

## SANTEE RIVER BASIN

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC

LOCATION.--Lat 35°41'09", long 82°03'40", McDowell County, Hydrologic Unit 03050101, on right bank 18 ft downstream of bridge on Secondary Road 1221, 0.8 mi upstream from Buck Creek, 0.8 mi southeast of Pleasant Gardens, and at mile 297.

DRAINAGE AREA.--126 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1963, 1970-73, 1975. October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,230 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

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	57	59	75	72	128	85	233	116	101	59	27	41
2	55	60	67	70	117	133	206	111	94	65	28	38
3	53	60	64	70	111	198	186	104	91	58	42	33
4	51	58	62	68	108	126	168	143	92	73	30	32
5	51	57	60	e68	102	111	156	136	419	57	26	28
6	53	56	60	101	108	107	146	114	206	51	24	25
7	51	56	60	111	231	104	139	106	194	47	22	23
8	50	55	60	85	294	101	134	101	133	46	20	22
9	50	55	60	80	199	99	146	97	112	43	19	21
10	50	53	80	81	172	99	169	106	98	42	18	18
11	51	53	209	80	156	93	143	125	84	42	18	16
12	58	51	118	77	142	109	139	120	79	46	17	14
13	67	51	106	75	133	282	164	122	76	54	16	15
14	124	51	108	73	125	228	157	138	102	83	15	26
15	107	51	98	72	117	176	149	117	79	95	16	96
16	75	50	91	70	119	161	140	113	69	65	66	98
17	67	50	100	69	115	319	136	110	67	52	61	53
18	65	50	200	68	103	345	139	160	64	47	61	42
19	64	50	139	139	101	264	134	126	61	43	46	53
20	63	50	119	296	103	231	125	115	60	41	42	76
21	62	50	104	187	104	229	119	114	57	43	33	62
22	61	49	97	155	98	199	115	112	54	41	27	104
23	61	51	93	516	96	178	109	109	54	39	32	130
24	61	140	98	418	94	165	106	107	57	46	28	71
25	63	151	88	346	92	156	135	103	53	49	34	68
26	60	100	85	256	91	179	112	100	87	46	45	496
27	56	80	81	208	e89	200	108	121	111	42	44	1440
28	59	72	79	177	84	162	107	143	77	37	43	425
29	60	68	78	159	---	154	101	108	68	33	34	206
30	60	78	75	145	---	186	97	102	69	31	33	148
31	60	---	73	134	---	205	---	101	---	28	34	---
TOTAL	1925	1915	2887	4526	3532	5384	4218	3600	2968	1544	1001	3920
MEAN	62.10	63.83	93.13	146.0	126.1	173.7	140.6	116.1	98.93	49.81	32.29	130.7
MAX	124	151	209	516	294	345	233	160	419	95	66	1440
MIN	50	49	60	68	84	85	97	97	53	28	15	14
CFSM	0.49	0.50	0.73	1.15	0.99	1.37	1.11	0.91	0.78	0.39	0.25	1.03
IN.	0.56	0.56	0.85	1.33	1.03	1.58	1.24	1.05	0.87	0.45	0.29	1.15

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	180.0	200.3	218.3	275.0	325.1	340.5	307.2	234.4	196.9	155.0	184.2	158.4											
MAX	550	606	573	620	739	622	688	444	652	339	513	435											
(WY)	1996	1986	1984	1995	1998	1990	1983	1984	1992	1991	1995	1989											
MIN	52.4	63.8	77.6	107	110	130	138	76.2	65.1	49.8	32.3	43.3											
(WY)	2001	2002	1989	1981	2001	1988	1986	2001	2001	2002	2002	1999											

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1981 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1981 - 2002
ANNUAL TOTAL	38311	37420	
ANNUAL MEAN	105.0	102.5	230.7
HIGHEST ANNUAL MEAN			351 1984
LOWEST ANNUAL MEAN			103 2002
HIGHEST DAILY MEAN	810	1440	7250 Aug 17 1994
LOWEST DAILY MEAN	37	14	14 Sep 12 2002
ANNUAL SEVEN-DAY MINIMUM	42	17	17 Aug 9 2002
MAXIMUM PEAK FLOW		2730	13700 Aug 17 1994
MAXIMUM PEAK STAGE		6.43	15.22 Aug 17 1994
INSTANTANEOUS LOW FLOW		11	11 Sep 12 2002
ANNUAL RUNOFF (CFSM)	0.83	0.81	1.82
ANNUAL RUNOFF (INCHES)	11.22	10.96	24.68
10 PERCENT EXCEEDS	176	177	408
50 PERCENT EXCEEDS	79	81	167
90 PERCENT EXCEEDS	51	34	71

e Estimated.

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC--Continued

