



Water-Data Report TX-2005

08082800 Millers Creek Reservoir near Bomarton, TX

Brazos River Basin

LOCATION.--Lat 33°24'32", long 99°23'19" referenced to North American Datum of 1927, Baylor County, Hydrologic Unit 12060101, on left bank at intake tower of Millers Creek, 1.1 mi upstream from dam, 7.1 mi southeast of Bomarton, and 13.2 mi upstream from mouth.

DRAINAGE AREA.--240 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--Aug. 1974 to Oct. 1994, July 1998 to Sept. 2002 (daily mean contents), Oct. 2002 to current year (daily mean elevation). Water-quality records: Chemical data: Oct. 1975 to Sept. 1984.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Freese and Nichols). Satellite telemeter at station.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 9,250 ft long. The dam was completed in 1974 and storage began in July 1974. Dead storage, 1,240 acre-ft below elevation 1,303.4 ft. The reservoir is used for municipal and industrial water supply. The uncontrolled spillway is an open cut 3,000 ft wide located on left bank about 800 ft upstream from levee. The service spillway is an uncontrolled morning-glory-type drop inlet, 16.5 ft square, that discharges through a 5.0-ft-square concrete conduit. Low-flow releases are made by valves in the outlet vault of the drop inlet. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,355.0
Crest of spillway.....	1,334.4
Lowest gated outlet (invert).....	1,305.0

COOPERATION.--The area-capacity tables, prepared from data of July 12, 1993, were provided by the Texas Water Development Board. Records of diversions may be obtained from North Central Texas Municipal Water Authority.

EXTREMES FOR PERIOD OF RECORD.--(period of daily mean contents) Maximum contents, 53,850 acre-ft, June 26, 1982, elevation 1,341.42 ft; minimum contents were below dead storage elevation prior to Apr. 20, 1977, and July 17 to Aug. 3, 1978; (period of daily mean elevation) maximum elevation, 1,342.52 ft, Aug. 17, 2005; minimum elevation 1,322.12 ft, June 2, 5, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,342.52 ft, Aug. 17; minimum elevation, 1,325.78 ft, Oct. 30.

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,326.05	1,325.89	1,330.71	1,330.62	1,330.46	1,330.62	1,330.68	1,330.14	1,329.96	1,330.07	1,329.76	1,335.20
2	1,326.04	1,325.90	1,330.70	1,330.61	1,330.47	1,330.62	1,330.67	1,330.11	1,329.97	1,330.07	1,329.75	1,335.10
3	1,326.02	1,325.96	1,330.69	1,330.61	1,330.46	1,330.63	1,330.65	1,330.10	1,329.96	1,330.05	1,329.73	1,335.02
4	1,326.03	1,325.98	1,330.68	1,330.60	1,330.46	1,330.68	1,330.64	1,330.16	1,329.95	1,329.99	1,329.70	1,334.95
5	1,326.02	1,326.01	1,330.69	1,330.61	1,330.46	1,330.74	1,330.64	1,330.17	1,329.96	1,329.97	1,329.71	1,334.88
6	1,326.03	1,326.01	1,330.70	1,330.60	1,330.51	1,330.81	1,330.60	1,330.17	1,329.96	1,330.00	1,329.68	1,334.83
7	1,326.04	1,326.00	1,330.73	1,330.60	1,330.51	1,330.83	1,330.57	1,330.16	1,330.00	1,330.10	1,329.68	1,334.78
8	1,326.02	1,326.00	1,330.73	1,330.59	1,330.51	1,330.83	1,330.56	1,330.15	1,330.01	1,330.10	1,329.71	1,334.74
9	1,326.01	1,325.99	1,330.72	1,330.59	1,330.50	1,330.84	1,330.56	1,330.13	1,329.99	1,330.08	1,329.68	1,334.70
10	1,326.01	1,325.98	1,330.71	1,330.59	1,330.50	1,330.83	1,330.54	1,330.12	1,329.97	1,330.08	1,329.65	1,334.67
11	1,325.99	1,325.95	1,330.71	1,330.59	1,330.49	1,330.82	1,330.51	1,330.11	1,329.95	1,330.05	1,329.62	1,334.64
12	1,325.98	1,325.93	1,330.70	1,330.60	1,330.49	1,330.83	1,330.48	1,330.09	1,329.94	1,330.02	1,329.59	1,334.62
13	1,325.96	1,325.93	1,330.68	1,330.57	1,330.50	1,330.79	1,330.46	1,330.09	1,329.92	1,329.98	1,329.57	1,334.60
14	1,325.94	1,325.97	1,330.67	1,330.56	1,330.49	1,330.77	1,330.45	1,330.16	1,330.12	1,329.97	1,329.69	1,334.57
15	1,325.93	1,326.16	1,330.67	1,330.54	1,330.48	1,330.76	1,330.43	1,330.15	1,330.25	1,329.95	1,330.60	1,334.55
16	1,325.89	1,326.74	1,330.65	1,330.52	1,330.46	1,330.75	1,330.42	1,330.14	1,330.37	1,329.93	1,335.88	1,334.53
17	1,325.88	1,327.88	1,330.65	1,330.52	1,330.45	1,330.75	1,330.41	1,330.12	1,330.44	1,329.90	1,342.31	1,334.51
18	1,325.86	1,329.20	1,330.64	1,330.51	1,330.45	1,330.73	1,330.39	1,330.11	1,330.45	1,329.87	1,341.95	1,334.49
19	1,325.84	1,329.91	1,330.63	1,330.51	1,330.47	1,330.71	1,330.38	1,330.09	1,330.45	1,329.84	1,341.27	1,334.46
20	1,325.82	1,330.08	1,330.64	1,330.51	1,330.47	1,330.70	1,330.37	1,330.07	1,330.42	1,329.81	1,340.63	1,334.44
21	1,325.81	1,330.15	1,330.60	1,330.51	1,330.46	1,330.70	1,330.36	1,330.05	1,330.39	1,329.77	1,340.07	1,334.43
22	1,325.82	1,330.19	1,330.59	1,330.48	1,330.46	1,330.67	1,330.32	1,330.02	1,330.37	1,329.74	1,339.44	1,334.40
23	1,325.82	1,330.25	1,330.59	1,330.48	1,330.50	1,330.66	1,330.30	1,329.99	1,330.34	1,329.71	1,338.80	1,334.38
24	1,325.80	1,330.41	1,330.58	1,330.47	1,330.51	1,330.66	1,330.28	1,329.96	1,330.30	1,329.70	1,338.15	1,334.36
25	1,325.79	1,330.60	1,330.63	1,330.47	1,330.52	1,330.64	1,330.28	1,329.93	1,330.27	1,329.65	1,337.46	1,334.35
26	1,325.82	1,330.71	1,330.62	1,330.46	1,330.53	1,330.63	1,330.26	1,329.91	1,330.23	1,329.62	1,336.82	1,334.32
27	1,325.81	1,330.73	1,330.62	1,330.45	1,330.59	1,330.72	1,330.26	1,329.90	1,330.20	1,329.84	1,336.32	1,334.31
28	1,325.81	1,330.74	1,330.62	1,330.48	1,330.61	1,330.73	1,330.23	1,329.89	1,330.18	1,329.85	1,335.96	1,334.28
29	1,325.81	1,330.73	1,330.62	1,330.48	---	1,330.73	1,330.20	1,329.88	1,330.14	1,329.84	1,335.70	1,334.23
30	1,325.79	1,330.72	1,330.62	1,330.47	---	1,330.72	1,330.16	1,329.88	1,330.11	1,329.82	1,335.49	1,334.23
31	1,325.86	---	1,330.61	1,330.47	---	1,330.71	---	1,329.88	---	1,329.79	1,335.33	---
Mean	1,325.91	1,327.96	1,330.66	1,330.54	1,330.49	1,330.73	1,330.43	1,330.06	1,330.15	1,329.91	1,334.12	1,334.59
Max	1,326.05	1,330.74	1,330.73	1,330.62	1,330.61	1,330.84	1,330.68	1,330.17	1,330.45	1,330.10	1,342.31	1,335.20
Min	1,325.79	1,325.89	1,330.58	1,330.45	1,330.45	1,330.62	1,330.16	1,329.88	1,329.92	1,329.62	1,329.57	1,334.23

	Calendar Year 2004	Water Year 2005
Mean	1,324.96	1,330.46
Max	1,330.74	1,342.31
Min	1,322.13	1,325.79

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