

Lake Powell Releases

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Overview

This is an R Markdown document. This document reads daily USBR data on Lake Powell Releases (Auto download daily data from Reclamation's HydroData portal - https://www.usbr.gov/uc/water/hydrodata/reservoir_data/site_map.html. The code aggregates data to yearly (water year starting Oct 1), and decadal values and then compares Lake Powell releases to The 1922 Compact Article 3(d) requirement. The document also shows histograms of Powell inflows and releases.

- 10-year 74.8 maf requirement: Upper Basin delivers to Lower Basin by Article 3(d) of 1922 Compact
- 10-year 82.3 maf requirement: Upper Basin delivers to Lower Basin by 1922 Compact Article 3(d) and half of 1.5 maf per year United States obligation to Mexico by 1944 Treaty.

Figures.

- Figure 1: Lake Powell Annual Releases Compared to Targets
- Figure 2: Lake Powell 10-year Releases Compared to Targets

Requested Citation

David E. Rosenberg (2026), "Lake Powell Annual and 10-Year Releases." Utah State University. Logan, Utah. <https://github.com/dzeke/ColoradoRiverFutures/tree/master/Powell10year>.

```
## tidyverse      readxl RColorBrewer      dplyr      expss      reshape2
## TRUE          TRUE    TRUE            TRUE        TRUE        TRUE
## pracma        lubridate directlabels    plyr       stringr     ggplot2
## TRUE          TRUE    TRUE            TRUE        TRUE        TRUE
## ggpubr        ggrepel   zoo
## TRUE          TRUE    TRUE
```

Figure 1: Lake Powell Annual Releases Compared to Targets

```
## [1] "I made it here"
```

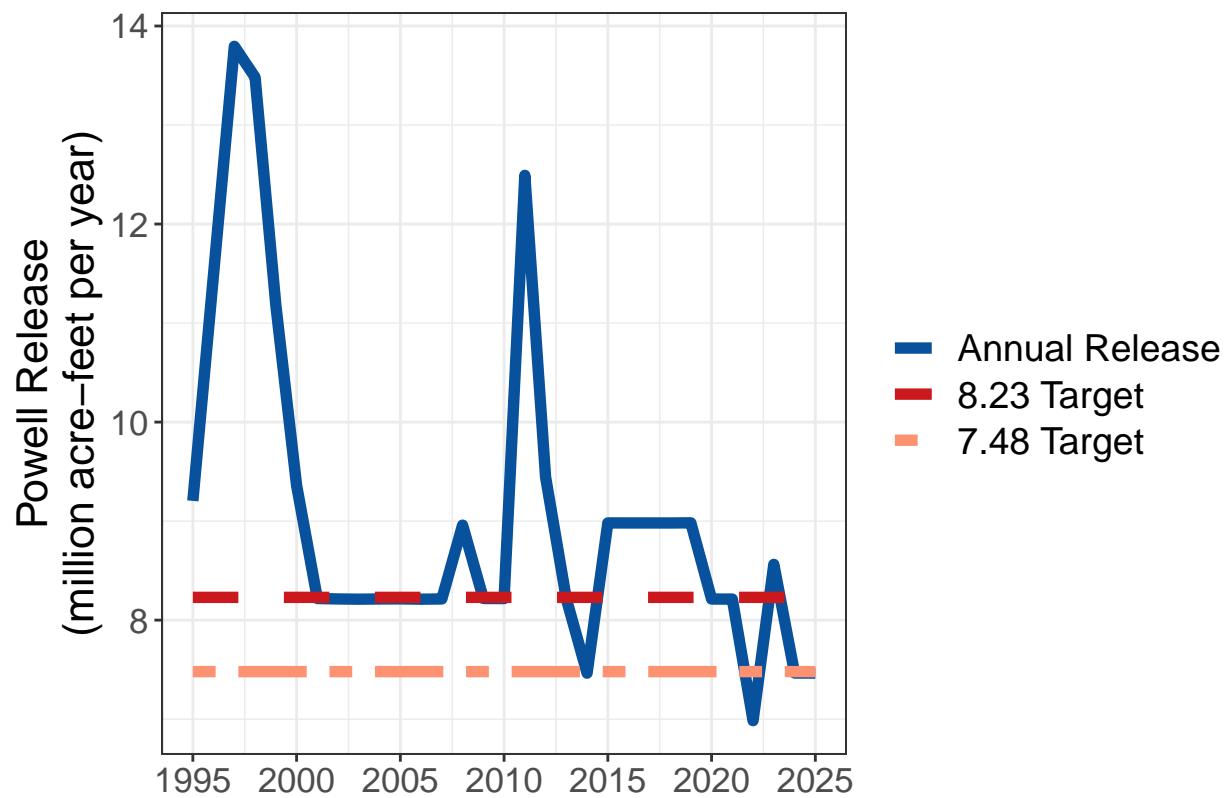


Figure 2. Ten-Year Powell Release compared to 10-year Targets

