

In the format provided by the authors and unedited.

Decline of the world's saline lakes

**Wayne A. Wurtsbaugh, Craig Miller, Sarah E. Null, R. Justin DeRose, Peter Wilcock,
Maura Hahnenberger, Frank Howe and Johnnie Moore**

Decline of the world's saline lakes. Wurtsbaugh et al. Nature Geoscience

Volumes and percent of maximum volumes of saline lakes shown in Figure 2.

Aral Sea			Great Salt Lake			Owens Lake			Lake Urmia			Walker Lake, NV			Dead Sea		
Year	Average Volume (km ³)	% of maximum volume	Year	Average Volume (km ³)	% of maximum volume	Year	Average Volume (km ³)	% of maximum volume	Year	Average Volume (km ³)	% of maximum volume	Year	Average Volume (km ³)	% of maximum volume	Year	Average Volume (km ³)	% of maximum volume
1910	1031.7	97.6%	1847	18.82	52.8%	1856	2.956	100.0%	1910	12.78	39.6%	1882	11.14	100.0%	1837	149.7	94.7%
1911	1052.1	99.5%	1848	19.61	55.0%	1872	2.956	100.0%	1920	11.49	35.6%	1908	10.71	96.2%	1841	150.2	95.0%
1912	1054.0	99.7%	1849	19.74	55.4%	1878	2.956	100.0%	1930	15.92	49.3%	1909	10.76	96.6%	1845	148.9	94.2%
1913	1047.0	99.0%	1850	19.81	57.4%	1884	1.869	63.2%	1940	12.78	39.6%	1910	10.46	93.9%	1849	149.3	94.5%
1914	1048.3	99.2%	1851	20.83	60.3%	1894	1.869	63.2%	1950	19.69	61.0%	1911	10.80	96.9%	1853	149.7	94.7%
1915	1050.8	99.4%	1852	22.38	62.8%	1902	1.207	40.8%	1960	14.11	43.7%	1912	10.63	95.4%	1857	151.8	96.0%
1916	1043.1	98.7%	1853	24.76	65.5%	1903	1.029	34.8%	1965	12.78	39.6%	1913	10.46	93.9%	1861	150.2	95.0%
1917	1027.8	97.2%	1854	24.26	67.4%	1904	0.861	29.1%	1970	25.20	78.0%	1914	10.80	96.9%	1865	149.3	94.7%
1918	1002.5	94.8%	1855	24.54	67.9%	1905	0.635	21.5%	1975	24.68	76.4%	1915	10.76	96.6%	1869	151.4	95.8%
1919	1003.7	94.9%	1856	24.31	66.4%	1906	0.697	23.6%	1980	20.66	64.0%	1916	10.78	96.8%	1873	151.0	95.5%
1920	999.9	94.6%	1857	23.27	64.2%	1907	0.947	32.0%	1985	18.74	58.0%	1917	10.80	96.9%	1878	150.2	95.0%
1921	1010.1	95.5%	1858	21.97	61.6%	1908	1.135	38.4%	1990	22.14	68.6%	1918	10.63	95.4%	1882	152.7	96.6%
1922	1018.3	96.3%	1859	20.49	58.8%	1910	1.181	39.9%	1995	32.29	100.0%	1919	10.38	93.2%	1886	157.6	99.7%
1923	1033.6	97.8%	1860	19.77	58.3%	1911	1.286	43.5%	1996	30.40	94.2%	1920	10.24	92.0%	1890	152.7	96.6%
1924	1035.5	97.9%	1861	19.42	58.5%	1912	1.330	45.0%	1997	28.33	87.7%	1921	10.06	90.3%	1894	158.1	100.0%
1925	1043.1	98.7%	1862	22.31	60.9%	1913	1.256	42.5%	1998	27.34	84.7%	1922	9.98	89.6%	1898	159.3	100.8%
1926	1034.8	97.9%	1863	22.38	64.7%	1913	1.256	42.5%	1999	21.00	65.1%	1923	9.82	88.1%	1902	157.6	99.7%
1927	1025.3	97.0%	1864	24.77	70.1%	1914	0.056	1.9%	2000	16.06	49.8%	1924	9.58	86.0%	1906	157.2	99.4%
1928	1022.7	96.7%	1865	26.48	75.1%	1945	0.044	1.5%	2001	11.96	37.0%	1925	9.42	84.6%	1910	158.1	100.0%
1929	1024.7	96.9%	1866	29.01	81.7%	1950	0.017	0.6%	2002	10.19	31.6%	1926	9.00	80.8%	1914	158.1	100.0%
1930	1024.7	96.9%	1867	31.37	87.8%	1955	0.012	0.4%	2003	11.24	34.8%	1927	8.89	79.8%	1918	158.9	100.5%
1931	1016.4	96.1%	1868	34.14	92.4%	1960	0.022	0.7%	2004	10.65	33.0%	1928	8.45	75.8%	1922	158.1	100.0%
1932	1029.7	97.4%	1869	35.59	95.6%	1965	0.003	0.1%	2005	9.75	30.2%	1929	8.25	74.1%	1927	157.2	99.4%
1933	1036.1	98.0%	1870	34.70	98.5%	1970	0.213	7.2%	2006	7.93	24.6%	1930	8.06	72.3%	1931	158.5	100.2%
1934	1038.0	98.2%	1871	34.68	99.9%	1975	0.007	0.2%	2007	7.74	24.0%	1931	7.80	70.0%	1935	156.4	98.9%
1935	1047.6	99.1%	1872	36.60	100.0%	1980	0.031	1.1%	2008	5.55	17.2%	1932	7.61	68.3%	1939	154.7	97.9%
1936	1045.1	98.8%	1873	36.69	99.2%	1985	0.012	0.4%	2009	3.78	11.7%	1933	7.40	66.4%	1943	154.3	97.6%
1937	1038.0	98.2%	1874	35.69	99.1%	1990	0.017	0.6%	2010	3.11	9.6%	1934	7.13	64.0%	1947	154.7	97.9%
1938	1029.7	97.4%	1875	33.33	97.9%	1995	0.022	0.7%	2011	2.18	6.7%	1935	6.92	62.1%	1951	155.1	98.1%
1939	1023.4	96.8%	1876	34.44	95.7%	2015	0.006	0.2%	2012	1.43	4.4%	1936	6.74	60.5%	1955	154.3	97.6%
1940	1010.7	95.6%	1877	34.48	92.0%				2013	0.92	2.9%	1937	6.56	58.9%	1959	152.7	96.6%
1941	1010.7	95.6%	1878	32.68	88.8%				2017	2.50	7.7%	1938	6.65	59.7%	1963	150.6	95.2%
1942	1013.2	95.8%	1879	29.15	84.7%							1939	6.73	60.4%	1967	148.9	94.2%
1943	1018.3	96.3%	1880	27.55	80.4%							1940	6.52	58.5%	1971	148.9	94.2%
1944	1013.2	95.8%	1881	27.28	76.3%							1941	6.41	57.5%	1976	146.8	92.9%
1945	1015.8	96.1%	1882	26.77	74.6%							1942	6.39	57.4%	1980	143.1	90.5%
1946	1025.3	97.0%	1883	25.40	75.3%							1943	6.35	57.0%	1984	140.2	88.7%
1947	1018.3	96.3%	1884	26.12	76.6%							1944	6.19	55.5%	1988	138.1	87.4%
1948	1003.7	94.9%	1885	28.69	77.8%							1945	6.08	54.6%	1992	139.4	88.1%
1949	1011.3	95.7%	1886	29.67	78.6%							1946	6.05	54.3%	1996	138.7	87.7%
1950	1020.2	96.5%	1887	28.88	77.5%							1947	5.89	52.9%	2000	129.7	82.0%
1951	1013.9	95.9%	1888	26.75	74.6%							1948	5.70	51.2%	2002	126.8	80.2%
1952	1012.0	95.7%	1889	24.21	70.9%							1949	5.48	49.2%	2004	124.8	78.9%
1953	1022.7	96.7%	1890	23.47	67.1%							1950	5.29	47.5%	2006	122.2	77.3%
1954	1039.3	98.3%	1891	23.07	64.4%							1951	5.18	46.5%	2008	119.3	75.5%
1955	1041.9	98.5%	1892	22.13	63.1%							1952	5.17	46.4%	2009	117.7	74.5%
1956	1045.7	98.9%	1893	22.01	61.8%							1954	4.99	44.8%			
1957	1043.8	98.7%	1894	21.95	60.4%							1955	4.83	43.3%			
1958	1041.9	98.5%	1895	21.04	59.6%							1956	4.80	43.1%			
1959	1049.5	99.3%	1896	20.51	58.7%							1957	4.77	42.8%			
1960	1057.2	100.0%	1897	20.80	57.5%							1958	4.70	42.2%			
1961	1050.2	99.3%	1898	20.40	56.6%							1959	4.63	41.6%			
1962	1029.7	97.4%	1899	19.77	55.2%							1960	4.40	39.5%			
1963	1006.9	95.2%	1900	19.45	52.4%							1961	4.24	38.0%			
1964	999.3	94.5%	1901	18.09	49.7%							1962	4.13	37.0%			
1965	988.0	93.4%	1902	15.84	47.5%							1963	4.01	36.0%			
1966	961.7	91.0%	1903	15.46	45.2%							1964	3.93	35.3%			
1967	941.9	89.1%	1904	15.90	43.9%							1965	3.83	34.4%			
1968	921.6	87.2%	1905	15.36	45.3%							1966	3.79	34.1%			
1969	924.6	87.5%	1906	15.71	47.6%							1967	3.76	33.8%			
1970	933.2	88.3%	1907	18.31	50.7%							1968	3.77	33.9%			
1971	910.5	86.1%	1908	19.63	55.1%							1969	3.92	35.2%			
1972	879.0	83.1%	1909	21.48	58.8%							1970	3.98	35.7%			
1973	859.9	81.3%	1910	23.13	60.9%							1971	3.88	34.9%			
1974	837.9	79.3%	1911	22.41	62.4%							1972	3.75	33.7%			
1975	789.0	74.6%	1912	22.01	63.2%							1973	3.66	32.8%			
1976	746.9	70.7%	1913	22.22	62.8%							1974	3.59	32.2%			
1977	711.5	67.3%	1914	22.89	62.4%							1975	3.53	31.7%			
1978	680.6	64.4%	1915	22.42	62.7%							1976	3.44	30.9%			
1979	648.2	61.3%	1916	21.79	63.1%							1977	3.32	29.8%			
1980	612.1	57.9%	1917	22.51	62.4%							1978	3.14	28.2%			
1981	583.5	55.2%	1918	22.94	61.4%							1979	3.02	27.1%			
1982	545.0	51.6%	1919	21.56	61.6%							1980	3.01	27.0%			
1983	505.7	47.8%	1920	20.77	62.3%							1981	3.00	26.9%			
1984	469.7	44.4%	1921	22.16	63.5%							1982	2.97	26.6%			
1985	434.9	41.1%	1922	23.76	65.3%							1983	3.42	30.7%			

Figure 3a data. Gauged discharges in the Blacksmith Fork River and estimated flows in the Bear River based on DeRose et al. 2015

Bear River, Utah, flow based on tree-ring estimates			Blacksmith Fork River, Utah		
Year	Estimated mean annual discharge (m ³ /sec)	Fraction of mean	Year	Mean annual discharge (m ³ /sec)	Fraction of mean
1878	3.93	0.67	.	.	.
1879	3.26	1.02	.	.	.
1880	4.97	0.87	.	.	.
1881	4.23	0.81	.	.	.
1882	3.95	0.90	.	.	.
1883	4.41	1.10	.	.	.
1884	5.39	1.27	.	.	.
1885	6.22	1.02	.	.	.
1886	4.99	0.90	.	.	.
1887	4.38	0.57	.	.	.
1888	2.78	0.48	.	.	.
1889	2.36	0.87	.	.	.
1890	4.24	0.66	.	.	.
1891	3.21	0.67	.	.	.
1892	3.28	0.78	.	.	.
1893	3.82	0.92	.	.	.
1894	4.51	0.94	.	.	.
1895	4.58	0.91	.	.	.
1896	4.43	0.95	.	.	.
1897	4.64	1.05	.	.	.
1898	5.14	1.04	.	.	.
1899	5.10	0.80	.	.	.
1900	3.89	0.96	.	.	.
1901	4.69	0.74	.	.	.
1902	3.64	0.73	.	.	.
1903	3.58	1.03	.	.	.
1904	5.06	0.68	.	.	.
1905	3.34	1.15	.	.	.
1906	5.63	1.34	.	.	.
1907	6.57	1.21	.	.	.
1908	5.94	1.14	.	.	.
1909	5.55	0.87	.	.	.
1910	4.26	0.80	.	.	.
1911	3.90	0.87	.	.	.
1912	4.24	0.82	.	.	.
1913	4.02	1.14	.	.	.
1914	5.56	0.80	1914	4.72	1.45
1915	3.93	1.07	1915	2.45	0.76
1916	5.25	0.82	1916	4.82	1.48
1917	3.99	0.68	1917	5.99	1.84

Figure 3a data. Gauged discharges in the Blacksmith Fork River and estimated flows in the Bear River based on DeRose et al. 2015

Bear River, Utah, flow based on tree-ring estimates			Blacksmith Fork River, Utah		
Year	Estimated mean annual discharge (m ³ /sec)	Fraction of mean	Year	Mean annual discharge (m ³ /sec)	Fraction of mean
1918	3.32	0.59	1918	2.88	0.89
1919	2.87	0.88	1919	2.76	0.85
1920	4.30	1.11	1920	4.53	1.39
1921	5.42	1.04	1921	6.18	1.90
1922	5.08	1.17	1922	5.44	1.67
1923	5.72	0.89	1923	5.40	1.66
1924	4.35	0.89	1924	3.37	1.04
1925	4.35	0.67	1925	3.37	1.04
1926	3.29	0.87	1926	2.53	0.78
1927	4.24	0.94	1927	3.57	1.10
1928	4.60	0.95	1928	3.52	1.08
1929	4.66	0.76	1929	3.47	1.07
1930	3.73	0.49	1930	2.46	0.76
1931	2.41	0.90	1931	1.57	0.48
1932	4.39	0.61	1932	4.23	1.30
1933	3.00	0.40	1933	2.84	0.87
1934	1.98	0.71	1934	1.47	0.45
1935	3.48	0.84	1935	2.11	0.65
1936	4.09	0.94	1936	4.52	1.39
1937	4.59	0.90	1937	3.37	1.04
1938	4.41	0.85	1938	3.48	1.07
1939	4.14	0.69	1939	2.29	0.70
1940	3.38	0.95	1940	1.70	0.52
1941	4.66	0.90	1941	1.49	0.46
1942	4.38	1.22	1942	1.82	0.56
1943	5.97	1.22	1943	3.48	1.07
1944	5.97	0.95	1944	2.29	0.71
1945	4.66	1.09	1945	2.94	0.90
1946	5.33	1.40	1946	5.02	1.55
1947	6.84	1.03	1947	3.03	0.93
1948	5.03	1.17	1948	4.05	1.25
1949	5.72	1.39	1949	3.86	1.19
1950	6.81	1.33	1950	5.70	1.75
1951	6.48	1.24	1951	5.28	1.62
1952	6.04	1.05	1952	5.78	1.78
1953	5.11	0.69	1953	3.32	1.02
1954	3.37	0.58	1954	2.59	0.80
1955	2.86	0.98	1955	2.87	0.88
1956	4.79	1.28	1956	4.29	1.32
1957	6.26	0.91	1957	4.06	1.25

Figure 3a data. Gauged discharges in the Blacksmith Fork River and estimated flows in the Bear River based on DeRose et al. 2015

Bear River, Utah, flow based on tree-ring estimates			Blacksmith Fork River, Utah		
Year	Estimated mean annual discharge (m ³ /sec)	Fraction of mean	Year	Mean annual discharge (m ³ /sec)	Fraction of mean
1958	4.43	0.94	1958	3.72	1.14
1959	4.62	0.87	1959	2.55	0.78
1960	4.27	0.54	1960	2.57	0.79
1961	2.66	1.00	1961	1.62	0.50
1962	4.91	1.03	1962	3.48	1.07
1963	5.04	1.16	1963	2.43	0.75
1964	5.69	1.13	1964	2.98	0.92
1965	5.54	0.80	1965	4.62	1.42
1966	3.92	1.28	1966	3.03	0.93
1967	6.24	1.23	1967	4.12	1.27
1968	6.01	1.25	1968	3.28	1.01
1969	6.13	1.38	1969	3.71	1.14
1970	6.76	1.43	1970	3.15	0.97
1971	7.00	1.47	1971	6.69	2.06
1972	7.19	1.44	1972	6.63	2.04
1973	7.06	1.38	1973	3.95	1.21
1974	6.77	1.45	1974	5.05	1.55
1975	7.07	1.11	1975	4.57	1.41
1976	5.45	0.73	1976	3.91	1.20
1977	3.56	1.21	1977	1.80	0.55
1978	5.92	0.71	1978	3.53	1.08
1979	3.45	1.11	1979	3.05	0.94
1980	5.43	1.18	1980	4.33	1.33
1981	5.77	1.35	1981	2.23	0.69
1982	6.58	1.52	1982	5.52	1.70
1983	7.42	1.51	1983	6.26	1.93
1984	7.37	1.51	1984	8.45	2.60
1985	7.37	1.71	1985	5.18	1.59
1986	8.36	1.07	1986	7.77	2.39
1987	5.22	0.89	1987	3.00	0.92
1988	4.35	1.12	1988	2.08	0.64
1989	5.47	0.82	1989	2.39	0.73
1990	4.00	1.05	1990	1.53	0.47
1991	5.14	0.86	1991	2.02	0.62
1992	4.19	1.12	1992	1.41	0.43
1993	5.49	0.80	1993	3.58	1.10
1994	3.93	1.31	1994	2.39	0.74
1995	6.41	1.09	1995	3.72	1.14
1996	5.31	1.23	1996	4.37	1.34
1997	6.03	1.43	Missing from USGS Record		

Figure 3a data. Gauged discharges in the Blacksmith Fork River and estimated flows in the Bear River based on DeRose et al. 2015

Bear River, Utah, flow based on tree-ring estimates			Blacksmith Fork River, Utah		
Year	Estimated mean annual discharge (m ³ /sec)	Fraction of mean	Year	Mean annual discharge (m ³ /sec)	Fraction of mean
1998	6.99	1.26	Missing from USGS Record		
1999	6.17	0.91	Missing from USGS Record		
2000	4.44	0.78	2000	2.55	0.78
2001	3.83	0.72	2001	1.95	0.60
2002	3.52	0.82	2002	1.91	0.59
2003	4.02	0.77	2003	1.77	0.54
2004	3.77	1.07	2004	1.64	0.50
2005	5.23	0.89	2005	3.69	1.13
2006	4.35	0.84	2006	4.33	1.33
2007	4.09	0.99	2007	2.14	0.66
2008	4.86	1.30	2008	2.67	0.82
2009	6.36	1.16	2009	3.14	0.97
2010	5.66	1.41	2010	2.20	0.68
2011	6.90	0.76	2011	7.32	2.25
2012	3.73	0.71	2012	2.69	0.83
2013	3.45	0.00	2013	1.82	0.56
			2014	2.34	0.72

Decline of the world's saline lakes. Fig. 3b data.

**Estimated depletions (water loss) from human development in Great Salt Lake basin
Utah Division of Water Resources, Salt Lake City**

Year	Water Use (depletions) (Billion m ³ /year)					Imports (Billion m ³ /year)	Net Depletion (use - imports) (Billion m ³ /year)
	Agriculture	Municipal	Reservoir	Mineral	Wetland		
1850	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1851	0.03	0.00	0.00	0.00	0.00	0.00	0.03
1852	0.06	0.00	0.00	0.00	0.00	0.00	0.06
1853	0.09	0.00	0.00	0.00	0.00	0.00	0.09
1854	0.12	0.00	0.00	0.00	0.00	0.00	0.12
1855	0.15	0.00	0.00	0.00	0.00	0.00	0.15
1856	0.17	0.00	0.00	0.00	0.00	0.00	0.18
1857	0.20	0.00	0.00	0.00	0.00	0.00	0.21
1858	0.23	0.00	0.00	0.00	0.00	0.00	0.23
1859	0.26	0.00	0.00	0.00	0.00	0.00	0.26
1860	0.28	0.00	0.00	0.00	0.00	0.00	0.29
1861	0.31	0.00	0.00	0.00	0.00	0.00	0.31
1862	0.33	0.00	0.00	0.00	0.00	0.00	0.34
1863	0.36	0.00	0.00	0.00	0.00	0.00	0.36
1864	0.38	0.00	0.00	0.00	0.00	0.00	0.39
1865	0.41	0.01	0.00	0.00	0.00	0.00	0.41
1866	0.43	0.01	0.00	0.00	0.00	0.00	0.44
1867	0.46	0.01	0.00	0.00	0.00	0.00	0.46
1868	0.48	0.01	0.00	0.00	0.00	0.00	0.49
1869	0.50	0.01	0.00	0.00	0.00	0.00	0.51
1870	0.52	0.01	0.00	0.00	0.00	0.00	0.54
1871	0.55	0.01	0.00	0.00	0.00	0.00	0.56
1872	0.57	0.01	0.00	0.00	0.00	0.00	0.58
1873	0.59	0.01	0.00	0.00	0.00	0.00	0.60
1874	0.61	0.01	0.00	0.00	0.00	0.00	0.63
1875	0.64	0.02	0.00	0.00	0.00	0.00	0.65
1876	0.66	0.01	0.00	0.00	0.00	0.00	0.67
1877	0.68	0.01	0.00	0.00	0.00	0.00	0.70
1878	0.70	0.01	0.00	0.00	0.00	0.00	0.72
1879	0.72	0.02	0.00	0.00	0.00	0.00	0.74
1880	0.75	0.02	0.00	0.00	0.00	0.00	0.76
1881	0.77	0.02	0.00	0.00	0.00	0.00	0.78
1882	0.79	0.02	0.00	0.00	0.00	0.00	0.80
1883	0.81	0.02	0.00	0.00	0.00	0.00	0.83
1884	0.83	0.02	0.00	0.00	0.00	0.00	0.85
1885	0.85	0.02	0.00	0.00	0.00	0.00	0.87
1886	0.87	0.01	0.00	0.00	0.00	0.00	0.89
1887	0.89	0.01	0.00	0.00	0.00	0.00	0.90
1888	0.91	0.02	0.00	0.00	0.00	0.00	0.92

Year	Water Use (depletions) (Billion m ³ /year)					Imports (Billion m ³ /year)	Net Depletion (use - imports) (Billion m ³ /year)
	Agriculture	Municipal	Reservoir	Mineral	Wetland		
1889	0.93	0.02	0.00	0.00	0.00	0.00	0.95
1890	0.95	0.02	0.00	0.00	0.00	0.00	0.97
1891	0.97	0.02	0.00	0.00	0.00	0.00	0.99
1892	0.99	0.02	0.00	0.00	0.00	0.00	1.01
1893	1.01	0.02	0.00	0.00	0.00	0.00	1.03
1894	1.03	0.02	0.00	0.00	0.00	0.00	1.05
1895	1.05	0.02	0.00	0.00	0.00	0.00	1.07
1896	1.07	0.02	0.00	0.00	0.00	0.00	1.09
1897	1.09	0.02	0.01	0.00	0.00	0.00	1.12
1898	1.10	0.02	0.01	0.00	0.00	0.00	1.13
1899	1.12	0.02	0.01	0.00	0.00	0.00	1.15
1900	1.14	0.02	0.01	0.00	0.00	0.00	1.17
1901	1.16	0.02	0.01	0.00	0.02	0.00	1.21
1902	1.18	0.02	0.01	0.00	0.02	0.00	1.23
1903	1.20	0.02	0.01	0.00	0.03	0.00	1.25
1904	1.22	0.02	0.01	0.00	0.03	0.00	1.28
1905	1.24	0.02	0.01	0.00	0.03	0.00	1.30
1906	1.25	0.02	0.01	0.00	0.03	0.07	1.24
1907	1.27	0.02	0.01	0.00	0.03	0.07	1.26
1908	1.29	0.02	0.01	0.00	0.03	0.07	1.27
1909	1.30	0.02	0.01	0.00	0.03	0.07	1.29
1910	1.32	0.03	0.01	0.00	0.04	0.07	1.32
1911	1.34	0.03	0.01	0.00	0.04	0.07	1.34
1912	1.35	0.02	0.00	0.00	0.04	0.07	1.35
1913	1.37	0.03	0.00	0.00	0.04	0.07	1.37
1914	1.39	0.03	0.00	0.00	0.04	0.07	1.39
1915	1.40	0.02	0.00	0.00	0.04	0.07	1.40
1916	1.42	0.03	0.00	0.00	0.04	0.07	1.42
1917	1.43	0.02	0.00	0.00	0.04	0.07	1.43
1918	1.45	0.03	0.00	0.00	0.04	0.07	1.45
1919	1.45	0.02	0.01	0.00	0.04	0.07	1.45
1920	1.45	0.02	0.01	0.00	0.04	0.07	1.45
1921	1.45	0.03	0.01	0.00	0.04	0.07	1.45
1922	1.44	0.02	0.01	0.00	0.04	0.07	1.45
1923	1.44	0.03	0.01	0.00	0.04	0.07	1.44
1924	1.43	0.03	0.01	0.00	0.04	0.07	1.43
1925	1.42	0.03	0.01	0.00	0.04	0.07	1.43
1926	1.41	0.03	0.01	0.00	0.04	0.07	1.42
1927	1.40	0.03	0.01	0.00	0.04	0.07	1.42
1928	1.40	0.03	0.01	0.00	0.04	0.07	1.41
1929	1.39	0.04	0.01	0.00	0.04	0.07	1.41
1930	1.39	0.04	0.01	0.00	0.05	0.07	1.41
1931	1.38	0.04	0.01	0.00	0.10	0.07	1.46

Year	Water Use (depletions) (Billion m ³ /year)					Imports (Billion m ³ /year)	Net Depletion (use - imports) (Billion m ³ /year)
	Agriculture	Municipal	Reservoir	Mineral	Wetland		
1932	1.37	0.04	0.01	0.00	0.10	0.07	1.46
1933	1.37	0.04	0.02	0.00	0.10	0.06	1.47
1934	1.36	0.05	0.02	0.00	0.12	0.03	1.52
1935	1.36	0.05	0.02	0.00	0.12	0.05	1.49
1936	1.35	0.05	0.02	0.00	0.12	0.05	1.49
1937	1.35	0.06	0.02	0.00	0.13	0.06	1.49
1938	1.34	0.06	0.02	0.00	0.14	0.07	1.50
1939	1.34	0.06	0.02	0.00	0.14	0.08	1.49
1940	1.34	0.06	0.02	0.00	0.17	0.06	1.53
1941	1.34	0.07	0.02	0.00	0.17	0.05	1.54
1942	1.34	0.07	0.02	0.00	0.17	0.06	1.53
1943	1.34	0.07	0.03	0.00	0.17	0.07	1.54
1944	1.34	0.07	0.03	0.00	0.17	0.07	1.54
1945	1.34	0.07	0.03	0.00	0.17	0.06	1.56
1946	1.35	0.07	0.03	0.00	0.17	0.08	1.54
1947	1.35	0.08	0.03	0.00	0.17	0.07	1.56
1948	1.35	0.08	0.03	0.00	0.17	0.08	1.56
1949	1.36	0.08	0.03	0.00	0.17	0.08	1.57
1950	1.36	0.08	0.03	0.00	0.17	0.08	1.58
1951	1.37	0.09	0.03	0.00	0.17	0.08	1.58
1952	1.38	0.09	0.03	0.00	0.18	0.06	1.61
1953	1.38	0.09	0.03	0.00	0.18	0.09	1.60
1954	1.39	0.10	0.03	0.00	0.18	0.13	1.57
1955	1.40	0.10	0.03	0.00	0.18	0.09	1.62
1956	1.40	0.11	0.03	0.00	0.18	0.12	1.60
1957	1.41	0.11	0.03	0.00	0.18	0.11	1.63
1958	1.42	0.12	0.03	0.00	0.18	0.10	1.65
1959	1.43	0.12	0.03	0.00	0.18	0.12	1.64
1960	1.44	0.13	0.03	0.00	0.18	0.13	1.65
1961	1.45	0.13	0.03	0.00	0.18	0.09	1.71
1962	1.46	0.14	0.03	0.00	0.18	0.12	1.70
1963	1.47	0.14	0.03	0.00	0.18	0.10	1.73
1964	1.48	0.15	0.04	0.00	0.18	0.11	1.74
1965	1.48	0.15	0.04	0.00	0.18	0.09	1.76
1966	1.48	0.15	0.05	0.00	0.18	0.12	1.75
1967	1.48	0.15	0.05	0.00	0.18	0.10	1.77
1968	1.48	0.16	0.06	0.00	0.18	0.08	1.79
1969	1.48	0.16	0.06	0.00	0.18	0.08	1.80
1970	1.48	0.16	0.06	0.00	0.18	0.12	1.77
1971	1.48	0.17	0.06	0.00	0.18	0.10	1.78
1972	1.48	0.17	0.06	0.00	0.18	0.13	1.76
1973	1.48	0.17	0.06	0.00	0.18	0.09	1.80
1974	1.48	0.17	0.06	0.00	0.18	0.10	1.79

Year	Water Use (depletions) (Billion m ³ /year)					Imports (Billion m ³ /year)	Net Depletion (use - imports) (Billion m ³ /year)
	Agriculture	Municipal	Reservoir	Mineral	Wetland		
1975	1.48	0.18	0.06	0.01	0.18	0.09	1.81
1976	1.48	0.18	0.06	0.01	0.18	0.12	1.79
1977	1.48	0.18	0.06	0.01	0.18	0.10	1.82
1978	1.48	0.18	0.05	0.02	0.18	0.10	1.81
1979	1.48	0.19	0.06	0.02	0.18	0.13	1.80
1980	1.48	0.19	0.06	0.02	0.18	0.09	1.84
1981	1.48	0.19	0.06	0.03	0.18	0.11	1.83
1982	1.48	0.19	0.06	0.03	0.18	0.07	1.87
1983	1.48	0.20	0.06	0.04	0.18	0.01	1.94
1984	1.48	0.20	0.06	0.04	0.18	0.02	1.94
1985	1.48	0.20	0.06	0.04	0.18	0.07	1.90
1986	1.48	0.20	0.06	0.00	0.18	0.07	1.86
1987	1.48	0.21	0.07	0.00	0.18	0.14	1.79
1988	1.48	0.21	0.07	0.00	0.18	0.26	1.68
1989	1.46	0.21	0.07	0.06	0.18	0.19	1.79
1990	1.51	0.21	0.07	0.08	0.18	0.14	1.93
1991	1.24	0.21	0.05	0.03	0.18	0.14	1.58
1992	1.40	0.21	0.07	0.10	0.18	0.17	1.79
1993	0.79	0.21	0.04	0.08	0.18	0.15	1.16
1994	1.40	0.21	0.08	0.09	0.18	0.14	1.82
1995	0.77	0.21	0.04	0.13	0.18	0.11	1.23
1996	1.25	0.21	0.07	0.17	0.18	0.12	1.77
1997	0.78	0.21	0.04	0.10	0.18	0.12	1.20
1998	0.81	0.21	0.04	0.07	0.18	0.12	1.21
1999	1.10	0.21	0.06	0.15	0.18	0.13	1.57
2000	1.60	0.21	0.08	0.19	0.18	0.14	2.13
2001	1.67	0.23	0.08	0.19	0.18	0.16	2.18
2002	1.38	0.23	0.07	0.19	0.18	0.17	1.89
2003	1.51	0.21	0.08	0.24	0.18	0.16	2.07
2004	1.07	0.21	0.06	0.19	0.18	0.18	1.54
2005	0.57	0.22	0.04	0.15	0.18	0.16	1.00
2006	1.17	0.22	0.06	0.19	0.18	0.12	1.70
2007	1.56	0.22	0.08	0.40	0.18	0.16	2.29
2008	1.35	0.22	0.06	0.13	0.18	0.14	1.81
2009	1.04	0.22	0.05	0.23	0.18	0.14	1.59
2010	1.36	0.22	0.06	0.23	0.18	0.16	1.89
2011	0.70	0.22	0.03	0.20	0.18	0.19	1.14
2012	1.47	0.22	0.08	0.29	0.18	0.20	2.04
2013	1.39	0.22	0.07	0.28	0.18	0.14	1.99

Decline of the world's saline lakes

Data for Figure 3c. Measured elevations in Gilbert Bay (data of U.S. Geological Survey) of Great Salt Lake and estimated natural lake elevations in the absence of water use for human consumption.

Year	Observed elevations in Gilbert Bay (m)	Modeled natural lake elevations for Gilbert Bay (m)
1847	1280.10	1280.10
1848	1280.28	1280.28
1849	1280.31	1280.31
1850	1280.33	1280.33
1851	1280.56	1280.56
1852	1280.89	1280.91
1853	1281.38	1281.41
1854	1281.28	1281.33
1855	1281.33	1281.40
1856	1281.29	1281.39
1857	1281.07	1281.21
1858	1280.80	1280.97
1859	1280.48	1280.70
1860	1280.31	1280.58
1861	1280.24	1280.54
1862	1280.88	1281.22
1863	1280.89	1281.29
1864	1281.38	1281.78
1865	1281.71	1282.12
1866	1282.19	1282.59
1867	1282.61	1283.03
1868	1283.10	1283.55
1869	1283.35	1283.83
1870	1283.19	1283.73
1871	1283.19	1283.77
1872	1283.51	1284.12
1873	1283.53	1284.17
1874	1283.36	1284.05
1875	1282.96	1283.72
1876	1283.15	1283.93
1877	1283.16	1284.00
1878	1282.85	1283.74
1879	1282.21	1283.20
1880	1281.92	1282.94
1881	1281.86	1282.88
1882	1281.77	1282.79
1883	1281.50	1282.56
1884	1281.64	1282.69
1885	1282.13	1283.13

Data for Figure 3c. Measured elevations in Gilbert Bay (data of U.S. Geological Survey) of Great Salt Lake and estimated natural lake elevations in the absence of water use for human consumption.

Year	Observed elevations in Gilbert Bay (m)	Modeled natural lake elevations for Gilbert Bay (m)
1886	1282.31	1283.33
1887	1282.16	1283.23
1888	1281.76	1282.90
1889	1281.27	1282.48
1890	1281.12	1282.37
1891	1281.03	1282.32
1892	1280.84	1282.19
1893	1280.81	1282.20
1894	1280.80	1282.23
1895	1280.60	1282.11
1896	1280.49	1282.04
1897	1280.55	1282.14
1898	1280.46	1282.10
1899	1280.32	1282.03
1900	1280.24	1282.01
1901	1279.92	1281.77
1902	1279.32	1281.29
1903	1279.22	1281.19
1904	1279.34	1281.28
1905	1279.19	1281.15
1906	1279.29	1281.22
1907	1279.97	1281.85
1908	1280.29	1282.20
1909	1280.70	1282.60
1910	1281.05	1282.92
1911	1280.90	1282.82
1912	1280.81	1282.78
1913	1280.86	1282.85
1914	1281.00	1282.99
1915	1280.90	1282.94
1916	1280.76	1282.86
1917	1280.92	1283.01
1918	1281.01	1283.12
1919	1280.71	1282.91
1920	1280.55	1282.80
1921	1280.84	1283.05
1922	1281.18	1283.34
1923	1281.41	1283.54
1924	1281.41	1283.55
1925	1281.30	1283.48
1926	1281.20	1283.42

Data for Figure 3c. Measured elevations in Gilbert Bay (data of U.S. Geological Survey) of Great Salt Lake and estimated natural lake elevations in the absence of water use for human consumption.

Year	Observed elevations in Gilbert Bay (m)	Modeled natural lake elevations for Gilbert Bay (m)
1927	1280.97	1283.25
1928	1280.70	1283.04
1929	1280.50	1282.89
1930	1280.33	1282.75
1931	1279.98	1282.50
1932	1279.71	1282.28
1933	1279.51	1282.11
1934	1279.00	1281.68
1935	1278.66	1281.33
1936	1278.61	1281.18
1937	1278.78	1281.23
1938	1278.82	1281.22
1939	1278.80	1281.17
1940	1278.55	1280.95
1941	1278.58	1280.87
1942	1278.78	1280.97
1943	1278.77	1280.96
1944	1278.80	1280.98
1945	1278.82	1280.98
1946	1279.02	1281.15
1947	1279.14	1281.29
1948	1279.23	1281.41
1949	1279.33	1281.55
1950	1279.54	1281.78
1951	1279.83	1282.09
1952	1280.12	1282.40
1953	1280.10	1282.45
1954	1279.69	1282.19
1955	1279.34	1281.93
1956	1279.24	1281.87
1957	1279.11	1281.77
1958	1279.05	1281.73
1959	1278.74	1281.49
1960	1278.37	1281.20
1961	1277.96	1280.91
1962	1277.95	1280.83
1963	1277.76	1280.68
1964	1277.96	1280.77
1965	1278.28	1280.92
1966	1278.47	1281.14
1967	1278.37	1281.17

Data for Figure 3c. Measured elevations in Gilbert Bay (data of U.S. Geological Survey) of Great Salt Lake and estimated natural lake elevations in the absence of water use for human consumption.

Year	Observed elevations in Gilbert Bay (m)	Modeled natural lake elevations for Gilbert Bay (m)
1968	1278.57	1281.36
1969	1278.94	1281.67
1970	1278.88	1281.69
1971	1279.29	1282.06
1972	1279.73	1282.45
1973	1280.03	1282.72
1974	1280.20	1282.88
1975	1280.30	1282.99
1976	1280.50	1283.18
1977	1280.12	1282.91
1978	1279.92	1282.81
1979	1279.77	1282.72
1980	1279.93	1282.87
1981	1279.95	1282.91
1982	1280.16	1283.12
1983	1281.31	1284.04
1984	1282.52	1284.84
1985	1282.87	1284.91
1986	1283.34	1285.05
1987	1283.31	1284.97
1988	1282.54	1284.57
1989	1281.38	1283.78
1990	1281.04	1283.56
1991	1280.59	1283.27
1992	1280.17	1283.01
1993	1280.14	1283.01
1994	1279.85	1282.74
1995	1279.86	1282.74
1996	1279.95	1282.77
1997	1280.27	1283.00
1998	1280.80	1283.36
1999	1281.08	1283.56
2000	1280.83	1283.40
2001	1280.27	1283.09
2002	1279.72	1282.78
2003	1279.13	1282.41
2004	1278.69	1282.15
2005	1278.93	1282.25
2006	1279.22	1282.36
2007	1279.05	1282.27
2008	1278.66	1282.04

Data for Figure 3c. Measured elevations in Gilbert Bay (data of U.S. Geological Survey) of Great Salt Lake and estimated natural lake elevations in the absence of water use for human consumption.

Year	Observed elevations in Gilbert Bay (m)	Modeled natural lake elevations for Gilbert Bay (m)
2009	1278.63	1281.98
2010	1278.54	1281.91
2011	1279.25	1282.39
2012	1279.39	1282.47
2013	1278.83	1282.13
2014	1278.41	1281.87
2015	1278.21	1281.78

Decline of the world's saline lakes

Figure 5 data, showing the current areas of three lakes, the target areas when the desired elevation is reached, and the river inflow necessary to sustain evaporation from that lake area. Annual climatic variations would cause considerable variation in the areas and inflows of the lake. The data thus represent a quasi-equilibrium mean status.

System	Current Area (km ²)	Target Area (km ²)	Target elevation (m)	Current mean river inflow	Target mean river inflow	Increase in flows needed
Great Salt Lake (USA)	2175	4349	1280	3.50	4.53	29%
Urmia (Iran)	1000	4500	1274	2.31	4.23	83%
Walker Lake (USA)	80	130	1205	0.136	0.168	24%

Decline of the World's saline lakes

Methods Section. Supplementary data Table 1, showing the estimated areas of agricultural use for different crops in the Great Salt Lake Basin during the last 30 years, and the mean, minimum and maximum estimated water usage in different parts of the basin. These data were used to estimate the agricultural water depletion in the basin shown in Figure 3b.

	Alfalfa	Pasture	Hay	Grain	Corn
	Area (km²)				
	2666	2527	1364	1379	418
	Water consumption for each crop type (m yr⁻¹)				
Mean	0.75	0.57	0.70	0.54	0.49
Minimum	0.27	0.14	0.24	0.08	0.13
Maximum	0.99	0.74	0.91	0.63	0.66