

Water-Data Report 2007

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 NGVD of 1929 (levels by North Carolina Geodetic Survey). 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 August 29.

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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	34	27	158	196	113	138	68	15	26	33	33	11
2	33	39	169	182	187	245	68	20	34	33	33	12
3	33	40	196	171	236	538	56	9.2	30	32	32	12
4	33	25	220	160	215	722	71	9.7	23	32	32	15
5	33	25	173	167	176	433	71	11	19	32	31	18
6	36	24	155	272	127	232	20	20	37	32	31	18
7	38	29	173	350	118	174	88	20	26	32	31	17
8	33	98	129	421	114	132	20	21	26	32	30	17
9	33	187	88	416	101	113	10	19	26	32	29	18
10	33	181	88	354	94	106	6.7	20	25	34	29	21
11	33	140	88	242	84	103	7.6	19	25	34	29	28
12	35	267	88	194	84	93	55	20	26	34	28	28
13	33	308	87	165	89	88	70	23	25	34	28	28
14	36	397	87	147	211	84	45	20	25	34	27	29
15	33	302	87	137	240	83	142	26	24	34	27	30
16	28	797	84	142	234	123	464	31	24	34	26	30
17	24	2,010	80	109	170	318	353	19	24	34	27	29
18	24	1,890	78	112	206	404	229	15	26	35	27	29
19	23	1,080	74	152	98	316	156	17	33	34	27	28
20	33	438	71	163	96	220	117	17	33	34	26	29
21	24	268	68	132	89	155	95	11	33	34	26	28
22	24	953	76	321	138	128	79	17	33	33	27	18
23	36	1,860	201	508	122	114	68	17	33	33	24	18
24	43	1,900	274	439	75	104	56	17	33	33	23	14
25	26	1,060	515	342	85	92	48	17	33	33	23	11
26	23	461	1,500	215	167	86	34	18	33	33	25	11
27	24	286	1,460	166	228	83	42	18	33	33	16	13
28	62	212	891	174	188	74	58	19	33	33	4.8	17
29	37	171	443	159	---	70	55	19	33	32	7.5	17
30	24	149	281	94	---	69	24	23	33	32	11	17
31	28	---	209	104	---	67	---	23	---	33	12	---
Total	992	15,624	8,291	6,906	4,085	5,707	2,676.3	570.9	867	1,027	782.3	611
Mean	32.0	521	267	223	146	184	89.2	18.4	28.9	33.1	25.2	20.4
Max	62	2,010	1,500	508	240	722	464	31	37	35	33	30
Min	23	24	68	94	75	67	6.7	9.2	19	32	4.8	11
Cfsm	0.20	3.23	1.66	1.38	0.91	1.14	0.55	0.11	0.18	0.21	0.16	0.13
In.	0.23	3.61	1.92	1.60	0.94	1.32	0.62	0.13	0.20	0.24	0.18	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	81.3	99.8	140	255	292	326	198	117	97.5	83.2	104	104
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	21.2	39.4	81.2	50.1	24.7	8.08	10.4	3.96	3.18	2.52
(WY)	(1981)	(1974)	(1966)	(1981)	(2006)	(2006)	(1986)	(1981)	(1970)	(1981)	(1980)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1964 - 2007	
Annual total	51,069.5		48,139.5			
Annual mean	140		132		156	
Highest annual mean					299	2003
Lowest annual mean					35.5	1981
Highest daily mean	2,970	Jun 16	2,010	Nov 17	13,000	Sep 17, 1999
Lowest daily mean	7.9	Jun 1	4.8	Aug 28	0.04	Sep 9, 1976
Annual seven-day minimum	13	May 28	10	Aug 28	0.04	Sep 8, 1976
Maximum peak flow			2,090	Nov 17	^a 24,000	Sep 17, 1999
Maximum peak stage			11.18	Nov 17	^a 24.82	Sep 17, 1999
Instantaneous low flow			^a 3.7	Aug 28	^a 0.04	Sep 9, 1976
Annual runoff (cfsm)	0.869		0.819		0.971	
Annual runoff (inches)	11.80		11.12		13.20	
10 percent exceeds	251		277		375	
50 percent exceeds	50		34		68	
90 percent exceeds	18		18		11	

^a See Remarks.

