



Water-Data Report 2010

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 streamgage.

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.

0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.8	e5.5	8.1	37	32	17	33	3.5	36	4.1	22	3.0
2	1.1	e15	31	31	41	17	26	3.7	55	4.4	22	5.3
3	0.85	e11	679	24	97	36	21	3.4	80	4.7	22	6.5
4	0.56	e5.5	192	18	108	44	19	2.7	39	4.7	22	6.5
5	0.39	e3.5	95	16	186	33	15	2.5	23	4.7	37	6.5
6	0.61	e1.3	76	15	737	25	13	2.7	17	5.2	182	6.5
7	1.3	e0.66	46	13	186	21	10	2.1	23	6.1	75	6.5
8	0.33	e0.38	33	16	80	19	8.9	3.0	17	6.4	33	6.5
9	e0.25	e0.07	213	13	56	18	36	1.8	11	6.4	18	6.5
10	e0.20	e1.5	163	12	101	19	33	1.8	7.1	6.5	3.1	11
11	e0.23	346	69	11	59	30	21	1.8	4.9	6.5	3.0	14
12	e0.27	497	41	10	39	54	14	1.8	4.5	5.0	3.0	13
13	e0.37	153	38	8.2	39	125	9.9	1.8	17	4.1	2.9	14
14	e0.40	66	44	8.2	37	98	7.3	1.8	17	4.5	2.9	14
15	e0.78	37	37	8.5	33	54	6.5	1.8	9.5	6.1	3.0	14
16	e0.91	26	30	8.7	30	35	7.0	1.8	7.1	6.9	3.2	14
17	e0.76	20	25	112	26	27	6.2	1.7	6.2	7.0	3.1	14
18	e0.50	20	24	180	22	23	5.1	18	4.4	7.3	4.6	14
19	e0.28	31	110	81	20	22	4.7	101	3.9	7.5	6.5	14
20	e0.80	28	101	44	19	19	4.4	75	3.5	6.6	90	14
21	e0.40	22	54	37	18	17	4.4	32	3.3	7.7	76	14
22	e0.50	16	37	189	22	20	4.5	20	3.2	7.7	35	14
23	e0.66	26	30	101	35	18	3.2	109	3.7	9.6	24	14
24	e0.50	38	26	52	31	11	2.4	176	4.2	19	154	15
25	e0.40	29	37	227	32	12	10	88	4.1	19	249	15
26	e0.30	21	104	154	29	13	15	41	4.1	20	79	16
27	e0.20	16	62	67	22	12	9.8	24	4.1	23	30	11
28	e1.3	8.2	41	40	20	11	6.4	17	4.1	22	16	2.4
29	e0.57	6.4	30	29	---	139	4.5	90	4.1	23	8.8	7.0
30	e0.44	6.9	24	40	---	130	3.9	49	4.1	22	5.5	690
31	e0.92	---	32	38	---	56	---	25	---	22	3.9	---
Total	18.88	1,457.91	2,532.1	1,640.6	2,157	1,175	365.1	904.7	425.1	309.7	1,239.5	1,002.2
Mean	0.61	48.6	81.7	52.9	77.0	37.9	12.2	29.2	14.2	9.99	40.0	33.4
Max	1.8	497	679	227	737	139	36	176	80	23	249	690
Min	0.20	0.07	8.1	8.2	18	11	2.4	1.7	3.2	4.1	2.9	2.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	22.3	30.5	32.9	53.6	51.7	66.0	39.6	22.4	28.4	20.1	24.9	40.8
Max	106	143	81.7	183	159	183	110	75.7	91.5	130	112	323
(WY)	(1996)	(2007)	(2010)	(1998)	(1998)	(1998)	(2003)	(1989)	(2001)	(2001)	(2003)	(1999)
Min	0.61	0.81	7.46	12.1	14.4	12.7	10.7	3.89	0.06	1.16	0.02	0.03
(WY)	(2010)	(2008)	(2002)	(2001)	(1991)	(2006)	(1995)	(2007)	(2002)	(1988)	(2007)	(2007)

0208758850 SWIFT CREEK NEAR MCCOLLARS CROSSROADS, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1988 - 2010	
Annual total	11,856.81		13,227.79			
Annual mean	32.5		36.2		36.4	
Highest annual mean					70.8	2003
Lowest annual mean					18.4	1992
Highest daily mean	679	Dec 3	737	Feb 6	2,700	Sep 6, 1996
Lowest daily mean	0.07	Nov 9	0.07	Nov 9	0.00	Jul 28, 2008
Annual seven-day minimum	0.29	Oct 8	0.29	Oct 8	0.00	Jul 28, 2008
Maximum peak flow			1,090	Sep 30	6,790	Sep 6, 1996
Maximum peak stage			10.22	Sep 30	^a 14.15	Sep 6, 1996
Instantaneous low flow			Not Determined		^a 0.00	Jun 27, 1993
10 percent exceeds	67		89		75	
50 percent exceeds	12		15		14	
90 percent exceeds	0.67		1.8		0.39	

^a See Remarks.

