

## 03593500 TENNESSEE RIVER AT SAVANNAH, TN

LOCATION.--Lat 35°13'29", long 88°15'26", Hardin County, Hydrologic Unit 06040001, on right bank at upstream side of bridge on U.S. Highway 64, at Savannah, 16.8 mi downstream from Pickwick Landing Dam, and at mile 189.9.

DRAINAGE AREA.--33,140 mi<sup>2</sup> approximately.

PERIOD OF RECORD.--September 1930 to current year. Gage-height records collected in this vicinity since June 1905, are in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 853: Drainage area. WSP 1306: 1936 (monthly runoff). WSP 2110: 1966. WRD TN-73-1: 1973-96. WRD TN- 74-1: 1973. WRD TN-85-1: 1985. WRD TN-90-1: 1989.

GAGE.--Data collection platform. Datum of gage is 350.06 ft above NGVD of 1929 (Levels by Tennessee Valley Authority). Prior to Oct. 1, 1992, at datum 50.06 ft lower, prior to Apr. 7, 1945, at datum 8.45 ft lower. Oct. 1, 1948 to Apr. 13, 1978 and Oct. 1, 1989 to present, auxiliary water-stage recorder on downstream end of lockwall in lower pool at Pickwick Landing Dam Apr. 13, 1978 to Sept. 30, 1989, auxiliary water-stage recorder over tailwater elevation well adjacent to the powerhouse which is an integral part of Pickwick Landing Dam, both sites 16.8 mi. upstream from base gage at same datum. Apr. 5, 1937, to Jan. 31, 1939, auxiliary nonrecording gage 4.0 mi downstream and Feb. 1, 1939, to Sept. 30, 1948, water-stage recorder 4.3 mi downstream from base gage at same datum.

REMARKS.--Records good, except for estimated discharges, which are fair. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station ((see p. 370) and Water Resources Data for adjoining states). Periodic observations of specific conductance and water temperature are published in this report as miscellaneous water-quality data.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1867, 101.2 ft, Mar. 21, 1897, datum then in use, from floodmarks. discharge, 450,000 ft<sup>3</sup>/s, from rating curve extended above 320,000 ft<sup>3</sup>/s. Flood of Jan. 2, 1927, reached a stage of 92.7 ft datum then in use, discharge, 349,000 ft<sup>3</sup>/s. Minimum stage since 1905, 38.8 ft datum then in use, Sept. 8, 1925.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 399,000 ft<sup>3</sup>/s, Dec. 10; maximum gage height, 40.60 ft, Dec. 12; minimum daily discharge, 8,170 ft<sup>3</sup>/s, May 11, minimum gage height, 4.33 ft, Mar. 19.

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	65,400	64,300	157,000	55,600	49,800	119,000	51,600	11,300	20,900	38,300	26,400	29,000
2	44,300	63,400	190,000	62,600	56,300	115,000	47,300	42,400	9,520	19,300	34,400	21,500
3	45,800	66,300	193,000	77,400	65,300	104,000	54,500	32,400	43,100	14,500	20,000	21,000
4	52,400	67,700	195,000	77,700	49,500	85,800	61,000	30,300	30,800	21,600	24,600	20,900
5	49,100	72,000	189,000	77,400	36,800	78,800	62,200	28,000	28,700	39,300	33,800	20,100
6	47,900	71,200	198,000	56,000	47,800	58,000	64,300	27,300	52,000	25,500	22,600	30,300
7	44,800	70,800	276,000	61,200	51,100	54,100	87,600	8,630	24,700	53,600	22,300	31,100
8	43,400	71,100	332,000	66,900	50,000	61,800	124,000	8,840	30,500	63,000	33,000	31,300
9	31,900	70,400	355,000	76,500	54,200	68,100	132,000	33,100	33,400	71,000	35,200	39,600
10	33,400	68,400	389,000	79,200	53,800	65,900	134,000	29,900	51,200	79,700	37,700	32,200
11	44,200	64,500	380,000	80,100	48,500	69,800	125,000	8,170	65,900	80,700	37,400	31,700
12	54,500	64,600	365,000	80,000	44,100	51,400	94,900	32,300	52,400	65,300	38,900	43,800
13	e54,200	69,800	335,000	74,000	29,800	40,100	70,400	8,580	64,300	55,300	32,400	37,000
14	e53,800	69,400	303,000	90,800	42,300	53,100	68,400	15,000	48,800	56,600	15,700	28,100
15	e71,100	70,500	273,000	99,200	42,200	51,400	61,100	8,670	45,500	49,700	34,600	43,900
16	50,800	75,600	238,000	101,000	45,600	61,900	44,600	32,500	35,800	38,700	23,600	45,100
17	11,500	70,500	182,000	101,000	60,000	62,300	26,300	34,700	31,300	46,100	25,500	32,200
18	54,500	74,800	151,000	101,000	66,800	44,000	32,800	23,700	40,700	31,800	20,300	19,600
19	58,900	75,600	135,000	99,800	60,500	26,600	40,400	23,500	38,500	46,200	29,300	45,300
20	81,300	75,400	139,000	91,700	57,400	36,100	32,700	32,200	24,600	54,600	31,400	49,500
21	91,400	75,400	119,000	82,400	77,000	32,400	30,100	31,200	34,600	27,800	26,100	54,800
22	85,700	75,100	115,000	78,700	99,700	27,700	33,400	35,400	36,400	52,700	43,700	51,200
23	79,300	75,300	121,000	81,800	123,000	21,400	15,800	58,400	30,600	37,400	33,800	50,900
24	78,900	91,100	110,000	70,300	131,000	20,200	11,500	13,600	38,400	35,500	35,000	29,100
25	72,800	118,000	106,000	70,800	137,000	19,300	24,700	40,600	12,200	56,000	22,900	32,300
26	64,800	130,000	102,000	52,900	133,000	13,600	23,200	36,800	15,400	57,200	27,700	51,400
27	65,300	147,000	99,900	59,700	127,000	11,500	36,400	45,800	49,600	43,400	32,500	65,500
28	65,900	140,000	92,400	52,500	123,000	23,400	26,900	9,400	25,300	36,600	41,100	54,700
29	68,200	138,000	79,700	57,100	---	51,000	26,100	11,600	24,000	20,700	75,300	19,300
30	68,300	136,000	75,100	45,200	---	55,300	53,700	27,200	34,800	28,700	74,000	14,500
31	69,900	---	62,700	48,700	---	51,300	---	39,900	---	24,900	29,500	---
TOTAL	1,803,700	2,522,200	6,057,800	2,309,200	1,962,500	1,634,300	1,696,900	821,390	1,073,920	1,371,700	1,020,700	1,076,900
MEAN	58,180	84,070	195,400	74,490	70,090	52,720	56,560	26,500	35,800	44,250	32,930	35,900
MAX	91,400	147,000	389,000	101,000	137,000	119,000	134,000	58,400	65,900	80,700	75,300	65,500
MIN	11,500	63,400	62,700	45,200	29,800	11,500	11,500	8,170	9,520	14,500	15,700	14,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2005, BY WATER YEAR (WY)

MEAN	36,520	47,770	73,980	87,110	93,190	84,430	54,470	48,400	40,430	38,620	37,440	35,500
MAX	97,010	147,000	195,400	223,100	228,100	185,600	172,300	157,800	112,900	84,810	64,740	79,300
(WY)	(1990)	(1958)	(2005)	(1974)	(1957)	(1973)	(1994)	(2003)	(1997)	(1989)	(1967)	(2004)
MIN	18,820	20,510	26,850	23,710	30,610	19,840	11,150	8,977	10,490	12,910	15,910	15,800
(WY)	(1955)	(1954)	(1981)	(1986)	(2000)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1968)

03593500 TENNESSEE RIVER AT SAVANNAH, TN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		*WATER YEARS 1946 - 2005	
ANNUAL TOTAL	25,309,790		23,351,210			
ANNUAL MEAN	69,150		63,980		56,340	
HIGHEST ANNUAL MEAN					86,550	1973
LOWEST ANNUAL MEAN					23,090	1988
HIGHEST DAILY MEAN	389,000	Dec 10	389,000	Dec 10	495,000	Mar 18, 1973
LOWEST DAILY MEAN	7,360	Mar 28	8,170	May 11	60	Apr 23, 1966
ANNUAL SEVEN-DAY MINIMUM	8,820	Apr 3	18,500	May 7	5,890	May 20, 1986
MAXIMUM PEAK FLOW					507,000	Mar 18, 1973
MAXIMUM PEAK STAGE					a96.11	Mar 20, 1973
INSTANTANEOUS LOW FLOW					60	Apr 23, 1966
10 PERCENT EXCEEDS	142,000		120,000		107,000	
50 PERCENT EXCEEDS	53,800		51,200		42,500	
90 PERCENT EXCEEDS	14,000		22,000		21,100	

\* Regulated period only.  
 a Datum then in use; see GAGE paragraph.  
 e Estimated

