

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.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	238	428	295	369	491	428	339	207	214	371	e171
2	397	235	355	286	352	402	875	308	313	208	269	e167
3	371	236	320	283	468	372	555	299	310	192	242	e161
4	352	284	303	282	463	360	452	290	259	315	232	e156
5	325	290	292	280	400	364	414	283	241	328	215	e150
6	315	256	287	279	367	354	390	284	218	264	215	e144
7	318	248	300	274	362	342	386	278	235	930	224	e140
8	309	243	286	275	365	394	403	271	492	1,180	220	e136
9	310	229	476	270	358	355	381	260	469	401	253	e133
10	301	224	908	265	351	336	355	255	465	293	236	e129
11	287	224	539	265	335	330	348	271	391	261	211	e127
12	283	570	428	266	328	325	342	260	282	283	195	e123
13	902	446	381	265	331	317	451	265	282	417	186	e119
14	518	303	341	e4,570	368	332	481	264	334	399	185	116
15	312	272	320	e961	357	315	382	284	254	414	201	118
16	269	260	309	557	342	327	351	280	228	442	205	133
17	249	253	307	473	327	398	338	246	212	402	332	159
18	242	249	304	427	315	366	331	240	204	336	220	134
19	252	244	e280	406	310	338	321	263	213	726	207	123
20	251	244	e275	401	313	326	314	376	213	594	211	139
21	244	238	e265	399	336	317	313	328	205	405	e180	183
22	241	234	e265	382	322	313	387	254	201	353	e174	128
23	246	272	1,100	371	311	596	543	241	190	326	e167	127
24	260	802	788	e358	343	480	365	235	178	284	e163	121
25	250	1,050	443	357	329	398	333	231	176	263	e160	120
26	236	456	385	355	310	376	320	226	173	244	e160	130
27	245	377	346	345	309	372	334	218	175	227	e159	139
28	254	377	325	327	466	2,370	311	219	271	222	e157	130
29	251	321	316	324	---	931	359	219	375	254	e155	136
30	252	306	313	410	---	544	359	216	308	262	e167	130
31	244	---	304	413	---	462	---	208	---	613	e210	---
TOTAL	9,719	9,981	12,289	15,421	9,907	14,303	11,922	8,211	8,074	12,052	6,482	4,122
MEAN	314	333	396	497	354	461	397	265	269	389	209	137
MAX	902	1,050	1,100	4,570	468	2,370	875	376	492	1,180	371	183
MIN	236	224	265	265	309	313	311	208	173	192	155	116
CFSM	1.36	1.44	1.72	2.15	1.53	2.00	1.72	1.15	1.17	1.68	0.91	0.59
IN.	1.57	1.61	1.98	2.48	1.60	2.30	1.92	1.32	1.30	1.94	1.04	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	234	251	285	335	363	428	427	351	320	260	249	232
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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	122,037		122,483		311	
ANNUAL MEAN	333		336		493	
HIGHEST ANNUAL MEAN					137	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	3,800	Sep 28	4,570	Jan 14	13,600	Sep 22, 1979
LOWEST DAILY MEAN	143	Sep 6	116	Sep 14	13	Aug 19, 1999
ANNUAL SEVEN-DAY MINIMUM	153	Sep 1	124	Sep 9	23	Aug 24, 1981
MAXIMUM PEAK FLOW			10,200	Jan 14	35,000	Sep 22, 1979
MAXIMUM PEAK STAGE			14.29	Jan 14	24.46	Sep 22, 1979
INSTANTANEOUS LOW FLOW			110	Sep 16	12*	Aug 19, 1999
ANNUAL RUNOFF (CFSM)	1.44		1.45		1.35	
ANNUAL RUNOFF (INCHES)	19.65		19.72		18.30	
10 PERCENT EXCEEDS	437		458		506	
50 PERCENT EXCEEDS	280		303		240	
90 PERCENT EXCEEDS	192		169		120	

* See REMARKS.

e Estimated.

