20	5.5	14	146	8.9	32	e1,600	62	20	87	153	9.2	5.5
21	8.8	12	33	12	23	e100	46	144	38	73	8.7	5.3
22	29	9.3	18	15	486	53	38	1,390	28	80	8.2	28
23	7.3	8.0	14	16	115	36	27	200	23	38	8.6	110
24	5.0	7.1	468	16	35	30	23	62	20	23	7.8	11
25	4.2	6.9	354	11	24	25	41	583	18	17	7.6	7.5
26	5.4	6.4	51	12	30	22	171	95	16	47	7.7	6.4
27	4.3	6.4	28	12	305	23	51	536	16	35	7.2	6.2
28	46	6.0	20	9.3	110	19	26	62	23	15	7.6	21
29	37	6.0	16	11	---	19	21	36	18	484	14	6.3
30	14	6.0	14	e300	---	333	19	27	17	152	28	5.5
31	8.4	---	12	e60	---	66	---	97	---	55	39	---
TOTAL	1,261.4	1,410.9	2,578.7	701.1	1,940	4,535	5,448	4,687	5,997	2,691	1,401.7	366.8
MEAN	40.7	47.0	83.2	22.6	69.3	146	182	151	200	86.8	45.2	12.2
MAX	439	359	524	300	486	1,600	1,930	1,390	1,760	484	311	110
MIN	1.5	4.0	5.6	8.5	15	18	19	14	16	14	7.2	5.1
CFSM	1.03	1.19	2.10	0.57	1.75	3.69	4.59	3.82	5.05	2.19	1.14	0.31
IN.	1.18	1.33	2.42	0.66	1.82	4.26	5.12	4.40	5.63	2.53	1.32	0.34

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

MEAN	33.5	29.2	39.3	66.1	72.9	82.8	51.0	34.4	33.0	29.5	33.0	23.8
MAX	212	109	128	157	169	200	182	173	200	140	178	162
(WY)	(1991)	(1986)	(1984)	(1978)	(1979)	(1977)	(2003)	(1975)	(2003)	(1997)	(1994)	(1987)
MIN	3.16	3.11	7.55	7.46	16.9	13.6	7.45	8.04	3.60	4.04	3.42	1.46
(WY)	(1963)	(2002)	(1966)	(1981)	(1968)	(1985)	(1967)	(1968)	(1986)	(1977)	(1968)	(1968)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1962 - 2003	
ANNUAL TOTAL	11,834.28		33,018.6		44.0	
ANNUAL MEAN	32.4		90.5		18.9	
HIGHEST ANNUAL MEAN					90.5	2003
LOWEST ANNUAL MEAN					18.9	2001
HIGHEST DAILY MEAN	949	Aug 31	1,930	Apr 10	4,490	Aug 27, 1995
LOWEST DAILY MEAN	0.01	Aug 14	1.5	Oct 5	0.01	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	0.08	Aug 8	2.5	Oct 1	0.08	Aug 8, 2002
MAXIMUM PEAK FLOW			5,330	Jun 8	9,040	Aug 27, 1995
MAXIMUM PEAK STAGE			15.12	Jun 8	17.79	Aug 27, 1995
INSTANTANEOUS LOW FLOW			1.4*	Oct 6	0.00*	Nov 15, 1972
ANNUAL RUNOFF (CFSM)	0.82		2.28		1.11	
ANNUAL RUNOFF (INCHES)	11.12		31.02		15.09	
10 PERCENT EXCEEDS	76		232		75	
50 PERCENT EXCEEDS	7.6		23		13	
90 PERCENT EXCEEDS	1.4		6.5		3.7	

e Estimated.  
 \* See REMARKS.

