

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'31", long 83°23'40", Macon County, Hydrologic Unit 06010202, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi downstream of unnamed creek, 1.8 mi south of Franklin, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--57.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1958, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 8, 1986. Minimum discharge for current water year also occurred Sept. 21, 22.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority; discharge, about 7,000 ft³/s.

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	104	89	92	281	120	278	134	145	146	322	122	94
2	90	82	90	210	111	246	131	145	145	1,080	119	85
3	81	77	89	239	105	216	126	149	168	440	110	81
4	74	78	119	200	186	199	124	140	172	287	103	92
5	78	125	328	184	144	190	201	263	147	261	98	83
6	69	189	198	168	132	532	157	1,300	140	262	100	78
7	71	134	157	155	142	346	218	1,310	490	234	114	76
8	65	112	138	148	123	276	216	810	313	204	114	75
9	61	100	126	141	117	241	234	543	213	203	120	74
10	62	96	126	134	150	214	350	401	179	182	121	76
11	91	237	169	124	133	199	341	366	162	181	111	71
12	75	285	130	118	123	185	262	294	164	158	101	69
13	65	218	157	e117	116	177	219	251	156	219	115	66
14	60	166	167	113	175	170	194	229	146	218	101	67
15	82	143	143	109	401	167	178	230	137	178	167	79
16	199	260	134	108	337	208	166	215	140	159	222	68
17	103	220	124	107	325	174	165	196	140	149	139	65
18	86	175	116	e101	255	177	192	193	288	140	124	63
19	78	150	123	99	211	192	161	180	241	133	107	61
20	73	135	362	100	187	275	152	168	176	128	100	60
21	72	192	218	110	176	233	191	234	150	122	104	58
22	67	165	181	109	686	201	169	583	136	168	114	313
23	64	144	157	97	565	184	153	416	127	168	110	227
24	62	132	534	e89	375	170	145	305	120	133	94	114
25	61	122	467	e88	298	160	145	251	114	122	89	96
26	62	115	322	90	304	154	152	224	109	114	85	88
27	60	113	252	87	364	148	135	200	122	111	82	86
28	96	104	212	85	325	142	130	183	118	108	81	90
29	112	100	189	149	---	138	175	177	110	104	81	77
30	115	98	171	162	---	169	163	165	119	108	122	74
31	97	---	165	132	---	143	---	156	---	117	90	---
TOTAL	2,535	4,356	5,956	4,154	6,686	6,504	5,479	10,422	5,088	6,513	3,460	2,706
MEAN	81.8	145	192	134	239	210	183	336	170	210	112	90.2
MAX	199	285	534	281	686	532	350	1,310	490	1,080	222	313
MIN	60	77	89	85	105	138	124	140	109	104	81	58
CFM	1.43	2.54	3.36	2.35	4.18	3.67	3.20	5.89	2.97	3.68	1.95	1.58
IN.	1.65	2.84	3.88	2.71	4.36	4.24	3.57	6.79	3.31	4.24	2.25	1.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY)

MEAN	82.8	107	147	190	220	240	201	157	119	88.2	81.2	72.5
MAX	295	266	317	336	460	440	375	339	259	210	185	161
(WY)	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(1989)	(2003)	(1994)	(1989)
MIN	24.7	41.2	52.2	55.2	99.1	84.7	72.9	56.3	42.3	32.7	28.7	25.6
(WY)	(2001)	(2002)	(1966)	(1981)	(2002)	(1988)	(1986)	(2001)	(1988)	(2000)	(2000)	(1999)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1961 - 2003	
ANNUAL TOTAL	40,055		63,859		142	
ANNUAL MEAN	110		175		69.9	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					69.9	1986
HIGHEST DAILY MEAN	924	Sep 27	1,310	May 7	2,710	Oct 4, 1964
LOWEST DAILY MEAN	27	Aug 13	58	Sep 21	18	Oct 7, 1986
ANNUAL SEVEN-DAY MINIMUM	28	Aug 9	64	Oct 21	19	Sep 14, 2000
MAXIMUM PEAK FLOW			1,730	May 7	4,720	Oct 4, 1964
MAXIMUM PEAK STAGE			8.87	May 7	12.96	Oct 4, 1964
INSTANTANEOUS LOW FLOW			57*	Sep 20	16*	Oct 7, 1986
ANNUAL RUNOFF (CFSM)	1.92		3.06		2.48	
ANNUAL RUNOFF (INCHES)	26.10		41.60		33.71	
10 PERCENT EXCEEDS	190		287		260	
50 PERCENT EXCEEDS	87		143		106	
90 PERCENT EXCEEDS	38		78		47	

e Estimated.
 * See REMARKS.

