

Water-Data Report 2008

**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.--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.--No estimated daily discharges. Records fair. Diurnal fluctuation and some regulation at low flow caused by small power plants upstream from station. Minimum discharge for current water year also occurred October 17-19.

## 02102000 DEEP RIVER AT MONCURE, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	52	178	97	3,990	233	581	1,200	2,290	334	108	117	694
2	52	135	102	1,480	745	463	1,790	1,390	237	98	102	473
3	50	139	103	659	1,620	295	1,520	999	214	101	107	337
4	47	122	96	426	876	315	1,350	780	171	108	77	179
5	47	108	92	337	511	7,390	4,920	606	149	107	64	161
6	47	94	91	235	400	6,650	7,340	505	134	151	59	15,400
7	47	75	92	220	285	3,280	4,620	457	154	673	59	13,000
8	47	63	93	202	276	8,770	2,870	408	171	682	64	4,160
9	47	55	93	192	266	4,690	1,960	367	154	397	68	1,230
10	46	52	95	179	230	2,180	1,430	363	138	335	67	811
11	46	52	110	164	212	1,240	1,120	402	138	191	65	1,630
12	44	50	162	149	198	940	936	608	133	151	71	2,260
13	43	46	143	165	945	791	803	956	129	143	73	1,220
14	43	53	132	135	1,350	658	687	929	121	122	71	747
15	42	77	113	113	1,090	547	660	540	194	110	69	479
16	40	87	165	140	762	2,740	599	399	206	101	131	327
17	38	88	167	136	503	3,270	492	400	144	97	82	502
18	38	88	170	182	462	1,740	418	409	118	135	77	578
19	40	93	226	288	897	1,120	408	515	97	123	93	854
20	41	89	198	514	930	910	407	493	97	95	85	678
21	40	84	164	502	521	1,230	515	595	111	82	73	454
22	40	75	140	405	380	1,130	907	618	122	83	59	301
23	44	77	148	310	369	771	1,070	570	133	79	52	202
24	48	129	151	269	419	628	874	438	117	124	50	201
25	53	106	147	243	404	571	710	347	97	277	48	172
26	128	96	147	216	351	457	578	264	92	229	53	306
27	4,450	96	151	204	1,070	402	466	212	98	171	356	797
28	3,830	96	156	187	1,670	418	1,340	233	95	201	8,220	1,170
29	1,160	94	310	172	919	382	7,850	267	87	131	5,680	964
30	494	94	547	168	---	358	5,310	334	95	208	2,330	614
31	279	---	5,880	165	---	391	---	421	---	165	1,180	---
<b>Total</b>	11,463	2,691	10,481	12,747	18,894	55,308	55,150	18,115	4,280	5,778	19,702	50,901
<b>Mean</b>	370	89.7	338	411	652	1,784	1,838	584	143	186	636	1,697
<b>Max</b>	4,450	178	5,880	3,990	1,670	8,770	7,850	2,290	334	682	8,220	15,400
<b>Min</b>	38	46	91	113	198	295	407	212	87	79	48	161
<b>Cfsm</b>	0.26	0.06	0.24	0.29	0.45	1.24	1.28	0.41	0.10	0.13	0.44	1.18
<b>In.</b>	0.30	0.07	0.27	0.33	0.49	1.43	1.43	0.47	0.11	0.15	0.51	1.32

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	723	851	1,308	2,304	2,752	2,814	2,048	1,078	779	805	808	824
<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)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1930 - 2008	
<b>Annual total</b>	302,293		265,510			
<b>Annual mean</b>	828		725		1,419	
<b>Highest annual mean</b>					2,999	2003
<b>Lowest annual mean</b>					391	2002
<b>Highest daily mean</b>	15,600	Apr 16	15,400	Sep 6	66,400	Sep 18, 1945
<b>Lowest daily mean</b>	38	Oct 17	38	Oct 17	6.0	Oct 9, 1954
<b>Annual seven-day minimum</b>	40	Oct 16	40	Oct 16	6.6	Oct 8, 1954
<b>Maximum peak flow</b>			29,100	Sep 6	80,300	Sep 18, 1945
<b>Maximum peak stage</b>			10.18	Sep 6	17.20	Sep 18, 1945
<b>Instantaneous low flow</b>			<sup>a</sup> 38	Oct 16	5.5	Oct 10, 1954
<b>Annual runoff (cfsm)</b>	0.578		0.506		0.990	
<b>Annual runoff (inches)</b>	7.84		6.89		13.45	
<b>10 percent exceeds</b>	1,860		1,360		3,230	
<b>50 percent exceeds</b>	200		210		523	
<b>90 percent exceeds</b>	54		59		96	

<sup>a</sup>See Remarks.

