

Water-Data Report 2008

0350056050 CULLASAJA RIVER AT SECONDARY ROAD 1620 NEAR HIGHLANDS, NC

Upper Tennessee Basin
Upper Little Tennessee Subbasin

LOCATION.--Lat 35°04'34", long 83°14'56" referenced to North American Datum of 1983, Macon County, NC, Hydrologic Unit 06010202, at bridge on Secondary Road 1620, downstream from Long Branch and approximately 3.4 mi northwest of Highlands.

DRAINAGE AREA.--18.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--WDR NC-04-01: 2001-2003(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,230 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from rating curve extended above 2,300 ft³/s, on basis of peak flow over dam at Lake Sequoyah. Minimum discharge for period of record and current water year also occurred August 12, 2008.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.0	28	34	81	252	52	67	38	26	12	8.2	25
2	6.1	26	32	72	103	48	63	36	24	11	7.5	23
3	6.0	23	38	69	81	46	61	35	21	11	7.1	20
4	6.9	22	29	67	78	710	83	34	21	10	6.7	17
5	14	21	28	63	70	291	114	32	19	10	6.7	16
6	13	22	26	59	94	167	123	30	18	12	6.6	14
7	8.9	22	25	53	82	234	84	29	18	17	6.4	14
8	7.5	21	24	49	67	192	74	29	17	12	6.1	14
9	7.2	21	24	45	60	147	67	47	17	16	5.9	28
10	7.0	20	24	48	55	131	62	39	21	12	5.8	19
11	6.5	20	22	180	51	120	60	76	17	11	5.2	17
12	7.2	19	21	87	49	110	60	49	18	11	5.2	22
13	7.4	19	21	71	67	102	53	39	18	13	5.4	21
14	7.1	19	20	63	51	97	51	36	16	15	5.7	17
15	7.6	61	23	57	47	134	49	40	16	11	5.4	15
16	8.7	30	58	53	44	125	47	72	17	12	6.1	15
17	11	26	32	93	92	99	45	43	15	10	11	15
18	19	24	27	75	187	92	43	42	14	9.7	9.0	15
19	43	23	27	64	83	281	48	44	13	9.2	7.5	13
20	26	22	26	56	72	199	45	41	13	9.0	6.8	13
21	20	21	59	50	67	135	41	56	13	8.5	6.1	12
22	32	69	43	53	78	120	38	37	21	11	5.4	12
23	302	38	205	56	66	109	37	33	26	9.6	5.7	10
24	220	30	89	50	59	101	35	31	14	8.2	5.3	9.7
25	74	34	65	44	55	92	35	30	13	7.6	48	9.2
26	52	96	62	43	87	85	34	28	12	8.7	544	10
27	43	84	55	41	65	80	36	27	12	9.0	213	12
28	37	58	124	38	56	76	94	27	13	8.1	67	12
29	33	50	114	38	53	77	49	29	20	20	43	11
30	31	38	e127	67	---	72	41	26	13	12	32	11
31	28	---	e115	48	---	68	---	24	---	8.7	28	---
Total	1,098.1	1,007	1,619	1,933	2,271	4,392	1,739	1,179	516	345.3	1,131.8	461.9
Mean	35.4	33.6	52.2	62.4	78.3	142	58.0	38.0	17.2	11.1	36.5	15.4
Max	302	96	205	180	252	710	123	76	26	20	544	28
Min	6.0	19	20	38	44	46	34	24	12	7.6	5.2	9.2
Cfsm	1.88	1.79	2.78	3.32	4.17	7.54	3.08	2.02	0.91	0.59	1.94	0.82
In.	2.17	1.99	3.20	3.82	4.49	8.69	3.44	2.33	1.02	0.68	2.24	0.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	53.5	83.3	101	87.1	76.4	80.3	65.8	56.4	63.0	65.0	50.4	97.1
Max	78.5	133	133	136	105	142	99.0	131	204	243	137	366
(WY)	(2005)	(2004)	(2005)	(2007)	(2004)	(2008)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
Min	35.2	33.6	52.2	62.4	46.0	42.8	36.8	24.0	17.2	11.1	11.3	10.6
(WY)	(2006)	(2008)	(2008)	(2008)	(2007)	(2006)	(2006)	(2007)	(2008)	(2008)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2001 - 2008	
Annual total	15,512.4		17,693.1			
Annual mean	42.5		48.3		74.1	
Highest annual mean					114	2005
Lowest annual mean					48.3	2008
Highest daily mean	620	Jan 1	710	Mar 4	2,840	Sep 17, 2004
Lowest daily mean	5.9	Sep 30	5.2	Aug 11	5.2	Aug 11, 2008
Annual seven-day minimum	6.3	Sep 27	5.5	Aug 9	5.5	Aug 9, 2008
Maximum peak flow			1,720	Mar 4	^a 5,300	Sep 17, 2004
Maximum peak stage			9.93	Mar 4	16.15	Sep 17, 2004
Instantaneous low flow			^a 4.4	Jul 21	^a 4.4	Jul 21, 2008
Annual runoff (cfs)	2.26		2.57		3.94	
Annual runoff (inches)	30.69		35.01		53.54	
10 percent exceeds	82		95		129	
50 percent exceeds	28		30		55	
90 percent exceeds	8.1		8.2		15	

^aSee Remarks.