03410210 SOUTH FORK CUMBERLAND RIVER AT LEATHERWOOD FORD, TN

Upper Cumberland Basin
South Fork Cumberland Subbasin

LOCATION.--Lat 36°28'38.30", long 84°40'09.94" referenced to North American Datum of 1927, Scott County, TN, Hydrologic Unit 05130104, on left bank at bridge on State Route 297, 1.0 mi above Anderson Branch, 1.3 miles below North White Oak Creek, 10.1 mi southwest of Oneida, and at mile 70.1.

DRAINAGE AREA.--806 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1983 to September 1987. October 1998 to September 1999, May 2001 to current year. Occasional discharge measurements, water years 1961-62, 1979-80, 1991-94.

GAGE.--Data collection platform. Datum of gage is 862.79 ft Sandy Hook datum.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 28	2330	*59,200	*32.05
Dec 23	0500	23,000	20.15
Jan 27	0930	20,700	19.14

Minimum discharge, 35 ft^3/s, July 3, gage height, 4.07 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 03410210, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03410210.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	403	844	4,460	2,140	1,850	5,140	1,180	284	152	40	139	47
2	334	724	3,120	2,110	3,010	6,630	1,050	256	153	38	103	46
3	292	658	2,400	1,650	3,340	11,500	1,060	236	219	49	261	112
4	266	1,180	1,920	1,380	2,830	5,260	1,340	226	150	70	720	124
5	245	1,490	1,600	1,250	3,240	3,390	1,080	251	149	66	1,870	126
6	228	1,250	2,550	1,130	2,950	2,480	1,430	293	144	125	3,580	202
7	213	1,030	10,900	1,030	2,480	1,990	1,680	282	137	86	1,750	221
8	200	889	9,620	935	2,120	2,350	1,200	421	115	72	852	163
9	187	780	4,970	860	1,740	12,100	955	536	100	71	482	124
10	178	708	3,320	866	1,470	5,870	797	409	92	101	532	105
11	175	634	2,480	1,760	1,350	3,730	688	305	89	180	934	95
12	196	562	1,990	8,390	1,160	2,790	607	253	92	194	660	88
13	220	517	1,620	5,260	959	2,300	547	225	95	287	371	81
14	367	482	1,380	3,510	926	1,880	509	221	101	504	246	75
15	527	477	1,240	2,650	941	1,540	473	444	93	647	194	68
16	378	3,280	1,340	2,080	932	1,920	435	462	84	455	163	64
17	298	10,100	2,060	1,920	1,120	2,800	417	282	84	310	143	71
18	261	4,130	1,900	5,550	1,050	9,750	451	212	78	194	131	6,900
19	1,810	2,620	1,670	3,710	1,110	7,290	401	177	73	215	118	3,790
20	4,750	1,960	1,490	2,780	2,680	4,110	369	192	68	2,280	106	1,280
21	2,500	2,120	3,000	4,270	2,950	2,940	343	175	64	2,020	96	659
22	1,600	4,760	7,230	6,340	3,060	2,310	334	647	60	1,000	87	423
23	1,130	6,880	16,100	8,070	8,140	2,140	326	962	58	476	79	291
24	862	4,510	6,320	8,040	5,220	5,190	298	587	57	298	72	223
25	695	2,980	3,820	4,380	3,320	4,330	281	376	70	218	67	185
26	589	2,270	2,810	3,300	2,440	3,090	335	254	63	163	64	160
27	535	2,070	5,170	15,200	1,960	2,380	698	196	55	131	61	142
28	569	37,000	7,120	6,440	1,590	1,910	563	162	49	111	57	130
29	1,170	33,400	4,500	3,780	1,480	1,570	396	146	45	97	55	122
30	1,260	8,050	3,270	2,770	---	1,370	325	200	42	86	52	115
31	1,000	---	2,540	2,210	---	1,370	---	186	---	110	50	---
Total	23,438	138,355	123,910	115,761	67,418	123,420	20,568	9,858	2,831	10,694	14,095	16,232
Mean	756	4,612	3,997	3,734	2,325	3,981	686	318	94.4	345	455	541
Max	4,750	37,000	16,100	15,200	8,140	12,100	1,680	962	219	2,280	3,580	6,900
Min	175	477	1,240	860	926	1,370	281	146	42	38	50	46
Cfsm	0.94	5.72	4.96	4.63	2.88	4.94	0.85	0.39	0.12	0.43	0.56	0.67
In.	1.08	6.39	5.72	5.34	3.11	5.70	0.95	0.45	0.13	0.49	0.65	0.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	428	1,415	2,232	2,389	2,540	2,528	2,347	1,661	607	513	374	573
Max	1,970	4,612	5,282	4,553	6,368	5,102	5,519	5,631	1,976	1,758	1,302	3,197
(WY)	(2010)	(2012)	(2005)	(1999)	(2003)	(2011)	(2011)	(1984)	(2003)	(1999)	(1985)	(2004)
Min	27.5	49.4	196	602	824	1,054	539	318	94.4	124	61.4	25.9
(WY)	(2009)	(1999)	(2000)	(1986)	(2007)	(2003)	(1986)	(2012)	(2012)	(2000)	(1987)	(1999)

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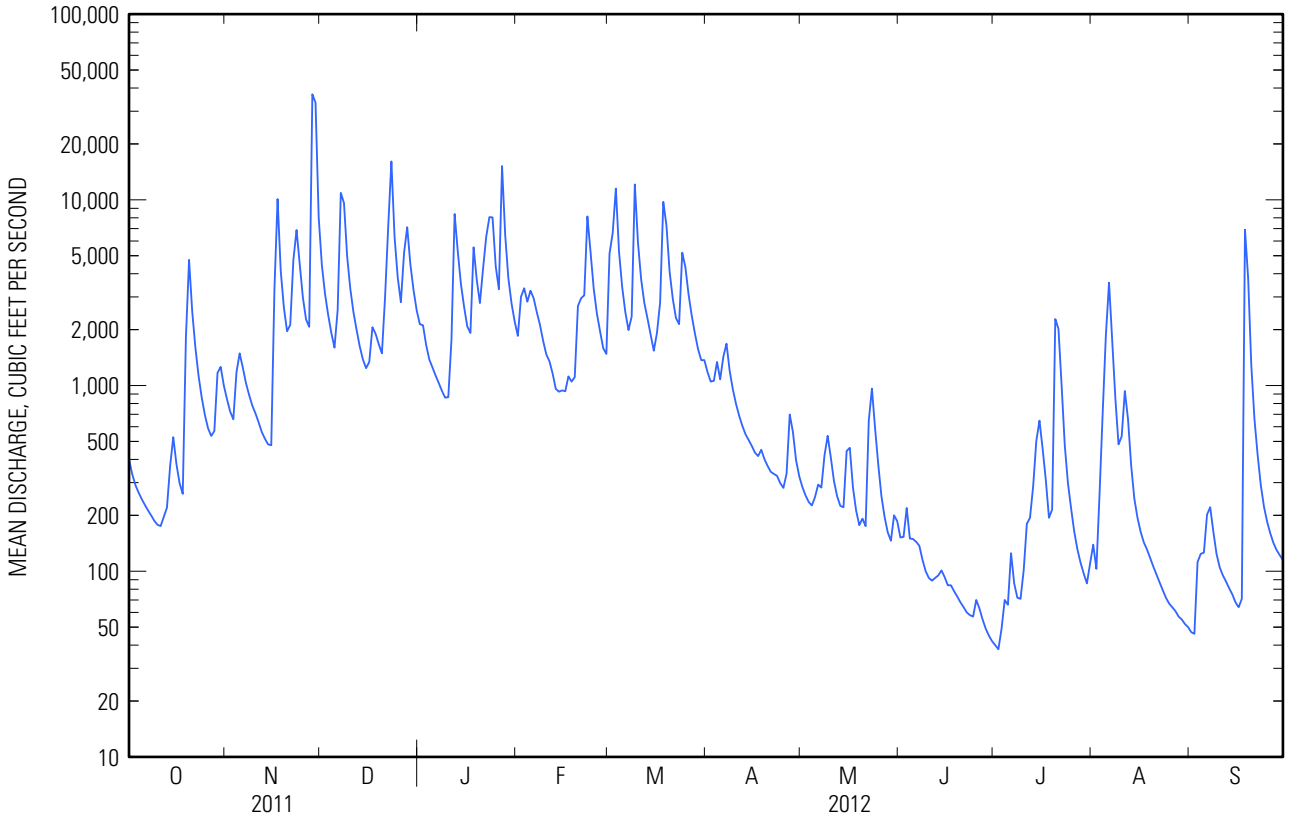
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1984 - 2012	
Annual total	916,703		666,580			
Annual mean	2,512		1,821		1,474	
Highest annual mean					2,169	2003
Lowest annual mean					894	2008
Highest daily mean	37,000	Nov 28	37,000	Nov 28	49,300	May 7, 1984
Lowest daily mean	37	Sep 4	38	Jul 2	8.0	Oct 9, 2007
Annual seven-day minimum	41	Aug 29	45	Jun 27	9.0	Oct 4, 2007
Maximum peak flow			59,200	Nov 28	65,900	Sep 17, 2004
Maximum peak stage			32.05	Nov 28	33.74	Sep 17, 2004
Instantaneous low flow			35	Jul 3	[a]7.7	Oct 9, 2007
Annual runoff (cfsm)	3.12		2.26		1.83	
Annual runoff (inches)	42.31		30.77		24.85	
10 percent exceeds	5,490		4,500		3,180	
50 percent exceeds	1,130		658		656	
90 percent exceeds	207		83		68	

[a] Also occurred Oct. 10, 2007.