

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-02-1A.

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 estimated daily discharges, which are poor. No flow occurred several days in Aug. 2002.

REVISIONS.--Revised figures of discharge for the water year 2002, superseding those published in the report for 2002 are given below.

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	1.5	6.6	4.5	5.9	12	23	33	35	3.4	6.1	23	24
2	1.5	4.5	4.5	5.5	10	19	19	92	2.4	3.4	60	15
3	1.4	3.4	2.7	5.5	107	16	14	155	1.8	2.5	48	11
4	1.2	3.5	4.7	6.8	37	15	13	41	16	2.7	11	12
5	1.2	3.1	34	12	19	14	9.5	24	13	1.5	14	11
6	1.2	6.8	14	22	25	17	8.4	21	6.6	1.2	179	98
7	1.2	17	8.4	10	115	17	7.1	19	14	1.3	15	95
8	3.8	17	5.4	6.8	26	23	7.6	18	14	1.2	5.6	203
9	10	14	4.3	11	16	15	8.8	16	12	0.75	2.0	84
10	11	7.8	78	15	15	25	6.7	15	9.5	0.54	1.1	25
11	13	4.2	138	8.4	13	13	7.4	12	5.3	0.77	0.79	16
12	6.5	4.0	22	7.9	91	12	e12	24	4.1	8.9	54	13
13	4.2	6.7	13	9.0	48	11	e47	22	3.2	20	148	11
14	5.8	4.1	177	7.9	28	9.3	37	11	4.4	4.9	816	16
15	25	2.0	44	8.9	39	79	20	8.4	3.5	12	260	48
16	7.6	1.8	20	6.9	67	174	13	5.7	4.5	2.6	114	19
17	3.8	1.9	43	5.1	38	88	11	4.8	2.9	1.3	26	341
18	12	2.1	28	28	30	51	10	3.4	2.0	16	14	328
19	5.0	101	16	18	24	58	10	11	1.4	6.4	15	52
20	3.0	51	13	11	20	26	9.0	30	1.1	2.1	9.1	21
21	2.2	13	9.3	7.4	20	22	9.8	15	0.96	1.2	14	14
22	2.6	7.9	9.0	7.1	16	16	8.6	7.1	0.89	6.5	140	8.9
23	2.1	6.5	9.1	7.3	14	12	7.2	5.9	0.76	74	21	6.3
24	1.3	5.4	14	6.1	14	12	6.9	8.6	1.7	13	11	5.3
25	1.1	7.0	12	7.4	14	12	5.5	4.3	11	4.3	6.9	4.2
26	1.1	4.0	8.5	13	14	12	16	2.9	26	2.2	4.7	3.2
27	1.5	3.5	7.3	10	53	12	34	2.5	13	2.0	3.2	7.3
28	15	6.5	7.0	16	50	12	17	2.1	44	6.5	2.3	69
29	151	15	7.0	21	36	11	16	1.8	30	9.1	2.6	29
30	24	6.6	8.5	25	---	12	16	14	11	25	380	12
31	10	---	7.2	21	---	13	---	7.0	---	11	79	---
TOTAL	331.8	337.9	773.4	352.9	1,011	851.3	440.5	639.5	264.41	250.96	2,480.29	1,602.2
MEAN	10.7	11.3	24.9	11.4	34.9	27.5	14.7	20.6	8.81	8.10	80.0	53.4
MAX	151	101	177	28	115	174	47	155	44	74	816	341
MIN	1.1	1.8	2.7	5.1	10	9.3	5.5	1.8	0.76	0.54	0.79	3.2
CFSM	0.51	0.54	1.19	0.54	1.66	1.31	0.70	0.98	0.42	0.39	3.81	2.54
IN.	0.59	0.60	1.37	0.63	1.79	1.51	0.78	1.13	0.47	0.44	4.39	2.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	33.7	23.7	35.1	13.0	50.9	39.5	35.2	13.9	15.6	12.8	55.7	28.9
MAX	56.8	36.1	45.2	14.6	67.6	68.8	64.0	20.6	36.2	24.4	80.0	53.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2004)
MIN	10.7	11.3	24.9	11.4	34.9	22.4	14.7	1.73	1.70	5.97	21.7	10.4
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	12,997.67		9,336.16		34.4	
ANNUAL MEAN	35.6		25.5		25.5	
HIGHEST ANNUAL MEAN					43.3	2003
LOWEST ANNUAL MEAN					25.5	2004
HIGHEST DAILY MEAN	914	Aug 8	816	Aug 14	914	Aug 8, 2003
LOWEST DAILY MEAN	0.51	Aug 30	0.54	Jul 10	0.00	Aug 3, 2002
ANNUAL SEVEN-DAY MINIMUM	1.0	Jul 22	1.0	Jul 5	0.00	Aug 3, 2002
MAXIMUM PEAK FLOW			1,590	Sep 17	2,720	Oct 11, 2002
MAXIMUM PEAK STAGE			10.28	Sep 17	11.71	Oct 11, 2002
INSTANTANEOUS LOW FLOW			0.41	Jul 10	0.00*	Aug 3, 2002
ANNUAL RUNOFF (CFSM)	1.70		1.21		1.64	
ANNUAL RUNOFF (INCHES)	23.02		16.54		22.24	
10 PERCENT EXCEEDS	82		51		79	
50 PERCENT EXCEEDS	11		11		12	
90 PERCENT EXCEEDS	1.9		2.1		2.1	

* See REMARKS.

e Estimated.

