07027720 SOUTH FORK FORKED DEER RIVER NEAR OWL CITY, TN

Hatchie-Obion Basin
South Fork Forked Deer Subbasin

LOCATION.--Lat 35°43'07.29", long 89°12'43.95" referenced to North American Datum of 1927, Haywood County, TN, Hydrologic Unit 08010205, on left bank downstream side of the State Highway 54 bridge, 9.2 mi north of Brownsville, and 1.2 miles southwest of Owl City, Tennessee.

DRAINAGE AREA.--718 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 2001 to current year.

GAGE.--Data collection platform. Datum of gage is 297 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair.

CORRECTIONS.--In the summary statistics section of the original 2011 report , the highest daily mean (18,900 ft^3/s on May 3) was incorrectly footnoted as being an estimate. Also, the instantaneous low flow (184 ft^3/s on Sep 2) should have been footnoted as also occuring on Sep. 3.

REVISIONS.--2010 - On Jun 21, 2013, the discharge data from May 1 thru May 7, 2010 was revised based on a new rating curve developed using measurement number 87 made in 2011. The highest daily mean for the period of record was revised to 34,600 ft^3/s (estimated) and supersedes the value of 40,000 ft^3/s published in the summary statistics section of the report for 2011 http://wdr.water.usgs.gov/wy2011/pdfs/07027720.2011.pdf and in the extremes for period of record and extremes for current year sections of the report for 2010 http://wdr.water.usgs.gov/wy2011/pdfs/07027720.2011.pdf.

EXTREMES FOR PERIOD OF RECORD.--38,000 ft^3/s, May 2, 2010; gage height 24.10 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	1415	5,080	18.44
Mar 9	0700	5,390	18.63
May 3	0645	*20,500	*22.07
May 9	0015	5,830	18.88
Sep 19	1215	5,160	18.49

Minimum discharge, 184 ft^3/s, Sept. 2, 3, gage height, 7.82 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 07027720, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/07027720.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	213	245	2,110	980	684	2,480	690	15,700	352	409	327	193
2	210	245	967	784	2,110	2,430	543	17,900	335	323	284	191
3	208	252	674	586	1,970	1,490	433	18,900	320	283	255	188
4	207	289	576	499	970	858	539	13,400	310	261	245	194
5	207	292	527	473	723	2,840	2,110	9,950	300	649	245	208
6	212	266	485	474	666	3,780	2,670	8,180	288	470	275	228
7	216	259	461	480	612	3,530	2,500	7,130	278	431	293	225
8	216	257	451	446	981	2,930	1,200	6,250	268	2,780	283	213
9	213	259	438	416	834	4,400	631	5,110	260	2,290	262	210
10	213	261	434	405	649	4,280	496	2,680	254	953	365	203
11	211	259	651	427	583	4,070	535	1,220	254	557	449	202
12	211	256	1,870	434	556	4,080	1,470	831	337	435	297	213
13	214	259	1,560	410	566	3,900	1,070	1,030	313	379	264	223
14	211	273	766	397	534	2,340	589	2,110	274	347	250	214
15	208	285	598	405	487	1,500	1,020	1,840	258	442	241	209
16	206	307	579	430	465	1,030	2,300	1,030	251	884	232	271
17	212	471	591	452	455	764	1,840	798	2,110	572	226	239
18	210	405	544	499	443	649	807	672	2,150	375	225	221
19	213	326	510	542	437	574	520	582	717	331	223	2,640
20	214	299	482	496	432	528	1,010	524	423	308	223	865
21	216	291	458	462	460	495	1,970	488	466	292	222	516
22	213	290	447	450	524	454	2,120	471	460	293	218	348
23	211	1,700	432	445	485	423	2,160	1,720	510	288	217	291
24	221	1,810	418	435	540	424	2,280	1,190	476	282	224	275
25	254	761	416	440	2,700	379	2,150	828	338	555	221	265
26	323	2,080	424	759	2,790	373	4,360	795	421	378	210	342
27	307	1,510	420	993	2,500	798	7,640	730	734	303	205	287
28	289	759	415	726	2,110	781	8,490	541	730	279	201	267
29	253	616	417	587	---	700	8,010	469	1,080	264	199	249
30	242	2,420	429	523	---	700	9,820	413	657	257	196	240
31	244	---	430	493	---	1,120	---	375	---	279	195	---
Total	6,998	18,002	19,980	16,348	27,266	55,100	71,973	123,857	15,924	16,949	7,772	10,430
Mean	226	600	645	527	974	1,777	2,399	3,995	531	547	251	348
Max	323	2,420	2,110	993	2,790	4,400	9,820	18,900	2,150	2,780	449	2,640
Min	206	245	415	397	432	373	433	375	251	257	195	188
Cfsm	0.31	0.84	0.90	0.73	1.36	2.48	3.34	5.56	0.74	0.76	0.35	0.48
In.	0.36	0.93	1.04	0.85	1.41	2.85	3.73	6.42	0.83	0.88	0.40	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	822	796	2,027	1,364	1,517	1,604	1,574	1,950	744	412	385	472
Max	2,824	1,617	6,834	2,015	3,660	3,508	3,076	7,099	1,314	585	571	1,298
(WY)	(2003)	(2005)	(2002)	(2005)	(2003)	(2002)	(2008)	(2010)	(2001)	(2010)	(2003)	(2002)
Min	226	286	469	527	527	489	586	316	226	216	162	219
(WY)	(2011)	(2009)	(2006)	(2011)	(2009)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2008)

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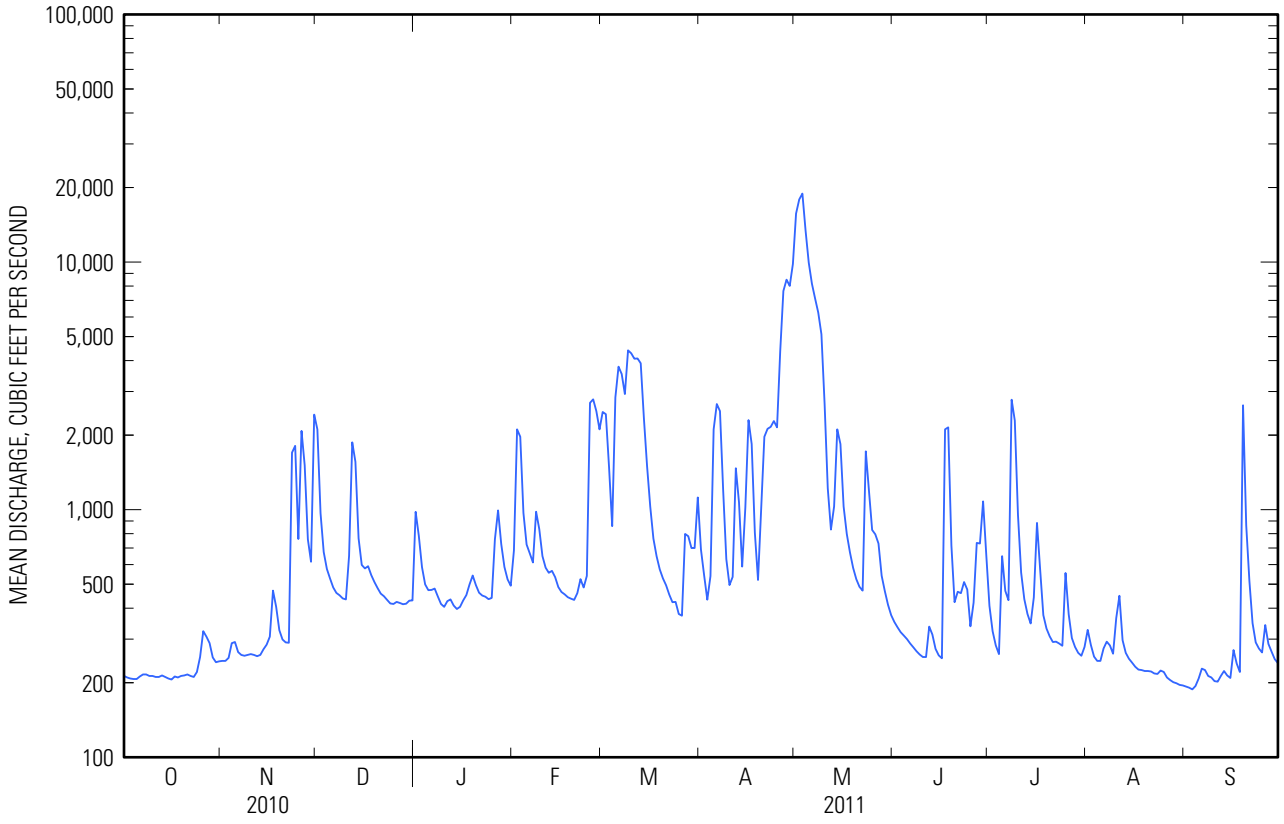
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2001 - 2011	
Annual total	507,138		390,599			
Annual mean	1,389		1,070		1,162	
Highest annual mean					1,678	2002
Lowest annual mean					506	2007
Highest daily mean	40,000	May 3	18,900	May 3	[a]34,600	May 2, 2010
Lowest daily mean	206	Oct 16	188	Sep 3	120	Jul 16, 2001
Annual seven-day minimum	210	Sep 30	194	Aug 29	131	Jul 14, 2001
Maximum peak flow			20,500	May 3	38,000	May 2, 2010
Maximum peak stage			22.07	May 3	24.10	May 2, 2010
Instantaneous low flow			[b] 184	Sep 2	120	Jul 16, 2001
Annual runoff (cfsm)	1.94		1.49		1.62	
Annual runoff (inches)	26.28		20.24		21.98	
10 percent exceeds	2,640		2,290		2,980	
50 percent exceeds	514		446		526	
90 percent exceeds	216		214		240	

[a] Estimated daily value.
[b] Also occurred Sep 3.