

Water-Data Report 2010

02091500 CONTENTNEA CREEK AT HOOKERTON, NC

Neuse Basin
Contentnea Subbasin

LOCATION.--Lat 35°25'44", long 77°34'57" referenced to North American Datum of 1983, Greene County, NC, Hydrologic Unit 03020203, on left bank at bridge on North Carolina Highway 123 at Hookerton, and 2.2 mi upstream from Wheat Swamp Creek.

DRAINAGE AREA.--733 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 1333: 1930-35. 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 National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to November 26, 1934, nonrecording gage at site 1,400 ft upstream at present datum. November 27, 1934 to September 30, 1987, water-stage recorder at site 0.3 mi upstream at present datum. Satellite telemetry at streamgage.

REMARKS.--Records fair. Flow regulated by Buckhorn Reservoir since September 1976. Maximum gage height for period of record from high-water mark inside gage house. Minimum discharge for period of record and current water year also occurred September 25.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	132	71	367	1,200	3,130	898	2,280	259	892	74	79	78
2	109	78	340	1,200	2,720	866	2,920	237	771	71	101	67
3	94	81	529	1,170	2,370	1,210	3,490	214	637	71	98	61
4	84	83	657	1,140	2,100	1,390	3,810	200	568	69	100	56
5	77	89	857	1,100	2,100	1,520	3,710	192	587	65	102	50
6	74	87	1,030	1,040	2,980	1,630	3,290	184	607	61	104	46
7	73	84	1,080	929	3,500	1,730	2,560	177	604	57	133	40
8	74	81	1,080	796	3,990	1,730	1,850	165	560	50	199	37
9	76	80	1,340	692	4,530	1,590	1,230	153	443	46	185	36
10	73	81	1,570	620	4,810	1,270	895	140	346	47	147	33
11	72	168	1,620	569	4,640	1,140	708	132	283	140	116	31
12	69	676	1,630	533	4,230	1,010	627	128	227	98	97	33
13	67	907	1,700	496	3,790	1,010	559	131	193	96	81	30
14	65	987	1,870	470	3,370	1,070	525	129	171	127	73	26
15	71	988	2,000	454	2,950	1,160	497	119	170	121	73	20
16	76	954	1,950	444	2,540	1,230	458	111	206	100	68	21
17	86	810	1,710	472	2,110	1,300	416	127	232	86	61	27
18	95	601	1,300	663	1,730	1,300	378	198	238	82	55	27
19	96	502	1,140	803	1,470	1,220	344	398	237	77	56	20
20	87	532	1,000	955	1,280	1,080	319	656	233	79	74	19
21	79	576	960	1,120	1,160	874	303	788	249	88	100	17
22	73	581	965	1,520	1,040	789	314	938	239	78	114	17
23	68	573	982	1,830	957	716	318	1,110	202	72	112	15
24	65	531	973	2,190	899	711	313	1,270	167	82	101	14
25	62	495	922	2,810	878	727	306	1,320	138	73	100	15
26	59	471	1,030	3,300	888	732	308	1,190	117	69	173	20
27	62	465	1,100	3,390	909	709	312	1,030	103	80	209	76
28	63	452	1,100	3,410	917	653	306	990	92	76	173	213
29	63	425	1,110	3,440	---	758	293	1,040	82	67	138	596
30	65	398	1,120	3,520	---	1,110	281	1,090	79	62	111	1,760
31	68	---	1,160	3,440	---	1,650	---	1,080	---	60	91	---
Total	2,377	12,907	36,192	45,716	67,988	34,783	33,920	15,896	9,673	2,424	3,424	3,501
Mean	76.7	430	1,167	1,475	2,428	1,122	1,131	513	322	78.2	110	117
Max	132	988	2,000	3,520	4,810	1,730	3,810	1,320	892	140	209	1,760
Min	59	71	340	444	878	653	281	111	79	46	55	14
Cfsm	0.10	0.59	1.59	2.01	3.31	1.53	1.54	0.70	0.44	0.11	0.15	0.16
In.	0.12	0.66	1.84	2.32	3.45	1.77	1.72	0.81	0.49	0.12	0.17	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	486	488	698	1,102	1,347	1,416	1,024	586	459	524	601	627
Max	4,798	2,435	2,349	2,626	4,316	3,491	2,752	3,363	1,770	2,203	2,422	8,825
(WY)	(2000)	(2007)	(1949)	(1993)	(1948)	(1989)	(1989)	(1989)	(1995)	(1929)	(1960)	(1999)
Min	20.3	41.1	64.7	92.5	239	343	202	82.9	38.5	63.3	37.2	24.9
(WY)	(1955)	(1955)	(1934)	(1934)	(1934)	(2006)	(1986)	(1986)	(1986)	(1952)	(1954)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1929 - 2010	
Annual total	203,027		268,801			
Annual mean	556		736		768	
Highest annual mean					1,422	1960
Lowest annual mean					242	1951
Highest daily mean	3,190	Mar 7	4,810	Feb 10	31,500	Sep 19, 1999
Lowest daily mean	42	Sep 18	14	Sep 24	14	Sep 24, 2010
Annual seven-day minimum	44	Sep 15	17	Sep 19	16	Oct 8, 1954
Maximum peak flow			4,950	Feb 10	31,900	Sep 18, 1999
Maximum peak stage			14.70	Feb 10	^a 28.28	Sep 18, 1999
Instantaneous low flow			^a 11	Sep 24	^a 11	Sep 24, 2010
Annual runoff (cfsm)	0.759		1.00		1.05	
Annual runoff (inches)	10.30		13.64		14.23	
10 percent exceeds	1,430		1,840		1,860	
50 percent exceeds	340		344		438	
90 percent exceeds	71		62		83	

^a See Remarks.

