

02087580 SWIFT CREEK NEAR APEX, NC

LOCATION.--Lat 35°43'08", long 78°45'08", Wake County, Hydrologic Unit 03020201, on right bank at downstream side of bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex.

DRAINAGE AREA.--21.0 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1953-69. March 2002 to current year.

REVISED RECORDS.--WDR NC-03-1A: 2002.

GAGE.--Water-stage recorder. Datum of gage is 306.22 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for period of poor gage-height record, May 16 to Sept. 30, and those for estimated daily discharges, which are poor. No flow occurred several days in Aug. 2002. No flow occurred part of each day July 19 and Sept. 10-14.

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	8.7	2.1	9.8	3.8	12	54	25	35	1.7	1.4	7.9	0.99
2	7.2	1.8	7.2	3.9	10	24	48	15	24	0.63	2.6	0.82
3	7.2	2.1	5.0	4.3	61	18	43	7.1	16	0.42	1.3	1.1
4	4.8	10	4.6	4.5	49	15	22	4.0	10	0.77	1.7	0.79
5	3.6	14	4.1	4.8	20	14	19	3.3	6.2	2.3	0.89	0.41
6	2.5	4.4	3.8	5.3	15	12	17	47	3.5	3.2	0.41	0.62
7	1.7	2.2	6.9	4.9	13	11	17	19	62	1.3	0.42	0.31
8	1.8	2.1	6.7	3.9	12	166	36	10	108	62	0.26	0.24
9	1.4	1.9	12	3.8	12	49	92	5.7	17	8.8	336	0.15
10	1.7	1.2	107	3.1	14	24	30	3.5	30	2.5	48	0.09
11	1.7	0.99	27	3.0	10	20	22	2.9	18	0.97	19	0.06
12	1.3	46	13	3.1	7.3	18	19	69	8.9	0.68	11	0.09
13	20	112	9.5	4.0	7.1	16	186	91	6.2	0.50	5.8	0.06
14	26	14	7.4	312	10	53	e84	19	4.8	0.31	3.2	1.8
15	16	6.9	5.2	45	16	24	e32	12	4.4	0.32	3.4	4.5
16	10	5.4	3.0	19	13	114	e16	10	2.9	0.23	2.1	0.13
17	4.2	4.4	3.3	14	14	241	e12	6.8	2.3	0.13	5.0	0.11
18	2.3	3.4	3.4	9.4	9.8	63	e10	4.7	1.8	0.06	2.9	0.09
19	2.1	3.1	4.7	6.9	6.4	30	e9.1	3.6	1.6	0.03	1.5	0.19
20	2.9	2.7	8.3	8.3	6.3	23	e8.6	32	e1.6	110	21	11
21	2.9	2.6	2.7	10	13	19	e7.4	54	e2.7	11	30	103
22	2.2	2.1	2.5	9.1	13	14	e6.4	13	e2.0	11	10	12
23	1.9	58	13	15	9.9	71	6.1	8.7	e1.5	47	12	3.9
24	1.8	37	16	5.4	107	32	5.5	7.7	0.92	9.5	6.9	1.2
25	2.1	14	7.7	4.6	40	18	3.3	5.6	0.36	3.7	2.5	1.2
26	2.2	6.5	9.5	5.9	19	15	3.3	3.2	0.20	1.9	1.1	0.74
27	2.0	4.1	9.5	7.2	15	14	3.8	2.3	1.8	1.1	0.97	0.63
28	1.9	107	5.8	4.4	189	65	3.2	2.1	7.1	0.88	0.71	0.74
29	1.8	19	5.1	3.3	---	42	4.2	1.9	9.8	107	0.52	0.41
30	2.1	11	5.6	70	---	24	8.2	2.0	2.5	23	0.87	0.39
31	2.3	---	5.0	22	---	23	---	1.8	---	17	1.6	---
TOTAL	150.3	501.99	334.3	623.9	723.8	1,326	799.1	502.9	359.78	429.63	541.55	147.76
MEAN	4.85	16.7	10.8	20.1	25.9	42.8	26.6	16.2	12.0	13.9	17.5	4.93
MAX	26	112	107	312	189	241	186	91	108	110	336	103
MIN	1.3	0.99	2.5	3.0	6.3	11	3.2	1.8	0.20	0.03	0.26	0.06
CFSM	0.23	0.80	0.51	0.96	1.23	2.04	1.27	0.77	0.57	0.66	0.83	0.23
IN.	0.27	0.89	0.59	1.11	1.28	2.35	1.42	0.89	0.64	0.76	0.96	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	24.1	21.4	27.0	15.4	42.7	40.3	33.0	14.5	14.7	13.1	46.1	22.9
MAX	56.8	36.1	45.2	20.1	67.6	68.8	64.0	20.6	36.2	24.4	80.0	53.4
(WY)	(2003)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2004)
MIN	4.85	11.3	10.8	11.4	25.9	22.4	14.7	1.73	1.70	5.97	17.5	4.93
(WY)	(2005)	(2004)	(2005)	(2004)	(2005)	(2002)	(2004)	(2002)	(2002)	(2002)	(2005)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	8,879.65		6,441.01		28.8	
ANNUAL MEAN	24.3		17.6		43.3	
HIGHEST ANNUAL MEAN					17.6	
LOWEST ANNUAL MEAN					2005	
HIGHEST DAILY MEAN	816	Aug 14	336	Aug 9	914	Aug 8, 2003
LOWEST DAILY MEAN	0.54	Jul 10	0.03	Jul 19	0.00	Aug 3, 2002
ANNUAL SEVEN-DAY MINIMUM	1.0	Jul 5	0.14	Sep 7	0.00	Aug 3, 2002
MAXIMUM PEAK FLOW			1,180	Aug 9	2,720	Oct 11, 2002
MAXIMUM PEAK STAGE			9.59	Aug 9	11.71	Oct 11, 2002
INSTANTANEOUS LOW FLOW			0.00*	Jul 18	0.00*	Aug 3, 2002
ANNUAL RUNOFF (CFSM)	1.16		0.840		1.37	
ANNUAL RUNOFF (INCHES)	15.73		11.41		18.64	
10 PERCENT EXCEEDS	49		46		62	
50 PERCENT EXCEEDS	11		6.2		10	
90 PERCENT EXCEEDS	2.0		0.78		1.5	

* See REMARKS.

e Estimated.

