

PURPOSE

RiverViz is a set of exploratory dashboards designed for evaluating projected reservoir conditions (e.g. pool elevation, storage volume, release volumes), energy generation potential at the major hydropower facilities, and water supply availability in the [Colorado River Basin](#).

RiverViz is designed to democratize access to [Colorado River Simulation System \(CRSS\)](#) model results through approachable and exploratory formats. Supporting public access to CRSS model results is critical to building inclusive and adaptive Colorado River Basin management.



MODEL



[CRSS](#) results powering **RiverViz** are based on a broad array of input hydrology traces developed by Reclamation, other scientists, and Virga Labs to account for a robust range of plausible hydrologic futures in the Basin.

See [Scenario 101](#) and [Scenario Methods](#) for more information.

CRSS is a [RiverWare™](#) based simulation model that simulates long-term (5+ year) Basin-wide conditions. CRSS projects water user deliveries and monthly conditions for 12 major reservoirs (e.g. pool elevation, storage volume, power release, power generation, spills, etc.) in addition to other Colorado River Basin conditions.

RiverViz visualizations are based on CRSS model outputs, i.e. slots. Please reach out to Virga for more information.

SCENARIO

Projected Colorado River Basin conditions are based on CRSS hydrology ensemble scenarios, or unique combinations of the following model inputs:

[Hydrology](#) | *Natural flow sequence for the 29 CRSS natural flow points*

[Demands](#) | *Upper Colorado River Basin CRSS water demand schedule*

[Initial Conditions](#) | *CRSS starting Colorado River Basin system condition values*

[Policy](#) | *CRSS ruleset that reflects Lake Powell and Lake Mead operations and record of decision requirements*

Additional CRSS hydrology ensemble scenarios will be added to the **RiverViz** suite as public discourse and management decisions evolve.

