

Water-Data Report 2007

**03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC**

Upper Tennessee Basin  
Upper Little Tennessee Subbasin

LOCATION.--Lat 35°09'32", long 83°23'39" referenced to North American Datum of 1983, Macon County, NC, 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 mi<sup>2</sup>.

**SURFACE-WATER 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 fair. Maximum discharge for period of record from rating curve extended above 3,300 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow. Minimum discharge for period of record also occurred October 8, 1986. Minimum discharge for current water year also occurred September 13, 14.

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 ft<sup>3</sup>/s.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	47	73	214	423	108	155	108	80	45	43	82	36
2	43	70	149	218	110	356	119	78	54	41	68	30
3	42	64	124	170	103	207	101	77	49	43	69	28
4	41	61	110	147	97	161	149	82	45	40	53	26
5	40	60	102	180	93	138	116	103	43	38	55	25
6	50	58	97	190	e93	126	108	98	42	40	56	24
7	41	88	92	218	94	118	102	82	40	48	46	24
8	40	121	86	432	92	112	99	78	40	52	43	24
9	40	85	83	272	89	107	96	75	40	94	39	23
10	38	75	82	213	87	104	94	73	38	79	38	22
11	42	78	79	180	84	101	94	72	37	109	36	22
12	59	82	78	162	84	97	98	75	42	91	35	25
13	41	71	85	149	89	95	88	73	52	61	34	21
14	39	69	77	140	102	95	91	67	66	56	32	119
15	38	218	75	132	87	93	215	65	74	56	31	76
16	40	527	72	130	84	280	140	64	54	55	30	38
17	382	247	70	118	82	179	122	64	45	54	30	33
18	234	173	69	119	82	147	115	61	58	50	29	31
19	128	141	68	117	e81	132	109	59	90	46	28	29
20	148	123	67	110	80	124	104	58	139	47	27	27
21	104	111	68	166	119	117	101	56	58	45	26	27
22	92	103	156	233	96	113	97	54	49	52	26	28
23	78	97	123	170	88	109	92	53	45	62	24	27
24	72	91	99	150	85	104	91	54	44	55	55	25
25	66	86	133	137	130	101	90	52	42	50	52	25
26	64	83	137	127	112	98	92	51	47	59	35	23
27	98	80	118	122	102	97	105	50	44	66	35	24
28	137	78	108	118	96	94	89	49	43	66	31	23
29	96	78	100	109	---	98	86	47	66	55	30	22
30	84	129	97	108	---	98	82	46	51	53	30	22
31	77	---	163	103	---	92	---	44	---	60	32	---
<b>Total</b>	2,541	3,420	3,181	5,363	2,649	4,048	3,193	2,040	1,582	1,766	1,237	929
<b>Mean</b>	82.0	114	103	173	94.6	131	106	65.8	52.7	57.0	39.9	31.0
<b>Max</b>	382	527	214	432	130	356	215	103	139	109	82	119
<b>Min</b>	38	58	67	103	80	92	82	44	37	38	24	21
<b>Cfsm</b>	1.44	2.00	1.80	3.03	1.66	2.29	1.86	1.15	0.92	1.00	0.70	0.54
<b>In.</b>	1.66	2.23	2.07	3.49	1.73	2.64	2.08	1.33	1.03	1.15	0.81	0.61

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	83.2	110	149	188	215	232	196	153	120	90.6	81.4	79.2
<b>Max</b>	295	266	317	336	460	440	375	339	285	267	185	393
<b>(WY)</b>	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(2005)	(2005)	(1994)	(2004)
<b>Min</b>	24.7	41.2	52.2	55.2	94.6	84.7	72.9	56.3	42.3	32.7	28.7	25.6
<b>(WY)</b>	(2001)	(2002)	(1966)	(1981)	(2007)	(1988)	(1986)	(2001)	(1988)	(2000)	(2000)	(1999)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1961 - 2007	
<b>Annual total</b>	35,964		31,949			
<b>Annual mean</b>	98.5		87.5		141	
<b>Highest annual mean</b>					204	1990
<b>Lowest annual mean</b>					69.9	1986
<b>Highest daily mean</b>	629	Jan 18	527	Nov 16	3,340	Sep 17, 2004
<b>Lowest daily mean</b>	27	Aug 27	21	Sep 13	18	Oct 7, 1986
<b>Annual seven-day minimum</b>	30	Aug 5	23	Sep 7	19	Sep 14, 2000
<b>Maximum peak flow</b>			850	Nov 15	<sup>a</sup> 6,440	Sep 17, 2004
<b>Maximum peak stage</b>			5.53	Nov 15	14.12	Sep 17, 2004
<b>Instantaneous low flow</b>			<sup>a</sup> 20	Sep 10	<sup>a</sup> 16	Oct 7, 1986
<b>Annual runoff (cfsm)</b>	1.73		1.53		2.47	
<b>Annual runoff (inches)</b>	23.43		20.81		33.53	
<b>10 percent exceeds</b>	167		147		257	
<b>50 percent exceeds</b>	86		79		107	
<b>90 percent exceeds</b>	39		31		46	

<sup>a</sup> See Remarks.

