

02113850 ARARAT RIVER AT ARARAT, NC

LOCATION.--Lat 36°24'16", long 80°33'42", Surry County, Hydrologic Unit 03040101, on right bank 265 ft upstream from bridge on Secondary Road 2019 at Ararat, and 300 ft downstream of Flat Shoal Creek.

DRAINAGE AREA.--231 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 20, 1999. Minimum discharge for current water year also occurred Oct. 8, 9, 10.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 14, 1947, reached a stage of 21.4 ft, result of failure of dams upstream; discharge, 26,000 ft³/s, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	177	161	278	182	469	379	744	367	549	800	671
2	102	153	161	310	177	464	359	471	330	1,430	578	499
3	97	139	160	395	173	412	345	599	398	1,300	1,570	490
4	88	133	159	349	240	376	334	704	739	700	1,100	1,210
5	86	153	249	289	219	364	350	538	803	582	1,040	629
6	78	308	236	270	192	434	331	549	466	660	1,250	488
7	73	193	200	250	218	370	469	484	1,610	654	3,730	458
8	71	162	186	242	204	340	434	453	1,480	530	1,690	440
9	72	149	193	234	189	325	851	425	785	583	3,170	424
10	74	149	184	223	196	305	2,230	401	573	644	1,300	410
11	142	1,200	471	211	192	297	1,350	388	505	564	1,290	394
12	120	1,000	369	203	192	290	697	372	1,300	483	798	386
13	92	562	559	199	185	280	539	347	1,070	532	697	385
14	82	355	568	202	189	275	483	336	967	512	661	390
15	81	274	351	196	274	264	455	360	876	460	661	390
16	331	511	286	193	486	716	433	434	2,410	695	725	382
17	215	840	253	197	372	485	410	366	1,380	591	616	351
18	139	434	233	e185	367	389	951	384	963	448	546	361
19	116	331	222	e181	410	356	1,390	387	2,090	1,000	514	442
20	109	276	529	e181	377	2,670	712	360	1,050	674	502	360
21	108	255	363	e177	357	997	596	357	777	476	489	347
22	125	239	281	e177	3,730	603	548	427	660	708	507	407
23	113	213	254	191	1,780	500	498	444	592	956	497	1,060
24	103	199	398	184	783	453	466	390	547	586	491	453
25	102	193	466	e177	563	419	460	412	516	484	445	388
26	131	185	333	e177	479	398	532	600	495	450	429	365
27	125	178	285	e177	524	381	518	443	477	426	416	369
28	146	169	265	e173	556	361	447	387	478	416	404	615
29	217	166	248	e177	---	367	429	384	492	702	460	400
30	257	164	235	195	---	488	499	417	465	645	595	358
31	227	---	227	192	---	430	---	394	---	969	862	---
TOTAL	3,943	9,460	9,085	6,785	13,806	15,278	18,495	13,757	25,661	20,409	28,833	14,322
MEAN	127	315	293	219	493	493	616	444	855	658	930	477
MAX	331	1,200	568	395	3,730	2,670	2,230	744	2,410	1,430	3,730	1,210
MIN	71	133	159	173	173	264	331	336	330	416	404	347
CFSM	0.55	1.37	1.27	0.95	2.13	2.13	2.67	1.92	3.70	2.85	4.03	2.07
IN.	0.63	1.52	1.46	1.09	2.22	2.46	2.98	2.22	4.13	3.29	4.64	2.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	230	244	277	331	362	431	430	355	322	256	251	226
MAX	587	537	584	743	691	992	1,048	591	855	658	930	879
(WY)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)
MIN	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2
(WY)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(2002)	(1986)	(2002)	(1998)

02113850 ARARAT RIVER AT ARARAT, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1964 - 2003	
ANNUAL TOTAL	61,921		179,834			
ANNUAL MEAN	170		493		309	
HIGHEST ANNUAL MEAN					493	2003
LOWEST ANNUAL MEAN					137	2002
HIGHEST DAILY MEAN	1,200	Nov 11	3,730	Feb 22	13,600	Sep 22, 1979
LOWEST DAILY MEAN	20	Sep 13	71	Oct 8	13	Aug 19, 1999
ANNUAL SEVEN-DAY MINIMUM	26	Sep 8	77	Oct 4	23	Aug 24, 1981
MAXIMUM PEAK FLOW			9,060	Aug 9	35,000	Sep 22, 1979
MAXIMUM PEAK STAGE			13.37	Aug 9	24.46	Sep 22, 1979
INSTANTANEOUS LOW FLOW			71*	Oct 7	12*	Aug 19, 1999
ANNUAL RUNOFF (CFSM)	0.73		2.13		1.34	
ANNUAL RUNOFF (INCHES)	9.97		28.96		18.20	
10 PERCENT EXCEEDS	303		906		509	
50 PERCENT EXCEEDS	142		398		235	
90 PERCENT EXCEEDS	51		162		117	

e Estimated.
 * See REMARKS.

