

## PEE DEE RIVER BASIN

02113850 ARARAT RIVER AT ARARAT, NC

LOCATION.--Lat 36°24'16", long 80°33'43", 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>.

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

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

REMARKS.--Records good 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	86	113	e94	143	157	330	106	143	114	185	154
2	95	86	114	e93	134	151	287	136	160	113	169	140
3	90	88	111	e92	124	144	262	105	137	104	151	118
4	88	89	107	e92	118	177	243	94	122	128	171	139
5	86	91	103	e91	114	171	221	99	119	164	155	125
6	85	89	103	e90	114	157	210	107	182	102	130	110
7	77	89	103	e90	117	152	203	91	186	85	114	96
8	68	92	103	e90	113	145	192	87	142	289	105	91
9	71	134	100	e89	110	141	181	88	132	270	98	89
10	79	266	104	e89	113	141	176	86	113	165	89	92
11	87	150	110	e88	111	140	176	82	101	129	122	190
12	83	136	107	e88	111	134	177	78	95	108	229	114
13	74	124	103	e88	119	167	182	75	93	95	558	92
14	74	111	109	e87	121	156	178	69	97	85	223	86
15	76	103	119	e87	131	177	167	65	97	76	156	86
16	76	101	132	e86	138	210	162	184	100	64	129	75
17	75	100	407	e86	216	177	148	283	83	60	113	74
18	77	96	232	121	171	159	145	185	71	74	115	73
19	78	90	e160	322	156	155	140	152	61	71	202	71
20	77	95	e120	542	147	153	139	224	60	70	1790	89
21	81	93	e110	282	139	259	140	267	58	73	292	91
22	85	92	e100	195	136	225	135	1230	204	70	183	78
23	84	90	e100	169	140	183	132	497	490	59	151	73
24	84	92	e99	161	140	167	128	267	190	51	140	475
25	86	104	e98	158	200	158	127	288	155	82	123	274
26	86	178	e98	158	225	156	120	279	240	151	113	137
27	91	149	e97	156	175	151	116	210	292	186	108	110
28	95	136	e96	144	159	147	112	180	180	239	248	100
29	95	117	e96	129	---	415	105	166	145	414	131	93
30	91	110	e95	144	---	1170	102	154	123	519	112	86
31	86	---	e94	156	---	403	---	139	---	248	157	---
TOTAL	2576	3377	3743	4357	3935	6598	5136	6073	4371	4458	6762	3621
MEAN	83.1	113	121	141	141	213	171	196	146	144	218	121
MAX	96	266	407	542	225	1170	330	1230	490	519	1790	475
MIN	68	86	94	86	110	134	102	65	58	51	89	71
CFSM	.36	.49	.52	.61	.61	.92	.74	.85	.62	.62	.94	.52
IN.	.41	.54	.60	.70	.63	1.06	.83	.98	.70	.72	1.09	.58

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, 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	
MEAN	236	246	280	338	363	434	431	359	315	249	238	223																											
MAX	587	537	584	743	691	992	1048	591	736	554	536	879																											
(WY)	1977	1993	1974	1978	1990	1993	1980	1973	1982	1989	1985	1979																											
MIN	83.1	111	121	120	141	172	170	167	110	81.9	45.4	88.2																											
(WY)	2001	1982	2001	1981	2001	1981	1967	1988	1988	1986	1981	1998																											

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1964 - 2001
ANNUAL TOTAL	62885	55007	
ANNUAL MEAN	172	151	309
HIGHEST ANNUAL MEAN			462
LOWEST ANNUAL MEAN			150
HIGHEST DAILY MEAN	913	Apr 18	13600
LOWEST DAILY MEAN	65	Jul 22	13
ANNUAL SEVEN-DAY MINIMUM	75	Jul 17	23
MAXIMUM PEAK FLOW		6390	35000
MAXIMUM PEAK STAGE		10.60	24.46
INSTANTANEOUS LOW FLOW		50	12*
ANNUAL RUNOFF (CFSM)	.74	.65	1.34
ANNUAL RUNOFF (INCHES)	10.13	8.86	18.19
10 PERCENT EXCEEDS	288	230	503
50 PERCENT EXCEEDS	148	118	236
90 PERCENT EXCEEDS	85	80	122

e Estimated.

\* See REMARKS.

02113850 ARARAT RIVER AT ARARAT, NC--Continued

