

Water-Data Report 2007

03441000 DAVIDSON RIVER NEAR BREVARD, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°16'23", long 82°42'21" referenced to North American Datum of 1983, Transylvania County, NC, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on North Carolina Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at river mile 2.2.

DRAINAGE AREA.--40.4 mi².

SURFACE-WATER RECORDS

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. Maximum discharge for period of record is estimated. Minimum discharge for current water year also occurred August 23, September 12, 13.

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

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	57	88	510	1,230	119	293	93	58	46	49	47	52
2	55	86	244	478	122	629	91	57	48	53	38	34
3	53	79	174	345	111	247	85	63	49	45	36	29
4	51	76	147	286	106	184	93	87	47	42	35	27
5	49	73	131	382	e104	156	84	83	44	39	43	25
6	49	72	120	393	e102	141	82	81	43	45	40	24
7	46	109	113	441	e100	131	80	68	42	58	34	24
8	47	161	103	718	98	123	79	64	42	45	32	24
9	48	107	99	449	95	117	77	63	41	39	32	23
10	46	96	95	351	93	113	76	61	40	40	32	23
11	52	90	92	298	90	109	82	79	40	42	30	22
12	81	86	88	268	90	104	90	90	129	42	28	22
13	49	81	87	243	99	101	77	78	92	36	27	22
14	46	78	83	222	106	99	77	68	74	37	26	237
15	46	226	81	206	90	97	112	64	103	38	25	99
16	45	544	79	192	87	227	82	63	76	38	24	47
17	378	233	76	176	85	146	79	62	58	41	25	38
18	207	166	75	172	83	126	79	59	83	49	24	34
19	123	139	73	164	81	117	77	57	92	37	23	31
20	141	122	71	154	81	115	73	57	70	34	23	30
21	107	111	73	180	111	110	71	55	51	33	22	31
22	96	106	600	201	92	106	68	53	45	32	23	31
23	87	98	300	163	84	102	66	54	59	31	25	30
24	80	92	186	153	82	99	66	63	123	32	32	27
25	77	87	309	145	135	96	65	54	56	32	29	27
26	74	84	280	137	111	93	65	52	56	48	43	26
27	118	80	206	134	99	92	67	51	47	38	36	25
28	184	78	174	130	93	91	62	50	60	40	27	25
29	117	78	155	121	---	91	61	48	54	39	32	24
30	102	168	146	119	---	89	59	47	49	55	45	24
31	94	---	591	115	---	87	---	47	---	70	62	---
Total	2,805	3,694	5,561	8,766	2,749	4,431	2,318	1,936	1,859	1,299	1,000	1,137
Mean	90.5	123	179	283	98.2	143	77.3	62.5	62.0	41.9	32.3	37.9
Max	378	544	600	1,230	135	629	112	90	129	70	62	237
Min	45	72	71	115	81	87	59	47	40	31	22	22
Cfsm	2.24	3.05	4.44	7.00	2.43	3.54	1.91	1.55	1.53	1.04	0.80	0.94
In.	2.58	3.40	5.12	8.07	2.53	4.08	2.13	1.78	1.71	1.20	0.92	1.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2007 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	94.9	107	132	156	166	181	170	139	112	93.5	97.5	95.0
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

	Calendar Year 2006		Water Year 2007		Water Years 1921 - 2007 ^a	
Annual total	36,303		37,555			
Annual mean	99.5		103		128	
Highest annual mean					208	1949
Lowest annual mean					70.6	1988
Highest daily mean	600	Dec 22	1,230	Jan 1	3,940	Sep 8, 2004
Lowest daily mean	36	Jun 21	22	Aug 21	14	Sep 28, 1954
Annual seven-day minimum	38	Jun 16	23	Sep 7	15	Sep 25, 1954
Maximum peak flow			2,900	Jan 1	^b 8,400	Aug 15, 1928
Maximum peak stage			6.18	Jan 1	12.08	Aug 17, 1994
Instantaneous low flow			^b 21	Aug 21	13	Oct 11, 1954
Annual runoff (cfsm)	2.46		2.55		3.18	
Annual runoff (inches)	33.43		34.58		43.19	
10 percent exceeds	171		185		227	
50 percent exceeds	79		78		100	
90 percent exceeds	44		31		42	

^a See Period of Record.

^b See Remarks.

