

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 fair except those for estimated daily discharges, which are 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. Minimum discharge for period of record also occurred Aug. 5, 6, 7, 8, 1999, Oct. 6, 2002.

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	10	20	13	13	21	32	29	22	8.0	16	149	53
2	9.9	15	11	13	18	26	27	74	5.9	23	109	30
3	e9.2	14	9.7	13	99	24	21	247	4.6	18	126	21
4	8.8	14	11	13	56	e20	18	64	36	13	33	17
5	10	15	48	18	32	e15	16	31	27	16	23	14
6	11	16	25	27	36	e20	14	21	14	7.2	156	21
7	14	32	18	18	176	24	14	17	17	4.9	46	44
8	26	35	14	15	50	39	15	14	15	3.7	21	100
9	31	25	13	20	30	26	15	13	13	3.0	13	95
10	25	19	56	21	25	34	15	12	13	2.6	9.7	35
11	24	17	196	16	21	24	16	11	9.6	2.7	7.7	22
12	18	16	53	16	92	21	68	11	20	9.0	52	16
13	15	16	27	16	60	19	86	14	7.2	51	147	13
14	16	14	187	14	40	17	47	16	16	19	390	20
15	40	12	74	14	46	68	30	13	9.0	17	504	86
16	20	12	36	13	80	126	21	12	13	6.7	427	30
17	14	13	52	12	49	133	18	10	9.9	3.6	92	73
18	22	13	37	41	39	68	16	10	13	30	49	270
19	14	88	27	27	30	66	16	19	6.5	13	33	83
20	12	78	22	19	25	37	14	34	4.8	9.0	23	35
21	13	32	18	16	27	30	14	16	3.4	6.1	21	23
22	16	21	17	15	23	24	13	11	3.5	12	260	18
23	15	16	18	15	e21	21	12	10	3.6	136	58	15
24	16	14	38	13	e20	20	11	8.1	7.4	38	29	13
25	25	13	22	13	19	19	10	7.5	29	17	19	11
26	38	11	18	17	21	18	34	6.6	75	11	15	11
27	47	10	16	19	72	18	59	6.4	36	7.6	13	12
28	73	12	14	29	63	19	26	6.0	80	5.8	11	58
29	242	21	15	34	48	17	17	5.5	80	47	16	42
30	61	15	14	33	---	17	14	32	27	112	397	22
31	30	---	13	28	---	21	---	13	---	69	280	---
TOTAL	925.9	649	1,132.7	591	1,339	1,063	726	787.1	607.4	729.9	3,529.4	1,303
MEAN	29.9	21.6	36.5	19.1	46.2	34.3	24.2	25.4	20.2	23.5	114	43.4
MAX	242	88	196	41	176	133	86	247	80	136	504	270
MIN	8.8	10	9.7	12	18	15	10	5.5	3.4	2.6	7.7	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	32.1	22.3	30.8	49.1	46.6	56.7	41.9	19.5	32.2	33.2	41.8	76.1
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	10.6
(WY)	(2001)	(2002)	(2001)	(2001)	(1999)	(2002)	(1999)	(2002)	(2002)	(1999)	(1997)	(2001)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	19,446.9		13,383.4		39.1	
ANNUAL MEAN	53.3		36.6		61.2	
HIGHEST ANNUAL MEAN					23.4	2003
LOWEST ANNUAL MEAN					23.4	2002
HIGHEST DAILY MEAN	879	Aug 9	504	Aug 15	3,600	Sep 6, 1996
LOWEST DAILY MEAN	6.1	Jul 28	2.6	Jul 10	0.50	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	8.1	Jul 22	4.7	Jul 6	0.50	Aug 8, 2002
MAXIMUM PEAK FLOW			758	Aug 30	6760*	Sep 6, 1996
MAXIMUM PEAK STAGE			8.52	Aug 30	17.03*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			2.2	Jul 11	2.0*	Aug 4, 1999
10 PERCENT EXCEEDS	108		74		72	
50 PERCENT EXCEEDS	25		19		17	
90 PERCENT EXCEEDS	13		9.8		6.2	

* See REMARKS.
e Estimated.

