

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.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 3,300 ft³/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Sept. 30. 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	87	355	159	138	206	215	200	172	236	153	275
2	160	99	261	153	144	186	316	181	362	223	140	215
3	151	274	224	149	265	176	299	171	215	185	135	186
4	139	452	201	146	205	168	265	161	181	176	129	167
5	133	260	184	143	179	166	240	155	161	163	133	153
6	127	183	381	145	164	157	219	150	155	151	130	142
7	123	154	612	139	153	158	239	143	211	565	200	134
8	119	137	466	182	147	390	339	137	628	341	197	128
9	116	126	547	151	146	265	254	133	362	236	213	123
10	115	119	546	143	144	227	228	142	279	267	208	118
11	111	119	433	138	132	206	212	135	249	517	155	114
12	110	353	348	136	130	190	207	128	721	630	139	110
13	124	248	299	194	133	179	268	135	856	482	133	107
14	111	192	262	412	192	191	261	125	528	448	134	104
15	108	168	237	242	174	169	227	135	375	341	122	101
16	102	153	220	206	166	186	210	125	298	289	173	121
17	99	143	210	182	151	187	196	118	259	261	154	108
18	99	134	199	168	142	175	186	114	250	230	161	99
19	154	129	190	160	136	167	180	113	235	228	173	95
20	123	125	179	156	156	160	173	581	223	312	143	92
21	109	119	173	152	374	153	166	349	210	250	128	91
22	103	117	170	147	367	184	186	238	192	215	120	89
23	100	145	484	137	261	277	238	196	179	192	136	88
24	101	548	283	131	266	214	186	174	169	178	125	86
25	98	545	237	133	220	192	173	158	159	167	118	84
26	94	333	215	133	199	178	172	149	158	160	113	92
27	92	262	197	126	186	190	173	141	207	151	110	91
28	96	240	184	121	247	392	161	137	187	147	107	84
29	93	203	178	154	---	268	159	133	182	220	106	87
30	90	187	171	175	---	231	242	135	185	172	1,020	83
31	89	---	165	146	---	236	---	126	---	157	487	---
TOTAL	3,560	6,354	8,811	5,059	5,317	6,424	6,590	5,218	8,548	8,290	5,695	3,567
MEAN	115	212	284	163	190	207	220	168	285	267	184	119
MAX	171	548	612	412	374	392	339	581	856	630	1,020	275
MIN	89	87	165	121	130	153	159	113	155	147	106	83
CFSM	2.01	3.71	4.98	2.86	3.33	3.63	3.85	2.95	4.99	4.68	3.22	2.08
IN.	2.32	4.14	5.74	3.30	3.46	4.19	4.29	3.40	5.57	5.40	3.71	2.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

	83.2	110	150	188	219	237	200	157	122	92.3	83.3	80.7
MEAN	83.2	110	150	188	219	237	200	157	122	92.3	83.3	80.7
MAX	295	266	317	336	460	440	375	339	285	267	185	393
(WY)	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(2005)	(2005)	(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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	59,660		73,433		143	
ANNUAL MEAN	163		201		69.9	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					1986	
HIGHEST DAILY MEAN	3,340	Sep 17	1,020	Aug 30	3,340	Sep 17, 2004
LOWEST DAILY MEAN	52	Sep 6	83	Sep 30	18	Oct 7, 1986
ANNUAL SEVEN-DAY MINIMUM	59	Aug 14	87	Sep 24	19	Sep 14, 2000
MAXIMUM PEAK FLOW			1,500	Jun 12	6,440*	Sep 17, 2004
MAXIMUM PEAK STAGE			8.02	Jun 12	14.12	Sep 17, 2004
INSTANTANEOUS LOW FLOW			79*	Sep 26	16*	Oct 7, 1986
ANNUAL RUNOFF (CFSM)	2.85		3.52		2.50	
ANNUAL RUNOFF (INCHES)	38.87		47.84		34.04	
10 PERCENT EXCEEDS	260		340		260	
50 PERCENT EXCEEDS	120		170		108	
90 PERCENT EXCEEDS	72		110		47	

* See REMARKS.

