



Water-Data Report 2010

02113850 ARARAT RIVER AT ARARAT, NC

Upper Pee Dee Basin
Upper Yadkin Subbasin

LOCATION.--Lat 36°24'16", long 80°33'42" referenced to North American Datum of 1983, Surry County, NC, 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.

SURFACE-WATER RECORDS

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

PRECIPITATION: October 2002 to current year, station number 362416080334345.

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

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred August 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.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	152	586	220	388	449	369	492	322	288	172	283	138
2	155	346	487	359	533	374	468	322	288	165	181	134
3	153	250	932	334	738	394	455	430	273	157	172	127
4	147	217	423	367	604	381	445	383	262	155	159	120
5	147	200	385	373	944	367	430	319	345	149	165	118
6	151	187	350	319	2,000	355	423	307	266	143	180	117
7	160	183	310	298	826	355	409	293	253	138	143	116
8	147	177	299	302	656	355	463	289	235	136	130	119
9	141	175	1,890	323	568	353	695	272	239	163	125	128
10	146	197	655	327	544	353	465	274	249	244	163	115
11	141	1,120	440	323	495	367	433	281	234	164	139	113
12	141	1,630	382	286	478	408	417	299	267	201	153	123
13	152	614	520	267	466	1,680	407	293	352	311	121	112
14	158	413	503	267	446	807	392	281	280	229	116	107
15	200	340	410	268	447	571	391	478	293	181	186	102
16	179	297	365	264	435	503	382	519	292	164	152	99
17	161	273	335	956	415	474	374	1,170	272	421	190	98
18	151	265	333	557	406	454	360	571	229	340	348	93
19	147	325	409	416	399	437	356	440	220	248	522	93
20	146	290	363	380	399	420	355	386	233	171	571	93
21	151	262	352	407	400	416	417	345	210	162	268	85
22	146	250	347	493	420	844	372	356	263	144	221	86
23	151	271	346	414	433	570	350	383	217	139	194	101
24	164	262	340	969	430	486	351	329	201	128	172	97
25	190	248	2,260	6,290	412	461	430	342	193	120	188	89
26	160	237	1,390	1,220	390	551	378	321	195	113	173	163
27	169	228	660	687	385	477	354	295	183	197	188	443
28	391	218	519	564	377	567	349	415	194	196	174	435
29	235	213	453	506	---	1,180	332	599	213	146	159	218
30	196	217	413	529	---	618	323	305	187	131	152	263
31	195	---	403	482	---	527	---	282	---	171	145	---
Total	5,223	10,491	17,494	19,935	15,495	16,474	12,268	11,901	7,426	5,699	6,233	4,245
Mean	168	350	564	643	553	531	409	384	248	184	201	142
Max	391	1,630	2,260	6,290	2,000	1,680	695	1,170	352	421	571	443
Min	141	175	220	264	377	353	323	272	183	113	116	85
Cfsm	0.73	1.51	2.44	2.78	2.40	2.30	1.77	1.66	1.07	0.80	0.87	0.61
In.	0.84	1.69	2.82	3.21	2.50	2.65	1.98	1.92	1.20	0.92	1.00	0.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	232	251	290	343	356	418	413	343	317	253	239	227
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

	Calendar Year 2009		Water Year 2010		Water Years 1964 - 2010	
Annual total	108,396		132,884			
Annual mean	297		364		306	
Highest annual mean					493	2003
Lowest annual mean					137	2002
Highest daily mean	3,050	Jan 7	6,290	Jan 25	13,600	Sep 22, 1979
Lowest daily mean	116	Sep 15	85	Sep 21	13	Aug 19, 1999
Annual seven-day minimum	126	Sep 2	92	Sep 19	23	Aug 24, 1981
Maximum peak flow			11,500	Jan 25	35,000	Sep 22, 1979
Maximum peak stage			14.47	Jan 25	24.46	Sep 22, 1979
Instantaneous low flow			81	Sep 21	^a 12	Aug 19, 1999
Annual runoff (cfsm)	1.29		1.58		1.33	
Annual runoff (inches)	17.46		21.40		18.02	
10 percent exceeds	483		560		500	
50 percent exceeds	211		302		235	
90 percent exceeds	141		139		118	

^a See Remarks.

