

TENNESSEE RIVER BASIN

03500240 CARTOOGEC HAYE 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 sea level. 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 Oct. 9, 16, 17.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	37	42	e36	71	136	158	77	122	104	64	47
2	23	37	39	e35	67	122	138	68	91	80	49	50
3	23	36	41	e34	63	126	136	63	67	85	59	50
4	23	36	40	e34	61	168	128	60	59	68	57	60
5	22	41	37	e34	59	134	118	59	54	67	53	50
6	23	38	36	e34	57	119	113	59	56	58	47	41
7	23	48	35	e36	55	111	108	57	63	53	44	38
8	22	49	35	45	53	103	102	56	81	53	40	37
9	22	355	34	39	53	97	98	57	68	58	41	36
10	22	161	34	e36	79	91	93	66	58	50	55	36
11	23	59	34	e36	60	86	89	67	54	46	77	35
12	22	45	36	59	67	120	85	60	48	44	67	35
13	22	40	34	47	72	151	168	54	48	43	69	34
14	22	37	115	43	98	113	126	51	44	41	77	35
15	22	35	64	43	102	210	125	49	43	40	49	33
16	22	35	129	42	132	174	114	47	41	40	46	32
17	22	55	264	41	288	145	103	46	40	38	43	33
18	22	40	126	104	175	127	97	44	39	38	42	32
19	22	40	95	781	134	115	92	43	36	37	40	38
20	23	41	e75	551	113	170	89	46	41	39	39	138
21	24	38	e62	249	105	194	85	46	43	40	36	54
22	24	35	e55	164	156	164	82	53	48	37	35	42
23	25	35	e48	125	127	150	79	49	46	36	35	39
24	25	36	e48	105	110	139	77	46	39	33	35	233
25	27	178	46	90	284	129	76	97	41	44	35	85
26	29	99	44	80	276	117	72	58	272	51	35	59
27	31	64	44	75	198	109	69	47	96	40	34	51
28	29	53	46	68	161	104	66	57	71	37	34	46
29	31	47	43	66	---	190	65	65	61	121	36	43
30	35	44	e40	119	---	213	76	51	158	74	37	41
31	37	---	e38	82	---	172	---	48	---	47	39	---
TOTAL	766	1894	1859	3333	3276	4299	3027	1746	2028	1642	1449	1583
MEAN	24.7	63.1	60.0	108	117	139	101	56.3	67.6	53.0	46.7	52.8
MAX	37	355	264	781	288	213	168	97	272	121	77	233
MIN	22	35	34	34	53	86	65	43	36	33	34	32
CFSM	.43	1.11	1.05	1.88	2.05	2.43	1.77	.99	1.18	.93	.82	.92
IN.	.50	1.23	1.21	2.17	2.13	2.80	1.97	1.14	1.32	1.07	.94	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	83.8	107	148	192	223	244	204	154	119	86.2	81.5	71.0
MAX	295	266	317	336	460	440	375	339	259	195	185	161
(WY)	1965	1993	1962	1996	1990	1980	1964	1976	1989	1989	1994	1989
MIN	24.7	41.5	52.2	55.2	102	84.7	72.9	56.3	42.3	32.7	28.7	25.6
(WY)	2001	1979	1966	1981	1986	1988	1986	2001	1988	2000	2000	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1961 - 2001

ANNUAL TOTAL	28789	26902	
ANNUAL MEAN	78.7	73.7	142
HIGHEST ANNUAL MEAN			204
LOWEST ANNUAL MEAN			69.9
HIGHEST DAILY MEAN	987	Apr 4	2710
LOWEST DAILY MEAN	18	Sep 16	18
ANNUAL SEVEN-DAY MINIMUM	19	Sep 14	19
MAXIMUM PEAK FLOW			1230
MAXIMUM PEAK STAGE			6.94
INSTANTANEOUS LOW FLOW			21*
ANNUAL RUNOFF (CFSM)	1.38	1.29	2.49
ANNUAL RUNOFF (INCHES)	18.76	17.53	33.83
10 PERCENT EXCEEDS	156	136	260
50 PERCENT EXCEEDS	48	51	106
90 PERCENT EXCEEDS	23	34	47

e Estimated.
* See REMARKS.

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC--Continued

