03414500 EAST FORK OBEY RIVER NEAR JAMESTOWN, TN

Upper Cumberland Basin
Obey Subbasin

LOCATION.--Lat 36°24′58″, long 85°01′35″ referenced to North American Datum of 1927, Fentress County, TN, Hydrologic Unit 05130105, on right bank at bridge 200 ft upstream from bridge on State Highway 52, 0.5 mi upstream from Poplar Cove Creek, 7.3 mi west of Jamestown, and 12.7 miles upstream from confluence with West Fork.

DRAINAGE AREA.--202 mi^2 of which 6 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1942 to September 1991. October 1991 to September 1992, miscellaneous water-quality measurements. October 1992 to September 2000, crest-stage partial record station. October 2000 to September 2008, October 2011 to September 2012. Prior to February 1943 monthly discharges only, published in WSP 1306.

REVISED RECORDS.--WSP 1276: 1944, 1946(M). WSP 1506: Drainage area.

GAGE.--Data collection platform and water-stage encoder. Datum of gage is 680.30 ft, Sandy Hook datum. Feb. 24 to April 7, 1943, nonrecording gage 200 ft upstream at same datum.

REMARKS.--Records good, except for estimated daily values, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,800 ft^3/s, May 27, 1973, gage height, 30.46 ft. from rating curve extended above 32,000 ft^3/s, on basis of slope-area measurement of peak flow; minimum, 3.6 ft^3/s, Sept. 26-28, 1948; minimum gage height, 0.55 ft, Sept 12-17, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1929 reached a stage of about 30.7 ft, from flood profile by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 28	1900	*20,300	*21.05

Minimum discharge, 11 ft^3/s, several days.

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 03414500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03414500.2012.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	60	115	1,100	601	485	1,380	252	59	52	12	e19	13
2	51	106	790	648	1,340	2,390	232	51	43	11	e17	13
3	46	101	604	518	1,140	3,640	209	45	37	11	e15	44
4	42	140	481	440	911	1,430	190	40	33	11	15	95
5	39	167	406	404	1,140	929	172	42	30	11	20	93
6	37	153	794	365	966	694	164	47	27	11	73	76
7	35	132	1,900	326	777	566	220	47	25	11	176	73
8	33	121	1,620	290	640	849	226	54	23	12	137	70
9	31	114	1,070	264	528	2,790	203	74	21	12	93	58
10	30	108	778	272	e458	1,270	177	75	20	24	96	48
11	30	103	595	368	e400	884	154	63	19	37	182	42
12	30	97	478	1,130	e345	701	135	49	20	33	151	37
13	34	89	395	1,070	e301	598	122	40	21	68	98	33
14	59	85	342	809	e271	539	112	42	22	87	69	32
15	71	82	310	665	e250	486	103	48	22	127	55	31
16	58	1,440	358	559	e251	450	95	49	25	137	47	30
17	50	2,080	545	653	e350	521	88	47	25	108	42	35
18	44	900	480	1,280	e321	2,890	87	42	24	68	41	1,680
19	65	568	416	851	e292	1,620	83	37	22	56	40	857
20	123	393	369	674	e451	979	79	37	19	120	35	459
21	146	625	913	1,060	e567	742	74	34	18	124	31	280
22	122	1,230	2,710	1,200	e790	613	71	31	17	86	26	197
23	102	1,340	3,700	1,730	e2,430	539	70	29	16	67	22	140
24	90	991	1,480	1,510	e1,280	561	65	30	15	57	20	104
25	87	697	996	1,030	e871	565	61	33	14	49	18	83
26	79	514	750	817	e699	499	66	33	14	41	17	69
27	72	505	2,180	1,420	e598	422	88	31	13	35	16	58
28	81	13,300	1,880	1,150	e495	366	90	28	13	30	16	50
29	150	5,590	1,200	856	499	329	87	42	12	26	15	46
30	156	1,770	892	691	---	298	72	110	12	23	14	43
31	130	---	699	564	---	270	---	71	---	e21	14	---
Total	2,183	33,656	31,231	24,215	19,846	30,810	3,847	1,460	674	1,526	1,630	4,889
Mean	70.4	1,122	1,007	781	684	994	128	47.1	22.5	49.2	52.6	163
Max	156	13,300	3,700	1,730	2,430	3,640	252	110	52	137	182	1,680
Min	30	82	310	264	250	270	61	28	12	11	14	13
Cfsm	0.36	5.72	5.14	3.99	3.49	5.07	0.65	0.24	0.11	0.25	0.27	0.83
In.	0.41	6.39	5.93	4.60	3.77	5.85	0.73	0.28	0.13	0.29	0.31	0.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	93.7	300	624	765	835	847	614	428	169	115	71.3	99.2
Max	589	1,122	2,066	2,253	2,240	2,897	1,369	1,909	682	961	722	616
(WY)	(1990)	(2012)	(1991)	(1950)	(2003)	(1975)	(1977)	(1984)	(1989)	(1967)	(1982)	(2004)
Min	4.76	8.05	22.1	43.6	161	206	128	47.1	10.9	9.73	9.21	7.18
(WY)	(1948)	(1954)	(1964)	(1981)	(1968)	(1983)	(2012)	(2012)	(1988)	(1944)	(2007)	(1953)

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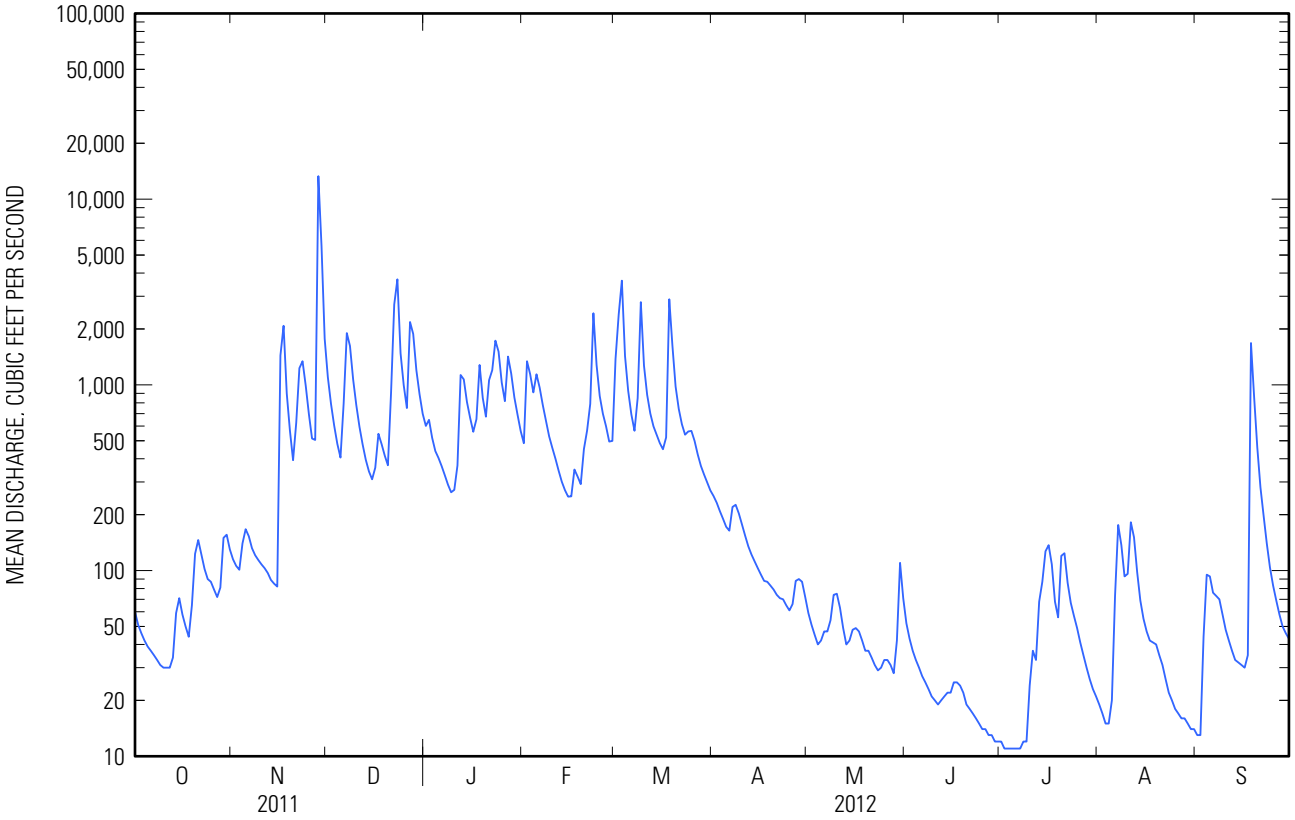
SUMMARY STATISTICS

	Water Year 2012		Water Years 1943 - 2012	
Annual total	155,967			
Annual mean	426		411	
Highest annual mean			743	1973
Lowest annual mean			190	2008
Highest daily mean	13,300	Nov 28	23,200	Dec 30, 1969
Lowest daily mean	11	Jul 2	3.6	Sep 26, 1948
Annual seven-day minimum	11	Jul 1	3.9	Sep 22, 1948
Maximum peak flow	20,300	Nov 28	[a]44,800	May 27, 1973
Maximum peak stage	21.05	Nov 28	30.46	May 27, 1973
Instantaneous low flow	[b]11	Jul 2	3.6	Sep 26, 1948
Annual runoff (cfsm)	2.17		2.10	
Annual runoff (inches)	29.60		28.48	
10 percent exceeds	1,110		925	
50 percent exceeds	104		153	
90 percent exceeds	20		15	

[a] From rating curve extended above 32,000 ft³/s, on basis of slope-area measurement.
[b] Also occurred July 3-8.