

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC

LOCATION.--Lat 35°41'09", long 82°03'39", 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 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	105	e106	303	132	312	250	334	303	255	613	362
2	105	99	e104	256	127	296	241	379	281	2,770	414	294
3	95	94	e100	292	124	269	234	324	314	857	835	296
4	86	90	e110	266	137	249	229	286	363	653	755	287
5	80	101	e220	245	130	240	241	466	296	687	807	262
6	73	146	214	227	126	644	219	1,670	272	547	505	248
7	69	112	175	209	138	467	306	1,260	786	471	943	242
8	66	104	159	201	136	371	292	e920	811	398	964	236
9	64	98	151	190	136	327	518	e620	691	366	640	226
10	64	97	145	180	136	290	1,990	e470	481	346	1,110	219
11	66	226	509	169	136	264	1,620	e400	400	317	1,350	214
12	63	305	316	162	135	247	870	e360	392	311	770	209
13	62	272	474	158	135	234	642	e340	356	632	581	203
14	58	201	526	156	147	222	513	325	348	431	501	202
15	148	167	342	151	285	213	436	332	355	350	584	264
16	572	465	266	147	242	372	392	352	546	314	479	215
17	220	613	221	149	226	298	382	e420	424	295	451	199
18	147	349	192	137	213	423	2,490	e440	477	320	424	192
19	119	254	176	e144	213	708	1,010	e390	695	302	375	188
20	106	208	330	137	201	1,610	709	e340	454	277	355	181
21	100	207	245	139	192	976	607	e330	368	260	355	177
22	121	182	214	135	1,350	625	525	e900	326	252	341	257
23	99	161	190	134	936	485	450	e940	299	252	326	477
24	93	148	615	e124	535	407	405	e740	275	238	305	241
25	95	138	568	129	396	362	385	e580	258	227	292	217
26	117	129	380	124	351	330	385	e490	246	220	278	206
27	100	121	312	121	357	302	350	e420	242	216	267	202
28	100	115	272	118	342	283	323	374	252	212	273	223
29	115	111	245	126	---	275	309	356	303	242	331	195
30	122	110	223	152	---	322	294	342	241	253	302	188
31	115	---	208	138	---	271	---	331	---	1,230	310	---
TOTAL	3,561	5,528	8,308	5,319	7,714	12,694	17,617	16,231	11,855	14,501	16,836	7,122
MEAN	115	184	268	172	276	409	587	524	395	468	543	237
MAX	572	613	615	303	1,350	1,610	2,490	1,670	811	2,770	1,350	477
MIN	58	90	100	118	124	213	219	286	241	212	267	177
CFSM	0.90	1.45	2.11	1.35	2.17	3.22	4.62	4.12	3.11	3.68	4.28	1.87
IN.	1.04	1.62	2.43	1.56	2.26	3.72	5.16	4.75	3.47	4.25	4.93	2.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2003, BY WATER YEAR (WY)

	1977	1980	1984	1989	1995	1998	1999	2000	2001	2002	2003	
MEAN	177	200	220	270	323	344	319	247	206	169	200	162
MAX	550	606	573	620	739	622	688	524	652	468	543	435
(WY)	(1996)	(1986)	(1984)	(1995)	(1998)	(1990)	(1983)	(2003)	(1992)	(2003)	(2003)	(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)

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1981 - 2003	
ANNUAL TOTAL	48,090		127,286			
ANNUAL MEAN	132		349		236	
HIGHEST ANNUAL MEAN					351	1984
LOWEST ANNUAL MEAN					103	2002
HIGHEST DAILY MEAN	1,440	Sep 27	2,770	Jul 2	7,250	Aug 17, 1994
LOWEST DAILY MEAN	14	Sep 12	58	Oct 14	14	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	17	Aug 9	63	Oct 8	17	Aug 9, 2002
MAXIMUM PEAK FLOW			5,330	Jul 2	13,700	Aug 17, 1994
MAXIMUM PEAK STAGE			9.07	Jul 2	15.22	Aug 17, 1994
INSTANTANEOUS LOW FLOW			54	Oct 15	11	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	1.04		2.75		1.86	
ANNUAL RUNOFF (INCHES)	14.09		37.28		25.23	
10 PERCENT EXCEEDS	232		641		418	
50 PERCENT EXCEEDS	105		272		170	
90 PERCENT EXCEEDS	34		115		72	

e Estimated.

