

Water-Data Report 2008

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.--Records poor. Some regulation by Lake Wheeler. Maximum gage height for period of record from floodmarks. No flow occurred part of each day, June 27, 28, 29, 1993 and many days in July and August, 2008.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.17	5.9	e0.06	111	19	20	117	38	4.3	7.3	0.00	31
2	0.04	3.9	e0.14	51	39	13	69	23	3.3	3.5	0.00	9.9
3	0.10	2.6	e3.9	24	30	11	36	16	2.7	2.0	0.00	4.4
4	0.03	1.7	e0.31	16	20	12	42	11	2.3	1.2	0.00	2.0
5	0.05	1.3	e0.18	12	16	113	161	8.4	1.7	23	0.00	1.3
6	0.03	1.5	e0.33	11	16	85	135	7.4	1.0	45	0.00	938
7	0.03	0.46	e0.14	9.6	11	83	79	6.8	0.65	87	0.00	497
8	0.03	0.27	e0.22	9.0	8.1	213	45	6.2	0.20	43	0.00	86
9	0.03	0.21	e0.20	9.4	8.1	109	29	9.3	0.06	22	0.00	33
10	0.04	0.26	0.52	7.9	12	56	21	15	0.03	63	0.00	27
11	0.03	0.20	0.48	10	3.3	34	17	19	0.01	32	0.00	19
12	0.03	0.31	1.9	7.0	3.7	24	18	62	0.01	12	0.00	12
13	0.04	0.09	1.7	6.5	29	16	13	38	0.01	5.3	0.00	8.0
14	0.04	e0.05	1.5	6.6	69	14	9.1	20	0.01	3.7	0.00	6.1
15	0.19	e0.65	2.1	5.9	46	14	7.9	14	0.15	7.4	0.00	3.5
16	0.01	e0.61	52	4.4	28	102	6.5	19	0.59	5.1	0.00	15
17	0.09	e0.15	40	8.0	18	62	5.8	42	0.43	2.4	0.00	73
18	0.08	e0.09	15	19	38	32	5.4	30	0.06	2.6	0.00	34
19	0.13	e0.07	7.8	22	40	26	4.9	40	0.01	6.7	0.00	13
20	0.12	e0.08	4.7	31	26	30	9.1	29	1.5	6.0	0.00	6.3
21	0.11	e0.52	3.3	24	14	20	16	45	2.9	4.2	0.00	4.1
22	0.14	e2.2	2.5	17	15	16	22	28	13	2.2	0.00	3.0
23	0.15	e0.08	3.1	15	17	9.5	27	15	16	0.81	0.00	2.2
24	0.39	e0.04	3.0	13	15	8.2	21	10	11	0.50	0.00	1.6
25	0.07	e0.05	2.6	9.9	13	7.3	15	7.7	7.1	0.07	0.00	1.6
26	40	e0.13	19	8.4	17	7.7	11	6.2	4.5	0.09	0.00	28
27	680	e0.57	56	7.8	68	6.8	12	4.9	2.4	0.01	0.11	35
28	181	e0.08	31	7.1	49	6.3	154	4.7	1.5	0.00	86	41
29	52	e0.14	19	7.6	28	4.5	192	8.0	1.1	0.00	58	25
30	18	e0.05	151	8.7	---	6.4	78	7.0	6.3	0.00	20	12
31	8.8	---	466	6.6	---	38	---	6.6	---	0.00	66	---
Total	981.97	24.26	889.68	506.4	716.2	1,199.7	1,378.7	597.2	84.82	388.08	230.11	1,973.0
Mean	31.7	0.81	28.7	16.3	24.7	38.7	46.0	19.3	2.83	12.5	7.42	65.8
Max	680	5.9	466	111	69	213	192	62	16	87	86	938
Min	0.01	0.04	0.06	4.4	3.3	4.5	4.9	4.7	0.01	0.00	0.00	1.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	24.4	30.5	29.3	54.5	52.2	66.1	41.7	22.0	27.8	21.5	25.1	42.8
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	0.81	7.46	12.1	14.4	12.7	10.7	3.89	0.06	1.16	0.02	0.03
(WY)	(1992)	(2008)	(2002)	(2001)	(1991)	(2006)	(1995)	(2007)	(2002)	(1988)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1988 - 2008	
Annual total	7,705.95		8,970.12			
Annual mean	21.1		24.5		36.9	
Highest annual mean					70.8	2003
Lowest annual mean					18.4	1992
Highest daily mean	680	Oct 27	938	Sep 6	2,700	Sep 6, 1996
Lowest daily mean	0.01	May 31	0.00	Jul 28	0.00	Jul 28, 2008
Annual seven-day minimum	0.01	Sep 4	0.00	Jul 28	0.00	Jul 28, 2008
Maximum peak flow			1,690	Sep 6	6,790	Sep 6, 1996
Maximum peak stage			11.06	Sep 6	^a 14.15	Sep 6, 1996
Instantaneous low flow			^a 0.00	Jul 26	^a 0.00	Jun 27, 1993
10 percent exceeds	47		51		75	
50 percent exceeds	2.6		7.0		14	
90 percent exceeds	0.02		0.01		0.32	

^aSee Remarks.