

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 mi².

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 sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for current water year, result of freezeup.

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	56	53	73	e74	97	131	335	91	82	88	164	54
2	56	54	71	e74	94	122	272	91	94	61	157	55
3	55	54	72	e73	90	119	246	86	69	69	173	502
4	53	56	69	e71	89	151	224	82	63	74	181	265
5	52	66	68	e70	88	141	203	82	71	101	157	152
6	52	58	67	e70	86	126	189	81	64	66	128	110
7	51	58	66	69	84	120	178	79	62	55	107	94
8	48	61	66	80	83	116	167	77	62	55	97	83
9	47	141	64	75	82	112	159	85	66	62	87	77
10	49	197	64	e70	92	108	152	83	58	56	84	83
11	51	83	63	e70	84	105	145	76	55	51	93	87
12	50	68	63	73	91	108	140	74	53	45	102	72
13	50	63	62	74	94	137	154	71	51	48	93	68
14	49	60	78	71	121	113	142	68	50	44	87	65
15	49	56	83	71	108	196	139	67	78	39	76	70
16	48	56	117	70	104	212	139	63	79	37	70	60
17	49	60	359	68	129	174	126	64	54	39	70	58
18	49	55	162	86	111	154	123	66	47	45	83	56
19	49	56	130	339	106	140	121	70	44	54	64	57
20	50	59	e106	361	103	192	121	99	42	277	60	123
21	53	56	e87	190	100	698	111	77	42	117	54	84
22	54	55	e84	149	104	543	108	73	53	76	52	67
23	55	56	e83	129	102	499	106	74	72	61	50	63
24	56	57	e81	118	103	395	103	65	50	65	56	126
25	56	206	e80	109	204	329	110	94	46	215	53	106
26	60	175	e78	102	211	266	102	94	153	303	49	77
27	58	106	80	99	164	223	98	72	110	143	54	69
28	55	90	81	94	146	195	95	68	70	129	49	64
29	55	82	77	93	---	549	92	69	59	180	46	61
30	54	77	e77	116	---	810	90	62	55	206	58	58
31	54	---	e75	106	---	431	---	58	---	139	60	---
TOTAL	1623	2374	2786	3314	3070	7715	4490	2361	1954	3000	2714	2966
MEAN	52.4	79.1	89.9	107	110	249	150	76.2	65.1	96.8	87.5	98.9
MAX	60	206	359	361	211	810	335	99	153	303	181	502
MIN	47	53	62	68	82	105	90	58	42	37	46	54
CFSM	.41	.62	.71	.84	.86	1.96	1.18	.60	.51	.76	.69	.78
IN.	.48	.70	.82	.97	.90	2.26	1.32	.69	.57	.88	.79	.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001, 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	
MEAN	186	207	224	281	334	348	315	240	202	160	191	160										
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	69.0	77.6	107	110	130	138	76.2	65.1	57.9	50.5	43.3										
(WY)	2001	1982	1989	1981	2001	1988	1986	2001	2001	1988	1988	1999										

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1981 - 2001

ANNUAL TOTAL	48140	38367																				
ANNUAL MEAN	132	105																				
HIGHEST ANNUAL MEAN																						1984
LOWEST ANNUAL MEAN																						2001
HIGHEST DAILY MEAN	1860	Mar 20					810	Mar 30	7250													Aug 17 1994
LOWEST DAILY MEAN	47	Oct 9					37	Jul 16	26													Sep 13 1999
ANNUAL SEVEN-DAY MINIMUM	49	Oct 13					42	Jul 12	27													Sep 12 1999
MAXIMUM PEAK FLOW							1880	Mar 29	13700													Aug 17 1994
MAXIMUM PEAK STAGE							5.41	Mar 29	15.22													Aug 17 1994
INSTANTANEOUS LOW FLOW							35*	Dec 31	24													Sep 16 1999
ANNUAL RUNOFF (CFSM)	1.04						.83		1.86													
ANNUAL RUNOFF (INCHES)	14.10						11.24		25.34													
10 PERCENT EXCEEDS	230						179		415													
50 PERCENT EXCEEDS	101						78		172													
90 PERCENT EXCEEDS	55						52		76													

e Estimated.

* See REMARKS.

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC--Continued

