

07030240 LOOSAHATCHIE RIVER NEAR ARLINGTON, TN

Hatchie-Obion Basin
Loosahatchie Subbasin

LOCATION.--Lat 35°18'39.11", long 89°38'22.13" referenced to North American Datum of 1927, Shelby County, TN, Hydrologic Unit 08010209, on left bank 20 ft downstream from bridge on U.S. Highways 70 and 79, 1.5 mi upstream from Beaver Creek, 1.5 mi northeast of Arlington, and at mile 30.4.

DRAINAGE AREA.--262 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Data collection platform. Datum of the gage is 246.43 ft above NGVD of 1929, from reference mark provided by FEMA.

REMARKS.--Records poor.

CORRECTIONS.--In the summary statistics section of the original report for 2011, the Water Year 2011 lowest daily mean (86 ft³/s on Sep. 2) was incorrectly flagged as also occurring on Aug. 29. The instantaneous low flow for Water Years 1970-2011 was incorrectly listed as 66 ft³/s on Apr. 6, 1974. The instantaneous low flow for that period should have been reported as 67 ft³/s on Nov. 5, 1982 which is the minimum observed value.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 5	1600	7,040	16.36
Mar 9	0945	7,240	16.71
Apr 26	0800	7,220	16.67
Apr 28	0515	*22,700	*23.87
May 3	0600	13,800	21.19

Minimum recorded discharge, 83 ft³/s, Sept. 2, gage height, 0.16 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	98	102	e202	e1,090	e488	583	173	4,960	120	126	96	88
2	97	107	e131	e175	e614	244	127	9,610	e116	124	95	86
3	97	123	e120	e121	e199	188	105	13,000	e115	122	95	88
4	98	111	e112	e110	e153	172	473	4,630	e109	124	95	91
5	98	106	e104	e112	e145	3,520	1,120	877	e104	193	97	94
6	99	104	e103	e112	e130	1,550	290	537	e102	139	98	91
7	99	103	e105	e109	e131	449	180	438	e100	232	96	91
8	99	104	e103	e104	e166	309	147	395	e97	172	111	91
9	96	105	e102	e100	e137	4,930	127	340	e96	136	138	92
10	95	104	e103	e108	e127	1,120	115	305	e93	120	104	93
11	96	102	e194	e106	e121	433	177	277	e94	114	94	92
12	97	100	e335	e103	e117	295	502	257	e207	111	94	90
13	97	104	e148	e101	e114	234	163	482	e112	110	96	90
14	96	105	e124	e101	e111	267	115	1,280	e96	116	93	90
15	96	104	e121	e100	e108	349	1,280	363	e92	152	91	91
16	97	121	e120	e101	e105	221	666	276	e328	113	90	90
17	97	128	e112	e103	e105	182	221	237	3,420	107	90	94
18	97	109	e109	e112	e104	161	158	213	1,670	105	94	92
19	98	105	e108	e110	e101	145	134	195	950	103	93	850
20	99	104	e108	e104	e103	134	1,940	185	263	99	95	264
21	97	102	e106	e104	e101	125	2,750	171	479	100	95	130
22	97	103	e102	e102	e101	120	605	170	818	99	93	113
23	96	423	e102	e99	e102	117	305	682	586	102	92	106
24	103	169	e103	e97	e183	110	202	600	217	116	92	104
25	120	245	e103	e104	e1,900	103	1,450	1,110	168	118	94	102
26	113	937	e103	e174	385	379	6,040	1,100	152	96	91	129
27	111	217	e101	e174	233	426	15,300	268	143	93	91	103
28	101	143	e101	e126	715	445	18,600	185	139	94	90	98
29	100	153	e105	e108	---	288	3,420	155	137	96	89	98
30	102	e1,450	e103	e98	---	607	845	136	131	100	90	93
31	103	---	e104	e95	---	285	---	124	---	102	88	---
Total	3,089	6,093	3,797	4,463	7,099	18,491	57,730	43,558	11,254	3,734	2,960	3,824
Mean	99.6	203	122	144	254	596	1,924	1,405	375	120	95.5	127
Max	120	1,450	335	1,090	1,900	4,930	18,600	13,000	3,420	232	138	850
Min	95	100	101	95	101	103	105	124	92	93	88	86
Med	98	106	105	104	128	285	297	340	134	113	94	92
Cfsm	0.38	0.78	0.47	0.55	0.97	2.28	7.34	5.36	1.43	0.46	0.36	0.49
In.	0.44	0.87	0.54	0.63	1.01	2.63	8.20	6.18	1.60	0.53	0.42	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	186	330	595	498	618	640	607	460	270	210	165	168
Max	1,133	1,517	1,962	1,479	2,064	2,038	2,306	1,983	1,609	1,155	521	885
(WY)	(2003)	(2002)	(1988)	(1974)	(1990)	(1997)	(1991)	(2010)	(1974)	(1989)	(1974)	(2002)
Min	73.4	75.6	106	94.5	128	117	107	93.2	86.7	87.5	80.5	73.3
(WY)	(1970)	(1972)	(1977)	(1981)	(1995)	(2007)	(1978)	(2007)	(1972)	(1970)	(1999)	(1999)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1970 - 2011	
Annual total	159,109		166,092			
Annual mean	436		455		395	
Highest annual mean					769	1989
Lowest annual mean					154	1986
Highest daily mean	26,000	May 2	18,600	Apr 28	26,000	May 2, 2010
Lowest daily mean	87	Aug 27	86	Sep 2	66	Apr 7, 1974
Annual seven-day minimum	89	Aug 23	88	Aug 28	68	Nov 5, 1982
Maximum peak flow			22,700	Apr 28	29,600	May 2, 2010
Maximum peak stage			23.87	Apr 28	25.44	May 2, 2010
Instantaneous low flow					^a 67	Nov. 5, 1982
Annual runoff (cfsm)	1.66		1.74		1.51	
Annual runoff (inches)	22.59		23.58		20.46	
10 percent exceeds	608		606		609	
50 percent exceeds	124		111		123	
90 percent exceeds	94		94		87	

^a Minimum observed value.

