

Water-Data Report 2007

02103000 LITTLE RIVER AT MANCHESTER, NC

Cape Fear Basin
Upper Cape Fear Subbasin

LOCATION.--Lat 35°11'36", long 78°59'08" referenced to North American Datum of 1983, Cumberland County, NC, Hydrologic Unit 03030004, on left bank 5 ft upstream from bridge on Secondary Road 1451 (East Manchester Road), 0.3 mi above Tank Creek and 0.2 mi downstream from bridge on North Carolina Highways 87/24, north of Manchester.

DRAINAGE AREA.--348 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1950, July 2002 to current year. Occasional discharge measurements September 1968 to June 2002.

GAGE.--Water-stage recorder. Elevation of gage is 122.16 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum gage height for period of record from floodmarks in gage well. Maximum discharge for period of record not determined during period of backwater from Cape Fear River.

02103000 LITTLE RIVER AT MANCHESTER, NC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	175	180	688	809	456	358	321	166	49	469	55	34
2	142	161	701	763	686	780	317	157	49	292	46	33
3	120	154	722	781	759	1,380	311	147	177	200	40	32
4	108	142	773	738	808	1,450	329	146	213	210	34	29
5	101	140	762	681	701	1,090	287	145	176	183	32	29
6	102	139	963	944	578	484	246	151	124	102	30	28
7	126	358	797	1,050	512	378	228	161	98	77	28	27
8	167	783	443	1,150	479	366	216	152	85	83	28	27
9	182	893	401	1,140	503	350	214	152	77	83	31	26
10	176	963	379	1,080	469	342	210	176	65	81	27	26
11	159	731	405	960	449	334	221	168	110	97	27	26
12	143	559	432	877	440	365	485	163	96	179	28	26
13	128	476	584	756	453	535	734	186	87	116	24	27
14	118	484	524	687	595	436	745	218	93	99	24	32
15	113	432	463	645	756	269	990	219	82	86	22	127
16	112	804	312	603	835	829	787	177	74	82	22	117
17	130	952	297	667	769	1,530	801	179	333	74	24	105
18	218	1,020	292	633	630	1,860	638	156	148	80	32	72
19	241	930	290	673	532	1,690	448	135	117	87	31	56
20	238	702	286	671	320	1,160	342	122	98	86	30	61
21	195	410	285	634	277	863	307	114	99	75	29	68
22	160	2,400	423	869	285	539	286	106	91	62	39	63
23	151	3,230	910	937	276	467	263	101	74	49	35	59
24	140	3,650	1,030	973	260	439	246	83	64	45	34	52
25	133	3,300	1,400	862	268	417	231	74	128	42	39	46
26	127	1,660	1,790	718	381	393	218	69	65	39	45	45
27	135	1,170	2,100	600	460	374	212	66	57	49	44	43
28	250	964	1,930	546	427	356	206	61	69	69	38	39
29	262	742	1,370	504	---	345	193	57	303	51	43	37
30	254	693	1,030	462	---	343	179	54	660	67	38	36
31	209	---	889	443	---	334	---	50	---	90	36	---
Total	5,015	29,222	23,671	23,856	14,364	20,856	11,211	4,111	3,961	3,404	1,035	1,428
Mean	162	974	764	770	513	673	374	133	132	110	33.4	47.6
Max	262	3,650	2,100	1,150	835	1,860	990	219	660	469	55	127
Min	101	139	285	443	260	269	179	50	49	39	22	26
Cfsm	0.46	2.80	2.19	2.21	1.47	1.93	1.07	0.38	0.38	0.32	0.10	0.14
In.	0.54	3.12	2.53	2.55	1.54	2.23	1.20	0.44	0.42	0.36	0.11	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	257	372	475	531	613	682	531	323	230	355	385	341
Max	547	974	942	949	1,340	1,420	1,135	693	784	845	1,556	1,532
(WY)	(1946)	(2007)	(1949)	(1946)	(1948)	(1944)	(1944)	(2003)	(2003)	(2003)	(2003)	(1945)
Min	33.7	70.2	166	192	218	178	259	133	91.1	39.2	33.4	46.2
(WY)	(1941)	(1942)	(1941)	(1942)	(1941)	(2006)	(2006)	(2007)	(1941)	(2002)	(2007)	(1940)

02103000 LITTLE RIVER AT MANCHESTER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1939 - 2007 ^a	
Annual total	136,884		142,134			
Annual mean	375		389		428	
Highest annual mean					774	2003
Lowest annual mean					229	1941
Highest daily mean	3,650	Nov 24	3,650	Nov 24	9,000	Sep 18, 1945
Lowest daily mean	49	Aug 20	22	Aug 15	19	Aug 11, 2002
Annual seven-day minimum	56	Aug 15	24	Aug 11	21	Aug 8, 2002
Maximum peak flow			3,880	Nov 24	^b NOT DETERMINED	
Maximum peak stage			21.45	Nov 24	^b 29.00	Sep 18, 1945
Instantaneous low flow			19	Aug 17	16	Aug 13, 2002
Annual runoff (cfsm)	1.08		1.12		1.23	
Annual runoff (inches)	14.63		15.19		16.73	
10 percent exceeds	800		900		900	
50 percent exceeds	206		214		314	
90 percent exceeds	101		37		86	

^a See Period of Record.

^b See Remarks.

