

PEE DEE RIVER BASIN

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC

LOCATION.--Lat 35°50'41", long 80°39'34", 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.

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 sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. The City of Statesville diverted an average of 7.9 ft³/s for water supply and waste treatment dilution. The Energy United Water Corporation withdrew an average of 2.0 ft³/s for water supply. Maximum discharge for period of record also occurred Mar. 2, 1987. Minimum discharge for period of record also occurred July 24, 1986.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	73	84	e101	137	154	585	112	91	59	110	53
2	73	74	83	e100	126	142	427	117	133	145	93	65
3	71	74	83	e99	119	136	344	111	144	87	83	67
4	69	76	81	e99	116	185	313	107	101	87	76	88
5	67	77	80	e98	119	229	276	102	90	618	72	91
6	64	75	79	e97	118	215	253	100	85	335	69	83
7	62	75	85	e97	112	175	237	99	81	166	64	65
8	59	77	85	e96	110	157	223	102	84	121	60	57
9	58	84	84	e96	109	148	209	97	82	136	55	52
10	59	111	84	e95	114	139	198	98	80	118	52	51
11	59	127	90	e94	120	132	187	94	72	93	56	49
12	62	101	85	e94	124	128	179	89	68	83	81	44
13	63	86	83	e94	119	145	173	86	67	75	89	45
14	62	89	83	e93	121	154	185	82	62	77	67	40
15	61	86	91	93	125	191	185	80	59	73	126	35
16	60	81	105	91	127	270	170	82	72	65	77	33
17	60	83	155	94	235	242	159	98	68	59	62	32
18	59	83	215	101	224	201	147	123	57	56	56	31
19	58	82	168	140	175	174	144	116	52	55	55	31
20	57	91	132	370	145	162	142	97	49	66	53	38
21	58	87	e121	437	134	467	140	101	46	68	54	44
22	59	83	e118	274	129	672	138	127	45	60	48	49
23	61	80	e115	209	131	411	135	127	53	54	41	44
24	65	81	e113	180	130	290	134	103	136	52	41	46
25	67	85	e111	163	159	237	182	105	124	56	43	140
26	68	108	e110	147	210	208	179	133	208	83	42	158
27	69	128	e109	139	199	189	145	157	199	144	38	79
28	69	105	e107	133	170	173	131	127	115	188	36	55
29	70	93	e105	128	---	388	122	109	82	199	42	42
30	72	87	e103	135	---	1920	115	99	66	162	42	36
31	72	---	e102	144	---	1090	---	90	---	141	47	---
TOTAL	1988	2642	3249	4331	3957	9524	6157	3270	2671	3781	1930	1743
MEAN	64.1	88.1	105	140	141	307	205	105	89.0	122	62.3	58.1
MAX	75	128	215	437	235	1920	585	157	208	618	126	158
MIN	57	73	79	91	109	128	115	80	45	52	36	31
CFSM	.21	.29	.34	.46	.46	1.00	.67	.34	.29	.40	.20	.19
IN.	.24	.32	.39	.53	.48	1.16	.75	.40	.32	.46	.23	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

	253	259	334	423	495	541	468	363	293	230	224	228
MEAN	253	259	334	423	495	541	468	363	293	230	224	228
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	64.1	88.1	102	97.7	141	220	159	105	75.0	47.3	50.6	45.7
(WY)	2001	2001	1956	1956	2001	1955	1986	2001	1986	1986	2000	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	58926		45243			
ANNUAL MEAN	161		124		342	
HIGHEST ANNUAL MEAN					592	
LOWEST ANNUAL MEAN					124	
HIGHEST DAILY MEAN	1530	Mar 21	1920	Mar 30	9750	Mar 2 1987
LOWEST DAILY MEAN	33	Aug 23	31	Sep 18	22	Jul 22 1986
ANNUAL SEVEN-DAY MINIMUM	35	Aug 21	34	Sep 14	28	Jul 19 1986
MAXIMUM PEAK FLOW			2070		11800*	
MAXIMUM PEAK STAGE			7.97		18.88	
INSTANTANEOUS LOW FLOW			30		21*	
ANNUAL RUNOFF (CFSM)	.53		.41		1.12	
ANNUAL RUNOFF (INCHES)	7.16		5.50		15.18	
10 PERCENT EXCEEDS	294		199		585	
50 PERCENT EXCEEDS	109		95		238	
90 PERCENT EXCEEDS	57		53		117	

e Estimated.

* See REMARKS.

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC--Continued

