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)
Jan 16	1330	31,000	22.96
Jan 31	0215	34,800	24.35
Mar 6	0430	21,500	19.19
Apr 28	2200	24,100	20.26
May 6	0730	29,500	22.36
Jul 7	1930	*38,200	*25.56

Minimum discharge, 64 ft^3/s, Sept. 20, 21.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 03410210, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/03410210.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	107	136	139	1,470	6,630	1,270	4,910	3,910	255	389	197	231
2	226	138	132	2,260	3,790	1,210	3,610	2,690	258	503	202	279
3	315	137	127	2,470	2,860	1,160	2,680	2,080	1,890	562	192	252
4	273	127	125	1,970	2,320	1,060	2,340	1,760	1,000	1,310	172	235
5	198	118	132	1,580	1,960	3,280	3,730	9,740	614	7,720	152	216
6	158	113	133	1,340	1,690	14,400	3,200	24,100	542	6,260	132	166
7	136	115	130	1,160	1,450	5,580	2,550	8,870	620	31,300	129	137
8	142	117	128	983	1,350	3,450	2,110	4,660	557	13,800	268	118
9	198	116	135	918	1,290	2,570	1,770	3,070	461	4,180	622	98
10	258	120	1,770	1,100	1,140	2,140	1,500	2,230	3,220	3,320	700	89
11	233	117	5,080	1,080	1,240	2,220	1,330	1,850	2,930	2,780	761	87
12	188	121	2,480	1,160	1,330	5,990	8,160	1,640	1,400	2,160	664	127
13	162	207	1,550	1,320	1,320	4,090	6,090	1,250	893	1,440	599	101
14	143	396	1,130	10,600	1,630	2,810	3,510	1,020	753	1,160	429	191
15	137	355	890	9,440	1,560	2,210	2,550	868	542	925	341	203
16	778	286	791	25,100	1,460	1,880	2,010	731	394	736	263	140
17	411	245	1,200	11,500	1,320	1,590	2,330	620	354	555	219	110
18	301	217	1,410	5,980	1,170	2,200	4,030	605	455	444	205	89
19	270	196	1,380	3,840	1,130	10,100	5,760	1,260	701	415	352	76
20	255	181	1,420	2,820	1,180	4,860	7,440	1,530	639	421	399	68
21	226	173	4,820	2,200	1,030	3,130	4,040	1,150	568	392	600	137
22	198	165	2,800	1,760	1,280	2,330	2,760	2,130	487	773	643	289
23	170	156	1,860	1,430	1,770	1,900	2,150	1,960	376	1,410	492	438
24	152	147	1,830	1,250	1,620	2,060	1,820	1,460	289	1,050	344	266
25	141	138	3,170	1,160	1,440	5,420	1,800	1,000	330	700	285	197
26	134	133	4,600	1,480	1,340	4,460	1,440	760	294	481	241	165
27	126	140	5,450	1,360	1,460	3,300	1,310	629	428	363	194	168
28	125	152	3,040	1,260	1,370	2,730	12,300	511	482	302	167	161
29	129	152	2,290	1,220	---	2,380	13,600	415	441	274	150	133
30	129	151	1,920	8,670	---	2,240	6,350	346	401	233	146	113
31	131	---	1,530	21,000	---	3,140	---	293	---	205	142	---
Total	6,550	5,065	53,592	130,881	49,130	107,160	119,180	85,138	22,574	86,563	10,402	5,080
Mean	211	169	1,729	4,222	1,755	3,457	3,973	2,746	752	2,792	336	169
Max	778	396	5,450	25,100	6,630	14,400	13,600	24,100	3,220	31,300	761	438
Min	107	113	125	918	1,030	1,060	1,310	293	255	205	129	68
Cfsm	0.26	0.21	2.14	5.24	2.18	4.29	4.93	3.41	0.93	3.46	0.42	0.21
In.	0.30	0.23	2.47	6.04	2.27	4.95	5.50	3.93	1.04	4.00	0.48	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	416	1,346	2,204	2,490	2,497	2,580	2,437	1,718	615	633	372	553
Max	1,970	4,612	5,282	4,553	6,368	5,102	5,519	5,631	1,976	2,792	1,302	3,197
(WY)	(2010)	(2012)	(2005)	(1999)	(2003)	(2011)	(2011)	(1984)	(2003)	(2013)	(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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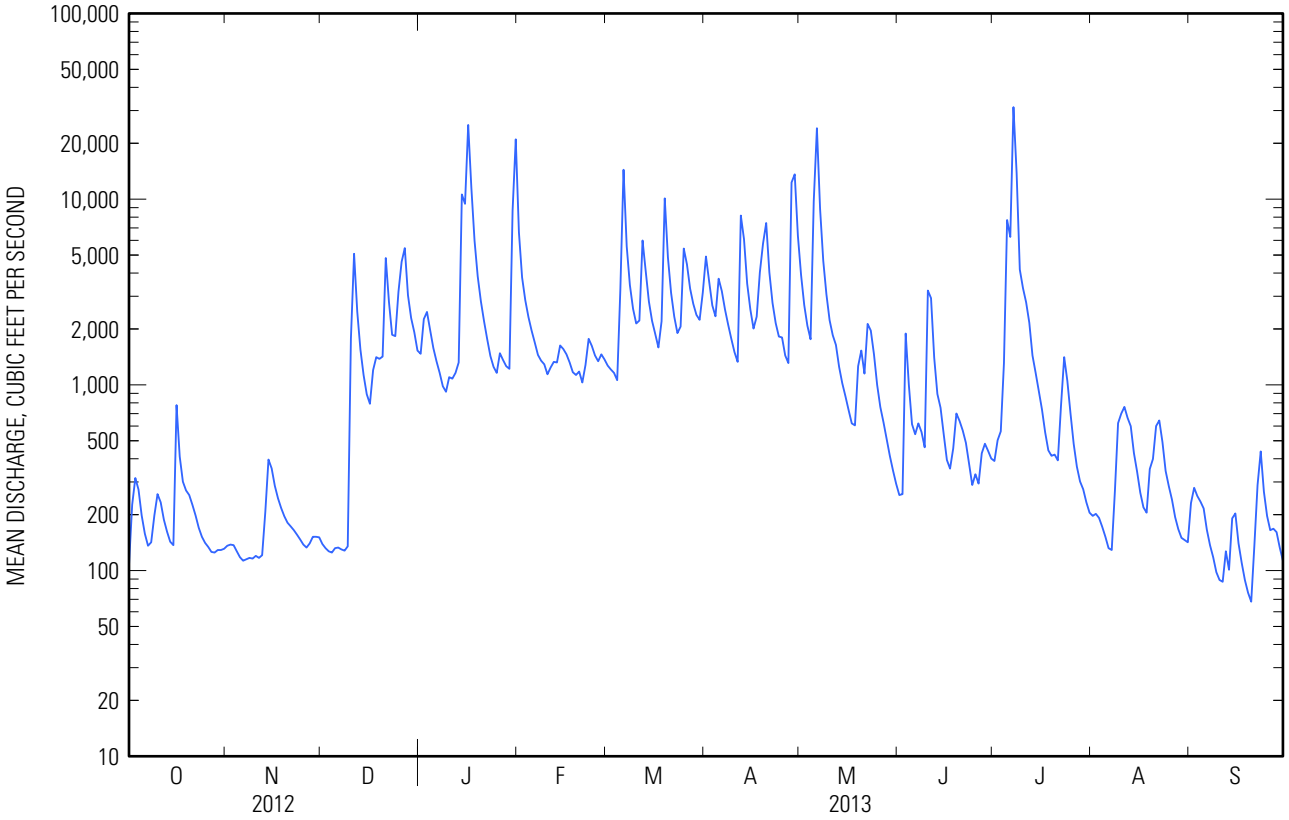
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1984 - 2013	
Annual total	446,084		681,315			
Annual mean	1,219		1,867		1,496	
Highest annual mean					2,169	2003
Lowest annual mean					894	2008
Highest daily mean	15,200	Jan 27	31,300	Jul 7	49,300	May 7, 1984
Lowest daily mean	38	Jul 2	68	Sep 20	8.0	Oct 9, 2007
Annual seven-day minimum	45	Jun 27	108	Sep 7	9.0	Oct 4, 2007
Maximum peak flow			38,200	Jul 7	65,900	Sep 17, 2004
Maximum peak stage			25.56	Jul 7	33.74	Sep 17, 2004
Instantaneous low flow			[a] 64	Sep 20	[b] 7.7	Oct 9, 2007
Annual runoff (cfsm)	1.51		2.32		1.86	
Annual runoff (inches)	20.59		31.45		25.22	
10 percent exceeds	3,330		4,130		3,230	
50 percent exceeds	292		868		659	
90 percent exceeds	83		133		71	

[a] Also occurred Sep. 21
[b] Also occurred Oct. 10, 2007.