

Water-Data Report 2007

0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°41'37", long 78°41'32" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, 0.1 mi downstream of Secondary Road 1375, 0.1 mi downstream of Lake Wheeler, and 2.0 mi north of McCullars Crossroads.

DRAINAGE AREA.--35.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 251.46 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Some regulation by Lake Wheeler. Maximum gage height for period of record from floodmarks. No flow also occurred part of each day, June 27, 28, 29, 1993. Minimum discharge for current water year occurred on many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	12	37	35	21	21	14	5.9	0.01	0.08	0.05	0.01
2	6.4	9.1	58	49	61	107	13	5.3	0.01	0.02	0.03	0.01
3	3.0	4.2	36	34	48	92	11	3.6	15	0.02	0.02	0.02
4	2.0	1.9	34	25	31	46	14	6.3	34	0.05	0.02	0.01
5	1.1	1.3	28	22	20	28	11	6.3	14	0.07	0.02	0.01
6	4.7	1.0	21	182	16	18	7.8	5.7	7.5	0.07	0.01	0.01
7	13	61	19	126	15	17	9.2	4.0	4.7	0.07	0.02	0.01
8	62	537	14	129	14	14	7.2	2.9	3.6	0.07	0.02	0.01
9	48	128	12	108	14	13	6.1	3.5	2.3	0.07	0.02	0.01
10	27	54	11	60	13	13	5.7	4.3	1.5	0.11	0.01	0.01
11	18	28	10	35	13	13	6.6	4.5	0.82	0.23	0.01	0.01
12	17	170	10	26	12	12	107	8.2	0.76	0.04	0.02	0.01
13	16	161	11	23	14	12	79	17	3.1	0.03	0.01	0.01
14	12	72	11	22	75	12	34	12	19	0.03	0.01	0.08
15	5.3	37	12	21	65	12	139	8.0	12	0.03	0.01	0.06
16	2.5	377	12	20	36	167	672	6.6	7.7	0.02	0.01	0.01
17	6.1	439	11	17	23	550	142	4.0	5.2	0.19	0.02	0.01
18	43	103	11	18	20	124	60	3.4	3.6	144	0.02	0.01
19	37	48	10	33	15	59	31	2.6	2.8	77	0.02	0.01
20	28	27	9.7	28	16	36	20	2.3	2.8	24	0.02	0.06
21	19	30	9.6	23	13	25	15	1.2	3.2	8.1	0.04	0.02
22	15	1,100	21	125	16	21	12	0.78	2.5	4.0	0.02	0.02
23	13	584	174	98	12	19	11	0.62	1.5	2.1	0.02	0.02
24	8.1	125	95	55	11	17	8.5	0.44	0.91	1.2	0.02	0.02
25	4.4	63	286	36	18	15	8.1	0.38	0.57	0.70	0.02	0.02
26	3.0	37	626	25	74	14	6.6	0.32	0.34	0.40	0.12	0.10
27	5.0	25	136	21	51	14	8.2	0.21	0.20	0.31	0.02	0.05
28	41	21	68	20	30	13	15	0.25	0.34	0.28	0.02	0.03
29	37	19	41	17	---	15	11	0.05	0.32	0.10	0.02	0.05
30	21	18	29	15	---	18	7.9	0.02	0.22	0.05	0.02	0.06
31	16	---	23	14	---	15	---	0.01	---	0.05	0.01	---
Total	546.6	4,293.5	1,886.3	1,462	767	1,552	1,492.9	120.68	150.50	263.49	0.70	0.77
Mean	17.6	143	60.8	47.2	27.4	50.1	49.8	3.89	5.02	8.50	0.02	0.03
Max	62	1,100	626	182	75	550	672	17	34	144	0.12	0.10
Min	1.1	1.0	9.6	14	11	12	5.7	0.01	0.01	0.02	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	24.0	32.2	29.4	56.4	53.6	67.4	41.5	22.2	29.1	21.9	26.0	41.5
Max	106	143	74.2	183	159	183	110	75.7	91.5	130	112	323
(WY)	(1996)	(2007)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(2001)	(2001)	(2003)	(1999)
Min	4.38	0.99	7.46	12.1	14.4	12.7	10.7	3.89	0.06	1.16	0.02	0.03
(WY)	(1992)	(2002)	(2002)	(2001)	(1991)	(2006)	(1995)	(2007)	(2002)	(1988)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007	
Annual total	13,288.36		12,536.44			
Annual mean	36.4		34.3		37.6	
Highest annual mean					70.8	2003
Lowest annual mean					18.4	1992
Highest daily mean	1,100	Nov 22	1,100	Nov 22	2,700	Sep 6, 1996
Lowest daily mean	0.01	Aug 13	0.01	May 31	0.01	Jun 28, 1993
Annual seven-day minimum	0.01	Aug 13	0.01	Sep 4	0.01	Aug 13, 2006
Maximum peak flow			1,580		6,790	Sep 6, 1996
Maximum peak stage			10.94		^a 14.15	Sep 6, 1996
Instantaneous low flow			^a 0.01		^a 0.00	Jun 27, 1993
10 percent exceeds	64		70		77	
50 percent exceeds	14		11		14	
90 percent exceeds	0.52		0.02		0.39	

^a See Remarks.

