



Water-Data Report 2008

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BOAT HARBOR, UT

Great Salt Lake Basin
Great Salt Lake Subbasin

LOCATION.--Lat 40°43'53", long 112°12'46" referenced to North American Datum of 1927, in NE ¼ SW ¼ NW ¼ sec.17, T.1 S., R.3 W., Salt Lake County, UT, Hydrologic Unit 16020310, at State Park Saltair Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City. (Gage temporarily located 0.4 mi to the southeast, from Apr. 1984 to May 30, 1985, because of problems associated with highwater, then relocated 0.1 mi to the northeast from May 30, 1985 to August 9, 1989 because of highway construction. Gage relocated to boat harbor marina on August 9, 1989).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WDR-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82. WDR-UT-95-1: 1984-94. WDR-UT-2001-1: 1984-2000.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft above NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft above NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft above NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft above NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft above NGVD OF 1929, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft above NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft above NGVD of 1929. Datums since September 15, 1970, from levels run to USGS/National Geodetic Survey Benchmarks C-174 (1970) and E-174 (1970).

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after October 1989.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.60 ft, Jun 3, 1986, Apr 1, 15, 1987; minimum, 4,191.35 ft, Oct 15, Nov 1, 1963. Maximum elevation prior to Jun 3, 1986, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

Date	Water Temperature (°C)	Specific Gravity	Percent Salinity
Nov 6	13.0	1.109	15.6
Jan 4	0.5	1.108	15.5
Feb 29	7.0	1.102	14.7
Jun 3	20.0	1.098	14.2
Aug 21	25.5	1.112	16.0

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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	4,195.3	4,195.1	4,195.0	4,195.2	4,195.4	4,195.8	4,196.0	4,196.0	4,196.0	4,195.7	4,195.0	4,194.5
2	4,195.1	4,195.1	4,195.0	4,195.3	4,195.4	4,195.9	4,196.0	4,195.9	4,196.0	4,195.7	4,195.0	4,194.4
3	4,195.1	4,195.1	4,195.0	4,195.2	4,195.3	4,195.7	4,196.1	4,195.9	4,196.0	4,195.6	4,195.0	4,194.4
4	4,195.1	4,195.1	4,195.0	4,195.1	4,195.4	4,195.9	4,196.0	4,195.9	4,196.1	4,195.6	4,195.0	4,194.4
5	4,195.2	4,195.1	4,195.0	4,195.2	4,195.4	4,195.8	4,196.1	4,195.9	4,196.1	4,195.6	4,195.0	4,194.4
6	4,195.2	4,195.1	4,195.1	4,195.3	4,195.4	4,195.8	4,196.0	4,195.9	4,196.0	4,195.6	4,194.9	4,194.3
7	4,195.2	4,195.1	4,195.1	4,195.3	4,195.5	4,195.8	4,196.1	4,196.0	4,196.0	4,195.6	4,194.9	4,194.3
8	4,195.1	4,195.1	4,195.2	4,195.3	4,195.4	4,195.8	4,196.0	4,195.9	4,195.9	4,195.6	4,194.9	4,194.3
9	4,195.2	4,195.1	4,195.2	4,195.4	4,195.4	4,195.9	4,196.2	4,196.0	4,195.9	4,195.5	4,194.8	4,194.3
10	4,195.2	4,195.1	4,195.2	4,195.3	4,195.4	4,195.9	4,196.1	4,195.9	4,196.0	4,195.5	4,194.9	4,194.3
11	4,195.2	4,195.2	4,195.3	4,195.3	4,195.4	4,195.9	4,196.1	4,195.9	4,196.0	4,195.5	4,194.9	4,194.3
12	4,195.1	4,195.1	4,195.2	4,195.3	4,195.4	4,195.9	4,196.0	4,196.0	4,195.9	4,195.5	4,194.8	4,194.2
13	4,195.2	4,195.1	4,195.2	4,195.3	4,195.6	4,195.9	4,196.0	4,195.9	4,195.9	4,195.4	4,194.8	4,194.2
14	4,195.1	4,195.1	4,195.2	4,195.3	4,195.7	4,196.0	4,195.9	4,195.9	4,195.9	4,195.4	4,194.8	4,194.2
15	4,195.1	4,195.1	4,195.1	4,195.5	4,195.5	4,196.0	4,196.1	4,196.0	4,195.9	4,195.4	4,194.8	4,194.2
16	4,195.2	4,195.1	4,195.2	4,195.4	4,195.5	4,196.2	4,196.0	4,195.9	4,195.9	4,195.3	4,194.7	4,194.2
17	4,195.2	4,195.1	4,195.2	4,195.3	4,195.5	4,196.1	4,196.0	4,195.9	4,195.9	4,195.3	4,194.6	4,194.2
18	4,195.2	4,195.1	4,195.2	4,195.3	4,195.5	4,195.9	4,196.0	4,195.9	4,195.9	4,195.3	4,194.6	4,194.2
19	4,195.1	4,195.1	4,195.2	4,195.3	4,195.5	4,196.0	4,195.9	4,195.9	4,195.9	4,195.3	4,194.6	4,194.2
20	4,195.3	4,195.2	4,195.2	4,195.4	4,195.5	4,196.0	4,196.1	4,195.9	4,195.9	4,195.3	4,194.6	4,194.2
21	4,195.2	4,195.1	4,195.4	4,195.4	4,195.5	4,196.0	4,195.9	4,196.0	4,195.8	4,195.3	4,194.6	4,194.2
22	4,195.1	4,195.1	4,195.2	4,195.4	4,195.5	4,196.1	4,195.9	4,196.0	4,195.9	4,195.3	4,194.6	4,194.2
23	4,195.1	4,195.2	4,195.2	4,195.4	4,195.5	4,196.0	4,196.0	4,195.9	4,195.8	4,195.3	4,194.5	4,194.1
24	4,195.1	4,195.1	4,195.3	4,195.4	4,195.5	4,196.0	4,196.1	4,195.8	4,195.8	4,195.2	4,194.5	4,194.1
25	4,195.1	4,195.0	4,195.3	4,195.4	4,195.6	4,196.0	4,196.0	4,195.9	4,195.8	4,195.2	4,194.5	4,194.1
26	4,195.1	4,195.1	4,195.2	4,195.4	4,195.6	4,196.1	4,196.0	4,195.9	4,195.8	4,195.2	4,194.5	4,194.1
27	4,195.1	4,195.1	4,195.3	4,195.2	4,195.6	4,196.1	4,195.9	4,195.9	4,195.8	4,195.1	4,194.4	4,194.1
28	4,195.1	4,195.1	4,195.2	4,195.3	4,195.6	4,196.0	4,195.9	4,196.0	4,195.8	4,195.1	4,194.5	4,194.1
29	4,195.1	4,195.0	4,195.2	4,195.4	4,195.6	4,196.1	4,195.9	4,195.9	4,195.8	4,195.1	4,194.4	4,194.1
30	4,195.2	4,195.1	4,195.3	4,195.5	---	4,196.0	4,196.1	4,195.9	4,195.7	4,195.1	4,194.4	4,194.1
31	4,195.2	---	4,195.3	4,195.3	---	4,196.1	---	4,195.9	---	4,195.1	4,194.3	---
Mean	4,195.2	4,195.1	4,195.2	4,195.3	4,195.5	4,196.0	4,196.0	4,195.9	4,195.9	4,195.4	4,194.7	4,194.2
Max	4,195.3	4,195.2	4,195.4	4,195.5	4,195.7	4,196.2	4,196.2	4,196.0	4,196.1	4,195.7	4,195.0	4,194.5
Min	4,195.1	4,195.0	4,195.0	4,195.1	4,195.3	4,195.7	4,195.9	4,195.8	4,195.7	4,195.1	4,194.3	4,194.1

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