

CAPE FEAR RIVER BASIN

02102000 DEEP RIVER AT MONCURE, NC

LOCATION.--Lat 35°37'38", long 79°06'58", 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 mi².

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 Aug. 26, 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	46	118	88	495	228	3920	139	72	186	77	2990
2	62	46	101	88	445	222	3550	133	69	130	54	6240
3	61	46	82	99	408	362	1810	140	68	85	78	2030
4	60	45	68	103	343	896	1080	189	71	58	57	679
5	59	43	64	106	321	1460	788	152	89	56	51	e354
6	69	43	64	196	291	847	564	127	91	54	48	122
7	86	43	63	253	351	557	527	187	77	52	46	77
8	74	43	63	375	2020	397	377	159	67	52	45	77
9	65	41	63	727	2710	371	442	253	65	51	47	61
10	62	41	64	511	1520	373	408	158	64	51	47	49
11	59	40	103	315	952	481	444	196	64	55	47	43
12	59	41	189	352	641	486	469	136	61	55	47	38
13	59	46	406	316	558	450	434	120	61	52	46	36
14	78	46	415	294	502	526	282	136	58	49	43	483
15	349	46	307	280	432	1030	381	130	55	96	46	344
16	325	46	118	267	387	958	409	118	53	133	67	252
17	170	53	94	145	356	645	306	108	51	77	59	137
18	220	59	212	185	323	567	365	105	51	46	44	92
19	174	58	97	338	304	635	227	124	50	43	37	178
20	127	53	e72	4560	279	754	313	118	48	43	32	404
21	103	51	78	5100	245	691	189	100	45	42	29	426
22	79	50	103	2540	257	912	235	89	44	41	e27	279
23	71	49	135	4930	268	1220	228	e87	45	126	25	75
24	63	57	125	11500	274	940	213	e86	46	89	24	48
25	59	61	112	9220	247	654	226	e85	46	71	23	44
26	57	67	107	4190	221	498	215	e84	47	70	22	45
27	52	73	100	2260	202	639	151	e83	52	66	28	48
28	47	82	97	1320	204	740	152	e82	82	119	54	48
29	45	87	92	944	---	955	170	e83	101	352	65	47
30	43	93	90	686	---	767	190	80	265	108	37	49
31	45	---	89	579	---	587	---	77	---	130	101	---
TOTAL	2947	1595	3891	52867	15556	20848	19065	3864	2058	2638	1453	15795
MEAN	95.06	53.17	125.5	1705	555.6	672.5	635.5	124.6	68.60	85.10	46.87	526.5
MAX	349	93	415	11500	2710	1460	3920	253	265	352	101	6240
MIN	43	40	63	88	202	222	151	77	44	41	22	36
CFSM	0.07	0.04	0.09	1.19	0.39	0.47	0.44	0.09	0.05	0.06	0.03	0.37
IN.	0.08	0.04	0.10	1.37	0.40	0.54	0.49	0.10	0.05	0.07	0.04	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

MEAN	723.1	821.7	1279	2403	2845	2835	2027	1096	772.8	828.9	795.2	804.4
MAX	3590	4789	4765	7182	7945	7582	6455	3590	4147	5528	3861	10580
(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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	186807		142577			
ANNUAL MEAN	511.8		390.6		1431	
HIGHEST ANNUAL MEAN					2711	
LOWEST ANNUAL MEAN					391	
HIGHEST DAILY MEAN	15300	Mar 30	11500	Jan 24	66400	Sep 18 1945
LOWEST DAILY MEAN	40	Nov 11	22	Aug 26	6.0	Oct 9 1954
ANNUAL SEVEN-DAY MINIMUM	42	Nov 6	25	Aug 21	6.6	Oct 8 1954
MAXIMUM PEAK FLOW			12200		80300	
MAXIMUM PEAK STAGE			6.75		17.20	
INSTANTANEOUS LOW FLOW			22*		5.5	
ANNUAL RUNOFF (CFSM)	0.36		0.27		1.00	
ANNUAL RUNOFF (INCHES)	4.85		3.70		13.55	
10 PERCENT EXCEEDS	1000		688		3270	
50 PERCENT EXCEEDS	174		101		526	
90 PERCENT EXCEEDS	59		45		96	

e Estimated.

02102000 DEEP RIVER AT MONCURE, NC--Continued

