07337000 RED RIVER AT INDEX, AR

Red-Little Basin
Pecan-Waterhole Subbasin

LOCATION.--Lat 33°33′07″, long 94°02′28″ referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.7, T.14 S., R.28 W., Miller County, AR, Hydrologic Unit 11140106, on right bank downstream of northbound bridge on U.S. Hwy 71 at Index, 2.2 mi south of Ogden, 20.6 mi upstream from Little River, and at river mile 485.3.

DRAINAGE AREA.--48,000 mi^2 of which 5,900 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jul 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft above NGVD of 1929. Prior to Dec 1939, nonrecording gage, and Dec 1939 to Jul 1979, water-stage recorder, at site 500 ft downstream at present datum.

REMARKS.--Water-discharge records poor, including estimated daily discharges. Some regulation and diversions since Oct 1943, by Lake Texoma (Texas), 241 mi upstream, capacity 5,392,900 acre-ft; since Sep 1967, by Pat Mayse Lake (Texas), capacity 352,700 acre-ft; and since Jan 1974, by Hugo Lake (Oklahoma) capacity 966,700 acre-ft. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62,200 ft^3/s, Oct. 13, gage height, 14.72 ft; minimum discharge, 1,490 ft^3/s, Sept. 5, 6, gage height, 0.89 ft.

07337000 RED RIVER AT INDEX, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,880	48,700	e11,100	13,100	39,500	24,500	18,200	8,240	10,900	5,970	11,600	2,120
2	5,810	45,500	e11,000	14,000	36,200	24,100	16,700	7,600	7,970	5,800	10,400	1,880
3	5,940	41,900	e11,000	14,000	28,700	24,300	16,000	6,950	6,720	6,270	9,170	1,720
4	8,700	39,200	e12,000	13,700	26,700	22,800	15,400	7,490	6,540	7,780	8,330	1,620
5	14,100	38,700	10,700	13,400	e33,300	18,600	12,900	6,940	7,590	7,300	6,960	1,540
6	13,900	38,100	11,300	13,000	e36,700	16,100	12,300	5,650	8,580	5,720	6,350	1,520
7	11,300	37,800	12,000	12,600	e35,800	14,400	13,300	5,120	8,090	4,670	6,250	1,800
8	13,100	37,000	11,200	12,300	e34,400	12,800	13,100	4,950	7,200	4,660	6,080	2,010
9	21,700	36,400	10,700	e12,000	e37,000	12,400	12,400	4,840	6,840	5,970	5,920	1,970
10	28,500	35,900	11,400	e11,500	e50,000	13,500	11,700	4,900	6,870	6,660	5,950	1,790
11	42,800	35,100	11,400	10,800	e55,100	16,800	11,100	4,740	6,960	6,310	5,830	2,000
12	57,900	31,600	10,700	11,900	47,700	22,000	10,100	4,650	7,930	10,900	5,730	2,960
13	e58,500	25,600	9,920	12,100	33,400	26,100	9,530	4,470	9,010	15,700	5,660	5,810
14	e58,800	21,400	8,820	10,600	29,200	24,800	8,110	4,370	7,910	17,000	5,580	6,600
15	e58,900	17,500	8,250	9,990	31,700	22,400	6,900	4,900	6,900	15,500	5,560	5,250
16	e59,100	15,500	7,910	9,910	33,700	20,000	6,480	5,410	6,380	14,000	5,550	5,660
17	e54,600	15,100	7,600	10,000	34,300	17,500	6,150	5,810	6,170	13,100	5,510	6,260
18	e47,400	15,200	7,360	10,100	33,600	15,900	5,400	5,990	6,150	12,800	5,400	6,640
19	e39,300	15,100	7,170	10,600	32,600	14,100	5,040	11,500	6,210	12,600	4,180	6,630
20	e32,000	13,400	7,000	10,600	31,000	12,300	4,900	17,500	6,310	12,400	3,310	6,480
21	e32,600	14,000	6,920	10,700	27,800	11,700	4,910	18,700	7,250	12,200	3,630	5,970
22	e35,500	15,500	6,840	11,200	24,200	12,300	5,030	19,000	7,210	12,100	4,900	5,820
23	e37,900	14,200	7,390	13,800	23,200	14,100	7,000	21,300	6,570	12,000	5,220	5,760
24	e40,600	13,200	14,900	16,300	25,600	16,200	10,800	23,900	6,230	11,900	5,380	5,800
25	43,300	e12,700	23,400	15,900	30,200	18,000	11,700	24,900	6,070	11,800	5,300	5,900
26	47,400	e12,400	27,400	14,800	31,000	24,300	10,600	22,600	5,890	11,700	4,170	5,820
27	50,200	e12,000	23,400	13,600	27,700	31,300	10,900	21,200	5,880	11,800	2,710	5,710
28	51,600	e11,800	18,500	13,300	25,200	34,200	10,200	21,100	5,820	12,000	2,750	5,010
29	54,100	e11,500	15,300	15,200	---	31,200	10,100	20,200	5,790	12,100	4,430	4,620
30	58,700	e11,300	13,800	20,400	---	25,600	9,530	16,700	5,980	12,100	3,990	4,560
31	55,800	---	13,200	32,900	---	21,700	---	13,000	---	11,800	2,650	---
Total	1,146,930	733,300	369,580	414,300	935,500	616,000	306,480	354,620	209,920	322,610	174,450	127,230
Mean	37,000	24,440	11,920	13,360	33,410	19,870	10,220	11,440	6,997	10,410	5,627	4,241
Max	59,100	48,700	27,400	32,900	55,100	34,200	18,200	24,900	10,900	17,000	11,600	6,640
Min	5,810	11,300	6,840	9,910	23,200	11,700	4,900	4,370	5,790	4,660	2,650	1,520
Ac-ft	2,275,000	1,454,000	733,100	821,800	1,856,000	1,222,000	607,900	703,400	416,400	639,900	346,000	252,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,978	10,280	11,680	11,410	13,880	16,930	17,040	22,640	20,670	10,270	6,371	5,924
Max	41,690	47,140	47,910	60,160	38,960	67,730	61,460	121,000	94,400	76,590	56,020	30,340
(WY)	(1946)	(1975)	(1992)	(1998)	(1946)	(1945)	(1990)	(1990)	(1957)	(2007)	(2007)	(1950)
Min	716	642	1,206	1,313	1,726	2,233	2,096	2,940	2,282	1,162	1,025	909
(WY)	(1957)	(1957)	(1957)	(2006)	(2006)	(1967)	(1956)	(2005)	(2005)	(1944)	(1944)	(1944)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1944 - 2010	
Annual total	5,843,830		5,710,920			
Annual mean	16,010		15,650		[a]12,910	
Highest annual mean					30,420	1990
Lowest annual mean					2,582	2006
Highest daily mean	95,400	May 14	[b]59,100	Oct 16	268,000	May 10, 1990
Lowest daily mean	1,460	Jan 3	1,520	Sep 6	384	Nov 28, 1956
Annual seven-day minimum	1,680	Jan 1	1,730	Sep 2	397	Oct 19, 1956
Maximum peak flow			62,200	Oct 13	[c]270,000	May 10, 1990
Maximum peak stage			14.72	Oct 13	[d]32.30	May 10, 1990
Instantaneous low flow			1,490	Sep 5[e]	378	Nov 28, 1956
Annual runoff (ac-ft)	11,590,000		11,330,000		9,352,000	
10 percent exceeds	48,800		35,600		35,000	
50 percent exceeds	6,870		11,700		5,840	
90 percent exceeds	2,060		4,990		2,160	

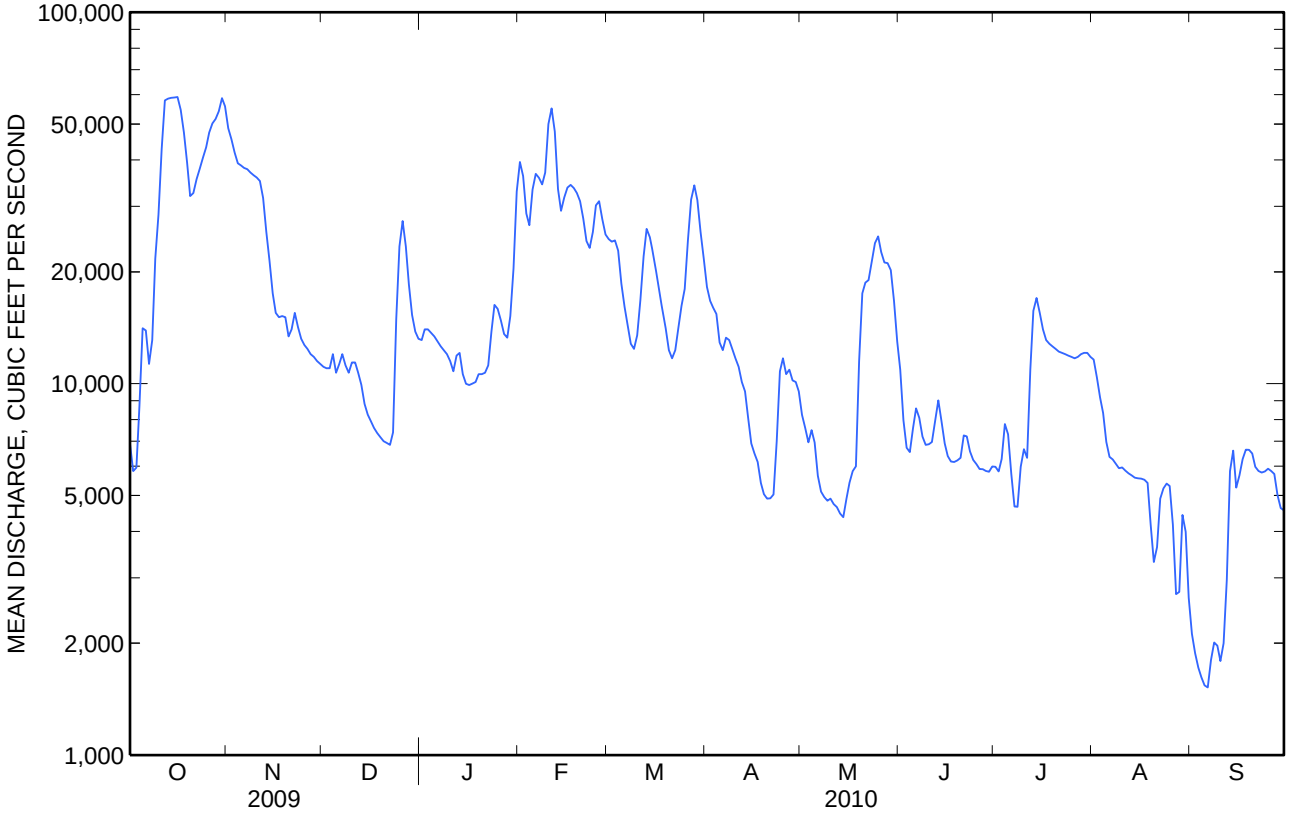
[a] Prior to regulation, water years 1937 to 1943, 11,970 ft^3/s

[b] Estimated

[c] Maximum discharge for period of record 297,000 ft^3/s Feb 23, 1938

[d] Maximum gage height for period of record 34.25 ft Feb 23, 1938, from graph based on gage readings

[e] Also Sep 6



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to 1956, Apr 1980 to current year.

INSTRUMENTATION.--Thermistor.

REMARKS.--Water temperature collected continuously. Water-quality records are good. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 34.3°C, Aug. 12; minimum, 2.4°C, Jan. 10.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	23.8	22.9	23.4	---	---	---	14.1	13.3	13.6	6.9	6.2	6.5
2	23.6	22.2	23.0	---	---	---	13.3	12.5	12.9	6.7	6.1	6.4
3	22.9	21.6	22.3	---	---	---	12.5	4.9	11.3	6.3	5.6	5.9
4	22.2	18.9	20.6	---	---	---	10.6	9.6	10.1	5.7	5.2	5.5
5	18.9	17.9	18.2	---	---	---	9.6	8.8	9.2	---	---	---
6	18.1	17.8	17.9	17.3	16.6	17.0	9.0	8.3	8.4	5.0	4.7	4.8
7	18.0	17.6	17.8	17.5	16.9	17.2	8.6	8.0	8.3	4.9	4.1	4.7
8	19.6	17.5	18.4	17.5	17.0	17.3	8.3	8.0	8.1	4.1	3.2	3.6
9	19.7	19.1	19.6	17.5	17.3	17.4	8.1	7.2	7.6	---	---	---
10	19.1	18.2	18.5	18.0	17.3	17.7	7.2	6.5	6.8	---	---	---
11	18.2	17.2	17.8	18.2	17.6	17.9	6.7	6.3	6.4	3.7	2.6	3.1
12	17.2	16.4	16.7	18.0	17.5	17.7	6.4	6.2	6.3	4.0	3.0	3.5
13	16.4	16.3	16.3	17.6	17.1	17.4	7.1	6.4	6.7	4.2	3.2	3.7
14	17.1	16.4	16.7	17.6	17.0	17.3	8.1	7.1	7.6	5.5	4.1	4.8
15	18.0	17.1	17.6	17.9	17.2	17.6	8.5	7.6	8.1	6.3	5.4	5.8
16	18.2	17.7	17.9	17.9	16.4	17.4	8.2	7.5	7.9	6.7	6.2	6.4
17	17.9	17.4	17.6	16.4	15.1	15.6	7.9	7.5	7.7	8.0	6.7	7.3
18	17.4	16.8	17.1	15.1	14.7	14.9	8.5	7.5	8.0	8.8	7.4	8.1
19	17.1	16.5	16.8	14.8	14.3	14.6	8.6	7.8	8.2	10.4	8.8	9.6
20	---	---	---	14.8	14.7	14.8	8.4	7.6	8.1	11.6	10.4	11.0
21	---	---	---	14.7	14.4	14.5	8.7	7.6	8.2	12.4	11.4	11.8
22	---	---	---	14.8	14.2	14.5	9.4	8.3	8.7	12.2	11.4	11.8
23	---	---	---	14.8	14.5	14.6	11.3	9.4	10.1	11.9	11.1	11.6
24	---	---	---	15.2	14.7	15.0	12.0	11.0	11.7	11.4	10.7	11.0
25	---	---	---	15.0	14.5	14.7	11.0	9.0	9.5	10.7	9.8	10.3
26	---	---	---	14.7	14.1	14.3	9.0	8.1	8.6	9.8	9.2	9.5
27	---	---	---	14.1	13.5	13.8	8.1	7.3	7.7	9.6	9.0	9.3
28	---	---	---	14.1	13.5	13.8	7.3	6.5	6.8	9.6	8.9	9.4
29	---	---	---	14.5	14.0	14.2	6.5	6.1	6.2	8.9	7.6	8.2
30	---	---	---	14.5	14.1	14.3	6.2	6.0	6.1	7.6	7.1	7.3
31	---	---	---	---	---	---	6.5	6.1	6.3	7.1	6.7	6.9
Month	---	---	---	---	---	---	14.1	4.9	8.4	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	6.8	6.4	6.6	7.9	7.7	7.8	17.2	15.6	16.3	24.2	22.2	23.1
2	6.8	6.4	6.6	7.9	7.6	7.8	17.8	16.8	17.3	24.4	23.4	24.0
3	6.5	6.2	6.3	8.3	7.3	7.8	18.4	17.2	17.8	24.4	22.3	23.4
4	6.3	6.1	6.2	8.7	7.7	8.2	18.2	17.5	17.8	24.5	22.6	23.6
5	---	---	---	9.8	8.4	9.0	19.2	17.8	18.4	25.1	23.0	24.1
6	---	---	---	11.0	9.5	10.1	19.6	18.5	19.0	26.2	24.0	25.0
7	---	---	---	11.5	10.5	11.0	19.6	18.9	19.2	25.4	24.4	24.9
8	---	---	---	12.1	11.3	11.7	19.0	17.8	18.4	24.8	23.5	24.2
9	---	---	---	14.1	12.1	13.0	19.3	17.7	18.5	24.0	21.4	22.5
10	---	---	---	14.7	13.6	14.1	19.4	17.9	18.6	22.4	20.3	21.2
11	---	---	---	14.6	13.8	14.2	20.2	18.2	19.2	24.0	21.9	22.8
12	5.2	4.9	5.0	14.1	13.5	13.7	20.8	18.9	19.8	25.4	23.3	24.2
13	5.4	4.9	5.1	13.5	12.7	13.0	21.5	19.6	20.6	26.0	24.4	25.1
14	5.4	5.0	5.2	13.3	12.3	12.8	22.1	20.3	21.2	26.9	24.9	25.8
15	5.2	4.7	4.9	13.5	12.6	13.0	22.9	21.1	22.0	26.8	25.0	25.9
16	5.4	4.7	5.1	13.4	13.1	13.3	23.4	21.7	22.6	27.8	26.0	26.7
17	5.9	5.1	5.5	14.2	13.1	13.5	23.1	22.2	22.6	28.3	26.2	27.2
18	6.3	5.4	5.9	14.7	13.3	13.9	22.2	19.6	20.9	27.8	26.3	27.1
19	7.0	5.9	6.4	15.2	13.8	14.4	20.5	18.9	19.6	27.2	25.7	26.5
20	7.8	7.0	7.3	14.8	13.3	14.3	21.6	19.5	20.4	26.3	23.8	24.8
21	8.5	7.7	8.2	13.3	11.1	12.0	22.3	20.2	21.1	24.7	23.4	24.0
22	8.5	8.1	8.4	11.9	10.4	11.1	23.1	21.1	22.0	25.4	24.0	24.6
23	8.1	7.6	7.9	12.6	11.0	11.8	22.8	22.0	22.3	26.0	24.9	25.4
24	7.8	7.1	7.5	12.6	11.6	12.1	22.7	21.6	22.2	26.3	25.1	25.7
25	7.6	7.1	7.3	12.5	11.9	12.1	21.8	20.7	21.2	26.7	25.4	26.1
26	7.3	6.7	7.0	12.8	11.7	12.2	21.9	20.3	21.0	27.3	26.0	26.6
27	7.4	6.5	7.0	13.7	12.6	13.1	21.3	19.9	20.6	27.9	26.3	27.0
28	7.9	7.1	7.5	13.3	12.8	13.0	21.5	19.7	20.6	28.4	27.1	27.8
29	---	---	---	13.7	12.5	13.1	22.0	20.1	21.0	28.8	27.5	28.1
30	---	---	---	14.6	13.3	13.9	22.8	21.1	21.8	29.2	28.0	28.5
31	---	---	---	15.9	14.4	15.0	---	---	---	30.2	28.4	29.2
Month	---	---	---	15.9	7.3	12.1	23.4	15.6	20.1	30.2	20.3	25.3

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	31.1	28.9	29.9	29.9	28.8	29.4	32.6	30.8	31.6	29.1	24.9	26.4
2	31.1	29.5	30.3	29.9	28.7	29.3	33.1	31.3	32.1	27.6	24.3	25.6
3	30.5	29.4	29.8	29.7	29.2	29.4	33.3	31.6	32.5	25.5	19.1	23.5
4	30.6	28.9	29.7	29.9	28.7	29.2	33.7	32.1	32.9	26.1	16.1	21.0
5	30.8	29.2	30.0	30.3	28.6	29.4	34.2	32.2	33.1	28.3	15.9	22.1
6	31.5	29.5	30.4	30.4	29.0	29.7	33.5	30.9	32.2	31.1	19.5	25.5
7	31.2	29.8	30.4	30.2	29.0	29.5	31.8	30.2	31.0	27.9	23.7	25.2
8	31.4	30.1	30.7	31.5	29.1	30.1	32.4	30.3	31.3	26.8	23.2	24.5
9	30.6	29.2	30.1	31.5	30.2	30.8	33.1	31.0	32.0	28.3	24.2	25.6
10	29.2	27.3	28.3	30.9	29.7	30.1	33.7	31.7	32.6	31.0	23.7	26.7
11	28.9	26.7	27.7	30.7	29.1	29.8	34.0	32.1	33.0	32.7	24.7	27.1
12	29.9	27.9	28.8	30.5	29.5	30.0	34.3	32.5	33.3	29.4	27.6	28.4
13	30.0	28.5	29.3	30.2	29.3	29.7	34.1	32.7	33.3	29.0	27.4	28.3
14	30.9	29.1	29.9	30.1	29.1	29.5	33.7	32.4	33.0	29.0	27.7	28.4
15	31.7	29.9	30.8	30.9	29.4	30.1	33.9	32.4	33.1	28.9	27.1	28.0
16	32.5	30.6	31.5	31.9	30.0	30.8	33.2	31.9	32.5	29.5	28.0	28.7
17	33.0	31.2	32.0	31.5	30.8	31.2	32.7	31.1	32.0	29.9	28.3	29.1
18	33.0	31.5	32.2	32.2	30.3	31.1	33.1	31.5	32.2	30.2	28.6	29.4
19	33.3	31.4	32.3	32.1	31.0	31.5	33.1	31.7	32.3	30.2	28.9	29.6
20	33.6	31.7	32.7	31.8	30.9	31.4	32.8	31.1	31.9	30.1	28.6	29.4
21	33.7	32.1	33.0	32.4	30.8	31.5	32.5	30.8	31.7	29.7	28.6	29.2
22	33.9	32.3	33.1	32.4	31.2	31.8	32.6	31.0	31.8	29.3	28.2	28.9
23	33.9	32.2	33.0	32.3	31.0	31.6	32.7	31.2	31.9	29.1	28.1	28.7
24	33.0	31.9	32.4	32.2	30.8	31.5	32.1	31.0	31.6	29.0	27.8	28.3
25	32.9	31.1	31.9	32.5	30.9	31.7	31.3	30.2	30.7	27.9	26.5	27.1
26	33.2	31.3	32.2	32.1	31.0	31.5	30.3	28.8	29.6	26.5	24.9	25.9
27	33.1	31.7	32.3	31.9	30.3	30.9	29.5	23.6	27.3	24.9	23.4	24.2
28	33.3	31.6	32.3	30.4	29.5	29.9	29.5	21.6	26.3	24.5	22.8	23.7
29	32.2	30.3	31.1	30.9	29.1	30.0	29.1	28.0	28.4	24.7	23.0	23.8
30	30.3	29.4	29.9	31.3	29.7	30.5	29.5	27.7	28.5	25.2	23.4	24.2
31	---	---	---	32.0	30.1	31.0	29.3	25.7	28.1	---	---	---
Month	33.9	26.7	30.9	32.5	28.6	30.4	34.3	21.6	31.4	32.7	15.9	26.6

07337000 RED RIVER AT INDEX, AR—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 5

[%, percent; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; ft/s, feet per second; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Discharge, instantaneous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Stream width, ft (00004)	Velocity at point in stream, ft/s (81904)
11-05-2009	1430	772	38,700	8.28	83.8	7.80	310	16.53	460	8.0
01-25-2010	1625	746	15,700	12.02	109.5	7.73	437	10.25	450	5.0
03-11-2010	0915	758	24,600	9.38	90.7	7.86	885	13.48	900	5.0
05-25-2010	0915	756	25,100	6.45	79.5	7.52	753	25.4	620	3
07-21-2010	1530	774	12,100	7.82	106.7	8.32	1,571	32.44	300	< 1.5
09-15-2010	1600	762	5,070	6.44	84.0	7.53	607	29	200	< 1.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 5

[%, percent; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; ft/s, feet per second; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sampler type (84164)	Sampling method (82398)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, tons per acre-foot (70303)	Dissolved solids, water, tons per day (70302)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
11-05-2009	US D-96 bag sampler	EWI	182.75	.249	19,100	89.28	27.1200	5.2350
01-25-2010	US DH-95 plastic	EWI	255.10	.347	10,810	117.1	33.0900	8.3610
03-11-2010	US DH-95 plastic	EWI	504.55	.686	33,510	216.6	58.8300	16.9200
05-25-2010	US DH-95 plastic	EWI	447.78	.609	30,350	180.1	48.7400	14.1800
07-21-2010	Grab sample	Grab sample(dip)	910.17	1.238	29,740	324.0	83.3200	28.1500
09-15-2010	Grab sample	Grab sample(dip)	343.53	.467	4,703	151.5	40.7500	12.0800

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 5

[%, percent; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; ft/s, feet per second; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equivalents of major cations (00932)	Sodium, water, filtered, mg/L (00930)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, milligrams per liter as NH4 (71846)	Ammonia, water, filtered, mg/L as N (00608)
11-05-2009	3.1710	1.058	34.9	22.9700	31.989	.112	34.269	.755	E .0204	E .01581
01-25-2010	3.3740	1.483	39.8	36.8800	53.380	.126	54.311	.862	E .0250	E .01941
03-11-2010	3.9650	2.067	40.7	69.9100	115.258	.184	108.018	.818	< .0258	< .02
05-25-2010	3.7600	2.374	46.3	73.2200	121.835	.179	92.497	.930	.0488	.03786
07-21-2010	5.0540	4.151	53.1	171.7000	292.146	.282	208.035	.655	< .0258	< .02
09-15-2010	4.1660	2.025	44.3	57.2700	78.406	.335	68.722	.729	.0346	.02688

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 5

[%, percent; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; ft/s, feet per second; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, milligrams per liter (71851)	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, milligrams per liter (71856)	Nitrite, water, filtered, mg/L as N (00613)	Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)
11-05-2009	.126	.5482	.1238	.0071	.00217	E .739	.1006	.03282	E .022
01-25-2010	.151	E .6617	E .1495	E .0050	E .00153	E .843	.0576	.01879	< .04
03-11-2010	.085	E .3678	E .0831	E .0063	E .00191	< .818	.0312	.01017	E .022
05-25-2010	.296	1.257	.2840	.0393	.01197	.892	.0615	.02006	E .023
07-21-2010	< .04	< .1718	< .0388	E .0039	E .00118	< .655	.1037	.03383	.040
09-15-2010	1.016	4.454	1.006	.0321	.00978	.702	.1620	.05285	.048

07337000 RED RIVER AT INDEX, AR—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 5

[%, percent; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; ft/s, feet per second; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Escherichia coli, modified m-TEC MF method, water, col/100 mL (90902)	Fecal coliform, M-FC MF (0.7 micron) method, water, col/100 mL (31625)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
11-05-2009	.208	.881	160	110	52	531	55,480
01-25-2010	.208	1.01	78	70	96	189	8,012
03-11-2010	.183	.903	100	110	75	241	16,010
05-25-2010	.282	1.23	240	300	55	649	43,980
07-21-2010	.144	< .695	E 7	E 7	99	67	2,189
09-15-2010	.200	1.75	220	E 250	98	143	1,958