

02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°45'30", long 78°34'59", Wake County, Hydrologic Unit 03020201, at bridge on Secondary Road 2544, 0.9 mi upstream from Big Branch, and 3.5 mi southeast of Raleigh.

DRAINAGE AREA.--29.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190.8 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from computation of peak flow through culvert; maximum gage height, 17.03 ft, from high-water mark in gage shelter.

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	16	9.8	21	12	27	101	32	55	10	3.6	27	e4.8
2	14	9.0	16	11	20	46	71	29	71	2.8	11	e3.0
3	12	11	13	11	67	30	70	19	44	2.9	8.0	2.8
4	15	24	11	11	59	25	33	15	26	2.5	e6.1	2.4
5	13	26	10	11	32	22	24	16	18	5.0	3.5	2.0
6	9.6	16	11	11	23	21	20	141	14	11	2.9	1.9
7	8.3	12	19	11	19	20	22	55	42	6.2	2.9	1.9
8	7.3	9.8	12	10	18	190	45	26	215	105	3.5	1.8
9	7.4	8.3	24	9.5	16	90	110	17	63	23	97	e1.5
10	e6.9	7.3	116	9.3	17	35	44	14	33	11	103	e1.5
11	e6.3	7.2	47	10	15	23	27	13	21	5.6	65	e1.5
12	e6.0	51	25	8.8	14	19	21	41	14	4.0	31	e1.6
13	107	223	17	10	13	15	174	175	12	3.1	14	e1.7
14	162	48	13	412	15	57	70	52	11	3.6	7.8	e1.8
15	44	24	11	172	19	26	34	29	9.0	3.8	5.9	e1.8
16	27	17	9.6	47	17	106	23	28	7.9	2.9	7.0	e1.6
17	18	13	9.6	30	21	319	19	17	8.6	6.2	18	e1.7
18	14	12	9.5	22	16	115	17	13	6.2	23	8.3	e1.6
19	14	10	9.7	19	14	57	16	24	5.2	25	5.0	1.8
20	14	9.6	11	18	13	39	15	62	4.7	28	3.9	10
21	13	8.0	9.1	24	21	30	14	70	4.0	13	3.5	63
22	12	7.0	9.3	19	18	25	13	29	4.3	10	4.5	14
23	11	85	37	22	15	131	14	18	3.8	59	12	3.8
24	12	64	27	16	128	59	15	13	4.1	27	1.7	1.8
25	12	28	16	15	69	34	14	10	5.6	16	2.3	1.5
26	12	16	16	15	42	26	14	9.4	5.5	11	2.5	1.5
27	11	12	22	14	28	23	14	9.1	11	4.9	2.0	1.7
28	11	166	18	12	220	167	13	9.6	27	2.8	2.3	1.5
29	10	44	16	12	---	81	14	9.2	21	67	3.8	1.5
30	10	24	17	111	---	40	17	8.7	8.2	50	5.2	1.5
31	10	---	14	45	---	34	---	9.3	---	31	5.8	---
TOTAL	645.8	1,002.0	616.8	1,160.6	996	2,006	1,029	1,036.3	730.1	569.9	476.4	140.5
MEAN	20.8	33.4	19.9	37.4	35.6	64.7	34.3	33.4	24.3	18.4	15.4	4.68
MAX	162	223	116	412	220	319	174	175	215	105	103	63
MIN	6.0	7.0	9.1	8.8	13	15	13	8.7	3.8	2.5	1.7	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

	30.9	23.5	29.6	47.8	45.3	57.6	41.1	20.9	31.5	31.7	39.2	68.9
MEAN	30.9	23.5	29.6	47.8	45.3	57.6	41.1	20.9	31.5	31.7	39.2	68.9
MAX	79.3	44.5	58.5	106	98.0	123	84.5	34.3	81.9	54.3	114	263
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2001)	(2003)	(2004)	(1999)
MIN	9.04	5.69	15.2	13.9	21.9	26.0	20.9	3.03	11.9	11.3	8.00	4.68
(WY)	(2001)	(2002)	(2001)	(2001)	(1999)	(2002)	(1999)	(2002)	(2002)	(1999)	(1997)	(2005)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1996 - 2005

ANNUAL TOTAL	12,940.4	10,409.4	
ANNUAL MEAN	35.4	28.5	37.9
HIGHEST ANNUAL MEAN			61.2
LOWEST ANNUAL MEAN			23.4
HIGHEST DAILY MEAN	504	412	3,600
LOWEST DAILY MEAN	2.6	1.5	0.50
ANNUAL SEVEN-DAY MINIMUM	4.7	1.6	0.50
MAXIMUM PEAK FLOW		802	6,760*
MAXIMUM PEAK STAGE		8.66	17.03*
INSTANTANEOUS LOW FLOW		NOT DETERMINED	NOT DETERMINED
10 PERCENT EXCEEDS	74	66	70
50 PERCENT EXCEEDS	17	14	16
90 PERCENT EXCEEDS	8.1	3.0	6.0

* See REMARKS.

e Estimated.

02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC—Continued

