

02102000 DEEP RIVER AT MONCURE, NC

LOCATION.--Lat 35°37'39", long 79°06'57", Lee County, 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>.

WATER-DISCHARGE 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 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 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, due to regulation. Minimum discharge for the current water year also occurred Oct. 7, 8, 9, 10.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	1,630	256	1,030	2,720	10,900	4,120	878	2,670	632	1,730	1,790
2	78	950	322	4,320	1,790	8,850	2,300	1,190	2,520	2,080	3,930	3,130
3	57	648	340	4,020	1,190	8,210	1,660	1,040	1,520	11,300	3,350	1,460
4	44	519	e365	2,700	922	4,420	1,320	917	1,100	6,430	3,250	747
5	41	347	e2,600	2,260	869	2,700	1,160	937	1,560	2,170	5,300	1,760
6	38	1,380	8,130	1,590	984	8,270	1,080	1,020	2,640	1,270	11,400	4,370
7	38	3,420	6,210	1,220	3,590	13,300	1,790	2,770	1,690	921	12,000	2,030
8	37	2,250	3,660	1,020	5,360	8,670	8,000	2,250	4,590	816	6,480	932
9	38	1,130	2,330	908	3,270	3,310	16,500	1,400	9,860	1,110	9,010	720
10	41	727	1,690	831	2,200	2,230	25,000	1,020	6,360	818	7,350	550
11	5,200	558	1,550	729	2,630	1,720	29,000	828	2,690	655	9,990	489
12	14,800	1,240	3,040	654	2,070	1,420	26,900	691	1,470	616	5,770	420
13	14,800	7,340	5,640	583	1,440	1,250	23,900	586	1,270	528	2,920	373
14	8,440	6,780	12,100	517	1,080	1,840	14,200	546	1,160	725	2,130	350
15	1,740	2,530	9,310	545	936	2,140	3,170	514	1,060	1,900	1,880	323
16	1,650	1,420	e3,250	506	917	5,120	1,950	321	889	1,990	1,600	284
17	4,050	5,470	1,930	474	1,060	6,160	1,620	618	2,160	921	1,070	292
18	3,010	11,900	1,360	505	1,410	3,960	1,400	945	2,150	1,070	1,290	331
19	1,270	7,840	1,080	500	3,540	2,960	1,270	872	3,350	993	1,920	3,220
20	730	2,610	1,400	417	4,160	12,600	1,520	1,390	6,990	822	1,650	6,020
21	598	1,580	2,700	417	3,540	18,800	1,750	1,270	5,050	673	1,020	2,370
22	771	1,180	2,400	465	5,140	18,800	1,440	2,000	2,700	576	782	1,120
23	743	935	1,520	398	13,600	17,100	1,240	9,610	1,490	518	662	1,630
24	645	750	1,430	382	11,100	6,700	1,080	9,060	1,060	1,160	605	7,510
25	528	620	8,070	456	4,370	2,170	932	5,920	833	1,460	981	6,160
26	454	567	10,400	324	2,220	1,690	902	11,400	722	816	1,460	3,440
27	377	494	4,830	470	3,880	1,420	1,640	9,580	582	560	778	1,280
28	349	434	2,330	345	13,100	1,230	1,720	3,880	519	476	589	784
29	629	407	1,620	375	---	1,150	1,350	2,130	273	428	480	658
30	2,210	442	1,300	405	---	e2,130	985	1,770	556	3,140	384	613
31	2,760	---	1,060	1,050	---	e5,470	---	1,700	---	3,460	418	---
TOTAL	66,256	68,098	104,223	30,416	99,088	186,690	180,899	79,053	71,484	51,034	102,179	55,156
MEAN	2,137	2,270	3,362	981	3,539	6,022	6,030	2,550	2,383	1,646	3,296	1,839
MAX	14,800	11,900	12,100	4,320	13,600	18,800	29,000	11,400	9,860	11,300	12,000	7,510
MIN	37	347	256	324	869	1,150	902	321	273	428	384	284
CFSM	1.49	1.58	2.34	0.68	2.47	4.20	4.20	1.78	1.66	1.15	2.30	1.28
IN.	1.72	1.77	2.70	0.79	2.57	4.84	4.69	2.05	1.85	1.32	2.65	1.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2003, BY WATER YEAR (WY)

MEAN	743	842	1,307	2,384	2,854	2,879	2,082	1,116	795	840	829	818
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	566	393	125	68.6	79.7	46.9	24.1
(WY)	(1931)	(1942)	(1934)	(1934)	(1931)	(1981)	(1981)	(2002)	(2002)	(1986)	(2002)	(1968)

CAPE FEAR RIVER BASIN

02102000 DEEP RIVER AT MONCURE, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1930 - 2003	
ANNUAL TOTAL	372,721		1,094,576		1,452	
ANNUAL MEAN	1,021		2,999		2,999	
HIGHEST ANNUAL MEAN					391	2003
LOWEST ANNUAL MEAN					291	2002
HIGHEST DAILY MEAN	14,800	Oct 12	29,000	Apr 11	66,400	Sep 18, 1945
LOWEST DAILY MEAN	22	Aug 26	37	Oct 8	6.0	Oct 9, 1954
ANNUAL SEVEN-DAY MINIMUM	25	Aug 21	40	Oct 4	6.6	Oct 8, 1954
MAXIMUM PEAK FLOW			36,700	Apr 11	80,300	Sep 18, 1945
MAXIMUM PEAK STAGE			11.37	Apr 11	17.20	Sep 18, 1945
INSTANTANEOUS LOW FLOW			37*	Oct 6	5.5	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	0.71		2.09		1.01	
ANNUAL RUNOFF (INCHES)	9.67		28.39		13.76	
10 PERCENT EXCEEDS	2,650		8,160		3,330	
50 PERCENT EXCEEDS	268		1,430		534	
90 PERCENT EXCEEDS	46		419		97	

e Estimated.  
 \* See REMARKS.

