

Water-Data Report 2010

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.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation and some regulation at low flow caused by small power plants upstream from station. Minimum discharge for current water year also occurred September 23, 24, 25, 26.

02102000 DEEP RIVER AT MONCURE, NC—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	82	181	600	1,300	1,520	1,060	2,280	279	1,050	111	160	63
2	97	176	945	1,270	1,530	908	1,550	231	1,610	139	127	59
3	96	365	12,300	1,090	4,670	1,320	1,140	226	2,060	199	107	56
4	90	489	9,720	894	7,490	3,840	915	213	1,140	158	90	55
5	89	408	3,510	755	9,250	3,610	724	201	528	e130	85	51
6	90	292	2,350	605	23,500	2,320	651	198	428	e117	72	48
7	89	255	1,820	601	19,700	1,630	577	188	369	e90	70	46
8	73	190	1,290	576	19,000	1,310	518	184	294	75	83	45
9	71	138	4,860	499	8,860	1,090	500	177	262	84	77	44
10	64	158	9,210	509	3,900	876	445	164	244	107	67	43
11	84	2,140	4,690	518	3,120	895	469	144	202	96	80	43
12	89	7,830	2,300	449	2,280	866	524	130	178	95	74	41
13	84	10,700	1,590	418	1,840	3,280	470	128	183	95	64	41
14	69	8,750	1,830	384	1,710	5,120	402	128	173	99	70	41
15	68	3,470	1,800	414	1,610	3,190	342	128	220	89	510	41
16	85	1,790	1,490	353	1,470	2,090	355	129	319	83	404	41
17	73	1,090	1,180	2,700	1,380	1,560	344	148	680	185	263	41
18	83	743	949	9,750	1,290	1,250	316	445	544	273	158	42
19	83	586	4,030	5,580	1,130	1,040	292	2,630	396	271	164	43
20	72	407	4,970	2,800	940	928	269	2,860	337	380	364	41
21	71	358	2,780	1,990	900	801	276	1,490	233	332	251	41
22	70	384	1,820	7,590	877	743	274	784	201	274	264	41
23	66	563	1,400	6,720	1,520	715	244	554	191	185	219	40
24	87	3,530	1,130	3,450	2,090	716	267	1,110	161	184	216	40
25	93	2,940	1,630	10,900	2,240	632	303	1,720	e121	183	299	40
26	87	1,640	10,400	13,000	2,250	628	280	1,150	e105	171	200	42
27	89	1,060	9,350	9,890	1,680	559	318	715	e111	778	127	133
28	94	823	3,890	3,800	1,290	574	346	547	e110	828	120	393
29	86	930	2,310	2,300	---	2,490	347	441	e112	981	114	420
30	146	726	1,630	1,810	---	5,750	302	389	131	345	91	9,660
31	239	---	1,320	1,640	---	3,840	---	471	---	227	70	---
Total	2,759	53,112	109,094	94,555	129,037	55,631	16,040	18,302	12,693	7,364	5,060	11,775
Mean	89.0	1,770	3,519	3,050	4,608	1,795	535	590	423	238	163	392
Max	239	10,700	12,300	13,000	23,500	5,750	2,280	2,860	2,060	981	510	9,660
Min	64	138	600	353	877	559	244	128	105	75	64	40
Cfsm	0.06	1.23	2.45	2.13	3.21	1.25	0.37	0.41	0.30	0.17	0.11	0.27
In.	0.07	1.38	2.83	2.45	3.35	1.44	0.42	0.47	0.33	0.19	0.13	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	709	855	1,340	2,302	2,748	2,816	2,018	1,064	777	790	791	811
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	393	125	68.6	79.7	46.9	24.1
(WY)	(1931)	(1942)	(1934)	(1934)	(1931)	(2006)	(1981)	(2002)	(2002)	(1986)	(2002)	(1968)

02102000 DEEP RIVER AT MONCURE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1930 - 2010	
Annual total	437,798		515,422			
Annual mean	1,199		1,412		1,413	
Highest annual mean					2,999	2003
Lowest annual mean					391	2002
Highest daily mean	17,500	Mar 2	23,500	Feb 6	66,400	Sep 18, 1945
Lowest daily mean	41	Sep 13	40	Sep 23	6.0	Oct 9, 1954
Annual seven-day minimum	44	Sep 11	41	Sep 20	6.6	Oct 8, 1954
Maximum peak flow			29,500	Feb 6	80,300	Sep 18, 1945
Maximum peak stage			10.24	Feb 6	17.20	Sep 18, 1945
Instantaneous low flow			^a 40	Sep 22	5.5	Oct 10, 1954
Annual runoff (cfsm)	0.836		0.985		0.985	
Annual runoff (inches)	11.36		13.37		13.39	
10 percent exceeds	2,940		3,520		3,220	
50 percent exceeds	407		393		519	
90 percent exceeds	85		71		96	

^a See Remarks.

