

Water-Data Report 2007

02138500 LINVILLE RIVER NEAR NEBO, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°47'41", long 81°53'24" referenced to North American Datum of 1983, Burke County, NC, Hydrologic Unit 03050101, in Pisgah National Forest on right bank 370 ft upstream from bridge on North Carolina 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.

SURFACE-WATER RECORDS

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 August 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. October 1, 1970, to September 30, 1973, at present site at 1,204.87 ft. October 1, 1973, to August 25, 1981, at present site at 1,204.87 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from rating curve extended above 12,000 ft³/s on basis of slope area measurement. Maximum gage-height for period of record from high-water mark at gage. Minimum discharge for period of record, result of freezeup.

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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	64	81	546	1,080	103	107	139	63	56	45	76	56
2	63	92	406	487	103	537	104	69	50	42	57	51
3	60	99	245	327	98	289	122	69	58	41	54	44
4	58	81	200	262	87	202	104	86	50	37	42	33
5	56	77	173	267	69	166	111	91	37	29	41	29
6	55	74	156	340	82	147	94	98	40	30	40	24
7	64	89	125	304	105	133	89	83	39	33	36	23
8	59	799	107	694	89	127	101	85	37	27	32	22
9	61	355	91	455	82	129	102	85	31	26	30	22
10	57	234	103	332	78	117	90	74	29	25	35	21
11	55	191	95	265	74	109	89	57	30	30	26	21
12	54	289	91	230	81	104	102	63	36	32	37	20
13	52	210	91	210	80	99	103	61	29	27	25	22
14	49	198	89	190	95	95	88	57	31	30	26	75
15	47	188	86	174	87	93	120	54	43	27	27	222
16	46	659	84	163	70	465	143	53	55	27	22	68
17	115	471	81	148	69	430	129	50	51	23	20	52
18	215	308	79	138	78	293	98	47	39	33	21	37
19	102	243	76	134	65	188	117	48	31	44	21	37
20	97	205	69	127	80	144	99	49	32	29	21	33
21	94	176	73	124	85	143	107	45	41	22	21	28
22	80	161	403	179	113	153	95	48	40	20	19	36
23	74	149	554	160	92	141	89	44	26	22	15	30
24	69	135	261	139	81	128	88	45	29	31	38	29
25	66	124	263	130	89	119	87	45	37	139	58	29
26	64	139	344	119	122	120	82	42	39	194	49	28
27	69	140	254	122	101	118	85	41	97	143	58	26
28	133	134	208	117	91	113	81	40	67	96	35	25
29	124	168	182	107	---	156	82	41	92	87	28	24
30	96	167	165	109	---	168	74	38	73	73	50	21
31	86	---	182	98	---	121	---	36	---	100	42	---
Total	2,384	6,436	5,882	7,731	2,449	5,454	3,014	1,807	1,345	1,564	1,102	1,188
Mean	76.9	215	190	249	87.5	176	100	58.3	44.8	50.5	35.5	39.6
Max	215	799	554	1,080	122	537	143	98	97	194	76	222
Min	46	74	69	98	65	93	74	36	26	20	15	20
Cfsm	1.15	3.22	2.84	3.74	1.31	2.64	1.51	0.87	0.67	0.76	0.53	0.59
In.	1.33	3.59	3.28	4.31	1.37	3.04	1.68	1.01	0.75	0.87	0.61	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	122	140	140	176	188	228	200	146	128	99.4	117	128
Max	433	678	349	664	569	632	479	369	598	449	1,084	1,570
(WY)	(1937)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(1989)	(1940)	(2004)
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)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1922 - 2007	
Annual total	46,790		40,356			
Annual mean	128		111		151	
Highest annual mean					259	2004
Lowest annual mean					77.6	1988
Highest daily mean	799	Nov 8	1,080	Jan 1	16,600	Sep 8, 2004
Lowest daily mean	32	Aug 10	15	Aug 23	8.0	Sep 7, 1925
Annual seven-day minimum	34	Aug 4	20	Aug 17	10	Aug 22, 1925
Maximum peak flow			1,710	Jan 1	^a 42,400	Sep 8, 2004
Maximum peak stage			3.93	Jan 1	^a 13.68	Sep 8, 2004
Instantaneous low flow			14	Aug 23	^a 2.0	Jan 9, 1956
Annual runoff (cfsm)	1.92		1.66		2.26	
Annual runoff (inches)	26.10		22.51		30.73	
10 percent exceeds	244		212		267	
50 percent exceeds	91		82		99	
90 percent exceeds	48		28		38	

^a See Remarks.

