485 NEUSE RIVER BASIN

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, NC.

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. Minimum discharge for current water year also occurred Oct. 7, 8, 9, 10.

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 FOR PERIOD MARCH TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	 	 	 	 	 	2.4 28 65 22 10	549 49 26 17 11	0.89 0.93 0.91 9.3 8.6	2.6 5.2 1.4 0.92 0.74	0.83 0.35 0.17 0.16 18	e0.02 e0.01 0.00 0.00 0.00	122 31 15 8.6 4.8
6 7 8 9 10	 	 	 	 	 	7.6 6.8 5.5 5.3 7.0	9.0 6.4 5.7 6.0 48	2.3 1.4 1.2 0.96 0.77	0.66 7.4 1.5 0.75 0.44	28 2.0 0.66 0.25 0.16	0.00 0.00 0.00 0.00 0.00	2.2 1.3 0.93 0.85 1.1
11 12 13 14 15	 	 	 	 	 	3.9 3.7 9.3 9.9 7.5	20 9.7 7.8 6.2 5.4	0.77 0.73 2.1 11 1.7	0.25 0.14 0.08 0.06 0.09	6.4 0.98 0.85 15 4.5	0.00 0.00 0.00 0.00 3.7	0.78 0.53 0.47 1.8 12
16 17 18 19 20	 	 	 	 	 	6.1 22 21 10 11	4.1 2.9 2.6 2.3 2.1	0.79 0.57 1.8 2.0 0.92	0.10 0.24 0.39 0.11 0.10	1.1 0.54 e0.22 e6.0 1.4	22 28 7.0 22 15	57 23 9.1 4.0 2.3
21 22 23 24 25	 	 	 	 	 	36 24 8.4 5.8 5.3	1.9 2.5 1.5 1.2 1.2	0.60 0.47 0.41 0.41 0.36	0.08 0.08 0.05 e0.10 e0.02	0.83 0.46 4.3 5.2 55	2.0 0.66 0.30 0.14 0.09	1.4 0.89 0.67 0.66 0.46
26 27 28 29 30 31	 	 	 	 	 	25 100 23 12 9.3 181	1.1 1.1 1.2 1.3 0.98	0.32 0.27 0.24 0.26 0.27 0.34	0.01 5.3 1.1 19 2.0	23 6.1 1.6 e0.60 e0.30 e0.03	3.0 21 20 7.9 101 420	0.58 3.3 3.0 1.1 0.61
TOTAL MEAN MAX MIN CFSM IN.	 	 	 	 	 	693.8 22.4 181 2.4 1.15 1.32	804.18 26.8 549 0.98 1.37 1.53	53.59 1.73 11 0.24 0.09 0.10	50.91 1.70 19 0.01 0.09 0.10	184.99 5.97 55 0.03 0.31 0.35	673.82 21.7 420 0.00 1.11 1.29	311.43 10.4 122 0.46 0.53 0.59
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD MARCH TO SEPTEMBER 2002												
MEAN MAX (WY) MIN (WY)	 	 	 	 	 	22.4 22.4 (2002) 22.4 (2002)	26.8 26.8 (2002) 26.8 (2002)	1.73 1.73 (2002) 1.73 (2002)	1.70 1.70 (2002) 1.70 (2002)	5.97 5.97 (2002) 5.97 (2002)	21.7 21.7 (2002) 21.7 (2002)	10.4 10.4 (2002) 10.4 (2002)

SUMMARY STATISTICS

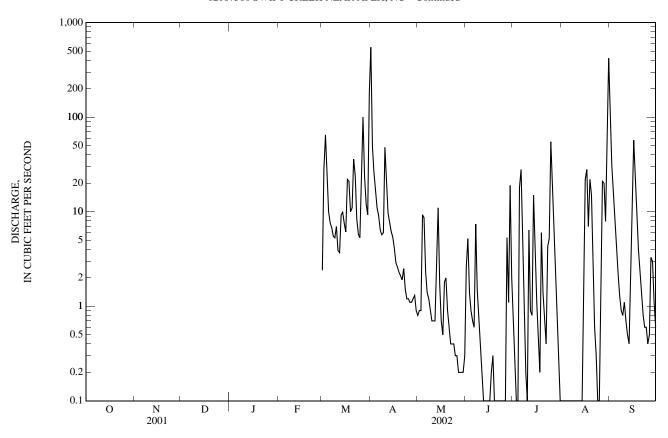
FOR PERIOD MARCH TO SEPTEMBER 2002

INSTANTANEOUS PEAK FLOW INSTANTANEOUS PEAK STAGE INSTANTANEOUS LOW FLOW 1,560 Apr 1 10.24 Apr 1 0.00* Aug 3

e Estimated.

^{*} See REMARKS.

02087580 SWIFT CREEK NEAR APEX, NC—Continued



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02087580 SWIFT CREEK NEAR APEX, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.43 0.46 0.36 0.26 0.24	21 15 10 11 18	4.8 3.1 3.2 3.6 228	123 52 45 28 15	19 11 10 18 16	52 170 44 24 36	19 13 11 9.2 12	6.9 5.9 5.1 4.0 6.0	35 9.4 4.4 9.8 9.1	57 258 101 23 13	21 60 19 9.7 120	46 13 7.0 24 40
6 7 8 9 10	0.12 0.11 0.09 0.09 0.12	163 37 20 14 11	71 44 22 13 8.4	9.3 5.5 6.3 6.0	16 172 39 17 62	388 68 30 21 16	12 87 52 321 865	21 14 8.3 5.1 3.5	2.7 88 171 40 17	9.3 5.9 3.3 2.6 2.6	31 16 914 273 131	9.7 4.9 45 26 10
11 12 13 14 15	836 107 26 19 9.8	21 154 152 40 23	56 34 212 101 31	3.5 2.8 2.0 2.2 2.8	34 17 9.2 7.4 15	12 12 13 34 14	147 47 27 21 17	2.7 2.4 1.9 1.3 1.7	6.5 18 15 3.4 108	3.3 6.0 2.3 13 8.7	60 20 11 30 20	5.8 4.0 3.3 2.6 2.1
16 17 18 19 20	96 31 16 8.4 4.6	26 141 76 29 19	18 9.7 7.8 13 123	1.8 5.8 3.1 2.1 1.9	17 26 61 58 39	146 48 25 18 571	16 14 11 12 12	8.4 3.7 5.5 54 15	257 41 18 65 61	3.7 13 5.2 8.0 3.7	8.8 7.5 31 39 12	26 11 154 98 19
21 22 23 24 25	157 66 32 18 14	15 15 11 8.2 7.4	47 19 12 81 136	1.8 1.8 4.6 3.7 1.3	25 460 177 37 21	111 39 24 18 14	12 17 10 7.0 17	6.8 162 92 31 27	31 14 10 6.5 4.0	2.1 1.3 1.4 1.5 1.0	6.5 5.7 6.3 2.9 1.7	10 14 65 19 9.7
26 27 28 29 30 31	12 9.3 60 92 105 38	6.8 6.7 4.8 2.9 3.2	41 19 13 10 8.0 7.3	1.7 2.0 1.2 1.5 43 60	16 260 233 	13 11 9.0 17 88 46	48 47 17 11 8.6	25 15 11 12 25 20	2.8 2.4 2.8 4.4 29	0.80 0.67 0.52 41 143 19	1.3 1.0 0.89 0.68 0.51	7.1 4.8 4.0 3.6 2.1
TOTAL MEAN MAX MIN CFSM IN.	1,759.38 56.8 836 0.09 2.91 3.36	1,082.0 36.1 163 2.9 1.85 2.06	1,399.9 45.2 228 3.1 2.32 2.67	452.7 14.6 123 1.2 0.75 0.86	1,892.6 67.6 460 7.4 3.47 3.61	2,132.0 68.8 571 9.0 3.53 4.07	1,919.8 64.0 865 7.0 3.28 3.66	603.2 19.5 162 1.3 1.00 1.15	1,086.2 36.2 257 2.4 1.86 2.07	754.89 24.4 258 0.52 1.25 1.44	2,022.48 65.2 914 0.51 3.35 3.86	690.7 23.0 154 2.1 1.18 1.32
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)												
MEAN MAX (WY) MIN (WY)	56.8 56.8 (2003) 56.8 (2003)	36.1 36.1 (2003) 36.1 (2003)	45.2 45.2 (2003) 45.2 (2003)	14.6 14.6 (2003) 14.6 (2003)	67.6 67.6 (2003) 67.6 (2003)	45.6 68.8 (2003) 22.4 (2002)	45.4 64.0 (2003) 26.8 (2002)	10.6 19.5 (2003) 1.73 (2002)	19.0 36.2 (2003) 1.70 (2002)	15.2 24.4 (2003) 5.97 (2002)	43.5 65.2 (2003) 21.7 (2002)	16.7 23.0 (2003) 10.4 (2002)
	SUMMARY STATISTICS				FOR 2003 WATER YEAR			WA	WATER YEARS 2002 - 2003			
	ANNUAL TOTAL ANNUAL MEAN				95.85 43.3			43.3				

SUMMARY STATISTICS	FOR 2003 WATER YEAR	WATER YEARS 2002 - 2003
ANNUAL TOTAL	95.85	
ANNUAL MEAN	43.3	43.3
HIGHEST ANNUAL MEAN		43.3 2003
LOWEST ANNUAL MEAN		43.3 2003
HIGHEST DAILY MEAN	14 Aug 8	914 Aug 8, 2003
LOWEST DAILY MEAN	0.09 Oct 8	0.00 Aug 3, 2002
ANNUAL SEVEN-DAY MINIMUM	0.15 Oct 4	0.00 Aug 3, 2002
MAXIMUM PEAK FLOW	20 Oct 11	2,720 Oct 11, 2002
MAXIMUM PEAK STAGE	11.71 Oct 11	11.71 Oct 11, 2002
INSTANTANEOUS LOW FLOW	0.09* Oct 6	0.00* Aug 3, 2002
ANNUAL RUNOFF (CFSM)	2.22	2.22
ANNUAL RUNOFF (INCHES)	30.13	30.15
10 PERCENT EXCEEDS	07	107
50 PERCENT EXCEEDS	14	14
90 PERCENT EXCEEDS	2.1	2.1

^{*} See REMARKS.

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