

03550000 VALLEY RIVER AT TOMOTLA, NC

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, Hydrologic Unit 06020002, on right bank at site of former bridge on Secondary Road 1473 at Tomotla, 600 ft upstream from bridge on U.S. Highways 19 and 74, 0.2 mi upstream from Rogers Creek, 4.7 mi northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

REVISED RECORDS.--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M). WDR NC-97-1: 1979-1994(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from flood profile by Tennessee Valley Authority, from rating curve extended above 5,800 ft<sup>3</sup>/s on basis of slope-conveyance study. Minimum discharge for period of record occurred several days in Aug. and Sept. 1925. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority; discharge, about 20,000 ft<sup>3</sup>/s.

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	103	78	714	229	202	380	401	331	197	139	157	169
2	100	123	554	222	216	343	853	297	232	144	165	146
3	97	327	450	217	342	322	747	276	195	150	172	132
4	92	526	386	212	295	304	626	258	180	142	189	121
5	88	335	340	207	267	296	527	252	167	134	156	115
6	85	226	1,120	217	247	278	459	244	333	124	148	110
7	83	184	1,750	208	233	293	454	230	401	419	193	105
8	81	159	1,110	269	227	731	488	219	241	244	194	102
9	79	142	1,180	236	221	523	426	211	207	182	170	97
10	79	133	1,240	222	218	439	391	216	187	212	170	94
11	77	137	969	215	203	392	364	208	180	262	141	91
12	78	471	757	209	197	355	360	197	274	386	129	88
13	124	390	634	255	210	330	396	191	446	600	228	85
14	89	279	530	496	390	329	364	185	319	565	258	83
15	86	230	459	349	348	299	334	199	254	414	173	81
16	81	201	415	306	349	345	313	186	217	320	160	135
17	77	182	382	273	316	409	298	175	194	276	169	109
18	76	168	354	251	288	376	288	167	261	237	183	90
19	137	158	333	242	268	348	276	162	273	209	195	83
20	113	152	309	233	319	326	265	685	243	198	193	79
21	92	142	295	228	1,080	306	256	451	233	224	167	72
22	86	138	287	220	1,000	333	287	322	197	200	144	66
23	82	335	396	208	646	614	323	274	175	172	157	65
24	87	2,060	334	196	563	493	273	243	161	155	139	63
25	83	1,580	307	197	459	426	257	222	153	146	150	61
26	79	831	290	197	403	380	267	207	157	137	134	87
27	78	579	273	188	366	361	281	195	144	130	125	103
28	77	486	259	181	411	521	253	188	142	127	120	76
29	93	395	250	215	---	452	250	181	148	159	119	74
30	84	367	244	241	---	411	367	182	158	190	340	72
31	81	---	235	211	---	428	---	173	---	153	225	---
TOTAL	2,747	11,514	17,156	7,350	10,284	12,143	11,444	7,527	6,669	7,150	5,363	2,854
MEAN	88.6	384	553	237	367	392	381	243	222	231	173	95.1
MAX	137	2,060	1,750	496	1,080	731	853	685	446	600	340	169
MIN	76	78	235	181	197	278	250	162	142	124	119	61
CFSM	0.85	3.69	5.32	2.28	3.53	3.77	3.67	2.33	2.14	2.22	1.66	0.91
IN.	0.98	4.12	6.14	2.63	3.68	4.34	4.09	2.69	2.39	2.56	1.92	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2005, @BY WATER YEAR (WY)

	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
MEAN	98.8	162	291	393	451	455	365	264	191	170	136	104
MAX	442	685	1,045	936	1,022	1,379	835	755	607	443	563	434
(WY)	(1907)	(1930)	(1933)	(1974)	(1957)	(1917)	(1936)	(1929)	(1989)	(1949)	(1920)	(1928)
MIN	25.2	38.6	57.4	69.9	92.7	155	135	88.9	44.8	42.4	24.6	21.3
(WY)	(1955)	(1934)	(1934)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1988)	(1925)	(1925)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1904 - 2005 <sup>@</sup>	
ANNUAL TOTAL	91,123		102,201			
ANNUAL MEAN	249		280		256	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	2,060	Nov 24	2,060	Nov 24	8,190	Feb 16, 1995
LOWEST DAILY MEAN	60	Sep 6	61	Sep 25	12	Aug 27, 1925
ANNUAL SEVEN-DAY MINIMUM	68	Aug 31	70	Sep 19	13	Aug 24, 1925
MAXIMUM PEAK FLOW			3,440	Nov 24	18,000*	Nov 19, 1906
MAXIMUM PEAK STAGE			9.50	Nov 24	20.50	Nov 19, 1906
INSTANTANEOUS LOW FLOW			58*	Sep 25	12*	Aug 27, 1925
ANNUAL RUNOFF (CFSM)	2.39		2.69		2.46	
ANNUAL RUNOFF (INCHES)	32.59		36.56		33.44	
10 PERCENT EXCEEDS	416		464		496	
50 PERCENT EXCEEDS	192		222		179	
90 PERCENT EXCEEDS	84		88		60	

<sup>@</sup> See PERIOD OF RECORD.

\* See REMARKS.

