

Water-Data Report 2011

07312380 North Fork Buffalo Creek Reservoir near Iowa Park, TX

Red-Lake Texoma Basin
Wichita Subbasin

LOCATION.--Lat 33°59'12", long 98°45'06" referenced to North American Datum of 1927, Wichita County, TX, Hydrologic Unit 11130206, on south bank near right end of dam on North Fork Buffalo Creek, 5.0 mi northwest of Iowa Park.

DRAINAGE AREA.--33.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1998 to Sept. 2002 (daily mean contents), Oct. 2002 to current year (daily mean elevation).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

COOPERATION.--Capacity curve is provided by the City of Iowa Park.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 4,452 feet long. The dam was completed in Nov. 1964 and storage began shortly thereafter. The lake is owned by the city of Iowa Park, for municipal supply. The capacity curve was developed by Freese and Nichols Inc. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	1,056.3
Crest of spillway	1,048.0
Emergency spillway.....	1,051.7

EXTREMES FOR PERIOD OF RECORD.--(period of daily mean contents) Maximum contents, 4,950 acre-ft, May 6, 7, 2001, elevation, 1,038.78 ft; minimum contents, 728 acre-ft, Oct. 13, 2000, elevation, 1,028.01 ft; (period of daily mean elevation) maximum elevation, 1,041.51 ft, Sept. 13-14, 2010; minimum elevation, 1,024.63 ft, Aug. 14, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,041.19 ft, Oct. 1; minimum elevation, 1,034.78 ft, Sept. 30.

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ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,041.18	1,040.86	1,040.51	1,040.26	1,040.17	1,039.98	1,039.53	1,039.04	1,038.32	1,037.17	1,036.23	1,035.29
2	1,041.16	1,040.85	1,040.50	1,040.25	1,040.13	1,039.97	1,039.51	1,039.02	1,038.29	1,037.14	1,036.20	1,035.27
3	1,041.13	1,040.83	1,040.49	1,040.24	1,040.11	1,039.97	1,039.49	1,038.99	1,038.25	1,037.12	1,036.17	1,035.25
4	1,041.11	1,040.81	1,040.50	1,040.24	1,040.10	1,039.97	1,039.50	1,038.97	1,038.22	1,037.11	1,036.13	1,035.24
5	1,041.09	1,040.79	1,040.48	1,040.24	1,040.10	1,039.95	1,039.43	1,038.95	1,038.20	1,037.08	1,036.10	1,035.18
6	1,041.07	1,040.77	1,040.46	1,040.23	1,040.11	1,039.92	1,039.41	1,038.93	1,038.17	1,037.05	1,036.06	1,035.15
7	1,041.06	1,040.75	1,040.45	1,040.22	1,040.11	1,039.90	1,039.39	1,038.90	1,038.15	1,037.02	1,036.03	1,035.13
8	1,041.05	1,040.74	1,040.44	1,040.22	1,040.10	1,039.90	1,039.38	1,038.87	1,038.11	1,036.99	1,035.99	1,035.10
9	1,041.03	1,040.73	1,040.44	1,040.21	1,040.13	1,039.89	1,039.36	1,038.84	1,038.07	1,036.96	1,035.96	1,035.08
10	1,041.01	1,040.73	1,040.43	1,040.22	1,040.09	1,039.87	1,039.35	1,038.81	1,038.04	1,036.93	1,035.94	1,035.06
11	1,041.00	1,040.72	1,040.43	1,040.20	1,040.09	1,039.85	1,039.34	1,038.79	1,038.02	1,036.89	1,035.90	1,035.04
12	1,040.98	1,040.73	1,040.41	1,040.19	1,040.09	1,039.84	1,039.30	1,038.78	1,037.98	1,036.87	1,035.87	1,035.02
13	1,040.96	1,040.71	1,040.40	1,040.18	1,040.08	1,039.84	1,039.27	1,038.76	1,037.94	1,036.84	1,035.85	1,035.00
14	1,040.94	1,040.70	1,040.39	1,040.18	1,040.08	1,039.83	1,039.25	1,038.71	1,037.89	1,036.81	1,035.84	1,034.98
15	1,040.92	1,040.69	1,040.38	1,040.18	1,040.08	1,039.80	1,039.24	1,038.67	1,037.85	1,036.78	1,035.81	1,034.96
16	1,040.91	1,040.69	1,040.37	1,040.18	1,040.08	1,039.79	1,039.17	1,038.65	1,037.80	1,036.75	1,035.78	1,034.99
17	1,040.90	1,040.69	1,040.36	1,040.18	1,040.09	1,039.79	1,039.14	1,038.63	1,037.75	1,036.72	1,035.75	1,035.00
18	1,040.89	1,040.66	1,040.35	1,040.18	1,040.08	1,039.78	1,039.12	1,038.60	1,037.70	1,036.70	1,035.72	1,035.00
19	1,040.88	1,040.64	1,040.34	1,040.17	1,040.08	1,039.76	1,039.11	1,038.57	1,037.63	1,036.67	1,035.69	1,034.98
20	1,040.87	1,040.64	1,040.34	1,040.18	1,040.08	1,039.74	1,039.09	1,038.64	1,037.58	1,036.62	1,035.66	1,034.96
21	1,040.85	1,040.63	1,040.34	1,040.16	1,040.08	1,039.73	1,039.07	1,038.64	1,037.56	1,036.58	1,035.63	1,034.94
22	1,040.91	1,040.63	1,040.33	1,040.15	1,040.05	1,039.72	1,039.06	1,038.61	1,037.53	1,036.54	1,035.61	1,034.93
23	1,040.96	1,040.62	1,040.32	1,040.15	1,040.04	1,039.69	1,039.06	1,038.58	1,037.48	1,036.50	1,035.58	1,034.92
24	1,040.98	1,040.62	1,040.32	1,040.14	1,040.06	1,039.66	1,039.14	1,038.56	1,037.43	1,036.48	1,035.55	1,034.90
25	1,040.97	1,040.62	1,040.32	1,040.13	1,040.04	1,039.63	1,039.13	1,038.54	1,037.39	1,036.45	1,035.53	1,034.89
26	1,040.95	1,040.58	1,040.31	1,040.13	1,040.03	1,039.62	1,039.11	1,038.49	1,037.35	1,036.42	1,035.49	1,034.87
27	1,040.94	1,040.57	1,040.30	1,040.12	1,040.02	1,039.58	1,039.10	1,038.46	1,037.32	1,036.38	1,035.46	1,034.85
28	1,040.91	1,040.55	1,040.29	1,040.12	1,040.01	1,039.56	1,039.08	1,038.44	1,037.30	1,036.35	1,035.43	1,034.84
29	1,040.89	1,040.54	1,040.29	1,040.11	---	1,039.56	1,039.04	1,038.39	1,037.26	1,036.32	1,035.41	1,034.83
30	1,040.88	1,040.53	1,040.29	1,040.11	---	1,039.54	1,039.02	1,038.35	1,037.21	1,036.29	1,035.36	1,034.80
31	1,040.87	---	1,040.28	1,040.12	---	1,039.53	---	1,038.34	---	1,036.25	1,035.32	---
Mean	1,040.98	1,040.69	1,040.38	1,040.18	1,040.08	1,039.78	1,039.24	1,038.69	1,037.79	1,036.73	1,035.78	1,035.02
Max	1,041.18	1,040.86	1,040.51	1,040.26	1,040.17	1,039.98	1,039.53	1,039.04	1,038.32	1,037.17	1,036.23	1,035.29
Min	1,040.85	1,040.53	1,040.28	1,040.11	1,040.01	1,039.53	1,039.02	1,038.34	1,037.21	1,036.25	1,035.32	1,034.80

	Calendar Year 2010	Water Year 2011
Mean	1,040.49	1,038.77
Max	1,041.50	1,041.18
Min	1,038.50	1,034.80

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