

03548500 HIWASSEE RIVER ABOVE MURPHY, NC

LOCATION.--Lat 35°04'53", 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 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to September 2004 (discontinued). 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 NGVD of 1929 (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.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation since 1924 caused by Mission power plant at Andrews Dam 7 mi upstream, normal regulated storage, about 75 ft<sup>3</sup>/s-day. Flow regulated since 1942 by Chatuge Lake (station 03546500) 22 mi upstream. Prior to regulation, maximum discharge: 23,100 ft<sup>3</sup>/s, Mar. 19, 1899, from rating curve extended above 5,000 ft<sup>3</sup>/s; gage height: 18.4 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge: 10 ft<sup>3</sup>/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.

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

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	682	679	744	398	686	321	373	423	400	1,650	324	728
2	342	297	863	404	449	423	352	606	646	1,540	648	518
3	331	315	1,230	416	593	590	345	634	336	1,290	1,200	264
4	329	1,020	1,720	370	952	463	333	542	299	802	1,270	371
5	321	1,060	1,280	1,260	1,380	428	323	483	421	1,410	1,020	352
6	355	692	938	2,250	3,230	708	317	442	331	1,030	351	332
7	1,100	655	1,070	2,110	2,970	691	319	404	274	912	293	1,110
8	1,350	1,040	1,120	2,040	2,430	558	313	383	318	783	274	2,270
9	1,420	913	921	1,260	1,240	501	306	368	276	844	924	887
10	1,320	1,050	1,180	964	632	473	296	360	398	767	1,310	1,330
11	916	1,180	1,280	757	551	431	300	345	561	452	1,220	1,480
12	684	1,130	1,730	557	707	404	304	351	787	470	744	1,650
13	1,100	1,140	1,640	610	611	383	1,040	334	640	672	411	1,630
14	1,420	1,330	978	428	555	371	756	329	617	655	288	1,730
15	1,450	642	936	666	551	407	574	312	612	491	272	1,560
16	1,320	292	1,550	1,010	517	592	499	307	804	621	249	2,190
17	1,120	286	2,080	408	475	510	448	313	1,010	493	545	6,700
18	669	272	1,760	684	472	464	418	329	912	436	1,150	3,430
19	301	2,190	2,000	1,450	419	445	395	376	476	294	976	2,600
20	901	849	1,000	1,680	403	415	377	335	280	373	830	2,360
21	1,210	942	745	983	414	427	363	312	637	564	711	2,220
22	1,190	805	458	863	392	387	350	301	1,020	804	519	2,080
23	1,230	409	448	831	385	367	334	321	746	729	859	2,140
24	623	889	687	471	371	360	325	287	1,360	248	989	2,130
25	290	1,690	678	609	359	353	317	279	1,120	339	1,070	1,640
26	334	1,660	484	1,260	351	344	987	299	1,190	422	1,020	1,590
27	1,000	815	470	657	355	339	767	504	559	666	581	1,640
28	1,360	1,020	449	449	338	334	550	342	1,160	739	368	2,000
29	571	1,170	1,010	410	327	328	473	278	1,560	639	280	1,710
30	1,210	691	1,720	401	---	403	436	549	1,620	411	420	1,640
31	1,140	---	960	1,170	---	393	---	511	---	355	650	---
TOTAL	27,589	27,123	34,129	27,826	23,115	13,613	13,290	11,959	21,370	21,901	21,766	52,282
MEAN	890	904	1,101	898	797	439	443	386	712	706	702	1,743
MAX	1,450	2,190	2,080	2,250	3,230	708	1,040	634	1,620	1,650	1,310	6,700
MIN	290	272	448	370	327	321	296	278	274	248	249	264

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, @ BY WATER YEAR (WY)

MEAN	536	594	936	1,118	1,191	1,081	1,012	928	887	882	863	738
MAX	1,530	1,654	2,532	2,462	3,076	2,784	2,155	2,041	1,852	1,517	1,674	1,743
(WY)	(1990)	(1990)	(1993)	(1974)	(1990)	(1990)	(1953)	(2003)	(1989)	(1989)	(1994)	(2004)
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004 <sup>@</sup>	
ANNUAL TOTAL	417,705		295,963		896	
ANNUAL MEAN	1,144		809		1,414	
HIGHEST ANNUAL MEAN					1990	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	7,270	May 7	6,700	Sep 17	11,600	Feb 16, 1990
LOWEST DAILY MEAN	265	Sep 21	248	Jul 24	62	Oct 19, 1952
ANNUAL SEVEN-DAY MINIMUM	494	Oct 1	305	May 20	80	Oct 18, 1952
MAXIMUM PEAK FLOW			8,490	Sep 17	18,600	May 28, 1973
MAXIMUM PEAK STAGE			9.29	Sep 17	13.88	May 28, 1973
INSTANTANEOUS LOW FLOW			177	Sep 6	106*	Oct 2, 1993
10 PERCENT EXCEEDS	1,780		1,620		1,620	
50 PERCENT EXCEEDS	1,070		612		784	
90 PERCENT EXCEEDS	530		318		232	

<sup>@</sup> Regulated period only (1942-2004). See REMARKS.

\* See REMARKS.

