

03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on State Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1920 to September 1990, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage Area. WSP 1336: 1921, 1922 (M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage at site 50 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1876 reached a stage of 11.9 ft, from studies by Tennessee Valley Authority.

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	296	105	249	144	110	129	175	124	138	208	191	204
2	269	105	192	139	108	116	276	115	411	181	165	168
3	250	132	173	135	172	114	205	110	e240	192	152	149
4	229	444	159	131	145	112	180	107	e190	213	143	136
5	212	230	149	128	130	117	163	106	e160	167	156	127
6	201	169	176	125	125	113	152	106	e140	145	150	121
7	191	148	206	120	120	112	158	102	129	620	180	115
8	181	136	184	126	119	175	254	99	171	371	223	110
9	175	127	294	117	117	136	197	96	173	251	200	106
10	169	121	297	114	113	126	174	112	171	216	217	101
11	161	120	235	112	106	119	160	110	235	457	186	98
12	157	311	202	110	105	113	166	98	938	708	158	95
13	167	213	182	214	109	109	209	96	1,260	443	147	91
14	150	171	166	407	120	122	220	95	561	339	142	88
15	144	153	156	206	112	108	186	104	367	322	132	86
16	137	143	149	174	108	124	167	96	284	325	148	93
17	131	135	144	154	103	123	155	91	238	263	172	88
18	129	129	139	142	99	114	147	89	218	233	155	81
19	140	125	134	138	97	110	139	103	211	316	152	79
20	129	122	126	135	103	106	133	137	184	327	140	77
21	124	117	125	131	169	103	133	109	174	284	130	76
22	122	114	124	128	150	114	137	99	160	273	150	75
23	126	132	673	e120	127	205	140	93	147	250	152	73
24	120	410	311	e115	140	150	125	89	138	214	135	71
25	115	318	242	115	125	135	119	85	131	196	124	70
26	112	220	209	115	118	126	120	83	132	178	118	82
27	110	199	187	110	114	143	120	80	167	170	114	74
28	115	202	174	105	150	735	113	80	145	181	117	70
29	133	172	164	115	---	297	112	78	142	250	123	75
30	113	161	157	130	---	221	147	77	136	203	549	69
31	108	---	150	116	---	195	---	75	---	184	307	---
TOTAL	4,916	5,384	6,228	4,371	3,414	4,822	4,882	3,044	7,891	8,680	5,328	2,948
MEAN	159	179	201	141	122	156	163	98.2	263	280	172	98.3
MAX	296	444	673	407	172	735	276	137	1,260	708	549	204
MIN	108	105	124	105	97	103	112	75	129	145	114	69
CFSM	3.93	4.44	4.97	3.49	3.02	3.85	4.03	2.43	6.51	6.93	4.25	2.43
IN.	4.53	4.96	5.73	4.02	3.14	4.44	4.50	2.80	7.27	7.99	4.91	2.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005, @ BY WATER YEAR (WY)

MEAN	95.1	107	131	154	167	183	172	141	113	94.6	98.7	95.6
MAX	379	362	323	374	363	466	349	293	263	285	404	667
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1929)	(1957)	(1923)	(2005)	(1989)	(1928)	(2004)
MIN	18.2	24.5	31.7	37.8	66.5	74.1	57.7	54.6	37.9	37.2	24.0	17.5
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1925)	(1954)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005 <sup>@</sup>	
ANNUAL TOTAL	64,284		61,908		129	
ANNUAL MEAN	176		170		208	
HIGHEST ANNUAL MEAN					70.6	1988
LOWEST ANNUAL MEAN					14	1954
HIGHEST DAILY MEAN	3,940	Sep 8	1,260	Jun 13	3,940	Sep 8, 2004
LOWEST DAILY MEAN	51	Jul 24	69	Sep 30	14	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	59	Jul 18	73	Sep 24	15	Sep 25, 1954
MAXIMUM PEAK FLOW			2,020	Jun 12	e8,400	Aug 15, 1928
MAXIMUM PEAK STAGE			5.01	Jun 12	12.08	Aug 17, 1994
INSTANTANEOUS LOW FLOW			66	Sep 30	13	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	4.35		4.20		3.20	
ANNUAL RUNOFF (INCHES)	59.19		57.00		43.43	
10 PERCENT EXCEEDS	282		252		229	
50 PERCENT EXCEEDS	115		139		101	
90 PERCENT EXCEEDS	74		98		42	

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

