



Water-Data Report 2010

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 September 2010 (discontinued).

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 National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges which are poor. 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 also occurred August 12, 2008.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	96	243	80	111	128	63	70	61	305	34	21	12
2	87	167	364	99	168	69	65	66	202	32	18	11
3	82	140	226	91	173	62	63	202	165	31	18	10
4	74	123	157	86	189	58	62	103	112	30	18	9.8
5	112	111	133	82	542	57	59	81	94	27	22	9.2
6	80	103	116	79	335	56	57	72	83	26	21	9.0
7	77	96	112	77	213	55	53	67	75	24	18	8.4
8	66	94	121	74	175	56	88	62	68	23	15	9.0
9	65	96	401	71	169	60	79	59	65	23	17	9.6
10	72	167	187	68	153	64	57	59	63	26	18	9.4
11	64	476	153	64	130	102	54	64	58	23	19	14
12	92	213	135	55	122	128	51	59	56	33	18	29
13	82	169	202	41	113	130	49	55	52	31	15	16
14	97	145	157	18	104	92	48	53	47	33	25	11
15	111	127	134	43	103	79	46	199	47	25	21	9.5
16	98	116	119	52	92	73	45	144	51	22	22	9.1
17	84	109	110	246	86	68	43	110	45	22	16	8.5
18	77	309	159	105	82	66	41	80	40	21	15	8.3
19	72	187	162	84	80	62	40	68	37	22	15	7.8
20	68	154	117	81	77	58	41	62	36	21	18	7.7
21	65	133	107	150	76	81	43	63	34	19	138	7.1
22	63	129	101	124	101	220	39	59	44	18	62	12
23	132	e124	96	103	93	94	38	54	130	17	28	16
24	366	e110	94	429	87	81	92	52	64	17	21	9.8
25	146	101	559	459	75	76	415	52	42	17	18	8.8
26	115	95	239	221	70	74	117	48	119	17	17	7.1
27	183	90	177	176	68	67	90	45	48	20	18	9.9
28	248	86	e146	156	66	134	77	43	44	26	18	8.5
29	151	86	e133	146	---	120	69	42	38	62	16	3.4
30	128	98	e126	152	---	86	64	51	36	23	15	7.7
31	238	---	121	135	---	76	---	455	---	19	13	---
Total	3,491	4,397	5,244	3,878	3,870	2,567	2,155	2,690	2,300	784	734	638.0
Mean	113	147	169	125	138	82.8	71.8	86.8	76.7	25.3	23.7	21.3
Max	366	476	559	459	542	220	415	455	305	62	138	99
Min	63	86	80	18	66	55	38	42	34	17	13	7.1
Cfsm	5.99	7.80	9.00	6.65	7.35	4.40	3.82	4.62	4.08	1.35	1.26	1.13
In.	6.91	8.70	10.38	7.67	7.66	5.08	4.26	5.32	4.55	1.55	1.45	1.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	56.0	83.4	105	90.6	79.8	80.3	67.9	67.7	63.4	56.6	44.8	94.4
Max	113	147	169	136	138	142	99.0	131	204	243	137	366
(WY)	(2010)	(2010)	(2010)	(2007)	(2010)	(2008)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
Min	16.5	20.5	52.2	62.4	44.8	42.8	36.8	24.0	17.2	11.1	11.3	10.6
(WY)	(2009)	(2009)	(2008)	(2008)	(2009)	(2006)	(2006)	(2007)	(2008)	(2008)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2001 - 2010	
Annual total	32,875		32,748.0			
Annual mean	90.1		89.7		74.6	
Highest annual mean					114	2005
Lowest annual mean					48.3	2008
Highest daily mean	1,250	Sep 21	559	Dec 25	2,840	Sep 17, 2004
Lowest daily mean	13	Aug 10	7.1	Sep 21	5.2	Aug 11, 2008
Annual seven-day minimum	14	Aug 6	8.3	Sep 15	5.5	Aug 9, 2008
Maximum peak flow			1,270	Jan 24	^a 5,300	Sep 17, 2004
Maximum peak stage			8.50	Jan 24	16.15	Sep 17, 2004
Instantaneous low flow			5.1	Sep 21	^a 4.4	Jul 21, 2008
Annual runoff (cfsm)	4.79		4.77		3.97	
Annual runoff (inches)	65.05		64.80		53.92	
10 percent exceeds	168		169		134	
50 percent exceeds	64		70		55	
90 percent exceeds	18		17		15	

^a See Remarks.

