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)
Apr 26	0145	*43,700	*19.71
May 2	0545	18,200	15.23
May 24	0745	7,170	11.70

Minimum discharge, 0.38 ft^3/s, Aug. 8, gage height, 4.02 ft

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 07257500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/07257500.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.6	50	188	274	166	538	173	2,040	268	e4.0	0.61	1.1
2	4.7	57	162	248	613	451	175	9,530	231	3.6	0.59	0.93
3	4.0	63	142	211	400	389	161	5,730	201	3.0	0.57	0.87
4	3.7	63	126	185	327	345	394	2,460	178	2.5	0.54	0.79
5	3.6	65	115	166	297	356	726	1,570	154	2.1	0.54	0.72
6	3.6	65	105	147	269	325	508	1,160	129	1.9	e0.53	0.71
7	3.2	66	96	133	312	287	417	838	110	1.6	e0.52	0.68
8	3.0	72	84	120	329	300	359	634	93	1.3	e0.50	0.64
9	2.8	75	76	110	323	1,500	306	493	73	1.2	0.60	0.62
10	2.9	79	71	104	300	920	263	402	61	0.95	0.70	0.59
11	3.5	85	67	93	267	651	489	335	50	0.91	72	0.57
12	5.2	84	64	81	260	514	614	285	43	0.87	162	0.56
13	5.6	85	61	70	295	426	464	296	36	0.82	90	0.54
14	7.2	85	57	66	394	629	395	282	30	0.93	98	0.55
15	9.0	86	54	65	427	718	2,090	239	27	0.88	69	0.54
16	11	94	53	63	404	546	1,470	209	22	0.85	42	0.57
17	12	98	51	62	358	455	907	186	19	0.81	27	0.60
18	13	101	49	64	322	395	671	168	18	0.79	18	0.65
19	18	103	48	62	286	337	525	153	16	0.76	12	0.84
20	19	102	47	63	259	291	421	306	14	0.74	7.4	7.8
21	20	101	46	63	246	261	347	3,270	11	0.72	20	4.7
22	21	103	44	60	231	236	401	1,510	9.1	0.69	59	e2.7
23	25	106	45	59	210	219	412	1,690	6.9	0.67	40	e2.0
24	28	114	45	60	635	199	1,610	4,850	5.3	0.66	28	1.8
25	32	133	44	60	2,320	179	23,700	2,190	4.1	0.65	20	1.5
26	33	173	43	62	1,110	170	15,900	1,290	3.3	0.65	13	1.5
27	37	171	42	63	763	167	10,900	873	2.7	0.63	7.6	1.1
28	38	144	41	64	642	151	3,710	660	4.1	0.63	4.8	0.93
29	42	137	85	64	---	141	2,020	510	6.7	0.62	3.2	0.91
30	43	158	245	62	---	161	1,380	390	e5.2	0.61	2.2	0.87
31	46	---	242	63	---	168	---	318	---	0.61	1.6	---
Total	505.6	2,918	2,638	3,067	12,765	12,425	71,908	44,867	1,831.4	37.65	802.50	38.88
Mean	16.3	97.3	85.1	98.9	456	401	2,397	1,447	61.0	1.21	25.9	1.30
Max	46	173	245	274	2,320	1,500	23,700	9,530	268	4.0	162	7.8
Min	2.8	50	41	59	166	141	161	153	2.7	0.61	0.50	0.54
Ac-ft	1,000	5,790	5,230	6,080	25,320	24,640	142,600	88,990	3,630	75	1,590	77
Cfsm	0.07	0.40	0.35	0.41	1.89	1.66	9.95	6.01	0.25	0.01	0.11	0.01
In.	0.08	0.45	0.41	0.47	1.97	1.92	11.10	6.93	0.28	0.01	0.12	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	117	239	401	541	630	738	790	643	169	99.2	53.0	94.0
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	83.4	12.3	1.21	0.56	0.00
(WY)	(2000)	(1954)	(1954)	(1964)	(1963)	(1956)	(1963)	(2001)	(2006)	(1953)	(1952)	(2000)

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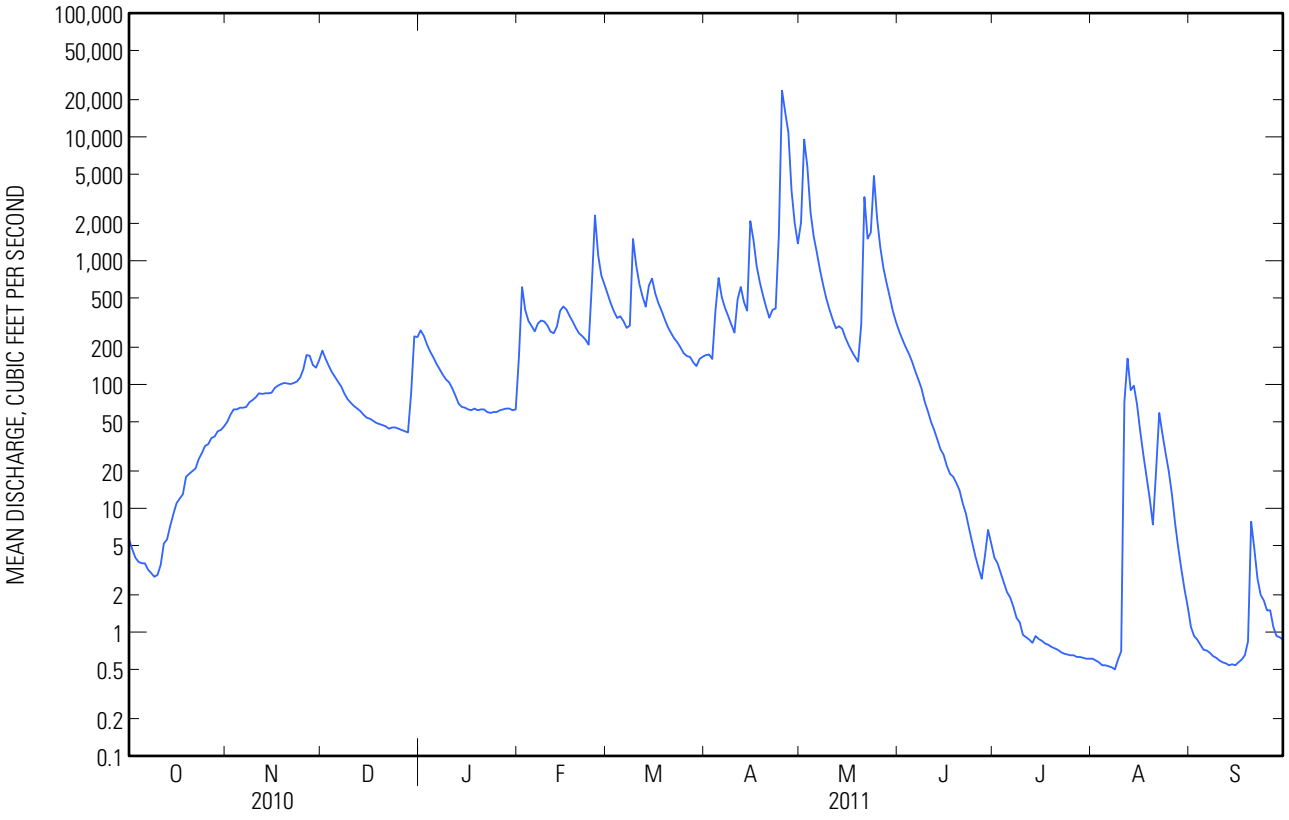
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1948 - 2011	
Annual total	118,201.1		153,804.03			
Annual mean	324		421		375	
Highest annual mean					786	2008
Lowest annual mean					132	2006
Highest daily mean	4,590	May 20	23,700	Apr 25	38,500	Jan 24, 1949
Lowest daily mean	1.3	Aug 27	0.50	Aug 8	0.00	Sep 17, 1953 [a]
Annual seven-day minimum	1.7	Aug 23	0.54	Aug 2	0.00	Sep 17, 1953
Maximum peak flow			43,700	Apr 26	[b,c] 130,000	Dec 3, 1982
Maximum peak stage			19.71	Apr 26	27.49	Dec 3, 1982
Instantaneous low flow			0.38	Aug 8	0.00	Oct 1, 1999 [a]
Annual runoff (ac-ft)	234,500		305,100		271,500	
Annual runoff (cfsm)	1.34		1.75		1.56	
Annual runoff (inches)	18.25		23.74		21.13	
10 percent exceeds	830		634		836	
50 percent exceeds	107		69		102	
90 percent exceeds	9.7		0.75		1.5	

[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