

Water-Data Report 2010

**02090380 CONTENTNEA CREEK NEAR LUCAMA, NC**

Neuse Basin  
Contentnea Subbasin

LOCATION.--Lat 35°41'28", long 78°06'35" referenced to North American Datum of 1983, Wilson County, NC, Hydrologic Unit 03020203, on right bank 250 ft upstream from bridge on North Carolina Highway 581, 1.0 mi downstream of Buckhorn Reservoir, 1.0 mi upstream from Buckhorn Branch, and 6.5 mi northwest of Lucama.

DRAINAGE AREA.--161 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 116.83 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since September 1976, some regulation at low flow by Buckhorn Reservoir 1 mi upstream. Maximum discharge for period of record, from rating curve extended above 6,000 ft<sup>3</sup>/s, on basis of flow over dam measurement of peak flow; maximum gage height from flood marks. Minimum discharge for period of record also occurred Sept. 10-14, 1976, due to regulation. Minimum discharge for current water year also occurred November 16.

## 02090380 CONTENTNEA CREEK NEAR LUCAMA, 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	35	18	48	206	198	112	955	32	125	17	25	24
2	34	17	56	270	201	124	427	32	155	17	24	24
3	34	18	189	201	299	225	273	32	320	17	24	25
4	33	19	278	120	486	276	208	24	373	17	24	25
5	31	20	307	120	671	246	169	23	247	16	26	24
6	29	20	233	112	1,940	197	142	30	165	19	25	23
7	27	20	185	92	2,160	163	122	28	118	23	25	23
8	27	19	155	133	1,460	143	105	60	80	23	25	23
9	26	19	561	85	700	130	133	53	58	23	25	23
10	25	20	1,010	79	628	122	132	6.2	50	28	25	23
11	25	27	943	76	369	120	175	11	33	24	26	23
12	24	24	529	83	278	137	148	23	33	24	29	23
13	23	11	301	84	275	202	120	16	55	24	26	22
14	23	0.18	221	84	243	272	98	24	94	24	25	22
15	22	0.08	191	84	219	259	85	38	119	23	24	22
16	21	9.2	168	84	238	205	85	37	95	23	24	22
17	20	18	142	204	204	164	80	36	157	26	28	22
18	20	19	128	570	170	143	59	611	161	23	27	22
19	19	20	192	629	152	129	42	987	117	24	26	22
20	19	23	203	432	133	116	35	834	91	28	e27	22
21	18	19	202	300	130	102	40	427	63	23	e26	25
22	17	23	176	714	137	132	59	227	40	22	e25	31
23	17	61	152	836	162	179	55	182	40	24	e25	31
24	18	88	134	626	172	136	53	533	23	25	26	31
25	18	96	137	837	227	124	80	936	21	24	26	31
26	18	105	246	989	175	128	91	602	20	26	25	31
27	18	114	296	816	133	100	88	319	21	26	25	34
28	18	74	275	472	149	88	69	189	21	25	25	33
29	17	43	206	291	---	1,620	31	207	21	27	25	22
30	17	64	144	273	---	3,900	34	190	18	25	25	1,110
31	18	---	162	236	---	2,300	---	152	---	25	25	---
<b>Total</b>	711	1,028.46	8,170	10,138	12,309	12,294	4,193	6,901.2	2,934	715	788	1,838
<b>Mean</b>	22.9	34.3	264	327	440	397	140	223	97.8	23.1	25.4	61.3
<b>Max</b>	35	114	1,010	989	2,160	3,900	955	987	373	28	29	1,110
<b>Min</b>	17	0.08	48	76	130	88	31	6.2	18	16	24	22
<b>Cfsm</b>	0.14	0.21	1.64	2.03	2.73	2.46	0.87	1.38	0.61	0.14	0.16	0.38
<b>In.</b>	0.16	0.24	1.89	2.34	2.84	2.84	0.97	1.59	0.68	0.17	0.18	0.42

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	77.0	95.8	140	248	285	325	197	117	95.9	78.9	98.8	100
<b>Max</b>	644	521	404	690	633	803	701	537	359	624	512	1,326
<b>(WY)</b>	(1965)	(2007)	(1973)	(1987)	(1998)	(1989)	(1987)	(1989)	(1965)	(1984)	(1986)	(1999)
<b>Min</b>	2.05	2.76	6.10	1.23	8.14	50.1	24.7	8.08	10.4	3.96	3.18	2.52
<b>(WY)</b>	(1981)	(1974)	(2008)	(2008)	(2008)	(2006)	(1986)	(1981)	(1970)	(1981)	(1980)	(1968)

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1964 - 2010	
<b>Annual total</b>	41,733.16		62,019.66			
<b>Annual mean</b>	114		170		153	
<b>Highest annual mean</b>					299	2003
<b>Lowest annual mean</b>					35.5	1981
<b>Highest daily mean</b>	1,130	Mar 3	3,900	Mar 30	13,000	Sep 17, 1999
<b>Lowest daily mean</b>	0.08	Nov 15	0.08	Nov 15	0.04	Sep 9, 1976
<b>Annual seven-day minimum</b>	10	Jun 3	11	Nov 13	0.04	Sep 8, 1976
<b>Maximum peak flow</b>			4,210	Mar 30	<sup>a</sup> 24,000	Sep 17, 1999
<b>Maximum peak stage</b>			14.08	Mar 30	<sup>a</sup> 24.82	Sep 17, 1999
<b>Instantaneous low flow</b>			<sup>a</sup> 0.07	Nov 15	<sup>a</sup> 0.04	Sep 9, 1976
<b>Annual runoff (cfsm)</b>	0.710		1.06		0.952	
<b>Annual runoff (inches)</b>	9.64		14.33		12.93	
<b>10 percent exceeds</b>	275		340		365	
<b>50 percent exceeds</b>	40		56		65	
<b>90 percent exceeds</b>	17		20		11	

<sup>a</sup> See Remarks.

