

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.--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 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. 07.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	84	268	241	223	194	227	209	181	160	156	70
2	112	83	231	230	249	339	214	329	148	193	143	72
3	108	81	208	222	363	373	208	316	134	179	166	70
4	106	81	336	214	294	307	198	274	127	194	129	66
5	104	91	341	592	275	279	190	249	120	183	120	64
6	103	109	302	585	1,190	645	185	227	113	175	115	60
7	107	97	267	420	1,030	542	181	208	114	150	101	103
8	113	89	242	353	613	421	179	194	116	133	96	253
9	101	85	222	329	472	372	173	191	119	121	91	156
10	100	82	451	291	413	334	166	183	141	111	88	116
11	100	81	455	265	366	301	167	196	113	105	85	140
12	96	81	358	250	432	282	174	190	108	124	260	103
13	94	88	309	237	381	264	480	172	113	126	138	92
14	95	79	356	226	352	250	360	166	107	105	110	85
15	98	79	316	217	353	273	306	157	118	105	99	79
16	90	81	290	205	324	424	275	151	110	91	94	171
17	89	85	406	200	301	355	252	147	100	87	96	1,710
18	88	122	346	286	287	322	234	156	95	115	88	737
19	87	1,260	322	258	275	297	221	165	92	89	83	363
20	85	445	284	230	265	279	210	146	87	82	81	254
21	83	284	257	219	267	285	201	137	88	78	126	201
22	82	224	244	210	247	256	195	133	124	73	116	170
23	80	192	240	200	237	242	185	132	119	77	93	152
24	80	246	335	195	233	233	176	125	123	70	87	137
25	79	228	285	338	224	225	170	122	180	107	84	127
26	87	203	264	392	219	217	367	118	262	172	80	119
27	132	237	247	331	215	209	291	116	150	899	77	117
28	105	428	232	291	205	203	247	113	189	278	78	161
29	93	426	221	267	198	197	224	113	216	215	82	120
30	88	323	305	253	---	244	212	341	165	185	86	109
31	85	---	257	236	---	241	---	257	---	160	75	---
TOTAL	2,988	6,074	9,197	8,783	10,503	9,405	6,868	5,733	3,972	4,942	3,323	6,177
MEAN	96.4	202	297	283	362	303	229	185	132	159	107	206
MAX	132	1,260	455	592	1,190	645	480	341	262	899	260	1,710
MIN	79	79	208	195	198	194	166	113	87	70	75	60
CFSM	0.93	1.95	2.85	2.72	3.48	2.92	2.20	1.78	1.27	1.53	1.03	1.98
IN.	1.07	2.17	3.29	3.14	3.76	3.36	2.46	2.05	1.42	1.77	1.19	2.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2004,® BY WATER YEAR (WY)

MEAN	98.9	160	288	395	452	455	365	265	191	170	136	105
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)

03550000 VALLEY RIVER AT TOMOTLA, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1904 - 2004 [@]	
ANNUAL TOTAL	118,037		77,965		256	
ANNUAL MEAN	323		213		111	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	4,650	May 6	1,710	Sep 17	8,190	Feb 16, 1995
LOWEST DAILY MEAN	79	Oct 25	60	Sep 6	12	Aug 27, 1925
ANNUAL SEVEN-DAY MINIMUM	82	Nov 10	68	Aug 31	13	Aug 24, 1925
MAXIMUM PEAK FLOW			2,460	Jul 27	18,000*	Nov 19, 1906
MAXIMUM PEAK STAGE			7.61	Jul 27	20.50	Nov 19, 1906
INSTANTANEOUS LOW FLOW			58*	Sep 6	12*	Aug 27, 1925
ANNUAL RUNOFF (CFSM)	3.11		2.05		2.46	
ANNUAL RUNOFF (INCHES)	42.22		27.89		33.41	
10 PERCENT EXCEEDS	524		354		497	
50 PERCENT EXCEEDS	260		185		178	
90 PERCENT EXCEEDS	95		85		60	

[@] See PERIOD OF RECORD.

* See REMARKS.

