

08179500 Medina Lake near San Antonio, TX

San Antonio Basin
Medina Subbasin

LOCATION.--Lat 29°32'24", long 98°56'01" referenced to North American Datum of 1927, Medina County, TX, Hydrologic Unit 12100302, at gate-operating platform, 576 ft from the left end of Medina Dam on Medina River, 4.2 mi upstream from Medina diversion dam, 13 mi north of Castroville, 28 mi west of San Antonio, and 70.4 mi from mouth.

DRAINAGE AREA.--634 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1913 to Sept. 1994, Aug. 1997 to current year. Prior to Oct. 1965, end of month contents only from records provided by Bexar-Medina-Atascosa Counties Water Control and Improvement District No. 1.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Oct. 1969 to Sept. 1984.

REVISED RECORDS.--WSP 1923: 1953(M), Drainage area.

GAGE.--Water-stage recorder. Datum of the gage is NGVD of 1929. Prior to Oct. 1999, datum of gage was 7.81 ft higher. Satellite telemetry at station.

REMARKS.--Records good. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. The lake is formed by a gravity-type concrete dam, 1,580 ft long. The dam was completed and storage began May 7, 1913. The uncontrolled spillway is a cut through natural rock 880 ft long, with a 3-foot wide cutoff wall, located near right end of dam. The dam and lake are owned and operated by Bexar-Medina-Atascosa Counties Water Control and Improvement District No. 1. Water is released downstream to Medina Diversion Lake where it is diverted into Medina Canal by the Water District. Capacity table based on survey made by the Texas Water Development Board, July 1995. Conservation pool storage is 254,843 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	1,076.2
Crest of spillways	1,064.2
Water-supply outlet pipe (invert)	958.7
Lowest gated outlet (invert)	912.2

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 322,700 acre-ft July 5, 2002, elevation, 1074.65 ft; minimum contents, 780 acre-ft, Apr. 11, 1948, elevation, 936.2 ft (present datum).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 188,400 acre-ft, Oct. 1, gage height, 1,052.29 ft; minimum contents, 72,710 acre-ft, Sept. 30, gage height, 1,020.50 ft.

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RESERVOIR STORAGE, ACRE 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	188,300	182,600	176,300	168,500	164,200	159,300	151,800	139,900	125,300	110,900	97,480	84,030
2	188,100	182,400	176,000	168,300	163,800	159,100	151,500	139,300	124,800	110,400	96,910	83,610
3	187,900	182,100	175,700	168,100	163,500	158,900	151,200	138,700	124,300	110,000	96,510	83,200
4	187,700	181,800	175,500	168,000	163,300	158,700	151,000	138,200	123,800	109,500	96,130	82,760
5	187,500	181,500	175,200	167,800	163,100	158,600	150,500	137,700	123,400	109,000	95,640	82,260
6	187,400	181,300	174,800	167,600	162,900	158,300	150,100	137,300	122,900	108,600	95,160	81,730
7	187,200	181,100	174,500	167,500	162,700	158,100	149,800	136,800	122,400	108,100	94,690	81,280
8	187,000	180,800	174,200	167,300	162,500	158,000	149,500	136,400	121,900	107,600	94,230	80,850
9	186,800	180,600	173,900	167,300	162,500	157,800	149,200	136,000	121,400	107,200	93,760	80,400
10	186,600	180,500	173,600	167,100	162,100	157,500	148,900	135,500	120,900	106,700	93,310	79,980
11	186,500	180,300	173,400	167,000	161,900	157,300	148,500	135,000	120,300	106,200	92,860	79,570
12	186,400	180,200	173,000	166,700	161,700	157,100	148,000	134,700	119,800	105,700	92,770	79,150
13	186,200	179,900	172,700	166,500	161,600	156,900	147,600	134,400	119,400	105,300	92,400	78,740
14	186,000	179,700	172,400	166,300	161,400	156,800	147,200	133,800	118,900	104,800	91,970	78,270
15	185,800	179,500	172,200	166,400	161,300	156,600	146,800	133,300	118,400	104,400	91,530	77,800
16	185,600	179,300	171,900	166,400	161,200	156,400	146,300	132,800	117,900	103,900	91,070	77,330
17	185,400	179,100	171,600	166,300	161,100	156,300	145,800	132,400	117,400	103,500	90,610	76,910
18	185,200	178,800	171,300	166,200	160,900	156,100	145,500	131,900	116,900	103,000	90,170	76,620
19	185,100	178,500	171,000	166,100	160,800	155,800	145,100	131,400	116,400	102,600	89,720	76,440
20	184,900	178,300	170,700	166,100	160,700	155,500	144,700	131,000	115,800	102,200	89,270	76,110
21	184,700	178,200	170,500	165,800	160,600	155,200	144,300	130,600	115,400	101,700	88,820	75,820
22	184,500	178,100	170,300	165,600	160,400	154,900	143,900	130,100	115,100	101,300	88,390	75,630
23	184,400	178,000	170,000	165,500	160,300	154,600	143,500	129,600	114,700	100,800	87,950	75,290
24	184,200	177,800	169,900	165,300	160,200	154,300	143,000	129,200	114,200	100,400	87,510	74,940
25	184,100	177,700	169,800	165,100	160,000	154,000	142,600	128,700	113,700	99,940	87,070	74,590
26	183,900	177,500	169,400	164,900	159,800	153,700	142,200	128,200	113,300	99,510	86,650	74,240
27	183,800	177,200	169,100	164,800	159,700	153,400	141,800	127,700	112,800	99,040	86,230	73,920
28	183,500	177,000	168,900	164,600	159,600	153,100	141,200	127,200	112,300	98,610	85,790	73,600
29	183,200	176,900	169,000	164,400	---	152,800	140,700	126,700	111,800	98,330	85,360	73,250
30	182,900	176,600	168,900	164,300	---	152,400	140,300	126,200	111,400	98,070	84,910	72,890
31	182,700	---	168,700	164,100	---	152,100	---	125,700	---	97,810	84,460	---
Mean	185,600	179,400	172,100	166,300	161,600	156,100	146,400	132,800	118,200	104,000	90,950	78,040
Max	188,300	182,600	176,300	168,500	164,200	159,300	151,800	139,900	125,300	110,900	97,480	84,030
Min	182,700	176,600	168,700	164,100	159,600	152,100	140,300	125,700	111,400	97,810	84,460	72,890

	Calendar Year 2010	Water Year 2011
Mean	152,100	140,900
Max	189,500	188,300
Min	64,960	72,890

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