

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC

LOCATION.--Lat 35°41'28", long 78°06'35", 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.

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 fair except those for estimated daily discharges, which are poor. 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 year due to regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	43	320	207	239	427	349	61	19	22	22	29
2	183	46	183	208	197	428	363	55	31	21	21	29
3	165	43	159	191	183	292	445	50	75	21	20	29
4	144	58	126	178	234	187	373	45	120	21	20	29
5	114	74	110	172	238	161	281	37	111	21	20	29
6	82	43	100	174	208	144	207	197	90	21	20	29
7	62	43	99	159	176	121	160	459	93	21	19	29
8	50	42	98	143	156	242	156	469	92	23	19	29
9	45	42	91	122	143	184	223	282	81	21	19	29
10	43	38	109	110	194	226	437	163	75	20	19	29
11	37	41	143	100	120	210	386	119	61	20	19	29
12	39	62	153	96	91	167	227	91	48	20	19	29
13	79	129	169	94	76	128	437	80	42	21	19	29
14	137	157	129	363	91	145	688	73	35	20	19	25
15	319	154	77	985	95	143	530	75	32	20	19	16
16	312	125	60	1,140	102	164	320	134	31	21	19	16
17	193	102	62	704	107	580	203	194	11	21	19	16
18	128	87	67	365	101	896	158	156	6.1	21	19	16
19	108	77	94	240	54	791	134	137	5.8	21	19	16
20	89	72	e160	195	58	533	120	499	4.2	21	19	19
21	72	66	e90	181	74	332	100	506	2.3	21	19	22
22	62	59	34	177	74	222	81	276	19	22	19	17
23	56	108	68	262	75	279	108	163	22	22	19	17
24	50	213	92	111	117	500	84	120	23	21	19	17
25	50	341	93	112	167	550	51	81	36	21	18	17
26	54	181	150	120	174	407	29	75	36	21	18	17
27	49	142	145	120	150	265	56	45	35	21	18	17
28	45	326	123	110	224	328	53	43	35	21	17	17
29	44	446	116	102	---	630	33	37	28	22	16	17
30	51	417	120	152	---	707	48	26	21	22	16	27
31	54	---	165	222	---	545	---	20	---	22	24	---
TOTAL	3,035	3,777	3,705	7,615	3,918	10,934	6,840	4,768	1,320.4	654	592	686
MEAN	97.9	126	120	246	140	353	228	154	44.0	21.1	19.1	22.9
MAX	319	446	320	1,140	239	896	688	506	120	23	24	29
MIN	37	38	34	94	54	121	29	20	2.3	20	16	16
CFSM	0.61	0.78	0.74	1.53	0.87	2.19	1.42	0.96	0.27	0.13	0.12	0.14
IN.	0.70	0.87	0.86	1.76	0.91	2.53	1.58	1.10	0.31	0.15	0.14	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	84.1	91.6	139	258	301	336	204	120	93.8	85.7	108	105
MAX	644	304	404	690	633	803	701	537	359	624	512	1,326
(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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	56,840		47,844.4			
ANNUAL MEAN	155		131		159	
HIGHEST ANNUAL MEAN					299	2003
LOWEST ANNUAL MEAN					35.5	1981
HIGHEST DAILY MEAN	2,620	Sep 1	1,140	Jan 16	13,000	Sep 17, 1999
LOWEST DAILY MEAN	16	May 30	2.3	Jun 21	0.04	Sep 9, 1976
ANNUAL SEVEN-DAY MINIMUM	22	May 16	10	Jun 17	0.04	Sep 8, 1976
MAXIMUM PEAK FLOW			1,230	Jan 16	24,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			8.42	Jan 16	24.82*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			0.78*	Jun 21	0.04*	Sep 9, 1976
ANNUAL RUNOFF (CFSM)	0.965		0.814		0.988	
ANNUAL RUNOFF (INCHES)	13.13		11.05		13.42	
10 PERCENT EXCEEDS	336		322		384	
50 PERCENT EXCEEDS	96		81		70	
90 PERCENT EXCEEDS	40		19		11	

* See REMARKS.

e Estimated.

