

02103000 LITTLE RIVER AT MANCHESTER, NC

LOCATION.--Lat 35°11'36.4", long 78°59'07.4", Cumberland County, Hydrologic Unit 03030004, on left bank 5 ft downstream 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 estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
FOR PERIOD JULY TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	70	50	99
2	---	---	---	---	---	---	---	---	---	52	57	96
3	---	---	---	---	---	---	---	---	---	38	43	81
4	---	---	---	---	---	---	---	---	---	33	34	66
5	---	---	---	---	---	---	---	---	---	29	29	57
6	---	---	---	---	---	---	---	---	---	44	24	47
7	---	---	---	---	---	---	---	---	---	29	25	40
8	---	---	---	---	---	---	---	---	---	25	24	35
9	---	---	---	---	---	---	---	---	---	24	22	33
10	---	---	---	---	---	---	---	---	---	25	21	36
11	---	---	---	---	---	---	---	---	---	25	19	30
12	---	---	---	---	---	---	---	---	---	23	20	26
13	---	---	---	---	---	---	---	---	---	23	19	25
14	---	---	---	---	---	---	---	---	---	34	21	80
15	---	---	---	---	---	---	---	---	---	30	24	91
16	---	---	---	---	---	---	---	---	---	35	22	112
17	---	---	---	---	---	---	---	---	---	31	50	102
18	---	---	---	---	---	---	---	---	---	28	44	100
19	---	---	---	---	---	---	---	---	---	24	37	102
20	---	---	---	---	---	---	---	---	---	23	37	96
21	---	---	---	---	---	---	---	---	---	24	29	86
22	---	---	---	---	---	---	---	---	---	24	26	75
23	---	---	---	---	---	---	---	---	---	35	24	64
24	---	---	---	---	---	---	---	---	---	66	25	65
25	---	---	---	---	---	---	---	---	---	131	28	61
26	---	---	---	---	---	---	---	---	---	86	42	61
27	---	---	---	---	---	---	---	---	---	60	56	65
28	---	---	---	---	---	---	---	---	---	45	97	74
29	---	---	---	---	---	---	---	---	---	38	80	81
30	---	---	---	---	---	---	---	---	---	32	67	75
31	---	---	---	---	---	---	---	---	---	28	69	---
TOTAL	---	---	---	---	---	---	---	---	---	1,214	1,165	2,061
MEAN	---	---	---	---	---	---	---	---	---	39.2	37.6	68.7
MAX	---	---	---	---	---	---	---	---	---	131	97	112
MIN	---	---	---	---	---	---	---	---	---	23	19	25
CFSM	---	---	---	---	---	---	---	---	---	0.11	0.11	0.20
IN.	---	---	---	---	---	---	---	---	---	0.13	0.12	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

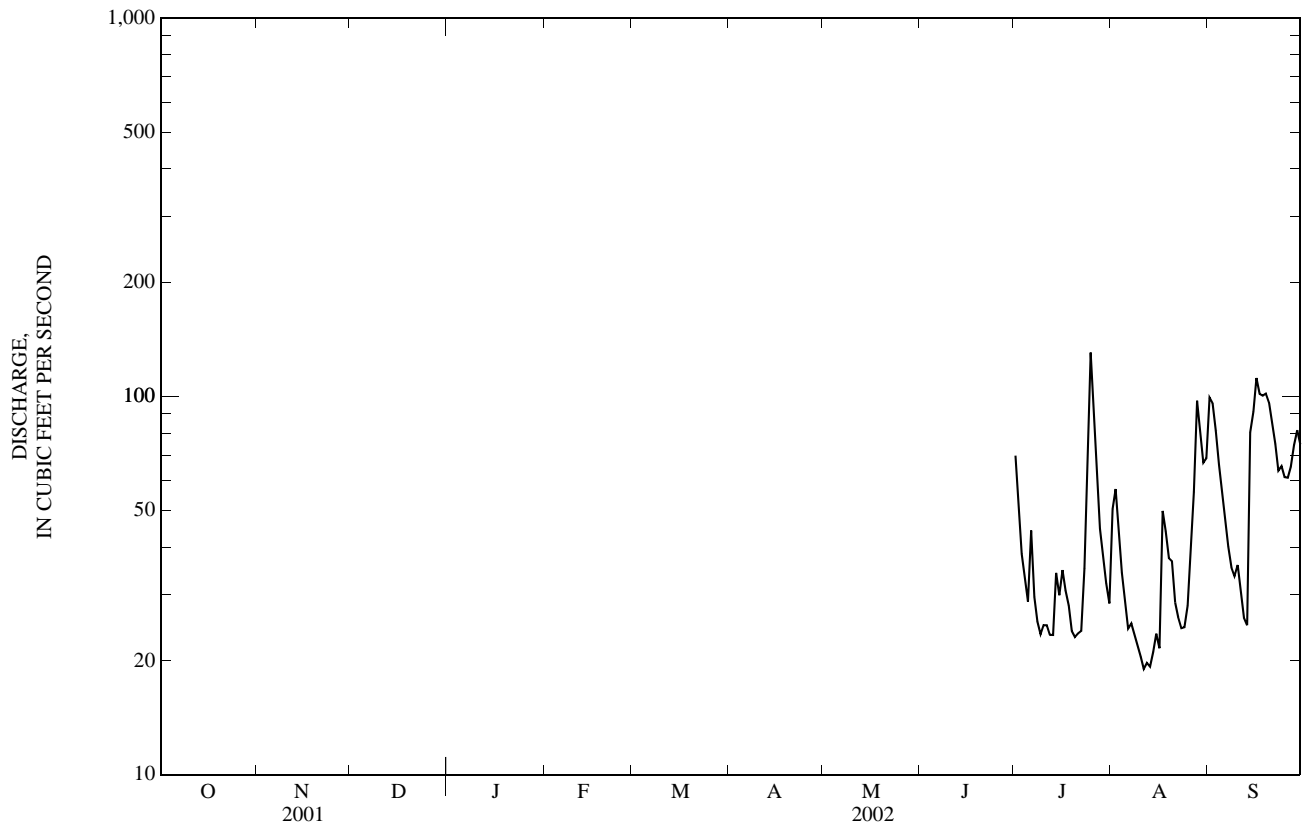
	273	352	445	549	664	700	542	328	174	386	363	341
MEAN	273	352	445	549	664	700	542	328	174	386	363	341
MAX	547	946	942	949	1,340	1,420	1,135	624	318	843	804	1,532
(WY)	(1946)	(1948)	(1949)	(1946)	(1948)	(1944)	(1944)	(1946)	(1948)	(1943)	(1949)	(1945)
MIN	33.7	70.2	166	192	218	402	265	145	91.1	39.2	37.6	46.2
(WY)	(1941)	(1942)	(1941)	(1942)	(1941)	(1941)	(1950)	(1941)	(1941)	(2002)	(2002)	(1940)

SUMMARY STATISTICS

FOR PERIOD
JULY TO SEPTEMBER 2002

MAXIMUM PEAK FLOW	220	Sep 14 2002
MAXIMUM PEAK STAGE	6.88	Sep 14 2002
INSTANTANEOUS LOW FLOW	16	Aug 13 2002

02103000 LITTLE RIVER AT MANCHESTER, NC—Continued



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	223	227	522	399	1,760	894	531	941	1,010	1,170	319
2	70	196	228	536	393	1,840	914	466	696	1,380	811	314
3	58	172	468	615	380	1,630	823	353	868	2,360	1,430	338
4	53	165	400	887	520	1,160	697	408	587	2,420	1,180	398
5	50	175	607	779	471	1,220	604	541	504	1,850	1,400	1,040
6	49	227	755	527	348	1,500	475	771	466	887	e1,870	964
7	48	262	802	454	507	1,790	522	1,190	459	603	e2,170	799
8	48	281	789	415	879	2,300	798	1,220	621	506	e2,400	657
9	50	264	580	396	919	2,480	1,100	756	771	558	2,560	657
10	55	220	461	383	873	1,430	1,980	574	912	903	3,770	651
11	152	222	424	370	646	1,100	3,110	446	519	978	5,010	484
12	336	431	420	357	579	917	3,810	370	413	732	4,520	400
13	403	657	551	e309	536	1,020	3,820	326	589	931	3,380	376
14	470	613	961	e311	501	914	2,230	294	532	948	2,240	354
15	471	579	e1,080	e314	720	819	1,290	270	472	1,310	2,040	340
16	466	577	961	e317	648	971	755	482	556	938	1,780	331
17	e351	683	620	e313	579	1,050	688	274	1,560	775	1,460	313
18	e277	727	482	e310	578	1,130	816	267	2,100	663	1,240	406
19	e174	772	429	e311	687	1,060	918	463	1,920	663	1,050	876
20	e146	863	682	e310	911	1,130	693	573	1,100	567	940	1,140
21	e148	680	755	e312	725	1,500	576	668	1,100	444	884	1,660
22	e185	559	795	e316	733	1,800	747	1,170	988	401	664	1,040
23	e247	466	774	e319	1,050	1,880	711	1,040	751	419	584	881
24	e192	351	793	e324	1,230	1,410	654	1,040	422	406	585	776
25	e152	318	987	e308	1,270	881	613	1,140	354	377	730	703
26	e193	276	1,000	306	916	646	631	1,480	312	351	484	634
27	e178	261	838	307	966	582	665	1,190	275	323	438	559
28	e168	246	1,010	526	1,600	568	897	1,240	842	325	402	553
29	249	242	877	279	---	e607	688	693	974	392	376	479
30	247	233	710	306	---	e671	615	590	905	768	352	421
31	231	---	465	381	---	e763	---	658	---	1,010	326	---
TOTAL	5,986	11,941	20,931	12,420	20,564	38,529	33,734	21,484	23,509	26,198	48,246	18,863
MEAN	193	398	675	401	734	1,243	1,124	693	784	845	1,556	629
MAX	471	863	1,080	887	1,600	2,480	3,820	1,480	2,100	2,420	5,010	1,660
MIN	48	165	227	279	348	568	475	267	275	323	326	313
CFSM	0.55	1.14	1.94	1.15	2.11	3.57	3.23	1.99	2.25	2.43	4.47	1.81
IN.	0.64	1.28	2.24	1.33	2.20	4.12	3.61	2.30	2.51	2.80	5.16	2.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	267	355	463	538	669	742	587	356	221	419	448	361
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	145	91.1	39.2	37.6	46.2
(WY)	(1941)	(1942)	(1941)	(1942)	(1941)	(1941)	(1950)	(1941)	(1941)	(2002)	(2002)	(1940)

SUMMARY STATISTICS

FOR 2003 WATER YEAR

WATER YEARS 1939 - 2003

ANNUAL TOTAL	282,405	
ANNUAL MEAN	774	458
HIGHEST ANNUAL MEAN		774
LOWEST ANNUAL MEAN		229
HIGHEST DAILY MEAN	5,010	Aug 11
LOWEST DAILY MEAN	48	Oct 7
ANNUAL SEVEN-DAY MINIMUM	50	Oct 4
MAXIMUM PEAK FLOW	5,090	Aug 11
MAXIMUM PEAK STAGE	24.72	Aug 11
INSTANTANEOUS LOW FLOW	42	Oct 8
ANNUAL RUNOFF (CFSM)	2.22	1.32
ANNUAL RUNOFF (INCHES)	30.19	17.90
10 PERCENT EXCEEDS	1,440	950
50 PERCENT EXCEEDS	613	338
90 PERCENT EXCEEDS	248	100

e Estimated.

02103000 LITTLE RIVER AT MANCHESTER, NC—Continued

