02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC

LOCATION.--Lat 35°15'43", long 80°50'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on Statesville Avenue (U.S. Highway 21), 1,000 ft upstream from Kennedy Branch, 0.2 mi upstream from Interstate Highway 77, and 2.5 mi north of Trade and Tryon Street intersection in downtown Charlotte.

DRAINAGE AREA.--5.97 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-80, October 1981 to September 1994, November 1997 to September 2001, June 2004 to current water year.

REVISED RECORDS .-- WDR NC-84-1: 1982.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 656.04 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A 140-acre solid-waste landfill, used 1940 to 1970, is located just upstream from station. No flow for parts of Aug. 1,3,4, 1987, occurred as a result of upstream construction; minimum discharge not affected by construction: 0.12 ft³/s, Aug. 30,31, 1987. Maximum discharge and gage-height for period June to September 2004 also occurred Sept. 8, 2004. Minimum discharge for period June to September 2004 also occurred Sept. 30.

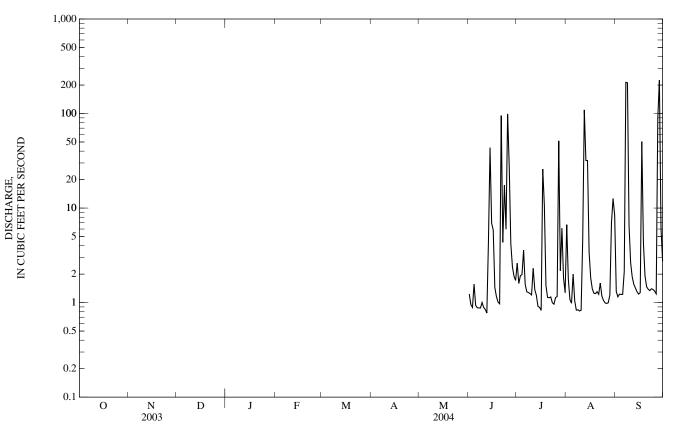
DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1.2	2.6	6.7	1.3
2									0.95	1.6	1.8	1.1
3									0.89	1.9	1.1	1.2
4									1.6	2.0	0.98	1.2
5									0.93	3.6	2.0	1.2
6									0.88	1.6	1.0	2.1
7									0.88	1.3	0.83	214
8									0.88	1.3	0.84	211
9									1.0	1.2	0.82	6.6
10									0.89	1.2	0.83	2.6
11									0.85	2.3	4.6	1.9
12									0.77	1.4	109	1.6
13									4.4	1.2	32	1.4
14									43	0.91	32	1.3
15									6.9	0.89	3.4	1.2
16									5.9	0.83	1.8	1.3
17									1.4	26	1.4	51
18									1.2	11	1.3	4.2
19									1.0	1.5	1.2	1.9
20									0.97	1.1	1.3	1.5
21									95	1.1	1.2	1.4
22									4.3	1.1	1.6	1.3
23									17	1.00	1.2	1.4
24									6.0	0.96	1.1	1.4
25									99	1.1	0.99	1.3
26									28	1.2	0.98	1.2
20										51		90
28									4.2		1.00	
									2.4	2.2	1.2	225
29									1.9	6.1	7.0	6.1
30									1.7	1.8	13	2.7
31										1.3	8.4	
TOTAL									335.99	134.29	242.57	841.4
MEAN									11.2	4.33	7.82	28.0
MAX									99	51	109	225
MIN									0.77	0.83	0.82	1.1
IN.									2.09	0.84	1.51	5.24
										0.04	1.51	5.24
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, $^{@}$ BY WATER YEAR (WY)												
MEAN	4.87	6.09	6.81	11.2	13.6	13.7	7.57	6.21	6.17	3.59	4.17	5.24
MAX	23.8	27.8	21.3	22.9	38.8	30.6	16.0	16.5	24.9	8.15	11.3	28.0
(WY)	(1991)	(1986)	(1984)	(1993)	(1995)	(1993)	(1998)	(1990)	(1982)	(1984)	(1985)	(2004)
MIN	0.88	1.08	1.64	2.99	4.06	2.99	2.71	(1990)	0.89	0.93	0.39	0.47
(WY)	(2001)	(1982)	(2001)	(2001)	(2001)	(1985)	(1986)	(1986)	(1986)	(1986)	(1987)	(1983)
(1 1)	(2001)	(1902)	(2001)	(2001)	(2001)	(1905)	(1960)	(1900)	(1900)	(1900)	(1907)	(1903)

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC-Continued

ANNILLAL MEAN 7.00	SUMMARY STATISTICS	FOR 2004 WAT	ER YEAR	WATER YEARS 1981 - 2004 [@]			
HIGHEST ANNUAL MEAN 10.7 LOWEST ANNUAL MEAN 3.25 HIGHEST DAILY MEAN 225 Sep 28 388 Nov 21, LOWEST DAILY MEAN 0.77 Jun 12 0.16 Aug 1, ANNUAL SEVEN-DAY MINIMUM 0.88 Jun 6 0.25 Aug 20, MAXIMUM PEAK FLOW 1,250* Sep 7 1,430 Jun 18, MAXIMUM PEAK STAGE 7.12* Sep 7 7.58 Jun 18,	LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS	0.77 0.88 1,250* 7.12*	Jun 12 Jun 6 Sep 7 Sep 7	$\begin{array}{c} 3.25\\ 388\\ 0.16\\ 0.25\\ 1,430\\ 7.58\\ 0.00^{\ast}\\ 16.13\\ 13\\ 2.4\end{array}$	1984 2001 Nov 21, 1985 Aug 1, 1986 Aug 20, 2001 Jun 18, 1982 Jun 18, 1982 Aug 1, 1987		

- [@] See PERIOD OF RECORD.* See REMARKS.



02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC-Continued

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAIL1 MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.0 2.0 5.7 2.0 1.6	1.4 2.5 1.6 21 3.0	2.2 1.6 1.5 1.4 1.4	1.6 1.6 1.7 1.7 1.8	e2.2 2.1 23 5.0 3.0	7.7 4.2 3.4 2.9 2.7	8.3 8.9 5.0 4.5 4.3	7.7 3.4 3.1 3.1 3.4	14 43 4.0 2.3 1.8	1.3 1.2 1.1 1.1 1.1	1.4 1.0 14 2.1 1.0	$0.67 \\ 0.51 \\ 0.45 \\ 0.44 \\ 0.46$
6 7 8 9 10	1.6 2.1 2.1 2.2 1.7	1.7 1.5 1.4 1.3 1.2	6.8 3.2 1.9 5.2 66	1.7 1.7 1.6 1.7	2.4 2.3 2.3 2.3 2.3	2.4 2.7 36 5.6 3.7	4.1 4.7 4.9 4.1 3.7	3.3 3.3 2.7 2.7 63	1.6 2.4 3.0 5.9 12	1.1 5.7 1.4 1.1 1.1	0.88 0.88 62 12 3.0	$\begin{array}{c} 0.47 \\ 0.54 \\ 0.42 \\ 0.49 \\ 0.72 \end{array}$
11 12 13 14 15	2.2 1.9 5.3 1.5 1.4	1.2 12 2.7 1.6 1.6	5.6 3.0 2.3 2.0 1.9	1.7 1.7 1.7 36 3.6	2.1 2.1 2.3 7.1 2.8	3.1 2.8 2.7 3.4 2.4	3.7 36 34 35 7.8	10 3.1 2.3 2.0 1.4	3.3 1.8 1.8 1.6 1.5	3.4 2.0 3.2 1.2 0.98	1.7 1.2 2.9 2.8 1.1	0.51 0.54 0.62 0.67 0.62
16 17 18 19 20	1.1 1.2 1.6 1.8 1.9	1.6 1.3 1.2 1.2 1.5	e1.7 1.7 1.6 1.6 e1.5	2.5 2.1 e1.9 e2.0 e2.0	3.1 2.4 2.0 1.9 2.8	24 25 5.8 3.9 3.4	5.2 4.6 4.3 4.1 4.2	1.2 1.5 1.6 1.6 5.3	1.2 1.2 1.2 1.1 1.1	0.92 0.94 0.97 0.94 0.93	0.91 1.2 0.93 0.94 0.94	5.9 0.72 0.59 0.63 0.65
21 22 23 24 25	1.7 1.6 1.5 1.9 1.4	1.5 1.6 2.7 11 5.1	e1.5 e1.5 15 3.3 2.2	1.9 e1.9 e1.7 e1.7 e1.9	12 4.7 2.7 17 4.3	3.1 13 55 8.1 4.7	4.3 8.8 4.7 3.5 3.3	1.8 1.6 1.5 1.6 1.3	0.95 0.87 0.96 1.0 1.0	0.91 1.9 0.89 0.67 0.67	0.96 1.0 0.92 1.8 0.93	0.54 0.57 0.56 0.59 0.53
26 27 28 29 30 31	1.5 2.3 4.4 2.6 1.6 1.6	2.0 11 7.7 2.3 1.8	e1.9 e1.7 e1.7 1.7 1.7 1.6	1.9 e1.7 e1.6 e3.0 e13 e3.0	3.0 5.3 61 	4.4 8.8 124 13 7.3 17	3.4 3.7 3.8 3.7 6.4	1.3 1.3 1.2 1.2 1.7 1.3	8.0 4.3 28 2.8 1.6	0.71 0.65 2.7 17 94 5.0	$\begin{array}{c} 0.73 \\ 0.72 \\ 0.79 \\ 0.82 \\ 0.81 \\ 0.75 \end{array}$	0.59 0.60 0.46 1.0 0.39
TOTAL MEAN MAX MIN IN.	65.0 2.10 5.7 1.1 0.41	109.2 3.64 21 1.2 0.68	$147.9 \\ 4.77 \\ 66 \\ 1.4 \\ 0.92$	$105.3 \\ 3.40 \\ 36 \\ 1.6 \\ 0.66$	185.5 6.62 61 1.9 1.16	406.2 13.1 124 2.4 2.53	237.0 7.90 36 3.3 1.48	141.5 4.56 63 1.2 0.88	155.28 5.18 43 0.87 0.97	156.78 5.06 94 0.65 0.98	123.11 3.97 62 0.72 0.77	22.45 0.75 5.9 0.39 0.14
STATIST	TICS OF M	ONTHLY MI	EAN DATA	FOR WAT	ER YEARS	1981 - 2005	,@ BY WAT	TER YEAR (WY)			
MEAN MAX (WY) MIN (WY)	4.73 23.8 (1991) 0.88 (2001)	5.96 27.8 (1986) 1.08 (1982)	6.70 21.3 (1984) 1.64 (2001)	10.8 22.9 (1993) 2.99 (2001)	13.2 38.8 (1995) 4.06 (2001)	13.7 30.6 (1993) 2.99 (1985)	7.59 16.0 (1998) 2.71 (1986)	6.12 16.5 (1990) 1.94 (1986)	6.12 24.9 (1982) 0.89 (1986)	3.66 8.15 (1984) 0.93 (1986)	4.16 11.3 (1985) 0.39 (1987)	5.00 28.0 (2004) 0.47 (1983)
SUMMA	SUMMARY STATISTICS FOR 2004 CALENDAR YEAR					YEAR	FOR 2005 WATER YEAR			WATER YEARS 1981 - 2005 [@]		
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS [@] See PERIOD OF RECORD. * See REMARKS. e Estimated.				5 Sep 9.77 Jun 9.88 Jun	12	12	0.39 Sep 0.47 Sep 20 Ju 7.06 Ju	r 28 5 30 5 3 1 30 1 30 5 8		0.16 Aug 0.25 Aug 30 Jun 7.58 Jun	1984 2001 v 21, 1985 g 1, 1986 g 20, 2001 n 18, 1982 n 18, 1982 g 1, 1987	

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC-Continued

