Water-Data Report 2013

07314000 Lake Kickapoo near Archer City, TX

Red-Lake Texoma Basin
Little Wichita Subbasin

LOCATION.--Lat 33°39′47″, long 98°46′43″ referenced to North American Datum of 1927, Archer County, TX, Hydrologic Unit 11130209, on intake tower near left end of dam on North Fork Little Wichita River, 8.2 mi south of Mankins, and 9.2 mi northwest of Archer City.

DRAINAGE AREA.--275 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Feb. 1946 to Sept. 2002 (daily mean contents), Oct. 2002 to current year (daily mean elevation). Prior to Oct. 1965, end of month contents only.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Oct. 1964 to Sept. 1984.
BIOCHEMICAL DATA: Oct. 1964 to Sept. 1971.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by city of Wichita Falls). Oct. 8, 1946 to Mar. 3, 1999, nonrecording gage at same site and datum. Satellite telemeter at station.

COOPERATION.--Capacity curve was provided by the city of Wichita Falls. The capacity table is based on U.S. Geological Survey topographic maps, dated 1929. The capacity curve, dated Nov. 1946, was entitled "Lake Kickapoo Area and Capacity Curve".

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 8,200 ft long, including a 483-foot-wide reinforced concrete ogee-type uncontrolled spillway near right end of dam. The dam was completed Dec. 15, 1945, and storage began Feb. 1, 1946. The service outlet consists of two gate-controlled 4- by 5-foot conduits. The dam and lake are owned by the city of Wichita Falls, which uses the water for their municipal supply. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,062.00
Design flood (2-foot freeboard).....	1,060.00
Crest of spillway	1,045.00
Lowest gated outlet (invert).....	1,000.92

EXTREMES FOR PERIOD OF RECORD.--(period of daily mean contents) Maximum contents, 134,300 acre-ft, Aug. 2, 1950, elevation, 1,049.2 ft; minimum observed since first filling in July 1950, 35,660 acre-ft, June 30, 1953, elevation, 1,029.8 ft; (period of daily mean elevation) maximum elevation, 1,044.96 ft, July 14, 2010; minimum elevation, 1,032.12 ft, Sept. 20, 2013.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,035.23 ft, Oct. 1; minimum elevation, 1,032.12 ft, Sept. 20.

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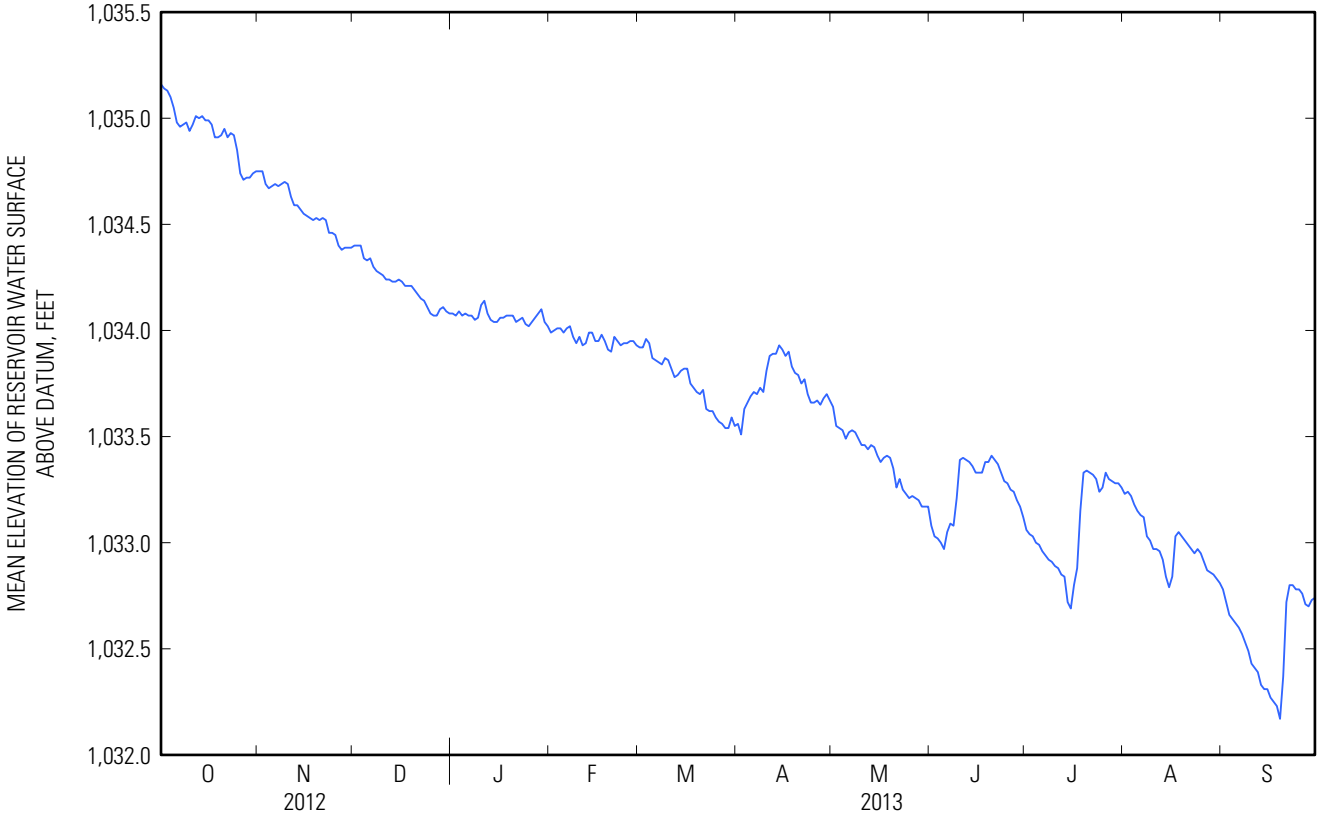
ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,035.16	1,034.75	1,034.40	1,034.08	1,033.99	1,033.92	1,033.56	1,033.64	1,033.08	1,033.06	1,033.23	1,032.78
2	1,035.14	1,034.75	1,034.40	1,034.07	1,034.00	1,033.92	1,033.51	1,033.55	1,033.03	1,033.04	1,033.24	1,032.72
3	1,035.13	1,034.69	1,034.40	1,034.09	1,034.01	1,033.96	1,033.63	1,033.54	1,033.02	1,033.03	1,033.22	1,032.66
4	1,035.10	1,034.67	1,034.34	1,034.07	1,034.01	1,033.94	1,033.66	1,033.53	1,033.00	1,033.00	1,033.18	1,032.64
5	1,035.05	1,034.68	1,034.33	1,034.08	1,033.99	1,033.87	1,033.69	1,033.49	1,032.97	1,032.99	1,033.15	1,032.62
6	1,034.98	1,034.69	1,034.34	1,034.07	1,034.01	1,033.86	1,033.71	1,033.52	1,033.05	1,032.96	1,033.13	1,032.60
7	1,034.96	1,034.68	1,034.30	1,034.07	1,034.02	1,033.85	1,033.70	1,033.53	1,033.09	1,032.94	1,033.12	1,032.57
8	1,034.97	1,034.69	1,034.28	1,034.05	1,033.97	1,033.84	1,033.73	1,033.52	1,033.08	1,032.92	1,033.03	1,032.53
9	1,034.98	1,034.70	1,034.27	1,034.06	1,033.94	1,033.87	1,033.71	1,033.49	1,033.21	1,032.91	1,033.01	1,032.49
10	1,034.94	1,034.69	1,034.26	1,034.12	1,033.97	1,033.86	1,033.81	1,033.46	1,033.39	1,032.89	1,032.97	1,032.43
11	1,034.97	1,034.63	1,034.24	1,034.14	1,033.93	1,033.82	1,033.88	1,033.46	1,033.40	1,032.88	1,032.97	1,032.41
12	1,035.01	1,034.59	1,034.24	1,034.08	1,033.94	1,033.78	1,033.89	1,033.44	1,033.39	1,032.85	1,032.96	1,032.39
13	1,035.00	1,034.59	1,034.23	1,034.05	1,033.99	1,033.79	1,033.89	1,033.46	1,033.38	1,032.84	1,032.92	1,032.33
14	1,035.01	1,034.57	1,034.23	1,034.04	1,033.99	1,033.81	1,033.93	1,033.45	1,033.36	1,032.72	1,032.84	1,032.31
15	1,034.99	1,034.55	1,034.24	1,034.04	1,033.95	1,033.82	1,033.91	1,033.41	1,033.33	1,032.69	1,032.79	1,032.31
16	1,034.99	1,034.54	1,034.23	1,034.06	1,033.95	1,033.82	1,033.88	1,033.38	1,033.33	1,032.80	1,032.84	1,032.27
17	1,034.97	1,034.53	1,034.21	1,034.06	1,033.98	1,033.75	1,033.90	1,033.40	1,033.33	1,032.88	1,033.03	1,032.25
18	1,034.91	1,034.52	1,034.21	1,034.07	1,033.95	1,033.73	1,033.83	1,033.41	1,033.38	1,033.15	1,033.05	1,032.23
19	1,034.91	1,034.53	1,034.21	1,034.07	1,033.91	1,033.71	1,033.80	1,033.40	1,033.38	1,033.33	1,033.03	1,032.17
20	1,034.92	1,034.52	1,034.19	1,034.07	1,033.90	1,033.70	1,033.79	1,033.35	1,033.41	1,033.34	1,033.01	1,032.37
21	1,034.95	1,034.53	1,034.17	1,034.04	1,033.97	1,033.72	1,033.75	1,033.26	1,033.39	1,033.33	1,032.99	1,032.72
22	1,034.91	1,034.52	1,034.15	1,034.05	1,033.95	1,033.63	1,033.77	1,033.30	1,033.37	1,033.32	1,032.97	1,032.80
23	1,034.93	1,034.46	1,034.14	1,034.06	1,033.93	1,033.62	1,033.70	1,033.25	1,033.33	1,033.30	1,032.95	1,032.80
24	1,034.92	1,034.46	1,034.11	1,034.03	1,033.94	1,033.62	1,033.66	1,033.23	1,033.29	1,033.24	1,032.97	1,032.78
25	1,034.85	1,034.45	1,034.08	1,034.02	1,033.94	1,033.59	1,033.66	1,033.21	1,033.28	1,033.26	1,032.95	1,032.78
26	1,034.74	1,034.40	1,034.07	1,034.04	1,033.95	1,033.57	1,033.67	1,033.22	1,033.25	1,033.33	1,032.91	1,032.76
27	1,034.71	1,034.38	1,034.07	1,034.06	1,033.95	1,033.56	1,033.65	1,033.21	1,033.24	1,033.30	1,032.87	1,032.71
28	1,034.72	1,034.39	1,034.10	1,034.08	1,033.93	1,033.54	1,033.68	1,033.20	1,033.20	1,033.29	1,032.86	1,032.70
29	1,034.72	1,034.39	1,034.11	1,034.10	---	1,033.54	1,033.70	1,033.17	1,033.17	1,033.28	1,032.85	1,032.73
30	1,034.74	1,034.39	1,034.09	1,034.04	---	1,033.59	1,033.67	1,033.17	1,033.12	1,033.28	1,032.83	1,032.74
31	1,034.75	---	1,034.08	1,034.02	---	1,033.55	---	1,033.17	---	1,033.26	1,032.81	---
Mean	1,034.94	1,034.56	1,034.22	1,034.06	1,033.96	1,033.75	1,033.74	1,033.38	1,033.24	1,033.08	1,032.99	1,032.55
Max	1,035.16	1,034.75	1,034.40	1,034.14	1,034.02	1,033.96	1,033.93	1,033.64	1,033.41	1,033.34	1,033.24	1,032.80
Min	1,034.71	1,034.38	1,034.07	1,034.02	1,033.90	1,033.54	1,033.51	1,033.17	1,032.97	1,032.69	1,032.79	1,032.17

	Calendar Year 2012	Water Year 2013
Mean	1,035.61	1,033.71
Max	1,036.99	1,035.16
Min	1,034.07	1,032.17

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