

03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 82°42'20", 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. Minimum discharge for current water year also occurred Oct. 15.

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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	76	85	276	87	166	150	148	131	202	128	203
2	97	71	82	201	83	158	145	168	125	1,120	114	110
3	86	68	81	201	82	144	139	144	157	379	135	109
4	77	66	89	174	106	136	137	136	143	258	127	105
5	77	88	204	162	88	132	156	225	126	211	123	94
6	67	118	138	152	86	351	139	820	120	212	107	88
7	63	88	117	142	92	222	285	725	525	199	126	85
8	61	80	109	138	82	186	229	469	312	175	169	83
9	58	76	104	132	80	168	256	339	218	166	154	79
10	60	87	105	126	90	154	351	281	181	159	152	77
11	67	285	193	120	85	144	331	251	164	145	132	74
12	60	208	138	115	84	136	270	222	174	135	120	72
13	56	160	214	113	81	131	236	201	153	149	126	70
14	52	134	214	111	99	126	210	188	143	149	112	68
15	106	124	168	106	144	124	194	190	137	199	106	101
16	254	305	148	105	166	168	182	173	134	203	135	75
17	118	263	134	104	173	139	176	177	153	217	123	69
18	94	191	125	e100	146	156	256	207	160	172	110	65
19	83	161	126	e98	131	294	209	187	154	157	102	63
20	76	143	320	e96	121	732	191	172	134	146	101	62
21	72	164	190	e94	116	411	199	178	122	137	99	60
22	68	141	164	e92	744	302	185	296	116	169	111	382
23	65	126	148	e90	538	256	170	253	111	151	101	310
24	62	118	440	e89	291	225	162	244	106	132	92	147
25	67	112	322	e88	222	205	159	206	103	123	88	119
26	72	106	240	e87	204	191	157	189	100	116	84	106
27	63	101	205	e86	207	179	146	172	103	115	81	113
28	82	96	182	e85	183	170	140	159	113	112	81	124
29	97	92	167	94	---	163	146	154	101	106	85	98
30	101	90	155	104	---	178	149	145	101	124	90	92
31	84	---	149	92	---	157	---	139	---	132	87	---
TOTAL	2,558	3,938	5,256	3,773	4,611	6,404	5,855	7,558	4,620	6,170	3,501	3,303
MEAN	82.5	131	170	122	165	207	195	244	154	199	113	110
MAX	254	305	440	276	744	732	351	820	525	1,120	169	382
MIN	52	66	81	85	80	124	137	136	100	106	81	60
CFSM	2.04	3.25	4.20	3.01	4.08	5.11	4.83	6.03	3.81	4.93	2.80	2.73
IN.	2.36	3.63	4.84	3.47	4.25	5.90	5.39	6.96	4.25	5.68	3.22	3.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2003,® BY WATER YEAR (WY)

MEAN	94.4	105	129	155	168	184	173	142	112	92.1	97.6	88.5
MAX	379	362	323	374	363	466	349	293	254	285	404	297
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1929)	(1957)	(1923)	(1967)	(1989)	(1928)	(1928)
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1921 - 2003 <sup>®</sup>	
ANNUAL TOTAL	34,156		57,547		128	
ANNUAL MEAN	93.6		158		208	
HIGHEST ANNUAL MEAN					70.6	1949
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	1,040	Sep 27	1,120	Jul 2	2,940	Aug 17, 1994
LOWEST DAILY MEAN	20	Sep 12	52	Oct 14	14	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	22	Sep 7	59	Oct 8	15	Sep 25, 1954
MAXIMUM PEAK FLOW			2,280	Jul 2	e8,400	Aug 15, 1928
MAXIMUM PEAK STAGE			5.39	Jul 2	12.08	Aug 17, 1994
INSTANTANEOUS LOW FLOW			51*	Oct 14	13	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	2.32		3.90		3.17	
ANNUAL RUNOFF (INCHES)	31.45		52.99		43.09	
10 PERCENT EXCEEDS	160		253		228	
50 PERCENT EXCEEDS	80		135		100	
90 PERCENT EXCEEDS	36		80		42	

e Estimated.  
<sup>®</sup> See PERIOD OF RECORD.  
 \* See REMARKS.

