

An aerial photograph of a large concrete dam situated in a deep, rugged canyon. The canyon walls are composed of layered, reddish-brown rock formations. The water behind the dam is a deep blue. The sky is clear and light blue. The text is overlaid on the upper and middle portions of the image.

Salt River Project Initiatives

WRRC Annual Conference

March 12, 2024

Roosevelt Dam Flood Control Space Temporary Operational Flexibility

Craig McGinnis, Water Rights & Contracts Analyst

Roosevelt Flood Control Space Temporary Operational Flexibility Project

- **Need:** Flexible, adaptable operations of existing infrastructure to respond to climate change, meet resource needs
- **Issue:** Temporal disconnect between flood events (supply) and summer months (demand)
- **Duration:** The five-year period immediately following authorization

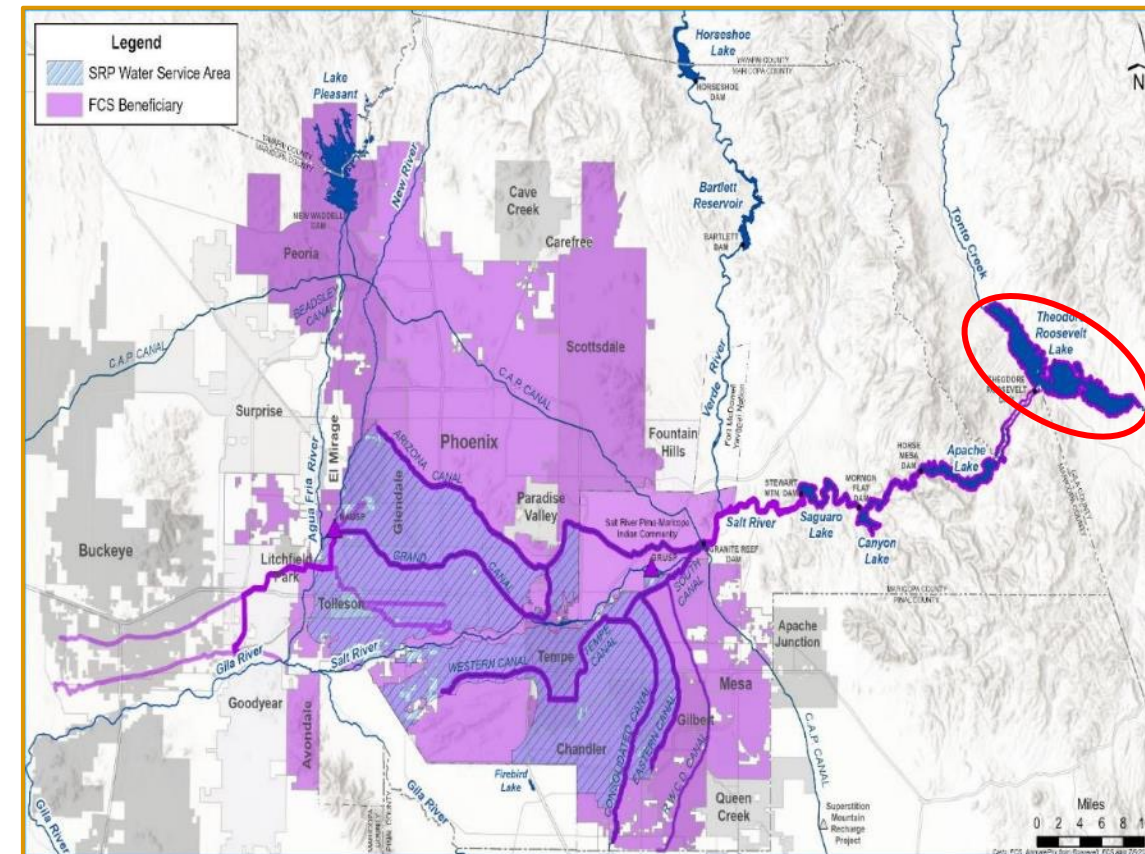
357'

SAFETY OF DAMS SPACE
357' - 1,223,169 AF

FLOOD CONTROL SPACE
314' - 556,206 AF

CONSERVATION STORAGE SPACE
290' - 1,631,532 AF

ROOSEVELT DAM



Roosevelt Flood Control Space Temporary Operational Flexibility Project

- **Solution:** Extend FCS evacuation period from 20 to 120 days, aligning:
 - Flood events during runoff period (*February–May*)
 - Highest water demand months (*May–September*)
 - Occurs a maximum of 3 times in 5 years
- **Benefits:** Water supply, optimized operations
 - Delays release of supplies to serve >300k households
 - Helps manage reduced Colorado River availability, reduces groundwater demands
 - Creates opportunities for improved management of regional supplies

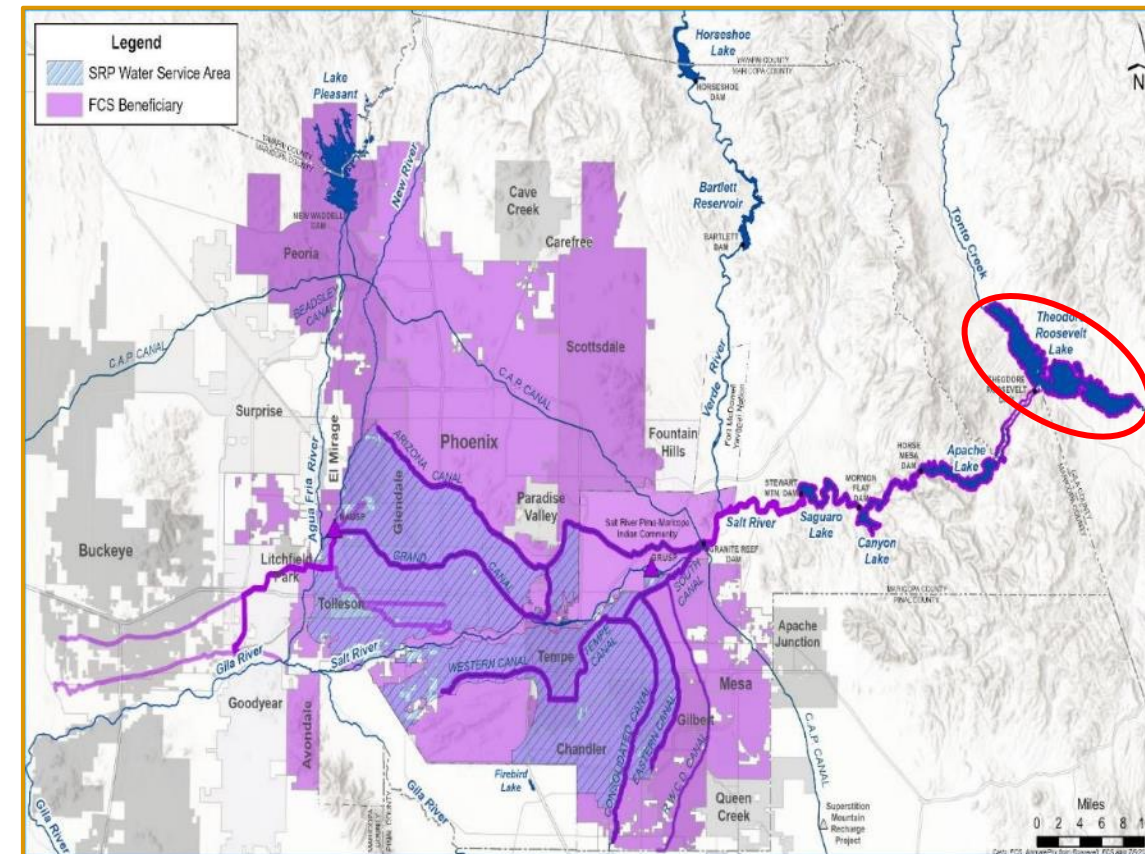
357'

SAFETY OF DAMS SPACE
357' - 1,223,169 AF

FLOOD CONTROL SPACE
314' - 556,206 AF

CONSERVATION STORAGE SPACE
290' - 1,631,532 AF

ROOSEVELT DAM



Salt River Water Yield with Improved Flood Ops (climate adjusted)

