

Water-Data Report 2008

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. Datum of gage is 122.83 ft above North American Vertical Datum of 1988. 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. Minimum discharge for current water year also occurred July 2, 3.

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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	34	182	110	591	255	265	540	696	68	26	47	172
2	34	144	105	555	337	239	595	552	65	23	53	128
3	36	121	106	452	389	221	554	341	59	23	52	101
4	39	109	104	416	358	217	477	241	56	38	44	84
5	42	101	101	292	303	394	837	213	47	65	39	83
6	43	95	95	272	270	620	1,090	208	42	71	34	3,100
7	46	90	94	253	269	693	1,060	185	43	130	40	4,480
8	44	86	93	242	352	828	954	169	38	106	73	4,130
9	42	85	94	231	304	863	771	181	29	130	72	2,490
10	43	85	102	196	203	882	636	179	27	125	64	1,340
11	41	84	106	208	180	878	547	197	25	319	182	1,500
12	38	84	102	208	167	704	501	216	25	261	120	1,460
13	36	83	97	198	230	443	445	203	26	174	154	1,120
14	37	84	96	194	380	373	385	171	26	113	217	813
15	35	91	99	182	496	393	336	159	191	84	186	554
16	35	96	460	171	634	686	304	167	127	68	155	476
17	35	93	388	333	359	868	276	168	83	57	116	622
18	38	88	340	390	387	851	260	160	59	52	110	632
19	48	88	247	303	453	713	244	150	46	63	103	567
20	38	88	188	376	441	649	239	136	167	80	87	472
21	36	87	166	350	394	448	287	147	142	75	72	398
22	30	89	161	300	462	410	350	136	72	67	72	353
23	30	92	166	273	486	371	367	124	56	83	60	271
24	36	89	182	268	465	337	345	113	57	77	51	229
25	83	87	171	258	413	310	307	105	50	63	45	217
26	579	97	245	239	409	291	290	93	42	67	55	510
27	944	122	262	224	441	279	451	86	38	63	303	634
28	864	123	240	210	423	268	583	86	34	89	594	675
29	632	116	237	202	306	259	808	102	31	79	478	817
30	371	112	341	211	---	259	809	82	29	62	420	669
31	229	---	556	209	---	397	---	73	---	50	244	---
Total	4,618	2,991	5,854	8,807	10,566	15,409	15,648	5,839	1,800	2,783	4,342	29,097
Mean	149	99.7	189	284	364	497	522	188	60.0	89.8	140	970
Max	944	182	556	591	634	882	1,090	696	191	319	594	4,480
Min	30	83	93	171	167	217	239	73	25	23	34	83
Cfs/m	0.43	0.29	0.54	0.82	1.05	1.43	1.50	0.54	0.17	0.26	0.40	2.79
In.	0.49	0.32	0.63	0.94	1.13	1.65	1.67	0.62	0.19	0.30	0.46	3.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	251	357	459	517	599	672	530	316	220	341	372	374
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	60.0	39.2	33.4	46.2
(WY)	(1941)	(1942)	(1941)	(1942)	(1941)	(2006)	(2006)	(2007)	(2008)	(2002)	(2007)	(1940)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1939 - 2008 ^a	
Annual total	97,689		107,754			
Annual mean	268		294		421	
Highest annual mean					774	2003
Lowest annual mean					229	1941
Highest daily mean	1,860	Mar 18	4,480	Sep 7	9,000	Sep 18, 1945
Lowest daily mean	22	Aug 15	23	Jul 2	19	Aug 11, 2002
Annual seven-day minimum	24	Aug 11	28	Jun 8	21	Aug 8, 2002
Maximum peak flow			4,550	Sep 7	^b NOT DETERMINED	
Maximum peak stage			23.30	Sep 7	^b 29.00	Sep 18, 1945
Instantaneous low flow			^b 21	Jun 11	16	Aug 13, 2002
Annual runoff (cfs)	0.769		0.846		1.21	
Annual runoff (inches)	10.44		11.52		16.43	
10 percent exceeds	741		633		888	
50 percent exceeds	121		182		309	
90 percent exceeds	34		42		81	

^aSee Period of Record.^bSee Remarks.