

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 mi<sup>2</sup>.

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.

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 ft<sup>3</sup>/s, from information by local resident.

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	350	297	404	362	301	283	305	476	204	197	198	159
2	339	294	381	361	297	288	268	397	173	205	422	154
3	324	291	370	359	798	289	261	316	161	270	374	158
4	322	290	399	358	550	279	253	277	315	688	242	150
5	320	305	626	379	434	275	241	265	314	473	204	145
6	313	749	517	391	1,230	320	236	254	214	292	204	143
7	304	572	453	349	1,090	290	240	244	192	242	180	160
8	303	396	426	340	536	288	240	231	256	219	170	3,640
9	314	343	407	348	452	281	238	271	361	203	169	1,390
10	365	325	706	347	419	284	227	269	222	210	168	681
11	315	318	1,040	335	397	276	231	231	198	305	196	404
12	308	313	557	336	389	274	376	222	185	281	311	311
13	298	309	493	333	375	269	1,090	218	198	306	309	275
14	308	281	602	330	360	268	833	219	211	218	212	273
15	404	294	598	330	353	270	481	214	204	192	197	267
16	311	316	535	319	362	379	391	213	682	178	184	244
17	301	307	620	319	339	342	e350	266	420	179	282	635
18	303	296	550	359	338	289	e320	254	302	294	310	805
19	296	1,510	497	339	331	280	e300	218	224	273	213	383
20	292	1,040	466	316	327	268	e290	262	203	213	193	299
21	293	572	444	312	327	272	e284	244	195	182	179	266
22	289	489	434	313	314	260	e280	218	254	181	182	250
23	278	452	425	309	308	255	271	213	212	191	181	234
24	280	437	429	308	311	255	284	225	315	174	209	218
25	277	465	410	e286	301	250	263	203	284	164	174	209
26	286	417	394	e286	296	248	349	194	1,030	196	170	202
27	637	402	386	e284	300	247	387	209	336	604	165	206
28	414	477	381	e282	293	247	283	191	257	421	160	3,800
29	346	517	377	303	289	240	265	189	238	239	190	925
30	315	430	388	319	---	255	260	178	227	239	174	531
31	301	---	367	316	---	336	---	228	---	217	168	---
TOTAL	10,106	13,504	15,082	10,228	12,417	8,657	10,097	7,609	8,587	8,246	6,690	17,517
MEAN	326	450	487	330	428	279	337	245	286	266	216	584
MAX	637	1,510	1,040	391	1,230	379	1,090	476	1,030	688	422	3,800
MIN	277	281	367	282	289	240	227	178	161	164	160	143
CFSM	1.41	1.95	2.11	1.43	1.85	1.21	1.46	1.06	1.24	1.15	0.93	2.53
IN.	1.63	2.17	2.43	1.65	2.00	1.39	1.63	1.23	1.38	1.33	1.08	2.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004												
MEAN	232	249	283	331	364	427	428	353	321	256	250	235	235	232	249	283	331	364	427	428	353	321	256	250	235	235	232	249	283	331	364	427	428	353	321	256	250	235	235	232	249	283	331	364	427	428	353	321	256	250	235	235	
MAX	587	537	584	743	691	992	1,048	591	855	658	930	879	879	587	537	584	743	691	992	1,048	591	855	658	930	879	879	587	537	584	743	691	992	1,048	591	855	658	930	879	879	587	537	584	743	691	992	1,048	591	855	658	930	879	879	
(WY)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)	(1979)	
MIN	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2	88.2	
(WY)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(2002)	(1986)	(2002)	(1998)	(1998)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(2002)	(1986)	(2002)	(1998)	(1998)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(2002)	(1986)	(2002)	(2002)	(1998)	(1998)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(2002)	(1986)	(2002)	(1998)	(1998)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	196,038		128,740		311	
ANNUAL MEAN	537		352		493	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	3,730	Feb 22	3,800	Sep 28	13,600	Sep 22, 1979
LOWEST DAILY MEAN	173	Jan 28	143	Sep 6	13	Aug 19, 1999
ANNUAL SEVEN-DAY MINIMUM	179	Jan 22	153	Sep 1	23	Aug 24, 1981
MAXIMUM PEAK FLOW			7,110	Sep 28	35,000	Sep 22, 1979
MAXIMUM PEAK STAGE			11.41	Sep 28	24.46	Sep 22, 1979
INSTANTANEOUS LOW FLOW			138	Sep 6	12*	Aug 19, 1999
ANNUAL RUNOFF (CFSM)	2.33		1.52		1.34	
ANNUAL RUNOFF (INCHES)	31.57		20.73		18.27	
10 PERCENT EXCEEDS	953		503		509	
50 PERCENT EXCEEDS	427		296		238	
90 PERCENT EXCEEDS	238		192		118	

\* See REMARKS.

e Estimated.

