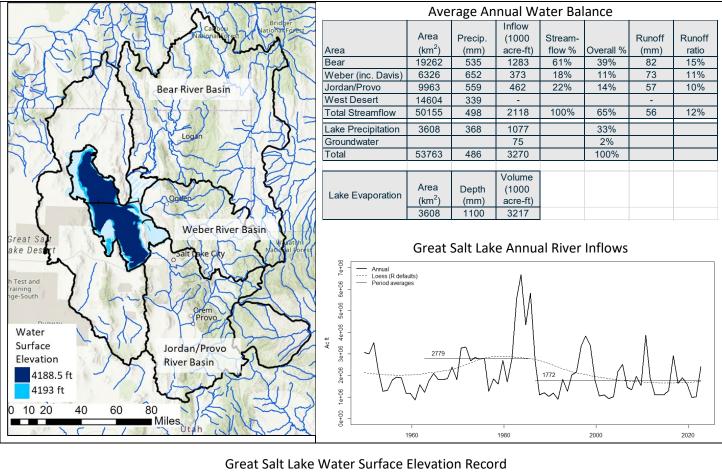
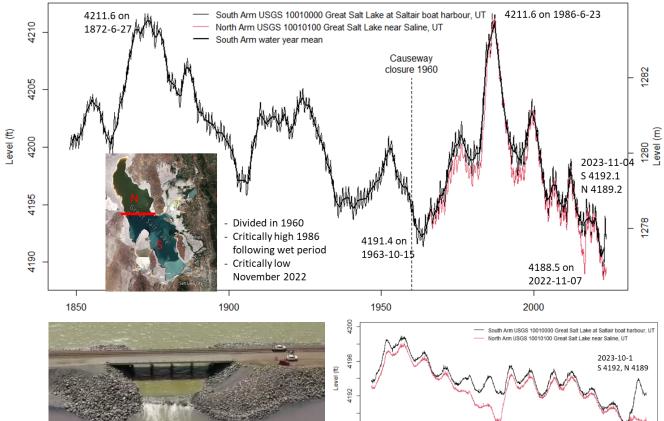
Somewhat Geeky Great Salt Lake Fact Sheet

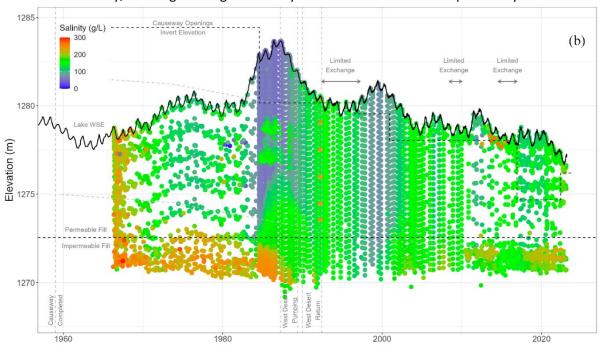
Prepared by David Tarboton, 11/12/23





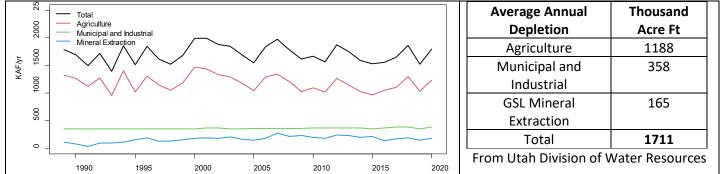
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2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023



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/