

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 mi².

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.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from flood profile by Tennessee Valley Authority, from rating curve extended above 5,800 ft³/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. 21, 22.

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 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	328	244	523	375	683	205	260	245	681	388	150
2	186	263	231	450	323	590	199	285	230	1,580	262	126
3	165	227	220	515	292	506	194	265	250	777	242	127
4	153	240	266	451	471	451	195	237	281	488	219	240
5	156	282	882	406	399	421	273	623	227	374	212	159
6	137	418	596	363	362	1,040	236	4,650	211	441	225	134
7	141	340	453	324	433	735	306	3,460	428	474	279	128
8	128	288	383	305	365	595	301	1,730	383	374	222	126
9	117	255	337	282	330	518	502	1,060	288	322	199	120
10	112	236	320	264	353	457	595	766	247	385	187	119
11	158	605	381	241	319	417	569	673	259	439	178	112
12	136	695	320	226	298	384	443	548	328	345	198	109
13	161	598	381	219	280	359	370	467	276	318	177	105
14	132	451	425	212	463	341	323	420	263	461	183	102
15	126	430	374	203	1,100	327	296	431	246	353	215	101
16	248	951	344	201	803	326	277	525	242	517	493	95
17	176	818	314	198	700	312	293	396	294	544	246	93
18	152	585	288	e183	568	303	463	367	306	360	207	90
19	136	490	304	e177	480	303	368	338	294	310	183	87
20	130	415	855	180	425	318	327	314	259	282	172	85
21	130	866	578	223	413	295	417	423	227	258	163	84
22	123	801	469	221	1,340	278	383	799	209	318	162	412
23	115	588	397	194	1,130	266	342	622	195	357	167	323
24	109	472	1,050	e180	806	254	314	474	183	280	148	175
25	106	402	1,000	e172	651	245	303	405	173	249	140	144
26	108	358	734	e166	676	238	295	363	165	232	136	131
27	104	351	564	e164	872	231	266	327	166	219	138	152
28	323	299	468	162	826	223	249	302	161	207	133	186
29	544	277	409	539	---	224	241	291	156	198	130	135
30	856	263	366	571	---	225	254	275	283	196	135	124
31	482	---	338	446	---	211	---	260	---	366	140	---
TOTAL	6,069	13,592	14,291	8,961	15,853	12,076	9,799	22,356	7,475	12,705	6,279	4,274
MEAN	196	453	461	289	566	390	327	721	249	410	203	142
MAX	856	951	1,050	571	1,340	1,040	595	4,650	428	1,580	493	412
MIN	104	227	220	162	280	211	194	237	156	196	130	84
CFSM	1.88	4.36	4.43	2.78	5.44	3.75	3.14	6.93	2.40	3.94	1.95	1.37
IN.	2.17	4.86	5.11	3.21	5.67	4.32	3.51	8.00	2.67	4.54	2.25	1.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2003, BY WATER YEAR (WY)@

MEAN	98.9	159	288	396	453	457	366	266	192	170	136	103
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1904 - 2003@	
ANNUAL TOTAL	97,005		133,730			
ANNUAL MEAN	266		366		256	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	1,760	Jan 25	4,650	May 6	8,190	Feb 16, 1995
LOWEST DAILY MEAN	45	Aug 14	84	Sep 21	12	Aug 27, 1925
ANNUAL SEVEN-DAY MINIMUM	50	Aug 8	91	Sep 15	13	Aug 24, 1925
MAXIMUM PEAK FLOW			6,010	May 6	18,000*	Nov 19, 1906
MAXIMUM PEAK STAGE			13.06	May 6	20.50	Nov 19, 1906
INSTANTANEOUS LOW FLOW			83*	Sep 20	12*	Aug 27, 1925
ANNUAL RUNOFF (CFSM)	2.56		3.52		2.46	
ANNUAL RUNOFF (INCHES)	34.70		47.83		33.47	
10 PERCENT EXCEEDS	562		612		500	
50 PERCENT EXCEEDS	188		294		178	
90 PERCENT EXCEEDS	78		135		59	

e Estimated.
 @ See PERIOD OF RECORD.
 * See REMARKS.

