

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 2,300 ft<sup>3</sup>/s, on basis of peak flow over dam at Lake Sequoyah.

## 0350056050 CULLASAJA RIVER AT SECONDARY ROAD 1620 NEAR HIGHLANDS, NC—Continued

**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	39	57	357	620	56	170	58	27	35	26	15	14
2	36	57	147	205	56	296	61	26	47	54	19	10
3	34	51	110	158	51	111	42	27	27	29	18	9.3
4	32	49	96	136	49	89	56	29	22	24	15	8.8
5	32	48	86	227	47	78	42	48	19	21	12	8.2
6	33	47	80	203	e45	74	39	47	17	17	12	7.6
7	31	87	75	237	43	73	37	31	16	45	11	7.5
8	30	104	69	334	41	58	36	28	16	46	10	7.5
9	32	67	66	183	40	56	35	26	19	27	9.6	7.3
10	31	60	64	151	39	56	34	25	16	28	9.0	7.0
11	31	57	61	132	39	54	38	32	16	35	8.7	7.3
12	32	55	59	121	39	52	46	37	20	31	9.8	7.4
13	31	52	60	111	46	50	36	30	21	21	9.6	7.5
14	30	50	56	102	53	49	36	26	20	19	8.8	46
15	30	233	53	96	42	47	84	23	23	25	8.1	38
16	31	378	52	89	41	115	51	23	20	25	7.7	16
17	232	144	49	82	45	68	44	23	17	19	7.6	11
18	90	111	48	82	44	58	42	20	34	18	8.3	9.4
19	62	96	47	78	43	55	40	19	34	17	8.0	8.2
20	102	86	45	72	38	53	37	18	40	15	7.7	7.9
21	64	79	46	92	56	50	37	18	22	15	7.5	8.2
22	57	75	345	115	43	48	34	17	17	13	7.2	8.4
23	52	70	132	81	39	46	33	17	15	13	7.3	8.0
24	49	66	89	74	37	44	32	17	14	14	9.2	7.6
25	48	62	137	69	71	42	32	17	16	13	9.0	7.4
26	46	60	118	65	54	40	35	16	19	12	20	7.2
27	114	58	92	63	47	39	41	16	16	12	20	6.9
28	144	55	82	60	45	38	31	16	71	18	12	6.6
29	76	57	75	57	---	38	30	15	121	17	9.7	6.4
30	66	176	73	56	---	36	28	15	35	18	14	5.9
31	61	---	441	54	---	35	---	14	---	24	21	---
<b>Total</b>	1,778	2,647	3,310	4,205	1,289	2,118	1,227	743	825	711	351.8	318.5
<b>Mean</b>	57.4	88.2	107	136	46.0	68.3	40.9	24.0	27.5	22.9	11.3	10.6
<b>Max</b>	232	378	441	620	71	296	84	48	121	54	21	46
<b>Min</b>	30	47	45	54	37	35	28	14	14	12	7.2	5.9
<b>Cfsm</b>	3.05	4.69	5.68	7.22	2.45	3.63	2.18	1.27	1.46	1.22	0.60	0.56
<b>In.</b>	3.52	5.24	6.55	8.32	2.55	4.19	2.43	1.47	1.63	1.41	0.70	0.63

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	56.5	91.6	109	91.2	76.1	70.0	67.1	59.5	70.7	72.7	52.4	109
<b>Max</b>	78.5	133	133	136	105	97.0	99.0	131	204	243	137	366
<b>(WY)</b>	(2005)	(2004)	(2005)	(2007)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
<b>Min</b>	35.2	40.1	56.6	62.7	46.0	42.8	36.8	24.0	24.7	17.9	11.3	10.6
<b>(WY)</b>	(2006)	(2002)	(2002)	(2004)	(2007)	(2006)	(2006)	(2007)	(2006)	(2006)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2001 - 2007	
Annual total	20,468.2		19,523.3			
Annual mean	56.1		53.5		78.4	
Highest annual mean					114	2005
Lowest annual mean					53.5	2007
Highest daily mean	441	Dec 31	620	Jan 1	2,840	Sep 17, 2004
Lowest daily mean	8.2	Aug 5	5.9	Sep 30	5.9	Sep 30, 2007
Annual seven-day minimum	8.9	Jul 31	6.9	Sep 24	6.9	Sep 24, 2007
Maximum peak flow			1,670	Jan 1	<sup>a</sup> 5,300	Sep 17, 2004
Maximum peak stage			9.80	Jan 1	16.15	Sep 17, 2004
Instantaneous low flow			5.2	Sep 30	5.2	Sep 30, 2007
Annual runoff (cfsm)	2.98		2.85		4.17	
Annual runoff (inches)	40.50		38.63		56.65	
10 percent exceeds	105		103		134	
50 percent exceeds	43		39		58	
90 percent exceeds	12		9.3		19	

<sup>a</sup> See Remarks.

