

TENNESSEE RIVER BASIN

03548500 HIWASSEE RIVER ABOVE MURPHY, NC

LOCATION.--Lat 35°04'49", long 84°00'10", Cherokee County, Hydrologic Unit 06020002, on right bank on U.S. Highway 64, 600 ft upstream from Will Scott Creek, 2.0 mi southeast of Murphy, and at mile 99.1.

DRAINAGE AREA.--406 mi².

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to current year. Published as "Hiwassee River at Murphy" 1897-1940. Records published for both sites August 1939 to April 1940. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORD.--WSP 583: 1899(M). WSP 973: Drainage area. WSP 1003: 1943. WSP 1306: 1901-2, 1904-17, 1919(M), 1922(M), 1924-26(M). WSP 1706: 1899, 1907.

GAGE.--Water-stage recorder. Datum of gage is 1,538.23 ft above sea level (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 mi downstream at 1,507.83 ft. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 mi downstream at 1,509.83 ft. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 mi downstream at 1,510.03 ft. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation since 1924 caused by Mission power plant at Andrews Dam 7 mi upstream, normal regulated storage, about 75 ft³/s-day. Flow regulated since 1942 by Chatuge Lake (station 03546500) 22 mi upstream. Prior to regulation, maximum discharge: 23,100 ft³/s, Mar. 19, 1899, from rating curve extended above 5,000 ft³/s; gage height: 18.4 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge: 10 ft³/s, Dec. 3, 1924, result of freezeup and filling of Lake Andrews, site and datum then in use. Minimum discharge for period of record also occurred Oct. 1, 2, 2000. Minimum discharge for current water year also occurred Oct. 2.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed is that of Mar. 19, 1899.

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	307	225	493	305	339	725	557	337	917	795	573	771
2	477	269	401	272	420	563	473	354	937	446	776	503
3	926	286	246	376	434	515	471	356	623	398	887	517
4	1040	274	560	310	303	725	499	324	505	363	570	585
5	911	341	580	256	354	749	448	378	424	417	394	950
6	e680	328	418	255	454	768	443	302	423	533	424	712
7	e300	329	447	244	329	759	432	336	439	317	724	1220
8	e270	355	342	308	365	555	410	288	893	300	715	1090
9	e570	995	247	303	271	467	406	295	772	306	1120	e873
10	e600	609	221	260	357	504	393	306	555	314	650	e861
11	e800	318	224	268	298	591	377	294	467	291	692	1030
12	e250	270	314	350	344	452	369	314	426	280	586	991
13	286	483	807	325	342	567	562	308	394	271	599	970
14	180	686	524	293	461	446	528	299	368	257	1170	810
15	308	582	281	302	485	827	517	286	345	251	838	475
16	455	352	292	292	544	720	516	275	347	254	744	315
17	619	576	474	288	1230	714	454	264	335	277	864	309
18	483	458	911	452	817	798	439	263	320	255	588	252
19	290	268	1250	2460	721	667	419	262	323	226	302	293
20	368	539	1410	1870	518	797	401	266	329	246	413	607
21	232	733	1370	937	498	744	385	265	294	263	757	422
22	303	694	1380	622	673	607	372	287	313	238	516	614
23	243	490	727	506	671	542	361	299	329	280	706	637
24	294	254	301	445	515	501	358	279	298	341	478	1360
25	294	321	272	520	1030	464	348	478	283	382	587	949
26	318	344	260	754	1210	437	375	366	307	639	576	733
27	358	430	263	538	946	426	338	314	359	291	584	391
28	357	539	279	326	725	401	323	434	304	277	551	303
29	262	357	301	314	---	503	318	e470	290	973	670	375
30	266	237	284	510	---	622	310	e360	907	746	696	306
31	263	---	267	456	---	532	---	331	---	559	709	---
TOTAL	13310	12942	16146	15717	15654	18688	12602	9990	13826	11786	20459	20224
MEAN	429	431	521	507	559	603	420	322	461	380	660	674
MAX	1040	995	1410	2460	1230	827	562	478	937	973	1170	1360
MIN	180	225	221	244	271	401	310	262	283	226	302	252

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001,® BY WATER YEAR (WY)

	525	587	934	1126	1207	1101	1035	923	893	878	865	714
MEAN	525	587	934	1126	1207	1101	1035	923	893	878	865	714
MAX	1530	1654	2532	2462	3076	2784	2155	2033	1852	1517	1674	1628
(WY)	1990	1990	1993	1974	1990	1990	1953	1953	1989	1989	1994	1943
MIN	98.8	106	214	223	408	373	219	212	238	228	120	141
(WY)	1953	1954	1948	1948	1954	1988	1986	1988	1953	1953	1953	1953

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001 [®]	
ANNUAL TOTAL	174965		181344		898	
ANNUAL MEAN	478		497		1414	
HIGHEST ANNUAL MEAN					1990	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	3700	Apr 4	2460	Jan 19	11600	Feb 16 1990
LOWEST DAILY MEAN	160	Sep 9	180	Oct 14	62	Oct 19 1952
ANNUAL SEVEN-DAY MINIMUM	208	Jul 17	251	Jul 16	80	Oct 18 1952
MAXIMUM PEAK FLOW			4740	Jan 19	18600	May 28 1973
MAXIMUM PEAK STAGE			6.97	Jan 19	13.88	May 28 1973
INSTANTANEOUS LOW FLOW			106*	Oct 1	106*	Oct 2 1993
10 PERCENT EXCEEDS	800		831		1620	
50 PERCENT EXCEEDS	396		420		790	
90 PERCENT EXCEEDS	252		268		226	

e Estimated.
[®] Regulated period only (1942-2001). See REMARKS.
 * See REMARKS.

