Colorado River Basin Water Accounts: 1-page summary

Why Care

- 26 Colorado River managers and experts constructively improved basin water accounts as a framework to transition emergency reservoir operations into more sustainable, equitable, and adaptive water uses.
- Time commitment was 1 to 3 hours per participant during Summer and Fall 2021.
- In an online session, up to 6 participants together consumed, saved, and traded water in six basin accounts in a combined Lake Powell-Lake Mead water bank (Figure 1).
- At each session end, participants shared what they liked and what to improve (Figure 2).

New Features Contributed to Basin Management

- 1. Counted all evaporation and evapotranspiration from Lake Powell down to U.S.-Mexico border.
- 2. First Nations and Colorado River Delta accounts.
- **3.** A jointly managed *Shared Reserve* controlled reservoir drawdown below critical levels.
- **4.** Participants choose each year's Lake Powell natural flow (Figure 3).
- **5.** Political decisions to implement framework:
 - a. Decide number and extent of accounts.
 - **b.** Divide current reservoir storage above critical levels among accounts.
 - c. Divide each year's basin natural flow.
 - **d.** Divide end-of-year combined storage between Lake Powell and Lake Mead.

Share Materials with other Parties

- Model repository, Let's Start Guide, and Linked Online Help (Hydroshare.org).
- 10 Lessons Learned (Digital Commons).

Next Steps

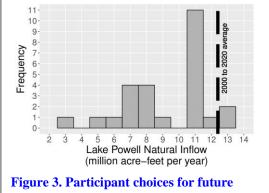
- 1. Downscale to a monthly timestep annual reservoir operations that adapt to basin flows.
- 2. With basin stakeholders and experts, learn to measure and build trust and collaborations as a foundation to co-generate and validate additional frameworks to transition to more sustainable, equitable, and adaptive basin water uses so parties have choices going forward.

Natural inflow **Grand Canvon** to Lake Powell tributary flows **Lower Basin Upper Basin** Lake Mead Release Shared Reserve

Figure 1. Account balances were the water stored in a combined Lake Powell-Lake Mead bank (account balances not to scale).



Figure 2. What participants said.



Lake Powell natural flow.

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