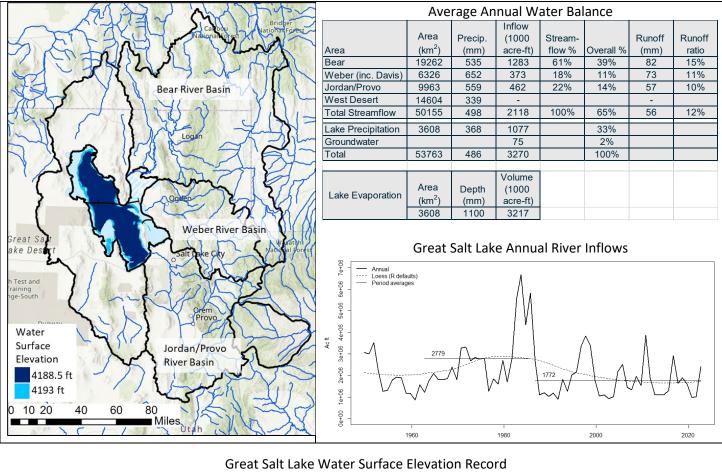
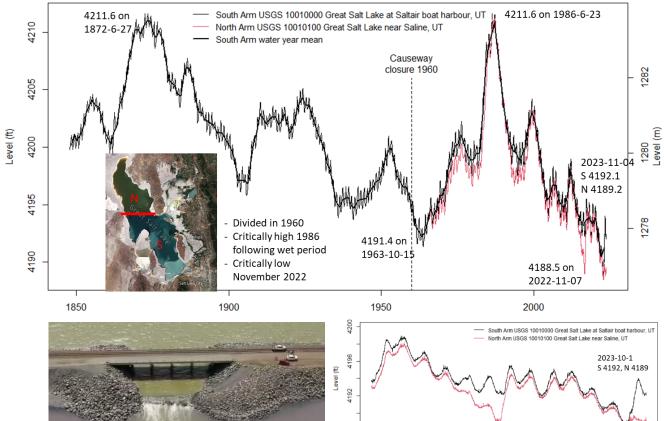
## Somewhat Geeky Great Salt Lake Fact Sheet

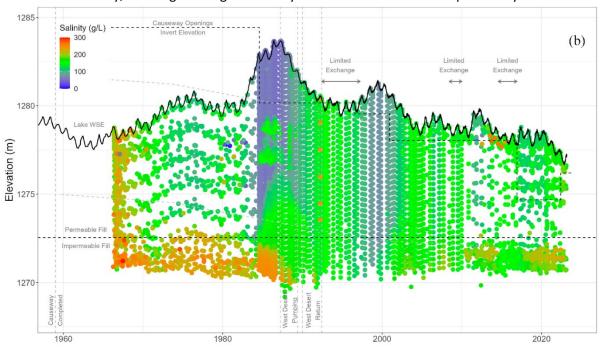
Prepared by David Tarboton, 11/12/23





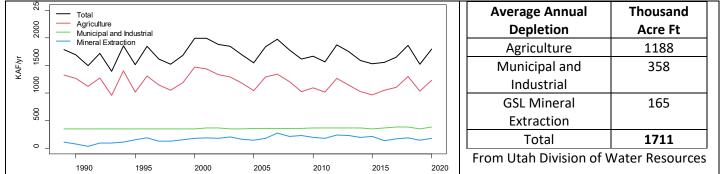
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2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023



Salinity, exchange through causeway and the occurrence of deep brine layer

Basin Wide Water Use



## GSL management considerations

- Brine shrimp industry
- Mineral industries. Lithium, Magnesium, Potash
- Dust from exposed lake bed (and contaminants in the dust)
- Ecosystem Birds, especially migratory
- Managed wetlands (Private duck clubs)
- Flooding (west desert pumping in 1986)
- Recreation

## Sources and Links

Great Salt Lake Strike Team: <u>https://gardner.utah.edu/great-salt-lake-strike-team/</u> Tarboton Conference presentation: <u>https://hydrology.usu.edu/dtarb/Tarboton-SRC-March-2023.pdf</u> Great Salt Lake: <u>https://greatsaltlake.utah.gov/</u> Utah Division of Water Resources: <u>https://water.utah.gov/great-salt-lake/</u> Merck and Tarboton 2023: <u>http://doi.org/10.3390/w15081488</u> Mohammed and Tarboton 2012: <u>http://dx.doi.org/10.1029/2012WR011908</u> Wurtsbaugh et al. 2017: <u>https://doi.org/10.1038/ngeo3052</u> Abbott et al. 2003: <u>https://pws.byu.edu/great-salt-lake</u> Loving et al. 2000: <u>https://doi.org/10.3133/wri004221</u> Great Salt Lake State Park: https://stateparks.utah.gov/parks/great-salt-lake/