

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC

LOCATION.--Lat 35°41'29", long 78°06'38", Wilson County, Hydrologic Unit 03020203, on right bank 250 ft upstream from bridge on State 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.

WATER-DISCHARGE 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.--Records good except those for estimated daily discharges, which are fair. Since September 1976, some regulation at low flow by Buckhorn Reservoir (station 02090370) 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 Sept. 12, due to regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	20	24	29	209	15	617	14	31	25	21	902
2	17	21	24	29	156	20	680	27	29	22	21	923
3	14	21	24	37	128	122	604	35	29	21	21	626
4	15	22	24	52	217	243	359	29	29	19	24	356
5	16	23	24	33	84	156	231	38	29	21	43	192
6	25	23	24	57	46	104	179	29	29	10	42	117
7	27	23	24	167	186	74	140	36	29	9.2	26	72
8	14	22	24	226	410	63	118	30	29	8.6	25	50
9	19	22	23	214	473	55	111	35	29	9.6	24	39
10	18	22	23	188	371	108	105	34	28	14	23	49
11	17	22	24	179	329	34	98	28	28	16	23	34
12	16	22	25	151	222	42	93	31	27	14	25	7.9
13	16	22	26	182	193	66	93	47	27	14	36	13
14	16	22	27	159	150	74	96	78	27	14	35	16
15	23	22	31	166	124	80	108	31	27	13	35	22
16	33	22	28	143	114	85	98	26	27	12	36	39
17	47	22	28	128	156	68	85	27	25	13	40	59
18	12	21	74	113	62	73	73	31	22	25	40	175
19	11	21	27	122	49	68	70	24	22	42	35	199
20	11	21	64	343	49	84	77	23	22	42	31	140
21	11	21	39	590	63	88	79	23	22	43	30	92
22	16	21	29	626	47	147	89	23	23	42	30	61
23	23	21	29	e726	41	79	56	23	22	42	31	44
24	25	23	34	853	39	70	35	23	22	42	39	28
25	46	23	30	980	36	63	54	22	22	31	39	20
26	57	23	31	824	43	59	30	22	23	22	23	18
27	33	23	35	585	108	129	22	21	29	23	16	25
28	23	23	30	413	33	158	49	21	27	23	9.8	34
29	19	23	32	306	---	156	57	21	27	17	20	24
30	20	23	31	248	---	149	17	21	27	12	17	18
31	20	---	29	209	---	190	---	22	---	12	252	---
TOTAL	695	660	941	9078	4138	2922	4523	895	789	673.4	1112.8	4394.9
MEAN	22.42	22.00	30.35	292.8	147.8	94.26	150.8	28.87	26.30	21.72	35.90	146.5
MAX	57	23	74	980	473	243	680	78	31	43	252	923
MIN	11	20	23	29	33	15	17	14	22	8.6	9.8	7.9
CFSM	0.14	0.14	0.19	1.82	0.92	0.59	0.94	0.18	0.16	0.13	0.22	0.91
IN.	0.16	0.15	0.22	2.10	0.96	0.68	1.05	0.21	0.18	0.16	0.26	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	82.04	85.64	132.6	265.5	302.5	329.3	198.4	116.9	92.68	86.62	99.13	100.9
MAX	644	304	404	690	633	803	701	537	359	624	512	1326
(WY)	1965	1996	1973	1987	1998	1989	1987	1989	1965	1984	1986	1999
MIN	2.05	2.76	21.2	39.4	87.5	67.7	24.7	8.08	10.4	3.96	3.18	2.52
(WY)	1981	1974	1966	1981	1986	1981	1986	1981	1970	1981	1980	1968

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1964 - 2002
ANNUAL TOTAL	43425	30822.1	
ANNUAL MEAN	119.0	84.44	155.8
HIGHEST ANNUAL MEAN			278
LOWEST ANNUAL MEAN			35.5
HIGHEST DAILY MEAN	1780	980	13000
LOWEST DAILY MEAN	11	7.9	0.04
ANNUAL SEVEN-DAY MINIMUM	16	12	0.04
MAXIMUM PEAK FLOW		1040	24000*
MAXIMUM PEAK STAGE		8.03	24.82*
INSTANTANEOUS LOW FLOW		6.2*	0.04*
ANNUAL RUNOFF (CFSM)	0.74	0.52	0.97
ANNUAL RUNOFF (INCHES)	10.03	7.12	13.15
10 PERCENT EXCEEDS	227	189	375
50 PERCENT EXCEEDS	52	30	67
90 PERCENT EXCEEDS	21	17	11

e Estimated.

* See REMARKS.

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC--Continued

