

02138500 LINVILLE RIVER NEAR NEBO, NC

LOCATION.--Lat 35°47'41", long 81°53'24", Burke County, Hydrologic Unit 03050101, in Pisgah National Forest on right bank 370 ft upstream from bridge on State Highway 126, 0.2 mi downstream of Shooks Creek, 0.5 mi upstream from Lake James, 2.0 mi northeast of Longtown, and 6.0 mi northeast of Nebo.

DRAINAGE AREA.--66.7 mi².

PERIOD OF RECORD.--May 1907 to August 1908 (fragmentary). June 1922 to current year. Prior to 1908 published as "Linville River at Fonta Flora" and as "Linville River at Branch" 1923-70. Records for October to December 1908 "Linville River at Fonta Flora" published in WSP 242 have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 892: 1929, 1935, 1937. WSP 1503: 1923(M), 1924-28, 1930, 1932-33(M), 1938(M), 1939(P). WDR NC-80-1: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,203.87 ft above NGVD of 1929. May 1907 to August 1908, nonrecording gage about 1.2 mi downstream at different datum. June 1922 to Aug. 27, 1937, nonrecording gage and Aug. 28, 1937, to Sept. 30, 1970, water-stage recorder at site on right bank 20 ft downstream of bridge on State Highway 126 at 1,204.87 ft. Oct. 1, 1970, to Sept. 30, 1973, at present site at 1,204.87 ft. Oct. 1, 1973, to Aug. 25, 1981, at present site at 1,204.87 ft. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, site and datum then in use, from rating curve extended above 6,400 ft³/s on basis of slope area measurement of peak flow. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Oct. 15.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of about 11 ft at former site and datum; discharge, 34,600 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	92	86	86	219	90	235	150	138	143	166	291	147
2	78	78	81	274	84	219	151	130	125	1,590	192	115
3	68	72	82	263	80	202	148	128	127	746	212	106
4	60	68	87	267	90	186	135	120	159	368	254	121
5	54	71	125	227	101	175	135	140	151	583	183	131
6	50	125	175	204	94	269	129	340	127	326	145	109
7	46	132	133	183	95	265	154	318	605	282	159	94
8	43	109	116	165	85	210	161	228	783	222	217	84
9	40	95	112	156	82	186	227	182	479	192	232	79
10	39	91	107	157	84	168	1,050	162	298	172	306	74
11	42	321	472	145	81	155	1,110	149	230	158	264	70
12	43	490	401	e132	79	144	684	136	216	147	224	68
13	42	418	444	e119	72	136	514	123	201	135	180	65
14	37	249	655	e111	76	131	374	114	196	125	165	62
15	49	187	375	e99	137	127	292	118	177	120	165	64
16	344	329	276	90	170	357	249	141	320	113	230	68
17	229	603	225	e81	151	346	222	123	486	108	185	63
18	137	364	191	e74	136	268	1,860	142	297	102	148	58
19	107	253	170	e75	137	455	853	137	304	115	133	55
20	91	203	280	e83	135	854	532	128	234	117	120	54
21	83	207	261	100	136	679	411	125	179	113	115	51
22	87	208	204	90	1,160	432	337	192	156	136	111	71
23	79	172	179	82	1,030	318	273	250	136	167	116	423
24	73	154	307	e74	525	258	233	234	121	128	134	144
25	68	142	419	e70	365	220	209	214	111	104	110	99
26	70	131	278	e68	292	196	197	262	107	91	94	78
27	69	123	219	e68	277	178	176	217	106	85	85	86
28	73	113	188	e68	268	165	159	173	111	80	83	143
29	83	101	168	80	---	160	148	157	122	79	85	122
30	85	93	154	99	---	173	141	146	125	87	87	94
31	89	---	143	95	---	165	---	147	---	92	119	---
TOTAL	2,550	5,788	7,113	4,018	6,112	8,032	11,414	5,314	6,932	7,049	5,144	2,998
MEAN	82.3	193	229	130	218	259	380	171	231	227	166	99.9
MAX	344	603	655	274	1,160	854	1,860	340	783	1,590	306	423
MIN	37	68	81	68	72	127	129	114	106	79	83	51
CFSM	1.23	2.89	3.44	1.94	3.27	3.88	5.70	2.57	3.46	3.41	2.49	1.50
IN.	1.42	3.23	3.97	2.24	3.41	4.48	6.37	2.96	3.87	3.93	2.87	1.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2003, BY WATER YEAR (WY)

	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933
MEAN	122	136	138	175	191	231	201	148	129	98.6	118	111
MAX	433	678	349	664	569	632	479	369	598	449	1,084	606
(WY)	(1937)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(1989)	(1940)	(1979)
MIN	18.9	27.8	30.9	31.8	60.8	74.3	62.0	48.9	33.7	23.0	15.5	13.8
(WY)	(1955)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1930)	(1925)	(1925)

SANTEE RIVER BASIN

02138500 LINVILLE RIVER NEAR NEBO, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1922 - 2003	
ANNUAL TOTAL	39,328		72,464		150	
ANNUAL MEAN	108		199		246	
HIGHEST ANNUAL MEAN					77.6	1979
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	1,330	Sep 27	1,860	Apr 18	14,000	Aug 13, 1940
LOWEST DAILY MEAN	15	Sep 12	37	Oct 14	8.0	Sep 7, 1925
ANNUAL SEVEN-DAY MINIMUM	17	Sep 8	41	Oct 8	10	Aug 22, 1925
MAXIMUM PEAK FLOW			3,310	Apr 18	39,500*	Aug 13, 1940
MAXIMUM PEAK STAGE			4.60	Apr 18	11.40	Aug 13, 1940
INSTANTANEOUS LOW FLOW			35*	Oct 14	2.0*	Jan 9, 1956
ANNUAL RUNOFF (CFSM)	1.62		2.98		2.24	
ANNUAL RUNOFF (INCHES)	21.93		40.41		30.48	
10 PERCENT EXCEEDS	219		360		267	
50 PERCENT EXCEEDS	70		142		98	
90 PERCENT EXCEEDS	27		73		37	

e Estimated.
 * See REMARKS.

