

# Combined Lake Powell-Lake Mead Plots

David E. Rosenberg

July 6, 2021

## Description

This is an R Markdown document. This document shows plots of combined Lake Powell-Lake Mead storage over time.

1. Line plot of the Lake Mead, Lake Powell, and combined storage over time.
2. A stacked area plot of combined storage capacity, combined storage, Lake Mead conservation account balances, and Protection levels over time. This plot is used in the request for contributions document.

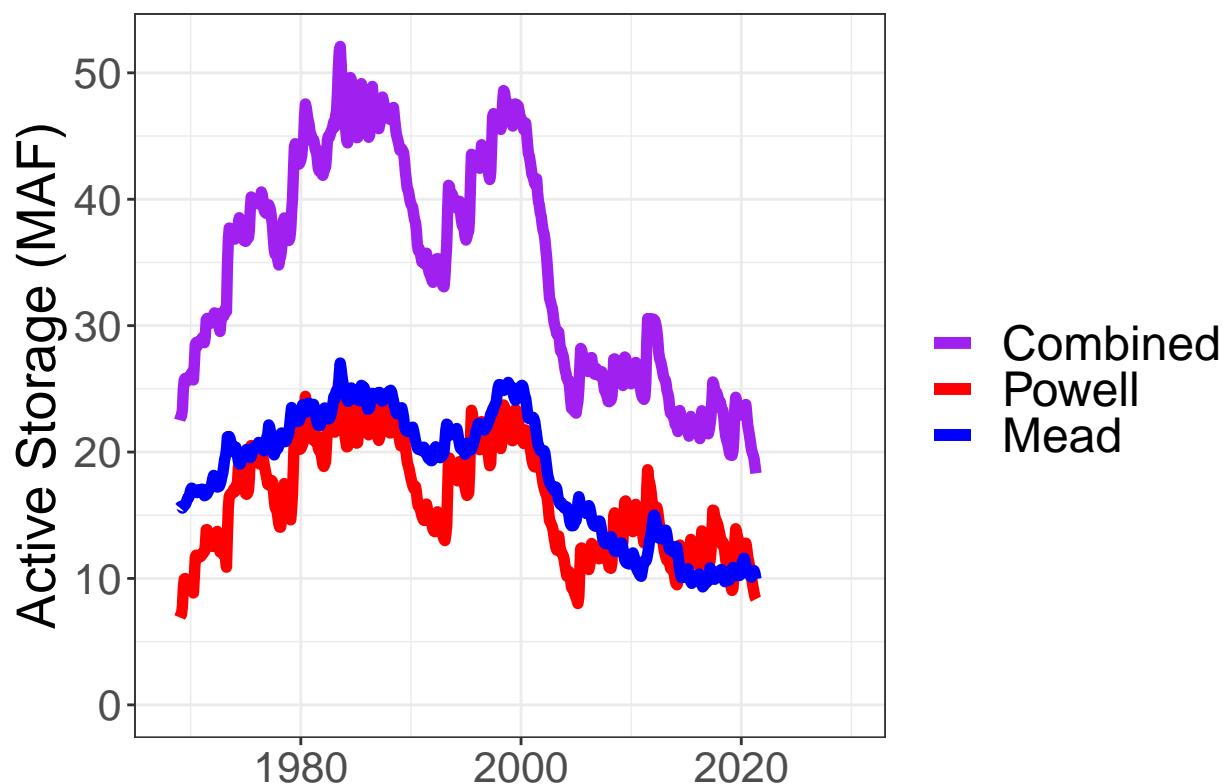
Data are from:

1. Storage elevation curves for Lake Powell and Lake Mead: Colorado River Simulation System (Wheeler et al 2019). MeadDroughtContingencyPlan.xlsx.
2. Lake Powell storage: USBR (2021). “Water Operations: Historic Data, Upper Colorado River Division.” U.S. Bureau of Reclamation. <https://www.usbr.gov/rsrvWater/HistoricalApp.html> (PowellDataUSBRMay2021.csv).
3. Lake Mead storage: USBR (2021). “LAKE MEAD AT HOOVER DAM, END OF MONTH ELEVATION (FEET)”. Lower Colorado River Operations, U.S. Bureau of Reclamation <https://www.usbr.gov/lc/region/g4000/hourly/mead-elv.html> (MeadLevel.xlsx).
4. Lake Mead conservation account balances : USBR (2020). “Boulder Canyon Operations Office - Program and Activities: Water Accounting Reports”. <https://www.usbr.gov/lc/region/g4000/wtracct.html>. (IntentionallyCreatedSurplus-Summary.xlsx)

## Requested Citation

David E. Rosenberg (2021), “Combined Lake Powell-Lake Mead plots.” Utah State University. Logan, Utah. <https://github.com/dzeke/ColoradoRiverFutures/tree/master/CombinedPowellMead>.

Figure 1. Lake Mead, Lake Powell, and combined storage over time



**Figure 2. Combined storage, available water, and combined protect elevation**

