

SANTEE RIVER BASIN

0213903612 CATAWBA RIVER AT CALVIN, NC

LOCATION.--Lat 35°44'23", long 81°43'44", Burke County, Hydrologic Unit 03050101, on right bank at City of Morganton's water intake, 0.5 mi upstream from Canoe Creek, and 0.5 mi north of Calvin.

DRAINAGE AREA.--508 mi².

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,002.40 ft above sea level (levels by City of Morganton). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. City of Morganton diverted about 14.7 ft³/s from Catawba River for municipal water supply. Considerable regulation, at times, caused by Lake James (station 02138519), 6.5 mi upstream. Maximum discharge for period of record computed on basis of releases from Lake James. Minimum discharge for period of record and current water year affected by regulation.

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	240	231	350	256	228	421	460	358	409	242	653	278
2	244	258	262	493	256	438	1100	313	338	335	1050	205
3	250	244	229	469	221	283	721	353	328	422	984	329
4	232	263	350	392	311	323	657	335	398	391	386	690
5	208	261	348	370	387	475	656	258	388	614	786	584
6	188	266	322	284	277	450	833	230	379	398	1370	554
7	481	271	333	254	229	327	492	324	398	265	1220	451
8	207	261	356	269	262	326	807	283	392	251	504	357
9	267	276	246	832	907	414	1030	231	320	341	820	344
10	242	432	224	398	486	351	381	223	299	348	896	423
11	224	278	331	399	354	296	840	514	354	323	1020	124
12	218	281	287	272	927	357	933	220	345	314	917	322
13	244	273	301	272	884	432	773	224	399	343	430	355
14	211	261	313	226	889	370	600	306	364	258	123	611
15	204	327	336	254	879	479	565	301	366	202	354	327
16	242	291	248	370	912	536	1010	329	298	403	268	316
17	247	272	470	429	462	377	1050	295	276	112	926	519
18	233	393	451	296	425	335	1020	322	364	279	218	561
19	186	191	471	493	481	344	477	328	382	894	191	541
20	212	328	594	503	850	347	672	231	396	567	273	649
21	214	320	436	379	821	741	419	316	324	262	285	590
22	243	337	409	580	808	611	411	400	335	247	559	353
23	241	244	326	456	513	537	551	402	291	310	564	338
24	353	269	250	456	278	501	453	409	237	308	240	687
25	340	286	253	276	539	404	501	411	336	339	247	481
26	234	320	355	339	482	469	488	341	453	363	217	416
27	220	343	424	225	374	399	480	327	468	267	427	405
28	202	341	389	220	334	472	362	325	379	454	452	387
29	197	337	479	310	---	719	393	393	370	841	562	256
30	245	351	256	268	---	1250	329	386	256	572	311	202
31	253	---	238	275	---	667	---	417	---	500	298	---
TOTAL	7522	8806	10637	11315	14776	14451	19464	10105	10642	11765	17551	12655
MEAN	243	294	343	365	528	466	649	326	355	380	566	422
MAX	481	432	594	832	927	1250	1100	514	468	894	1370	690
MIN	186	191	224	220	221	283	329	220	237	112	123	124
†	-77	0	0	+57	-106	+444	-32	-21	-52	+102	-201	-41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	612	645	799	1272	1273	1222	1059	827	802	592	786	579
MAX	1943	1615	1700	2438	2659	2093	1855	1597	2103	785	2078	1146
(WY)	1996	1993	1993	1995	1998	1993	1993	1993	1992	1995	1994	1995
MIN	228	294	298	365	528	409	437	326	355	380	364	301
(WY)	1994	2001	1999	2001	2001	1999	1999	2001	2001	2001	1997	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	201784		149689			
ANNUAL MEAN	551		410		868 (UNADJUSTED)	
HIGHEST ANNUAL MEAN					1230	
LOWEST ANNUAL MEAN					410	
HIGHEST DAILY MEAN	1920	Apr 4	1370	Aug 6	12300	Aug 18 1994
LOWEST DAILY MEAN	186	Oct 19	112	Jul 17	86	Oct 12 1993
ANNUAL SEVEN-DAY MINIMUM	219	Oct 14	219	Oct 14	112	Oct 10 1993
MAXIMUM PEAK FLOW			2930		12300*	
MAXIMUM PEAK STAGE			4.43		16.40	
INSTANTANEOUS LOW FLOW			11*		11*	
10 PERCENT EXCEEDS	1020		702		1750	
50 PERCENT EXCEEDS	433		348		625	
90 PERCENT EXCEEDS	244		231		272	

† Change in contents, equivalent in cubic feet per second, in Lake James, provided by Duke Power Company.
‡ Adjusted for change in contents.
* See REMARKS.

0213903612 CATAWBA RIVER AT CALVIN, NC--Continued

