

## 02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'45", long 77°34'58", Greene County, Hydrologic Unit 03020203, on left bank at bridge on State Highway 123 at Hookerton, and 2.2 mi upstream from Wheat Swamp Creek.

DRAINAGE AREA.--733 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1928 to current year.

REVISED RECORDS.--WSP 1333: 1903-35. WSP 1383: Drainage area. WSP 1503: 1951. WSP 1723: 1932. WDR NC-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.85 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 26, 1934, nonrecording gage at site 1,400 ft upstream and Nov. 27, 1934, to Sept. 30, 1987, water-stage recorder at site 0.3 mi upstream at present datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Buckhorn Reservoir (station 02090370) since September 1976. Maximum gage height for period of record from high-water mark inside gage house.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 23.3 ft, from floodmark; high water of autumn 1924 was about 0.1 ft lower, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	629	600	1,160	579	2,320	1,410	1,110	2,990	355	943	350
2	146	691	563	1,090	724	2,300	1,340	1,080	2,530	544	711	322
3	138	743	538	1,050	861	2,230	1,410	1,010	2,040	1,790	615	302
4	126	782	521	1,090	975	2,260	1,530	879	1,520	1,580	562	338
5	113	769	554	1,120	1,030	2,370	1,570	759	1,210	1,460	778	559
6	102	682	743	1,140	1,010	2,620	1,500	767	1,060	1,560	823	e560
7	93	613	931	1,160	1,010	3,010	1,350	1,100	856	1,860	991	e420
8	85	661	1,130	1,150	1,040	3,330	1,270	1,190	775	2,220	1,110	e370
9	78	734	1,200	1,120	1,100	3,580	1,420	1,230	764	2,320	1,170	e335
10	74	779	1,260	1,030	1,180	3,810	2,130	1,220	819	2,060	1,230	e325
11	83	774	1,320	907	1,270	3,890	3,100	1,080	882	1,650	1,440	324
12	239	782	1,360	793	1,370	3,760	3,880	856	994	1,370	1,980	308
13	596	1,060	1,330	719	1,480	3,470	4,840	669	1,120	1,360	3,020	288
14	749	1,170	1,310	657	1,540	3,090	5,300	583	1,180	1,580	4,440	276
15	899	1,250	1,290	605	1,560	2,590	5,060	510	1,210	1,770	4,910	269
16	1,030	1,360	1,290	576	1,510	2,080	4,510	469	1,020	1,870	4,910	264
17	1,110	1,630	1,330	565	1,580	1,740	3,920	432	722	1,710	4,780	247
18	1,090	1,950	1,430	569	1,590	1,570	3,360	405	600	1,530	4,560	347
19	819	2,140	1,520	577	1,610	1,540	2,800	738	529	1,480	4,130	1,000
20	574	2,170	1,550	576	1,660	1,640	2,030	1,050	489	1,380	3,520	1,090
21	466	2,130	1,480	569	1,760	2,200	1,480	1,150	484	1,000	2,980	1,150
22	413	2,070	1,340	561	1,840	2,560	1,220	1,210	518	752	2,480	1,180
23	478	1,960	1,270	549	1,860	2,910	1,200	1,490	584	648	2,060	1,220
24	554	1,780	1,260	528	1,780	3,340	1,150	1,870	660	875	1,720	1,230
25	599	1,530	1,260	510	1,720	3,700	1,100	2,240	681	1,080	1,280	1,120
26	638	1,210	1,250	520	1,750	3,780	1,040	3,120	617	960	946	967
27	658	1,050	1,240	522	1,920	3,620	1,020	3,820	519	774	702	798
28	621	836	1,230	490	2,190	3,310	1,060	4,210	437	641	599	678
29	554	725	1,230	469	---	2,870	1,110	4,100	389	551	516	599
30	520	649	1,230	473	---	2,180	1,120	3,710	386	601	446	573
31	561	---	1,210	496	---	1,640	---	3,300	---	973	390	---
TOTAL	14,361	35,309	35,770	23,341	39,499	85,310	65,230	47,357	28,585	40,304	60,742	17,809
MEAN	463	1,177	1,154	753	1,411	2,752	2,174	1,528	953	1,300	1,959	594
MAX	1,110	2,170	1,550	1,160	2,190	3,890	5,300	4,210	2,990	2,320	4,910	1,230
MIN	74	613	521	469	579	1,540	1,020	405	386	355	390	247
CFSM	0.63	1.61	1.57	1.03	1.92	3.75	2.97	2.08	1.30	1.77	2.67	0.81
IN.	0.73	1.79	1.82	1.18	2.00	4.33	3.31	2.40	1.45	2.05	3.08	0.90

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	507	468	678	1,119	1,384	1,455	1,042	587	464	551	637	633
MAX	4,798	2,150	2,349	2,626	4,316	3,491	2,752	3,363	1,770	2,203	2,422	8,825
(WY)	(2000)	(1948)	(1949)	(1993)	(1948)	(1989)	(1989)	(1989)	(1995)	(1929)	(1960)	(1999)
MIN	20.3	41.1	64.7	92.5	239	382	202	82.9	38.5	63.3	37.2	24.9
(WY)	(1955)	(1955)	(1934)	(1934)	(1934)	(1981)	(1986)	(1986)	(1986)	(1952)	(1954)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	218,683		493,617			
ANNUAL MEAN	599		1,352		781	
HIGHEST ANNUAL MEAN					1,422	1960
LOWEST ANNUAL MEAN					242	1951
HIGHEST DAILY MEAN	2,780	Jan 30	5,300	Apr 14	31,500	Sep 19, 1999
LOWEST DAILY MEAN	18	Aug 14	74	Oct 10	15	Oct 28, 1933
ANNUAL SEVEN-DAY MINIMUM	22	Aug 9	90	Oct 5	16	Oct 8, 1954
MAXIMUM PEAK FLOW			5,410	Apr 14	31,900	Sep 18, 1999
MAXIMUM PEAK STAGE			15.04	Apr 14	28.28*	Sep 18, 1999
INSTANTANEOUS LOW FLOW			71	Oct 11	15	Oct 28, 1933
ANNUAL RUNOFF (CFSM)	0.82		1.84		1.07	
ANNUAL RUNOFF (INCHES)	11.10		25.05		14.48	
10 PERCENT EXCEEDS	1,360		2,980		1,900	
50 PERCENT EXCEEDS	520		1,110		442	
90 PERCENT EXCEEDS	66		442		86	

e Estimated.  
 \* See REMARKS.

