

02102000 DEEP RIVER AT MONCURE, NC

LOCATION.--Lat 35°37'37", 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	524	873	585	561	1,200	3,210	878	495	683	899	673	2,740
2	458	596	535	499	912	3,350	1,050	1,910	375	605	418	1,030
3	e402	510	425	527	1,660	3,050	1,280	6,880	235	649	381	694
4	396	451	405	518	3,860	2,230	958	4,460	306	447	452	387
5	385	408	504	541	2,850	1,670	752	2,090	499	317	360	229
6	425	423	586	593	1,700	1,340	658	1,230	340	392	290	219
7	325	425	624	739	4,450	1,190	635	833	447	706	213	294
8	309	502	749	766	5,450	1,070	557	561	334	404	157	9,980
9	402	487	532	629	2,660	1,090	509	490	265	261	127	13,000
10	367	581	619	575	1,700	935	503	500	247	201	113	9,100
11	401	521	4,950	555	1,330	821	501	413	330	224	111	3,840
12	470	459	3,470	546	1,590	769	578	335	334	299	105	1,340
13	559	400	1,990	554	4,070	729	962	374	248	380	185	710
14	537	388	2,940	554	2,980	704	2,070	307	207	222	1,070	506
15	504	472	4,910	545	2,260	585	2,790	312	184	199	2,050	440
16	679	308	3,490	512	2,800	2,110	1,760	266	200	176	2,080	368
17	601	348	2,160	616	2,860	3,090	1,170	274	262	144	963	354
18	399	e450	2,150	385	2,220	2,640	905	346	238	140	584	914
19	402	e625	2,160	632	1,780	2,400	728	169	263	142	358	2,350
20	379	e825	1,620	817	1,450	2,260	635	203	254	968	269	1,360
21	321	e1,100	1,150	711	1,270	1,720	542	204	216	534	249	722
22	308	975	907	614	1,100	1,290	570	205	192	324	2,540	478
23	307	674	765	541	954	1,050	540	264	204	230	1,070	384
24	302	522	795	402	904	880	445	312	180	175	469	289
25	292	543	773	489	827	803	425	660	196	142	272	258
26	290	357	777	498	796	756	433	381	354	117	189	225
27	293	383	716	509	828	610	466	194	533	107	164	186
28	322	403	644	524	1,280	661	476	224	515	201	144	1,050
29	663	413	533	625	2,550	707	371	199	621	224	137	9,720
30	1,690	421	576	579	---	673	439	481	911	649	7,560	8,000
31	1,470	---	558	994	---	644	---	731	---	794	e7,400	---
TOTAL	15,182	15,843	43,598	18,150	60,291	45,037	24,586	26,303	10,173	11,272	31,153	71,167
MEAN	490	528	1,406	585	2,079	1,453	820	848	339	364	1,005	2,372
MAX	1,690	1,100	4,950	994	5,450	3,350	2,790	6,880	911	968	7,560	13,000
MIN	290	308	405	385	796	585	371	169	180	107	105	186
CFSM	0.34	0.37	0.98	0.41	1.45	1.01	0.57	0.59	0.24	0.25	0.70	1.65
IN.	0.39	0.41	1.13	0.47	1.56	1.17	0.64	0.68	0.26	0.29	0.81	1.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

MEAN	739	837	1,309	2,359	2,843	2,860	2,065	1,112	789	834	831	839
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL TOTAL	930,622		372,755		1,446	
ANNUAL MEAN	2,550		1,018		2,999	
HIGHEST ANNUAL MEAN					391	2003
LOWEST ANNUAL MEAN					291	2002
HIGHEST DAILY MEAN	29,000	Apr 11	13,000	Sep 9	66,400	Sep 18, 1945
LOWEST DAILY MEAN	273	Jun 29	105	Aug 12	6.0	Oct 9, 1954
ANNUAL SEVEN-DAY MINIMUM	302	Oct 21	144	Aug 7	6.6	Oct 8, 1954
MAXIMUM PEAK FLOW			17,900	Sep 8	80,300	Sep 18, 1945
MAXIMUM PEAK STAGE			8.14	Sep 8	17.20	Sep 18, 1945
INSTANTANEOUS LOW FLOW			99	Jul 27	5.5	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	1.78		0.710		1.01	
ANNUAL RUNOFF (INCHES)	24.14		9.67		13.70	
10 PERCENT EXCEEDS	6,390		2,260		3,300	
50 PERCENT EXCEEDS	1,080		542		534	
90 PERCENT EXCEEDS	402		215		98	

e Estimated.

