

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 and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for current water year and period of record from rating curve extended above 10,000 ft³/s on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0330	23,000	17.55	Sep 17	0945	11,700	13.64

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	182	215	184	146	199	195	157	115	141	216	412
2	178	178	206	182	149	197	174	169	101	141	229	757
3	175	176	200	180	263	193	168	158	97	155	207	426
4	174	174	217	180	216	187	162	145	125	158	164	273
5	170	202	237	182	190	183	156	142	113	140	146	216
6	169	291	222	176	939	201	154	137	100	127	154	232
7	168	241	208	167	751	188	154	131	99	120	126	3,130
8	181	216	200	167	412	185	152	127	109	113	118	15,100
9	276	201	195	170	325	179	150	158	105	110	113	2,370
10	261	192	512	168	289	178	144	149	98	109	111	975
11	270	188	465	163	269	172	144	129	105	215	134	651
12	251	184	320	163	288	170	206	125	104	187	191	498
13	222	177	280	161	270	165	569	130	224	149	149	407
14	213	172	331	160	254	162	407	136	137	124	122	359
15	212	171	292	160	254	171	287	123	538	112	115	321
16	197	170	271	156	245	189	244	129	348	105	113	313
17	192	170	300	155	228	173	221	142	267	119	108	6,300
18	188	175	271	186	222	200	205	135	205	189	159	1,970
19	184	3,590	259	166	217	201	193	155	170	135	118	944
20	178	844	243	157	212	182	184	142	152	120	130	686
21	177	495	230	156	209	182	179	123	154	110	107	562
22	174	383	226	154	198	172	171	118	175	105	103	477
23	171	328	223	151	192	167	165	129	148	102	104	422
24	170	308	235	150	190	164	161	122	146	121	112	386
25	168	275	217	160	186	163	156	111	155	348	137	362
26	189	256	207	156	191	162	195	108	225	164	108	339
27	364	245	203	153	203	160	177	112	161	171	101	364
28	232	253	198	150	201	158	155	105	158	185	121	1,970
29	209	234	196	149	205	155	150	104	152	148	144	759
30	194	222	199	153	---	164	149	108	140	198	113	567
31	186	---	188	150	---	220	---	132	---	303	183	---
TOTAL	6,277	10,893	7,766	5,065	7,914	5,542	5,927	4,091	4,926	4,724	4,256	42,548
MEAN	202	363	251	163	273	179	198	132	164	152	137	1,418
MAX	364	3,590	512	186	939	220	569	169	538	348	229	15,100
MIN	168	170	188	149	146	155	144	104	97	102	101	216
CFSM	1.61	2.88	1.99	1.30	2.17	1.42	1.57	1.05	1.30	1.21	1.09	11.3
IN.	1.85	3.22	2.29	1.50	2.34	1.64	1.75	1.21	1.45	1.39	1.26	12.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	178	206	222	266	321	337	314	242	204	168	197	214
MAX	550	606	573	620	739	622	688	524	652	468	543	1,418
(WY)	(1996)	(1986)	(1984)	(1995)	(1998)	(1990)	(1983)	(2003)	(1992)	(2003)	(2003)	(2004)
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	134,825		109,929			
ANNUAL MEAN	369		300		239	
HIGHEST ANNUAL MEAN					351 1984	
LOWEST ANNUAL MEAN					103 2002	
HIGHEST DAILY MEAN	3,590	Nov 19	15,100	Sep 8	15,100	Sep 8, 2004
LOWEST DAILY MEAN	118	Jan 28	97	Jun 3	14	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	125	Jan 23	103	Jun 6	17	Aug 9, 2002
MAXIMUM PEAK FLOW			23,000*		23,000*	
MAXIMUM PEAK STAGE			17.55		17.55	
INSTANTANEOUS LOW FLOW			92		11	
ANNUAL RUNOFF (CFSM)	2.93		2.38		1.89	
ANNUAL RUNOFF (INCHES)	39.81		32.46		25.72	
10 PERCENT EXCEEDS	648		360		416	
50 PERCENT EXCEEDS	273		178		171	
90 PERCENT EXCEEDS	169		115		73	

* See REMARKS.

