

## NEUSE RIVER BASIN

02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'44", long 77°34'59", 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. Minimum discharge for current water year also occurred Aug. 15.

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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	274	118	214	137	2240	408	1340	226	98	89	86	1230
2	236	113	194	140	1530	423	1480	213	103	86	67	1350
3	203	106	172	155	1050	635	e1520	205	102	74	53	1340
4	179	102	157	176	784	757	1590	195	102	66	43	1280
5	159	99	147	201	689	860	1710	207	108	58	38	1290
6	144	e96	142	257	612	912	1830	225	101	66	36	1350
7	141	e91	141	485	664	921	1820	257	102	82	32	1400
8	156	e92	134	656	909	844	1460	246	100	159	29	1280
9	168	91	132	758	1060	716	952	223	146	215	26	760
10	156	92	129	784	1200	609	767	204	178	152	25	454
11	143	91	135	782	1360	540	840	188	143	115	23	348
12	134	89	145	746	1480	505	864	176	117	89	22	300
13	126	87	169	780	1500	527	751	166	101	76	20	256
14	119	89	201	845	1390	611	652	172	93	82	18	185
15	116	91	206	823	1110	619	634	207	100	100	23	186
16	113	92	203	763	886	621	709	205	92	96	38	223
17	109	92	192	688	768	619	657	182	82	100	37	476
18	103	91	183	612	678	599	564	177	83	107	29	530
19	101	92	174	551	638	575	500	183	86	92	26	557
20	99	92	172	588	606	554	477	178	79	74	25	500
21	106	93	171	739	566	544	461	167	75	63	32	435
22	114	92	176	892	528	560	449	156	72	58	29	420
23	108	96	169	1120	501	596	417	144	68	53	26	390
24	101	112	163	1380	487	609	392	138	67	54	25	338
25	97	140	160	1650	474	600	379	129	65	62	23	275
26	93	236	156	1910	e455	559	350	120	61	121	24	230
27	90	258	149	2140	e435	550	313	113	60	157	31	204
28	87	237	144	2420	421	561	285	108	61	151	157	179
29	95	229	143	2680	---	556	266	104	62	162	608	183
30	118	227	144	2780	---	564	247	101	77	143	871	170
31	123	---	138	2650	---	711	---	98	---	113	1040	---
TOTAL	4111	3626	5055	31288	25021	19265	24676	5413	2784	3115	3562	18119
MEAN	132.6	120.9	163.1	1009	893.6	621.5	822.5	174.6	92.80	100.5	114.9	604.0
MAX	274	258	214	2780	2240	921	1830	257	178	215	1040	1400
MIN	87	87	129	137	421	408	247	98	60	53	18	170
CFSM	0.18	0.16	0.22	1.38	1.22	0.85	1.12	0.24	0.13	0.14	0.16	0.82
IN.	0.21	0.18	0.26	1.59	1.27	0.98	1.25	0.27	0.14	0.16	0.18	0.92

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

MEAN	507.9	458.0	671.6	1124	1383	1437	1026	574.4	457.2	541.0	619.2	633.5
MAX	4798	2150	2349	2626	4316	3491	2752	3363	1770	2203	2422	8825
(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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	193088		146035		773.4	
ANNUAL MEAN	529.0		400.1		1422	
HIGHEST ANNUAL MEAN					242	
LOWEST ANNUAL MEAN					1951	
HIGHEST DAILY MEAN	3320	Apr 7	2780	Jan 30	31500	Sep 19 1999
LOWEST DAILY MEAN	87	Oct 28	18	Aug 14	15	Oct 28 1933
ANNUAL SEVEN-DAY MINIMUM	90	Nov 9	22	Aug 9	16	Oct 8 1954
MAXIMUM PEAK FLOW			2810	Jan 30	31900	Sep 18 1999
MAXIMUM PEAK STAGE			12.12	Jan 30	28.28*	Sep 18 1999
INSTANTANEOUS LOW FLOW			18*	Aug 14	15	Oct 28 1933
ANNUAL RUNOFF (CFSM)	0.72		0.55		1.06	
ANNUAL RUNOFF (INCHES)	9.80		7.41		14.34	
10 PERCENT EXCEEDS	1200		987		1890	
50 PERCENT EXCEEDS	336		177		434	
90 PERCENT EXCEEDS	107		66		85	

e Estimated.  
 \* See REMARKS.

