



Water-Data Report 2008

08134500 O. C. Fisher Lake at San Angelo, TX

Middle Colorado-Concho Basin
North Concho Subbasin

LOCATION.--Lat 31°29'04", long 100°28'53" referenced to North American Datum of 1927, Tom Green County, TX, Hydrologic Unit 12090104, at intake structure of O.C. Fisher Dam on North Concho River, 0.1 mi west of Glenna Drive, 3.1 mi northwest of center of San Angelo, and 6.6 mi upstream from mouth.

DRAINAGE AREA.--1,488 mi² of which 105 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Feb. 1952 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Published as "San Angelo Reservoir" prior to Oct. 1970, and as "San Angelo Lake", Oct. 1970 to Sept. 1974.

PERIOD OF RECORD.-Water-Quality.--
CHEMICAL DATA: Apr. 1965 to May 1984.
BIOCHEMICAL DATA: Apr. 1965 to Dec. 1972.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 12, 1953, non-recording gage at same site and datum. Prior to Aug. 16, 2001, water-stage recorder inside intake structure at same datum. Satellite telemeter at station.

COOPERATION.--Records of diversions may be obtained from the U.S. Army Corps of Engineers.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 40,885 ft long, including spillway. Closure was completed Mar. 7, 1951, and the dam was completed May 3, 1951. Deliberate impoundment began Feb. 1, 1952. The dam is owned by the U.S. Army Corps of Engineers. The lake is operated for flood control, recreation, and partial municipal supply for the city of San Angelo. The spillway is an uncontrolled off-channel concrete gravity dam with ogee weir section 1,150 ft wide located to the right and upstream from the right end of dam. The spillway is designed to discharge 356,000 ft³/s at maximum design flood level. The control outlet works consist of six gate-controlled outlets, 7.5 by 14.5 ft, opening into two 18.0-foot-diameter concrete conduits, and two 2.5-foot gate-controlled outlets for water-supply outlets. Since Feb. 1973, the capacity is based on a survey made in 1962. Prior to 1973, the capacity was based on a survey made in 1944. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. Conservation pool storage is 115,743 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,964.0
Design flood.....	1,958.0
Crest of spillway.....	1,938.5
Top of conservation pool.....	1,908.0
Lowest gated outlet (invert).....	1,840.0

Water-quality records available from Jan. 1981 to Aug. 1982 were published separately as:

Site ID	Site name
312900100290201	O. C. Fisher Lk Site AC at San Angelo, TX
312937100303801	O. C. Fisher Lk Site BC at San Angelo, TX
312907100311301	O. C. Fisher Lk Site CC at San Angelo, TX
313023100321101	O. C. Fisher Lk DC at San Angelo, TX

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 174,100 acre-ft, Oct. 14, 1957, elevation, 1,916.47 ft; minimum since first appreciable storage, lake dry July 16, 1970, to Apr. 15, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,871.43 ft, Oct. 1; minimum elevation, 1,865.51 ft, Sept. 30.

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,871.42	1,870.77	1,870.48	1,870.19	1,870.04	1,869.86	1,870.05	1,869.38	1,868.42	1,867.32	1,866.34	1,865.95
2	1,871.40	1,870.76	1,870.47	---	1,870.03	1,869.86	1,870.03	1,869.35	1,868.38	1,867.30	1,866.33	1,865.94
3	1,871.38	1,870.75	1,870.45	---	1,870.03	1,869.91	1,870.02	1,869.31	1,868.33	1,867.27	1,866.30	1,865.91
4	1,871.37	1,870.74	1,870.44	1,870.17	1,870.03	1,869.91	1,869.99	1,869.28	1,868.27	1,867.24	1,866.26	1,865.88
5	1,871.34	1,870.73	1,870.44	1,870.17	1,870.03	1,869.90	1,869.96	1,869.26	1,868.21	1,867.21	1,866.23	1,865.85
6	1,871.31	1,870.69	1,870.42	---	1,870.01	1,869.89	1,869.94	1,869.26	1,868.17	1,867.17	1,866.20	1,865.82
7	1,871.28	1,870.67	1,870.42	---	1,870.01	1,869.89	1,869.92	1,869.25	1,868.13	1,867.12	1,866.16	1,865.79
8	1,871.26	1,870.66	1,870.41	---	1,870.00	1,869.88	1,869.90	1,869.20	1,868.08	1,867.09	1,866.13	1,865.77
9	1,871.24	1,870.65	1,870.39	---	1,869.99	1,869.88	1,869.86	1,869.18	1,868.03	1,867.07	1,866.10	1,865.77
10	1,871.22	1,870.64	1,870.38	1,870.10	1,869.98	1,869.87	1,869.85	1,869.15	1,867.99	1,867.05	1,866.06	1,865.78
11	1,871.20	1,870.63	1,870.39	1,870.09	1,869.98	1,869.86	1,869.80	1,869.10	1,867.94	1,867.01	1,866.09	1,865.84
12	1,871.17	1,870.62	1,870.38	1,870.08	1,869.98	1,869.85	1,869.77	1,869.07	1,867.90	1,866.98	1,866.08	1,865.83
13	1,871.14	1,870.61	1,870.38	1,870.07	1,869.97	1,869.83	1,869.73	1,869.05	1,867.85	1,866.96	1,866.05	1,865.82
14	1,871.12	1,870.60	1,870.37	1,870.06	1,869.95	1,869.81	1,869.70	1,869.05	1,867.81	1,866.93	1,866.02	1,865.80
15	1,871.12	1,870.56	1,870.37	1,870.05	1,869.94	1,869.78	1,869.67	1,869.01	1,867.77	1,866.89	1,866.00	1,865.77
16	1,871.11	1,870.54	1,870.34	1,870.05	1,869.97	1,869.76	1,869.65	1,868.97	1,867.71	1,866.86	1,865.97	1,865.75
17	1,871.10	1,870.53	1,870.33	1,870.03	1,869.98	1,869.76	1,869.63	1,868.95	1,867.64	1,866.82	1,866.03	1,865.73
18	1,871.06	1,870.52	1,870.33	1,870.02	1,869.97	1,869.97	1,869.58	1,868.92	1,867.62	1,866.79	1,866.07	1,865.72
19	1,871.03	1,870.51	1,870.32	1,870.01	1,869.97	1,870.05	1,869.55	1,868.89	1,867.59	1,866.75	1,866.06	1,865.70
20	1,871.01	1,870.50	1,870.32	1,870.01	1,869.97	1,870.06	1,869.53	1,868.86	1,867.60	1,866.71	1,866.05	1,865.69
21	1,870.99	1,870.48	1,870.31	1,870.00	1,869.97	1,870.06	1,869.51	1,868.82	1,867.57	1,866.68	1,866.03	1,865.67
22	1,870.95	1,870.45	1,870.30	1,870.00	1,869.96	1,870.06	1,869.49	1,868.78	1,867.53	1,866.65	1,866.01	1,865.66
23	1,870.92	1,870.43	1,870.27	1,869.99	1,869.96	1,870.11	1,869.46	1,868.74	1,867.50	1,866.61	1,866.00	1,865.64
24	1,870.90	1,870.43	1,870.26	1,870.00	1,869.94	1,870.12	1,869.44	1,868.70	1,867.46	1,866.57	1,865.99	1,865.63
25	1,870.88	1,870.50	1,870.25	1,870.02	1,869.94	1,870.12	1,869.42	1,868.66	1,867.41	1,866.53	1,865.98	1,865.61
26	1,870.87	1,870.49	1,870.24	1,870.03	1,869.91	1,870.11	1,869.38	1,868.63	1,867.38	1,866.49	1,865.96	1,865.59
27	1,870.85	1,870.49	1,870.23	1,870.05	1,869.90	1,870.10	1,869.38	1,868.60	1,867.35	1,866.45	1,865.94	1,865.58
28	1,870.83	1,870.48	1,870.24	1,870.08	1,869.88	1,870.09	1,869.41	1,868.58	1,867.32	1,866.42	1,865.92	1,865.56
29	1,870.81	1,870.47	1,870.23	1,870.07	1,869.87	1,870.07	1,869.41	1,868.54	1,867.34	1,866.39	1,865.91	1,865.54
30	1,870.80	1,870.47	1,870.23	1,870.06	---	1,870.07	1,869.40	1,868.50	1,867.33	1,866.39	1,865.96	1,865.52
31	1,870.79	---	1,870.21	1,870.06	---	1,870.08	---	1,868.46	---	1,866.36	1,865.97	---
Mean	1,871.09	1,870.58	1,870.34	---	1,869.97	1,869.95	1,869.68	1,868.95	1,867.79	1,866.84	1,866.07	1,865.74
Max	1,871.42	1,870.77	1,870.48	---	1,870.04	1,870.12	1,870.05	1,869.38	1,868.42	1,867.32	1,866.34	1,865.95
Min	1,870.79	1,870.43	1,870.21	---	1,869.87	1,869.76	1,869.38	1,868.46	1,867.32	1,866.36	1,865.91	1,865.52

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