

Water-Data Report 2010

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 streamgage.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	97	278	338	662	800	562	581	152	233	157	174	54
2	86	242	393	647	831	438	352	149	471	135	151	49
3	81	225	704	602	918	515	314	152	529	114	131	41
4	75	192	812	566	929	545	291	145	420	102	116	37
5	76	161	962	540	1,320	528	278	144	254	94	112	34
6	92	223	922	516	2,330	467	268	139	212	83	138	34
7	106	204	707	425	2,800	426	258	133	193	77	131	34
8	106	249	614	399	3,290	409	247	110	176	75	116	34
9	92	247	903	396	2,040	414	362	98	167	120	97	34
10	86	277	1,020	427	1,600	383	458	95	157	86	90	32
11	83	989	990	447	1,370	699	403	91	150	80	84	31
12	85	1,200	845	447	1,230	465	320	92	143	83	78	34
13	93	1,130	710	363	1,070	677	285	93	126	132	78	36
14	95	989	681	333	965	677	263	91	128	110	77	34
15	109	876	664	323	891	794	249	87	124	96	75	32
16	109	648	641	318	839	730	240	116	117	130	72	32
17	104	529	586	598	792	643	230	350	123	113	68	36
18	97	490	562	794	716	534	219	381	115	144	65	37
19	90	462	742	798	707	373	206	355	107	175	117	37
20	84	445	812	705	680	366	196	280	100	185	129	37
21	81	422	779	714	665	358	194	201	97	143	83	32
22	76	407	736	1,170	675	351	196	193	86	115	73	31
23	75	520	650	1,160	746	344	190	214	148	98	89	30
24	77	547	517	1,150	751	326	183	239	102	91	125	29
25	84	562	559	1,340	756	322	191	233	85	86	125	29
26	102	526	774	1,350	703	322	197	211	114	102	125	47
27	104	452	795	1,380	659	314	186	175	117	341	98	363
28	116	406	749	1,250	613	303	170	153	139	381	80	306
29	113	372	710	1,040	---	522	161	295	154	301	72	315
30	120	346	632	904	---	769	155	266	193	188	65	1,080
31	117	---	639	852	---	739	---	214	---	139	58	---
Total	2,911	14,616	22,148	22,616	31,686	15,315	7,843	5,647	5,280	4,276	3,092	2,991
Mean	93.9	487	714	730	1,132	494	261	182	176	138	99.7	99.7
Max	120	1,200	1,020	1,380	3,290	794	581	381	529	381	174	1,080
Min	75	161	338	318	613	303	155	87	85	75	58	29
Cfsm	0.27	1.40	2.05	2.10	3.25	1.42	0.75	0.52	0.51	0.40	0.29	0.29
In.	0.31	1.56	2.37	2.42	3.39	1.64	0.84	0.60	0.56	0.46	0.33	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2010 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	240	360	478	524	608	668	508	302	213	319	349	348
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 2009		Water Year 2010		Water Years 1939 - 2010 ^a	
Annual total	114,800		138,421			
Annual mean	315		379		412	
Highest annual mean					774	2003
Lowest annual mean					229	1941
Highest daily mean	1,740	Mar 3	3,290	Feb 8	9,000	Sep 18, 1945
Lowest daily mean	28	Jul 5	29	Sep 24	19	Aug 11, 2002
Annual seven-day minimum	31	Jun 30	32	Sep 19	21	Aug 8, 2002
Maximum peak flow			3,460	Feb 8	^b Not Determined	
Maximum peak stage			20.23	Feb 8	29.00	Sep 18, 1945
Instantaneous low flow			^b 26	Sep 26	16	Aug 13, 2002
Annual runoff (cfsm)	0.904		1.09		1.19	
Annual runoff (inches)	12.27		14.80		16.10	
10 percent exceeds	708		834		872	
50 percent exceeds	204		230		302	
90 percent exceeds	62		75		79	

^a See Period of Record.

^b See Remarks.

