Water-Data Report 2013

07257500 ILLINOIS BAYOU NEAR SCOTTSVILLE, AR

Lower Arkansas-Fourche La Fave Basin
Dardanelle Reservoir Subbasin

LOCATION.--Lat 35°27′59″, long 93°02′28″ referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.31, T.10 N., R.19 W., Pope County, AR, Hydrologic Unit 11110202, on downstream side of bridge on State Hwy 164, 1.3 mi north of Scottsville, and 3.1 mi downstream from North Fork Illinois Bayou.

DRAINAGE AREA.--241 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct 1947 to Sep 1970 and Oct 1999 to current year. Annual maximum water years 1971 to 1999.

GAGE.--Water-stage recorder. Datum of gage is 447.54 ft above NGVD of 1929. Prior to Mar 1948, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 10, 1943, reached a stage of 24.6 ft, from floodmark set by local residents (discharge, 77,000 ft^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 13	0015	*22,700	*16.39
May 31	0845	13,900	14.26
Jun 1	1630	7,310	11.91
Aug 10	1515	10,900	13.39

Minimum discharge, 0.00 ft^3/s, Oct. 6, gage height, 3.97 ft.

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 07257500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07257500.2013.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e0.00	14	11	306	788	684	682	536	3,930	1.9	8.1	3.4
2	e0.00	13	11	314	574	548	594	667	2,740	1.9	30	2.4
3	e0.00	12	10	238	449	453	577	1,070	1,320	3.4	50	1.6
4	e0.00	10	18	186	371	395	512	949	799	2.7	136	1.1
5	e0.00	9.4	104	154	321	346	458	827	562	1.2	208	0.75
6	e179	8.9	93	133	265	283	403	670	430	0.93	138	0.52
7	133	8.2	80	116	230	242	362	552	333	0.76	82	0.38
8	83	7.1	68	104	231	215	326	450	261	0.65	e813	0.28
9	61	7.0	59	104	207	196	295	367	210	0.45	e1,360	0.20
10	47	7.0	52	115	322	2,480	440	310	182	0.97	e4,000	0.13
11	40	8.7	54	231	560	2,620	e2,470	262	154	2.3	1,800	0.11
12	34	12	49	3,340	449	1,400	e933	215	126	0.96	936	0.19
13	31	18	44	7,300	485	929	747	183	105	0.50	945	0.18
14	93	34	40	1,680	450	696	606	159	87	0.30	1,090	0.12
15	219	35	40	873	389	571	507	140	73	0.24	688	0.08
16	135	33	38	580	335	484	425	133	61	0.20	536	0.06
17	99	32	36	428	298	406	358	146	53	0.14	449	0.08
18	78	29	35	329	275	355	819	133	86	0.12	384	0.08
19	62	27	34	270	292	297	1,350	120	78	0.09	325	0.09
20	52	25	43	228	244	252	878	109	57	0.11	267	0.34
21	44	23	76	196	601	223	672	244	42	0.14	210	0.57
22	38	21	91	169	1,360	294	543	1,160	33	0.15	157	0.51
23	32	19	83	150	1,040	449	457	627	31	0.12	109	0.45
24	27	18	77	135	800	746	448	417	19	0.48	72	0.45
25	24	16	72	124	689	688	381	312	14	1.4	47	0.42
26	21	15	71	114	1,860	557	344	255	9.9	2.8	31	0.39
27	19	14	64	105	1,250	471	859	225	7.2	4.9	22	0.32
28	17	13	62	97	893	406	1,270	195	4.7	3.7	15	0.31
29	16	12	63	114	---	392	910	169	3.5	3.0	10	0.63
30	15	12	74	3,320	---	421	690	150	2.3	2.9	7.0	0.58
31	15	---	86	1,380	---	655	---	4,250	---	3.8	4.9	---
Total	1,614.00	513.3	1,738	22,933	16,028	19,154	20,316	16,002	11,813.6	43.21	14,930.0	16.72
Mean	52.1	17.1	56.1	740	572	618	677	516	394	1.39	482	0.56
Max	219	35	104	7,300	1,860	2,620	2,470	4,250	3,930	4.9	4,000	3.4
Min	0.00	7.0	10	97	207	196	295	109	2.3	0.09	4.9	0.06
Ac-ft	3,200	1,020	3,450	45,490	31,790	37,990	40,300	31,740	23,430	86	29,610	33
Cfsm	0.22	0.07	0.23	3.07	2.38	2.56	2.81	2.14	1.63	0.01	2.00	0.00
In.	0.25	0.08	0.27	3.54	2.47	2.96	3.14	2.47	1.82	0.01	2.30	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	113	258	418	552	628	773	770	623	170	93.9	63.2	88.9
Max	1,508	1,252	1,513	2,918	1,666	3,015	2,436	2,014	929	499	576	1,242
(WY)	(2010)	(1952)	(1969)	(1949)	(2001)	(2008)	(2008)	(2009)	(1957)	(1950)	(1950)	(2008)
Min	0.00	0.04	0.68	16.3	51.9	147	105	17.1	0.30	0.00	0.00	0.00
(WY)	(2000)	(1954)	(1954)	(1964)	(1963)	(1956)	(1963)	(2012)	(2012)	(2012)	(2012)	(2000)

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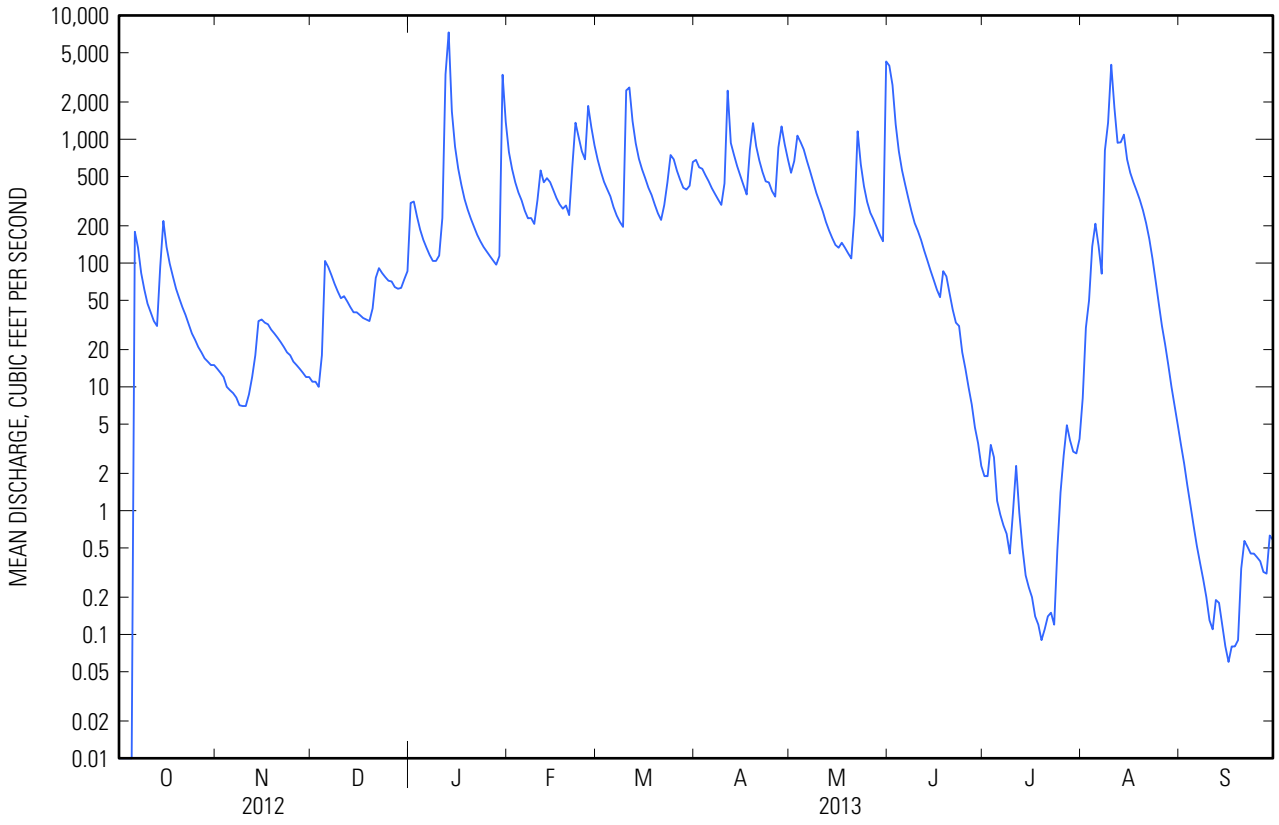
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1948 - 2013	
Annual total	118,730.34		125,101.83			
Annual mean	324		343		378	
Highest annual mean					786	2008
Lowest annual mean					132	2006
Highest daily mean	17,300	Mar 21	7,300	Jan 13	38,500	Jan 24, 1949
Lowest daily mean	0.00	Jun 22	0.00	Oct 1	0.00	Sep 17, 1953[a]
Annual seven-day minimum	0.00	Jun 22	0.10	Sep 13	0.00	Sep 17, 1953
Maximum peak flow			22,700	Jan 13	[b,c]130,000	Dec 3, 1982
Maximum peak stage			16.39	Jan 13	27.49	Dec 3, 1982
Instantaneous low flow			0.00	Oct 6	0.00	Oct 1, 1999
Annual runoff (ac-ft)	235,500		248,100		273,900	
Annual runoff (cfsm)	1.35		1.42		1.57	
Annual runoff (inches)	18.33		19.31		21.31	
10 percent exceeds	634		822		845	
50 percent exceeds	24		105		101	
90 percent exceeds	0.00		0.47		1.2	

[a] Occurred on several days
[b] From rating curve extended above 56,100 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow
[c] Occurred during period of computation of annual maximum only, water years 1971 to 1999