

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'32", long 83°23'39", 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.

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. Maximum discharge for current water year and period of record from rating curve extended above 3,300 ft³/s on basis of contracted-opening measurement of peak flow. Minimum discharge for period of record also occurred Oct. 8, 1986.

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.

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	0545	2,420	10.76	Sep 17	0545	6,440	14.12

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	73	62	151	120	110	111	113	115	112	121	97	75
2	70	61	135	116	159	164	109	163	93	133	98	67
3	68	59	125	114	242	172	107	147	86	169	151	61
4	68	59	159	111	167	148	104	130	84	125	91	57
5	67	149	161	218	154	137	100	122	81	109	91	54
6	67	117	142	198	492	256	99	116	79	116	87	52
7	67	91	129	161	436	222	98	109	77	98	74	460
8	67	80	121	147	272	189	98	118	82	87	70	1,460
9	72	74	115	142	217	176	95	125	82	81	66	488
10	70	70	338	130	191	164	93	115	83	80	65	269
11	71	68	262	122	173	152	94	103	80	76	67	199
12	67	67	195	118	223	144	102	100	75	73	83	165
13	64	66	168	113	184	138	405	157	98	72	71	146
14	64	63	198	111	170	133	220	132	82	70	65	131
15	64	62	164	108	177	146	169	113	104	67	61	120
16	61	62	151	103	166	168	148	105	92	64	60	299
17	60	62	172	103	154	146	135	105	79	78	59	3,340
18	60	127	150	137	147	139	127	103	76	94	58	963
19	58	949	146	118	141	135	121	104	74	69	56	582
20	57	300	135	e111	137	130	117	102	69	65	56	405
21	58	188	126	e107	135	139	113	98	72	63	90	314
22	56	149	124	e103	127	125	108	92	74	59	74	260
23	55	129	125	e101	124	122	105	94	72	58	62	226
24	55	155	166	e98	123	119	102	89	90	68	67	203
25	54	133	138	198	119	117	100	86	133	88	73	185
26	112	120	129	210	122	115	199	84	170	149	61	173
27	126	132	123	162	123	113	144	83	129	136	59	188
28	82	291	118	139	117	112	124	81	150	95	56	447
29	72	227	115	128	112	109	117	80	145	83	59	224
30	66	176	149	122	---	122	114	143	123	102	68	189
31	64	---	125	115	---	121	---	181	---	120	67	---
TOTAL	2,115	4,348	4,755	4,084	5,214	4,484	3,880	3,495	2,846	2,868	2,262	11,802
MEAN	68.2	145	153	132	180	145	129	113	94.9	92.5	73.0	393
MAX	126	949	338	218	492	256	405	181	170	169	151	3,340
MIN	54	59	115	98	110	109	93	80	69	58	56	52
CFSM	1.19	2.54	2.69	2.31	3.15	2.53	2.27	1.97	1.66	1.62	1.28	6.89
IN.	1.38	2.83	3.10	2.66	3.40	2.92	2.53	2.28	1.85	1.87	1.47	7.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	82.4	108	147	189	219	238	200	156	118	88.3	81.0	79.8
MAX	295	266	317	336	460	440	375	339	259	210	185	393
(WY)	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(1989)	(2003)	(1994)	(2004)
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)

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL TOTAL	62,230		52,153		142	
ANNUAL MEAN	170		142		69.9	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					69.9	1986
HIGHEST DAILY MEAN	1,310	May 7	3,340	Sep 17	3,340	Sep 17, 2004
LOWEST DAILY MEAN	54	Oct 25	52	Sep 6	18	Oct 7, 1986
ANNUAL SEVEN-DAY MINIMUM	56	Oct 19	56	Oct 19	19	Sep 14, 2000
MAXIMUM PEAK FLOW			6,440*	Sep 17	6,440*	Sep 17, 2004
MAXIMUM PEAK STAGE			14.12	Sep 17	14.12	Sep 17, 2004
INSTANTANEOUS LOW FLOW			49	Sep 6	16*	Oct 7, 1986
ANNUAL RUNOFF (CFSM)	2.99		2.50		2.48	
ANNUAL RUNOFF (INCHES)	40.54		33.98		33.71	
10 PERCENT EXCEEDS	283		198		259	
50 PERCENT EXCEEDS	140		115		106	
90 PERCENT EXCEEDS	67		64		47	

* See REMARKS.

e Estimated.

