

TENNESSEE RIVER BASIN

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 mi².

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 Sept. 12, 13.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	44	73	62	102	60	136	119	66	50	34	32
2	43	44	65	59	93	130	119	89	56	47	32	30
3	42	43	61	60	90	129	111	84	58	45	32	29
4	41	42	57	e58	86	95	103	251	61	43	31	28
5	39	41	55	e58	81	e84	98	166	123	40	30	26
6	42	40	54	96	93	79	93	127	86	38	30	25
7	39	39	52	77	167	76	89	112	73	37	29	24
8	37	39	51	65	126	73	88	101	65	36	28	24
9	37	39	51	63	110	75	133	94	61	35	27	23
10	37	38	94	66	108	74	130	92	56	39	27	22
11	37	38	139	66	100	66	112	86	52	58	26	21
12	58	37	89	62	95	94	106	83	50	52	26	20
13	63	37	99	60	90	188	118	84	49	80	25	21
14	339	37	103	57	87	128	115	81	48	85	24	52
15	136	37	92	57	82	108	111	73	47	63	27	131
16	94	36	82	55	80	101	104	70	45	56	50	75
17	77	36	107	54	78	127	104	68	45	46	45	44
18	69	36	148	54	74	122	108	106	43	42	51	38
19	64	36	110	131	73	110	103	73	42	42	45	37
20	60	36	96	149	84	110	98	69	41	39	43	38
21	57	35	87	125	79	137	92	67	40	38	31	160
22	55	35	81	106	72	117	88	65	38	38	30	177
23	52	40	90	278	70	107	83	63	47	38	32	132
24	51	122	105	214	68	100	80	61	48	41	28	78
25	51	217	86	253	66	95	102	58	42	47	39	80
26	48	102	80	178	66	125	82	58	70	48	39	366
27	47	81	74	148	62	115	80	92	133	53	106	1040
28	46	70	72	130	e60	103	81	75	59	59	45	335
29	46	63	70	119	---	97	75	61	57	41	36	183
30	46	87	66	110	---	125	72	58	51	37	33	137
31	44	---	64	105	---	136	---	61	---	35	31	---
TOTAL	1943	1627	2553	3175	2442	3286	3014	2747	1752	1448	1112	3428
MEAN	62.68	54.23	82.35	102.4	87.21	106.0	100.5	88.61	58.40	46.71	35.87	114.3
MAX	339	217	148	278	167	188	136	251	133	85	106	1040
MIN	37	35	51	54	60	60	72	58	38	35	24	20
CFSM	1.55	1.34	2.04	2.54	2.16	2.62	2.49	2.19	1.45	1.16	0.89	2.83
IN.	1.79	1.50	2.35	2.92	2.25	3.03	2.78	2.53	1.61	1.33	1.02	3.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002,® BY WATER YEAR (WY)

MEAN	94.54	104.4	128.9	155.1	167.8	183.7	172.3	140.3	111.3	90.75	97.41	88.24
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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1921 - 2002®

ANNUAL TOTAL	27343	28527		
ANNUAL MEAN	74.91	78.16	127.7	
HIGHEST ANNUAL MEAN			208	1949
LOWEST ANNUAL MEAN			70.6	1988
HIGHEST DAILY MEAN	370	Jan 19	1040	Sep 27
LOWEST DAILY MEAN	29	Jul 15	20	Sep 12
ANNUAL SEVEN-DAY MINIMUM	31	Jul 12	22	Sep 7
MAXIMUM PEAK FLOW			1530	Sep 27
MAXIMUM PEAK STAGE			4.27	Sep 27
INSTANTANEOUS LOW FLOW			20*	Sep 11
ANNUAL RUNOFF (CFSM)	1.85	1.93	3.16	
ANNUAL RUNOFF (INCHES)	25.18	26.27	42.96	
10 PERCENT EXCEEDS	127	127	228	
50 PERCENT EXCEEDS	61	65	99	
90 PERCENT EXCEEDS	37	35	42	

e Estimated.
® See PERIOD OF RECORD.
* See REMARKS.

03441000 DAVIDSON RIVER NEAR BREVARD, NC--Continued

