

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.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred July 24.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sep 8	0330	7,390	11.79	Sep 17	0315	6,090	10.16

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	88	86	142	124	93	113	82	97	74	112	237	170
2	84	84	132	122	106	115	77	133	67	100	204	418
3	80	81	125	118	165	115	75	113	64	114	185	238
4	78	79	150	116	130	113	73	100	77	110	140	168
5	76	173	153	127	137	105	71	95	65	91	128	135
6	75	311	138	121	882	126	70	90	62	82	115	128
7	74	194	129	118	467	113	69	86	61	73	102	1,670
8	78	152	123	118	272	107	68	82	62	75	94	3,940
9	98	132	120	119	211	103	67	96	64	73	89	1,200
10	116	122	554	117	182	107	65	86	67	95	85	731
11	112	114	373	114	164	104	66	80	59	95	86	535
12	100	109	256	113	191	102	100	79	68	85	114	430
13	89	103	220	111	168	99	476	221	84	79	95	361
14	86	97	250	109	157	97	217	189	74	68	82	314
15	85	96	217	108	162	104	153	130	216	61	77	281
16	79	93	196	106	150	109	132	116	170	57	73	497
17	77	91	216	105	142	100	120	121	114	70	69	2,640
18	75	102	188	125	135	97	110	137	93	81	67	994
19	73	1,280	175	108	131	95	104	122	80	62	83	669
20	72	389	162	102	127	92	100	122	72	58	76	526
21	70	261	154	100	126	97	96	120	76	54	75	443
22	69	208	150	96	119	83	92	118	144	56	64	382
23	67	179	146	94	115	81	89	111	88	53	95	340
24	66	182	197	94	115	80	87	102	81	51	90	308
25	65	158	156	105	115	79	85	92	95	212	83	283
26	156	145	147	109	115	78	129	86	104	195	70	261
27	199	140	141	114	117	77	105	82	90	244	78	336
28	122	217	135	107	115	76	92	77	93	153	100	865
29	105	172	132	102	114	74	88	75	82	150	95	410
30	96	153	143	101	---	83	89	86	98	377	229	336
31	90	---	128	96	---	93	---	92	---	247	248	---
TOTAL	2,800	5,703	5,648	3,419	5,223	3,017	3,247	3,336	2,644	3,433	3,428	20,009
MEAN	90.3	190	182	110	180	97.3	108	108	88.1	111	111	667
MAX	199	1,280	554	127	882	126	476	221	216	377	248	3,940
MIN	65	79	120	94	93	74	65	75	59	51	64	128
CFSM	2.24	4.71	4.51	2.73	4.46	2.41	2.68	2.66	2.18	2.74	2.74	16.5
IN.	2.58	5.25	5.20	3.15	4.81	2.78	2.99	3.07	2.43	3.16	3.16	18.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, @ BY WATER YEAR (WY)

MEAN	94.3	106	130	154	168	183	172	141	112	92.3	97.8	95.6
MAX	379	362	323	374	363	466	349	293	254	285	404	667
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1929)	(1957)	(1923)	(1967)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004 <sup>@</sup>	
ANNUAL TOTAL	59,946		61,907		129	
ANNUAL MEAN	164		169		208	
HIGHEST ANNUAL MEAN					70.6	1949
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	1,280	Nov 19	3,940	Sep 8	3,940	Sep 8, 2004
LOWEST DAILY MEAN	60	Sep 21	51	Jul 24	14	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	69	Oct 19	59	Jul 18	15	Sep 25, 1954
MAXIMUM PEAK FLOW			7,390	Sep 8	e8,400	Aug 15, 1928
MAXIMUM PEAK STAGE			11.79	Sep 8	12.08	Aug 17, 1994
INSTANTANEOUS LOW FLOW			48*	Jul 23	13	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	4.07		4.19		3.18	
ANNUAL RUNOFF (INCHES)	55.20		57.00		43.26	
10 PERCENT EXCEEDS	254		258		228	
50 PERCENT EXCEEDS	139		107		100	
90 PERCENT EXCEEDS	83		72		42	

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

\* See REMARKS.

