

Water-Data Report 2013

02102000 DEEP RIVER AT MONCURE, NC

Cape Fear Basin
Deep Subbasin

LOCATION.--Lat 35°37'37", long 79°06'58" referenced to North American Datum of 1983, Lee County, NC, Hydrologic Unit 03030003, on right bank, 1.0 mi upstream from Lockville Dam, 1.2 mi upstream from bridge on U.S. Highway 1, 1.5 mi northwest of Moncure, 2.2 mi downstream of Rocky River, and 4.5 mi upstream from confluence with Haw River.

DRAINAGE AREA.--1,434 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1930 to current year. Records for May 1898 to December 1899 published in 21st Annual Report, Part 4, and in Bulletins 34 and 39 of North Carolina Department of Conservation and Development have been found to be unreliable and should not be used.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.06 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation and some regulation at low flow caused by small power plants upstream from station. Minimum discharge for current water year also occurred November 2.

02102000 DEEP RIVER AT MONCURE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	494	57	93	287	785	2,440	689	4,070	324	15,000	722	186
2	464	114	98	297	1,220	1,530	1,090	2,040	272	11,100	1,470	174
3	298	142	106	334	802	1,070	1,230	1,290	581	7,620	1,350	169
4	252	85	121	348	585	804	863	943	2,680	10,700	750	521
5	204	74	104	333	529	676	2,690	788	1,950	5,530	554	520
6	204	64	88	291	402	606	3,780	727	976	2,860	449	405
7	185	65	109	260	365	649	2,290	2,000	4,130	2,320	365	320
8	165	60	127	207	717	650	1,460	3,450	15,200	1,550	312	244
9	138	68	101	171	1,180	591	1,030	2,450	14,800	1,510	331	228
10	135	65	93	149	1,390	503	820	1,590	10,500	1,820	323	184
11	200	60	114	174	970	453	680	1,090	6,320	3,000	320	169
12	180	71	120	175	694	499	682	821	4,400	5,350	324	153
13	152	71	118	157	639	1,490	1,460	659	2,340	4,660	406	124
14	128	66	114	163	607	2,370	1,290	563	1,430	2,590	459	112
15	115	84	120	172	585	1,420	856	473	1,000	1,610	469	106
16	104	99	113	178	563	931	647	392	763	1,130	373	114
17	91	90	111	191	581	705	560	362	637	848	307	105
18	75	106	143	3,600	628	583	509	308	541	645	278	95
19	75	94	137	6,470	615	692	477	295	2,040	557	283	90
20	104	84	125	3,470	533	1,260	617	448	2,230	507	1,320	87
21	87	100	152	1,990	503	1,030	928	6,440	980	456	1,300	82
22	100	105	154	1,250	549	713	899	3,760	626	795	1,300	236
23	106	118	126	857	2,410	560	615	1,840	522	1,220	1,490	364
24	99	101	136	619	5,990	509	475	4,860	485	1,330	766	478
25	109	91	146	511	3,170	2,060	454	3,240	539	805	512	332
26	110	90	297	448	2,250	2,500	390	1,520	717	1,200	416	227
27	103	86	805	378	7,350	1,470	330	839	765	652	361	186
28	86	99	692	400	4,980	927	323	630	592	579	307	169
29	71	102	575	358	---	722	4,930	523	5,610	2,040	209	167
30	62	97	451	341	---	608	8,830	418	8,160	3,020	201	149
31	60	---	417	390	---	553	---	374	---	1,200	187	---
Total	4,756	2,608	6,206	24,969	41,592	31,574	41,894	49,203	92,110	94,204	18,214	6,496
Mean	153	86.9	200	805	1,485	1,019	1,396	1,587	3,070	3,039	588	217
Max	494	142	805	6,470	7,350	2,500	8,830	6,440	15,200	15,000	1,490	521
Min	60	57	88	149	365	453	323	295	272	456	187	82
Cfsm	0.11	0.06	0.14	0.56	1.04	0.71	0.97	1.11	2.14	2.12	0.41	0.15
In.	0.12	0.07	0.16	0.65	1.08	0.82	1.09	1.28	2.39	2.44	0.47	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	700	839	1,308	2,240	2,681	2,754	1,977	1,056	789	804	776	791
Max	3,590	4,789	4,765	7,182	7,945	7,582	6,455	3,590	4,147	5,528	3,861	10,580
(WY)	(1965)	(1986)	(1973)	(1978)	(1960)	(1998)	(1936)	(1989)	(1982)	(1975)	(1931)	(1945)
Min	28.2	14.1	34.6	130	424	461	389	125	68.6	79.7	46.9	24.1
(WY)	(1931)	(1942)	(1934)	(1934)	(1931)	(2006)	(2012)	(2002)	(2002)	(1986)	(2002)	(1968)

02102000 DEEP RIVER AT MONCURE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1930 - 2013	
Annual total	163,706		413,826			
Annual mean	447		1,134		1,388	
Highest annual mean					2,999	2003
Lowest annual mean					391	2002
Highest daily mean	5,210	Mar 26	15,200	Jun 8	66,400	Sep 18, 1945
Lowest daily mean	57	Nov 1	57	Nov 1	6.0	Oct 9, 1954
Annual seven-day minimum	65	Nov 6	65	Nov 6	6.6	Oct 8, 1954
Maximum peak flow			20,200	Jun 30	80,300	Sep 18, 1945
Maximum peak stage			8.62	Jun 30	17.20	Sep 18, 1945
Instantaneous low flow			^a 54	Nov 1	5.5	Oct 10, 1954
Annual runoff (cfsm)	0.312		0.791		0.968	
Annual runoff (inches)	4.25		10.74		13.15	
10 percent exceeds	992		2,630		3,140	
50 percent exceeds	248		503		510	
90 percent exceeds	87		99		95	

^a See Remarks.

