

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC

LOCATION.--Lat 35°50'42", long 80°39'32", North American Datum of 1983, Rowan County, Hydrologic Unit 03040102, on right bank 90 ft downstream of bridge on Secondary Road 1972, 1 mi upstream from Little Creek, 4 mi downstream of Fifth Creek, 4.5 mi upstream from Hunting Creek, and 6.5 mi southwest of Mocksville.

DRAINAGE AREA.--306 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 663.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. The City of Statesville diverted an average of 6.8 ft³/s for water supply and waste treatment dilution. The Energy United Water Corporation withdrew an average of 2.1 ft³/s for water supply. Maximum discharge for period of record also occurred Mar. 2, 1987. Minimum discharge for period of record and current water year also occurred Aug. 15, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Oct. 3, 1929, reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 ft³/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	52	69	80	164	101	176	74	67	32	20	29
2	36	52	69	75	152	110	166	72	62	27	16	27
3	35	54	69	77	140	186	154	72	57	25	11	26
4	33	59	65	84	132	202	143	78	50	23	9.0	25
5	31	59	64	97	124	156	135	90	42	29	7.5	37
6	29	58	64	108	121	138	130	88	39	37	6.2	30
7	30	59	64	135	169	130	127	77	43	27	5.1	19
8	37	62	65	131	241	125	123	137	50	22	e4.0	16
9	36	60	65	110	237	122	119	174	40	17	e3.8	12
10	27	60	68	99	202	120	125	134	36	15	e3.6	11
11	25	59	156	96	194	115	129	135	32	13	e3.4	9.4
12	33	60	225	91	182	115	122	139	30	13	e3.2	6.9
13	35	59	142	88	165	191	120	121	27	13	e3.0	5.7
14	36	61	111	85	155	194	123	128	28	16	3.0	5.5
15	40	61	100	84	147	173	121	195	43	23	3.2	13
16	80	62	90	82	141	154	116	120	38	18	22	23
17	63	62	85	80	137	171	111	93	39	27	22	48
18	48	59	157	81	128	223	107	83	35	26	15	46
19	43	61	252	100	123	255	104	79	24	19	22	35
20	44	62	e166	256	123	225	101	76	26	14	27	32
21	46	63	123	278	124	222	98	70	22	11	22	24
22	48	63	103	216	122	216	95	66	21	10	18	26
23	48	62	95	614	116	190	90	67	21	9.2	14	30
24	47	71	100	946	113	172	86	66	19	12	12	29
25	44	86	110	628	110	163	85	65	19	12	8.7	40
26	41	87	105	549	109	158	85	58	23	59	34	54
27	39	75	94	335	108	167	84	55	31	57	32	84
28	40	72	90	258	103	195	82	52	51	64	34	116
29	43	68	87	218	---	170	82	55	69	40	23	110
30	46	69	85	195	---	161	77	57	43	28	28	67
31	50	---	82	176	---	164	---	57	---	24	23	---
TOTAL	1270	1897	3220	6452	4082	5184	3416	2833	1127	762.2	458.7	1036.5
MEAN	40.97	63.23	103.9	208.1	145.8	167.2	113.9	91.39	37.57	24.59	14.80	34.55
MAX	80	87	252	946	241	255	176	195	69	64	34	116
MIN	25	52	64	75	103	101	77	52	19	9.2	3.0	5.5
CFSM	0.13	0.21	0.34	0.68	0.48	0.55	0.37	0.30	0.12	0.08	0.05	0.11
IN.	0.15	0.23	0.39	0.78	0.50	0.63	0.42	0.34	0.14	0.09	0.06	0.13

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

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	249.5	256.2	330.8	419.7	489.6	535.4	462.3	358.8	289.5	226.8	221.2	224.6																																																				
MAX	1246	791	738	1088	1458	1485	1110	885	774	628	706	880																																																				
(WY)	1965	1958	1962	1978	1960	1975	1958	1984	1972	1941	1970	1979																																																				
MIN	41.0	63.2	102	97.7	141	167	114	91.4	37.6	24.6	14.8	34.5																																																				
(WY)	2002	2002	1956	1956	2001	2002	2002	2002	2002	2002	2002	2002																																																				

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1939 - 2002
ANNUAL TOTAL	43751	31738.4	
ANNUAL MEAN	119.9	86.95	337.9
HIGHEST ANNUAL MEAN			592
LOWEST ANNUAL MEAN			87.0
HIGHEST DAILY MEAN	1920	Mar 30	9750
LOWEST DAILY MEAN	25	Oct 11	3.0
ANNUAL SEVEN-DAY MINIMUM	31	Oct 5	3.3
MAXIMUM PEAK FLOW			1180
MAXIMUM PEAK STAGE			5.16
INSTANTANEOUS LOW FLOW			2.8*
ANNUAL RUNOFF (CFSM)	0.39	0.28	1.10
ANNUAL RUNOFF (INCHES)	5.32	3.86	15.00
10 PERCENT EXCEEDS	199	170	579
50 PERCENT EXCEEDS	93	66	235
90 PERCENT EXCEEDS	43	16	112

e Estimated.
* See REMARKS.

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC--Continued

