

0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC

LOCATION.--Lat 35°04'34", long 83°14'56", Macon County, 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.

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

GAGE.--Water-stage recorder. 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 poor. Maximum discharge for current water year and 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 Sept. 12, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 7	2245	2,800	12.11	Sep 17	0600	5,300	16.15

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supercede figures published in the reports for 2001, 2002, and 2003.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
2001	Sep. 24, 2001	738	7.10
2002	Sep. 27, 2002	1,850	10.18
2003	Sep. 22, 2003	1,460	9.26

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	41	110	77	50	55	37	47	45	65	165	72
2	51	40	102	74	88	61	33	104	36	68	193	128
3	48	38	95	72	157	57	32	73	33	87	133	61
4	47	37	123	70	86	51	31	58	30	72	92	48
5	46	110	120	92	85	51	30	54	28	59	79	43
6	45	180	102	82	568	70	29	49	26	54	71	41
7	44	90	93	71	228	58	31	45	26	47	62	1,030
8	45	71	88	68	151	e54	29	42	46	42	58	1,800
9	48	62	84	67	128	57	28	43	37	42	54	412
10	46	56	379	63	114	47	27	44	31	40	52	252
11	56	52	192	61	103	50	27	40	32	37	50	192
12	49	48	142	60	119	47	37	47	29	51	59	161
13	44	44	126	58	97	46	253	104	31	38	52	142
14	45	41	162	57	87	45	94	77	39	34	47	127
15	44	40	125	56	88	49	71	56	119	31	44	116
16	37	39	113	54	82	50	63	52	141	29	42	461
17	34	39	148	54	76	45	57	60	62	31	42	2,840
18	34	75	113	75	73	43	54	81	50	42	41	592
19	34	1,220	107	60	70	43	50	68	44	31	38	360
20	33	240	98	54	68	42	47	54	40	27	37	274
21	32	166	92	53	67	46	45	48	38	26	53	223
22	33	138	90	51	63	40	43	46	57	24	44	187
23	32	120	89	49	63	38	40	47	42	23	39	163
24	32	152	129	49	63	38	38	42	47	22	37	146
25	33	122	93	e58	59	37	37	39	74	22	38	132
26	90	106	86	e71	59	e34	89	36	78	30	35	122
27	100	107	83	70	57	34	62	35	52	283	35	156
28	55	254	79	59	54	33	49	33	55	100	43	403
29	48	144	77	55	52	32	46	32	55	77	46	166
30	44	121	109	53	---	41	46	51	52	341	54	143
31	42	---	82	51	---	47	---	76	---	175	46	---
TOTAL	1,424	3,993	3,631	1,944	3,055	1,441	1,555	1,683	1,475	2,050	1,881	10,993
MEAN	45.9	133	117	62.7	105	46.5	51.8	54.3	49.2	66.1	60.7	366
MAX	100	1,220	379	92	568	70	253	104	141	341	193	2,840
MIN	32	37	77	49	50	32	27	32	26	22	35	41
CFSM	2.45	7.09	6.24	3.34	5.62	2.48	2.76	2.89	2.62	3.53	3.23	19.5
IN.	2.82	7.92	7.20	3.85	6.06	2.86	3.08	3.34	2.92	4.07	3.73	21.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	2001	2002	2003	2004	2001	2002	2003	2004	2001	2002	2003	2004
MEAN	56.0	88.1	94.1	71.8	88.0	75.8	75.4	83.0	56.1	56.4	50.0	154
MAX	65.4	133	117	77.9	105	97.0	99.0	131	88.5	97.6	76.5	366
(WY)	(2003)	(2004)	(2004)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	45.9	40.1	56.6	62.7	63.4	46.5	51.8	54.3	30.5	22.2	15.3	48.9
(WY)	(2004)	(2002)	(2002)	(2004)	(2002)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2001)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	35,046		35,125			
ANNUAL MEAN	96.0		96.0		82.3	
HIGHEST ANNUAL MEAN					96.0 2004	
LOWEST ANNUAL MEAN					57.3 2002	
HIGHEST DAILY MEAN	1,220	Nov 19	2,840	Sep 17	2,840	Sep 17, 2004
LOWEST DAILY MEAN	32	Oct 21	22	Jul 24	7.9	Aug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	33	Oct 19	25	Jul 20	8.5	Aug 9, 2002
MAXIMUM PEAK FLOW			5,300*		5,300*	
MAXIMUM PEAK STAGE			16.15		16.15	
INSTANTANEOUS LOW FLOW			19		6.7*	
ANNUAL RUNOFF (CFSM)	5.12		5.12		4.39	
ANNUAL RUNOFF (INCHES)	69.49		69.65		59.58	
10 PERCENT EXCEEDS	144		149		132	
50 PERCENT EXCEEDS	79		54		61	
90 PERCENT EXCEEDS	46		33		28	

* See REMARKS.

e Estimated.

