

Water-Data Report 2008

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 mi².

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 station.

REMARKS.--No estimated daily discharges. Records fair. 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 ft³/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 February 5.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17	2.2	14	1.2	1.8	45	112	726	22	22	13	12
2	16	3.2	7.3	1.3	1.1	21	154	348	12	21	13	12
3	12	4.3	10	1.3	0.91	22	147	203	4.4	19	13	12
4	17	4.9	13	1.4	0.86	25	151	133	13	12	13	12
5	17	5.3	13	1.3	0.88	151	319	100	9.0	13	13	12
6	17	8.3	13	1.2	0.94	177	864	81	13	13	13	35
7	15	9.0	12	1.2	1.00	213	876	63	20	14	13	14
8	15	10	12	1.2	1.4	541	580	49	19	14	13	14
9	15	11	12	1.2	4.0	510	339	74	19	15	13	14
10	11	12	12	1.2	8.3	360	236	65	29	14	12	15
11	12	14	12	1.3	3.0	234	175	46	29	14	12	20
12	13	16	11	1.3	3.1	178	155	82	29	13	12	26
13	12	17	9.2	1.3	3.7	122	170	47	29	13	12	35
14	11	18	6.9	1.3	4.3	102	122	42	31	14	12	36
15	11	21	5.0	1.3	3.3	97	96	43	29	13	12	23
16	9.9	30	4.9	1.3	3.3	140	74	64	28	13	12	17
17	10	49	2.5	1.4	3.3	139	64	54	33	13	12	28
18	12	39	1.1	1.2	4.5	126	57	58	29	13	12	26
19	10	39	1.0	1.4	7.9	117	49	60	28	13	12	16
20	7.9	40	1.1	1.3	4.1	186	196	59	23	14	12	17
21	5.0	40	1.1	1.2	3.1	54	414	71	15	14	13	8.3
22	2.8	42	1.1	1.2	3.6	59	326	68	15	14	12	6.1
23	1.8	43	1.5	1.2	3.2	41	232	46	15	14	11	6.5
24	4.7	41	1.4	1.1	3.1	55	182	46	14	14	11	8.8
25	7.9	41	1.4	1.1	4.4	37	136	39	12	14	11	21
26	2.2	41	2.4	1.1	12	37	102	33	12	14	11	79
27	2.9	41	1.5	1.1	91	33	79	28	14	14	12	188
28	2.1	41	1.2	1.1	39	33	530	28	23	15	12	223
29	2.2	40	1.2	1.1	15	26	1,140	37	23	13	12	183
30	2.1	29	1.8	1.1	---	33	1,040	26	22	13	12	131
31	2.3	---	1.4	1.1	---	63	---	31	---	14	13	---
Total	296.8	752.2	189.0	38.0	236.09	3,977	9,117	2,850	613.4	443	379	1,250.7
Mean	9.57	25.1	6.10	1.23	8.14	128	304	91.9	20.4	14.3	12.2	41.7
Max	17	49	14	1.4	91	541	1,140	726	33	22	13	223
Min	1.8	2.2	1.0	1.1	0.86	21	49	26	4.4	12	11	6.1
Cfsm	0.06	0.16	0.04	0.01	0.05	0.80	1.89	0.57	0.13	0.09	0.08	0.26
In.	0.07	0.17	0.04	0.01	0.05	0.92	2.11	0.66	0.14	0.10	0.09	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	79.6	98.1	137	249	286	322	200	116	95.7	81.6	102	102
Max	644	521	404	690	633	803	701	537	359	624	512	1,326
(WY)	(1965)	(2007)	(1973)	(1987)	(1998)	(1989)	(1987)	(1989)	(1965)	(1984)	(1986)	(1999)
Min	2.05	2.76	6.10	1.23	8.14	50.1	24.7	8.08	10.4	3.96	3.18	2.52
(WY)	(1981)	(1974)	(2008)	(2008)	(2008)	(2006)	(1986)	(1981)	(1970)	(1981)	(1980)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1964 - 2008	
Annual total	24,470.5		20,142.19			
Annual mean	67.0		55.0		154	
Highest annual mean					299	
Lowest annual mean					35.5	
Highest daily mean	722	Mar 4	1,140	Apr 29	13,000	Sep 17, 1999
Lowest daily mean	1.0	Dec 19	0.86	Feb 4	0.04	Sep 9, 1976
Annual seven-day minimum	1.2	Dec 18	1.0	Feb 2	0.04	Sep 8, 1976
Maximum peak flow			1,210	Apr 29	^a 24,000	Sep 17, 1999
Maximum peak stage			8.80	Apr 29	^a 24.82	Sep 17, 1999
Instantaneous low flow			^a 0.82	Feb 4	^a 0.04	Sep 9, 1976
Annual runoff (cfs)	0.416		0.342		0.956	
Annual runoff (inches)	5.65		4.65		12.99	
10 percent exceeds	175		139		369	
50 percent exceeds	30		14		66	
90 percent exceeds	7.4		1.3		11	

^aSee Remarks.