

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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.--WSP 1082: 1930-46 daily mean discharges not previously published. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.06 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records are fair 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 August 19, 20.

## 02102000 DEEP RIVER AT MONCURE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	238	375	828	1,070	799	1,310	654	464	163	330	146	64
2	240	338	1,250	1,950	1,780	9,150	597	401	178	246	188	140
3	236	308	1,560	2,070	2,390	13,100	591	369	223	177	161	114
4	229	284	1,120	1,380	1,730	6,550	551	375	255	140	132	89
5	231	275	902	1,100	1,210	2,230	509	365	260	146	125	82
6	241	265	797	4,070	974	1,600	482	353	331	140	117	76
7	236	449	702	5,180	887	1,310	435	387	271	116	97	75
8	269	4,600	672	7,250	848	1,180	417	388	219	115	85	75
9	263	4,230	613	8,860	793	1,060	415	384	218	102	92	75
10	263	1,650	570	3,830	760	954	407	349	207	95	85	73
11	271	853	565	2,120	721	901	368	325	190	137	75	67
12	262	1,550	551	1,550	681	875	2,730	356	175	203	70	65
13	252	2,670	545	1,300	664	828	5,220	636	161	209	69	65
14	250	1,670	518	1,170	6,270	798	2,210	981	164	178	65	72
15	240	923	522	1,080	8,210	779	4,920	555	166	177	56	143
16	233	3,070	521	1,000	3,260	2,180	15,600	404	169	169	49	129
17	254	7,310	513	941	1,880	8,680	12,400	346	177	161	45	99
18	835	3,250	499	875	1,430	4,740	3,910	309	253	201	42	101
19	2,190	1,460	489	941	1,220	2,350	1,760	284	285	205	41	93
20	924	938	457	1,120	1,040	1,460	1,260	274	278	200	47	80
21	492	e1,750	452	1,060	965	1,210	1,040	268	244	174	67	75
22	362	e6,600	494	2,460	945	1,100	878	253	246	148	70	75
23	321	18,700	3,770	3,990	927	987	804	243	207	147	68	73
24	297	18,900	3,810	2,490	844	923	690	234	193	141	62	70
25	275	12,300	7,070	1,680	789	873	629	231	185	134	59	67
26	269	2,470	15,100	1,310	2,730	815	584	222	153	130	59	63
27	267	1,350	10,700	1,110	3,180	785	566	213	170	132	63	60
28	543	1,090	3,410	995	1,850	737	557	205	238	134	70	57
29	751	e950	1,770	929	---	764	521	202	212	128	64	55
30	775	860	1,330	846	---	823	540	192	428	138	67	53
31	493	---	1,120	784	---	716	---	174	---	217	65	---
<b>Total</b>	13,002	101,438	63,220	66,511	49,777	71,768	62,245	10,742	6,619	5,070	2,501	2,425
<b>Mean</b>	419	3,381	2,039	2,146	1,778	2,315	2,075	347	221	164	80.7	80.8
<b>Max</b>	2,190	18,900	15,100	8,860	8,210	13,100	15,600	981	428	330	188	143
<b>Min</b>	229	265	452	784	664	716	368	174	153	95	41	53
<b>Cfsm</b>	0.29	2.36	1.42	1.50	1.24	1.61	1.45	0.24	0.15	0.11	0.06	0.06
<b>In.</b>	0.34	2.63	1.64	1.73	1.29	1.86	1.61	0.28	0.17	0.13	0.06	0.06

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	728	860	1,321	2,329	2,780	2,828	2,051	1,085	787	813	810	813
<b>Max</b>	3,590	4,789	4,765	7,182	7,945	7,582	6,455	3,590	4,147	5,528	3,861	10,580
<b>(WY)</b>	(1965)	(1986)	(1973)	(1978)	(1960)	(1998)	(1936)	(1989)	(1982)	(1975)	(1931)	(1945)
<b>Min</b>	28.2	14.1	34.6	130	424	461	393	125	68.6	79.7	46.9	24.1
<b>(WY)</b>	(1931)	(1942)	(1934)	(1934)	(1931)	(2006)	(1981)	(2002)	(2002)	(1986)	(2002)	(1968)

02102000 DEEP RIVER AT MONCURE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1930 - 2007	
<b>Annual total</b>	360,833		455,318			
<b>Annual mean</b>	989		1,247		1,428	
<b>Highest annual mean</b>					2,999	2003
<b>Lowest annual mean</b>					391	2002
<b>Highest daily mean</b>	18,900	Nov 24	18,900	Nov 24	66,400	Sep 18, 1945
<b>Lowest daily mean</b>	112	Aug 29	41	Aug 19	6.0	Oct 9, 1954
<b>Annual seven-day minimum</b>	150	Sep 7	49	Aug 14	6.6	Oct 8, 1954
<b>Maximum peak flow</b>			25,700	Nov 22	80,300	Sep 18, 1945
<b>Maximum peak stage</b>			9.62	Nov 22	17.20	Sep 18, 1945
<b>Instantaneous low flow</b>			<sup>a</sup> 41	Aug 18	5.5	Oct 10, 1954
<b>Annual runoff (cfsm)</b>	0.689		0.870		0.996	
<b>Annual runoff (inches)</b>	9.36		11.81		13.53	
<b>10 percent exceeds</b>	1,680		2,730		3,260	
<b>50 percent exceeds</b>	416		435		527	
<b>90 percent exceeds</b>	220		75		98	

<sup>a</sup> See Remarks.

