

CAPE FEAR RIVER BASIN

02103000 LITTLE RIVER AT MANCHESTER, NC

LOCATION.--Lat 35°11'36", long 78°59'08", Cumberland County, 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 Highway 87/24 North of Manchester.

DRAINAGE AREA.--348 mi².

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.--Records fair except those for period of poor gage height record, Feb. 1 to June 2 and those for estimated daily discharges, which are poor. Minimum discharge also occurred Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	203	412	479	506	559	435	172	81	117	788	65
2	366	196	253	412	515	555	509	183	159	104	540	58
3	308	194	242	352	517	515	519	186	233	101	350	50
4	302	196	216	443	581	416	488	169	278	128	241	46
5	386	205	204	453	588	332	447	157	248	152	177	43
6	376	203	196	434	577	299	397	176	173	133	145	39
7	345	194	200	417	513	278	312	170	155	110	130	38
8	261	189	212	406	456	345	331	159	313	107	130	36
9	234	183	229	397	437	393	498	146	e411	99	266	35
10	219	180	298	384	435	452	699	135	e370	106	339	35
11	214	179	454	368	417	429	611	126	e419	99	400	39
12	212	248	448	210	363	368	343	122	305	86	381	38
13	216	429	397	196	346	312	340	117	e207	91	301	40
14	208	293	340	636	290	321	e575	111	e156	110	174	48
15	209	250	304	849	293	331	e1,050	119	e128	86	146	51
16	209	233	282	954	297	446	1,100	133	e106	86	140	43
17	203	216	223	978	298	964	666	137	e88	81	132	39
18	192	207	199	821	285	1,260	517	125	87	84	160	35
19	183	200	197	600	255	1,230	444	111	74	199	396	35
20	179	199	198	528	241	1,010	406	124	73	176	261	36
21	184	198	192	495	241	786	361	339	65	171	228	214
22	191	193	186	366	257	457	337	129	64	122	152	138
23	192	338	201	348	267	498	389	118	74	133	130	122
24	189	384	243	322	365	595	312	119	85	307	139	89
25	187	306	252	307	450	788	255	128	79	270	113	74
26	191	256	272	303	481	729	231	105	72	143	98	67
27	196	220	286	303	462	574	219	92	67	90	90	63
28	192	325	272	371	572	511	212	85	92	78	80	59
29	196	344	341	369	---	560	205	77	221	268	77	54
30	207	485	352	450	---	539	178	76	144	302	84	51
31	211	---	436	499	---	453	---	82	---	554	75	---
TOTAL	7,394	7,446	8,537	14,450	11,305	17,305	13,386	4,228	5,027	4,693	6,863	1,780
MEAN	239	248	275	466	404	558	446	136	168	151	221	59.3
MAX	436	485	454	978	588	1,260	1,100	339	419	554	788	214
MIN	179	179	186	196	241	278	178	76	64	78	75	35
CFSM	0.69	0.71	0.79	1.34	1.16	1.60	1.28	0.39	0.48	0.44	0.64	0.17
IN.	0.79	0.80	0.91	1.54	1.21	1.85	1.43	0.45	0.54	0.50	0.73	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005,[@] BY WATER YEAR (WY)

MEAN	273	348	451	521	641	716	559	338	212	382	423	365
MAX	547	946	942	949	1,340	1,420	1,135	693	784	845	1,556	1,532
(WY)	(1946)	(1948)	(1949)	(1946)	(1948)	(1944)	(1944)	(2003)	(2003)	(2003)	(2003)	(1945)
MIN	33.7	70.2	166	192	218	402	265	136	91.1	39.2	37.6	46.2
(WY)	(1941)	(1942)	(1941)	(1942)	(1941)	(1941)	(1950)	(2005)	(1941)	(2002)	(2002)	(1940)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005 [@]	
ANNUAL TOTAL	121,750		102,414		441	
ANNUAL MEAN	333		281		774	
HIGHEST ANNUAL MEAN					229	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	2,630	Sep 10	1,260	Mar 18	9,000	Sep 18, 1945
LOWEST DAILY MEAN	53	Jul 27	35	Sep 9	19	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	63	Jul 21	37	Sep 6	21	Aug 8, 2002
MAXIMUM PEAK FLOW			1,410	Mar 18	5,090	Aug 11, 2003
MAXIMUM PEAK STAGE			13.10	Mar 18	24.72	Aug 11, 2003
INSTANTANEOUS LOW FLOW			31*	Sep 10	16	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	0.956		0.806		1.27	
ANNUAL RUNOFF (INCHES)	13.01		10.95		17.20	
10 PERCENT EXCEEDS	585		516		914	
50 PERCENT EXCEEDS	264		220		328	
90 PERCENT EXCEEDS	106		77		96	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.

