



SRP Water Management



Delivering water and power™

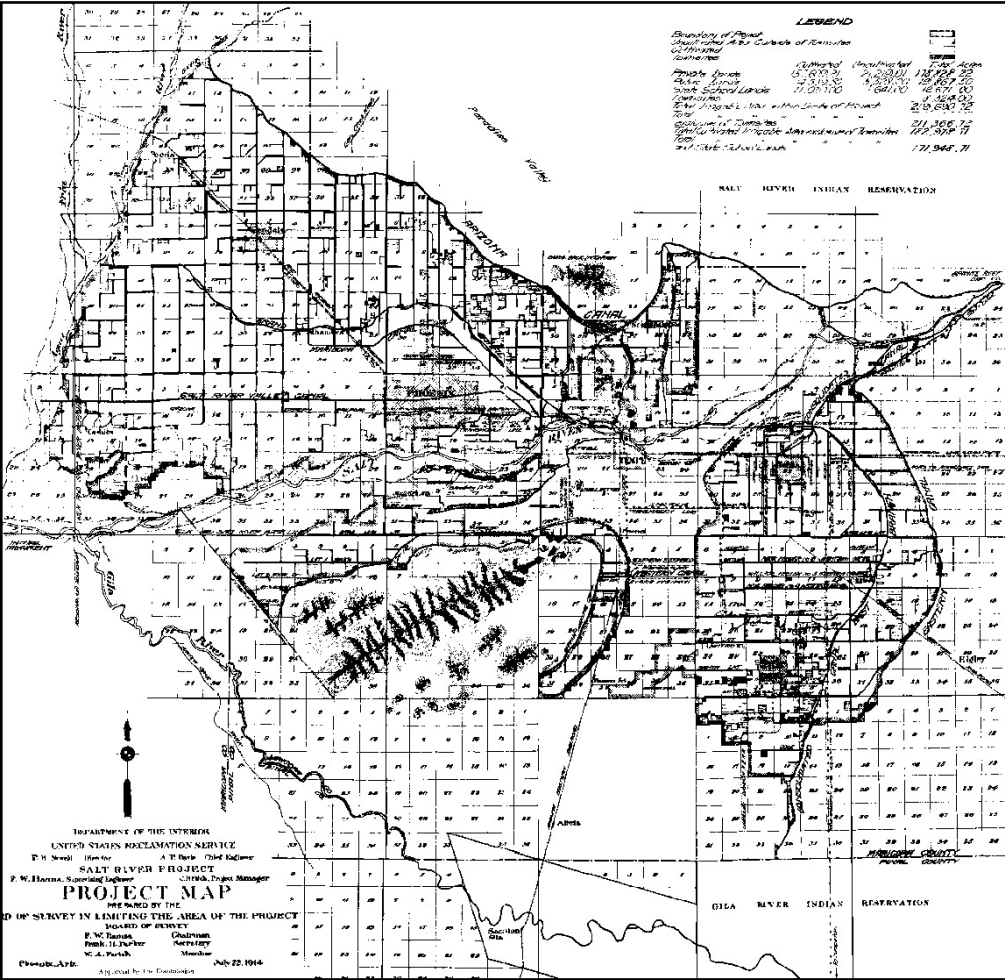
Tim Skarupa
Manager,
Watershed Management

February 29, 2024

Reclamation Act and the Association: 1902/1903



President Theodore Roosevelt



Board of Survey Map, 1914

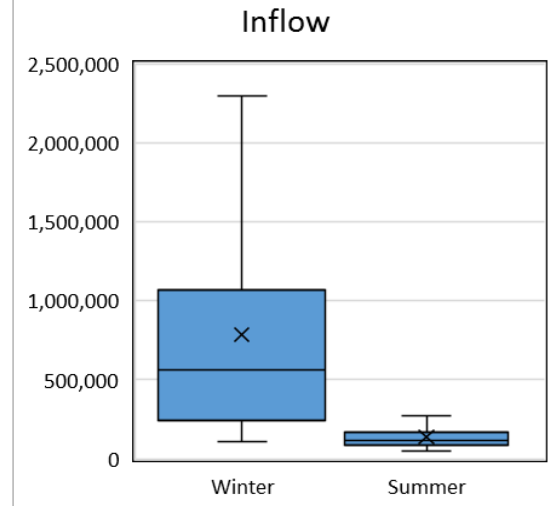
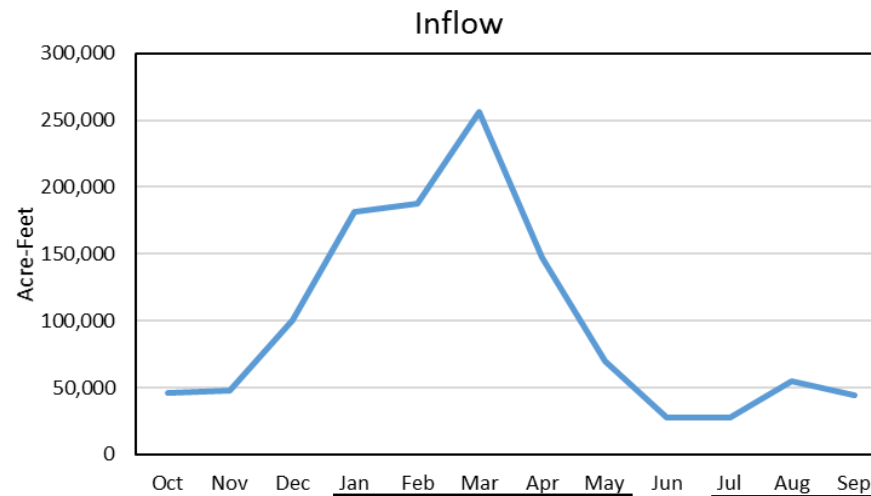
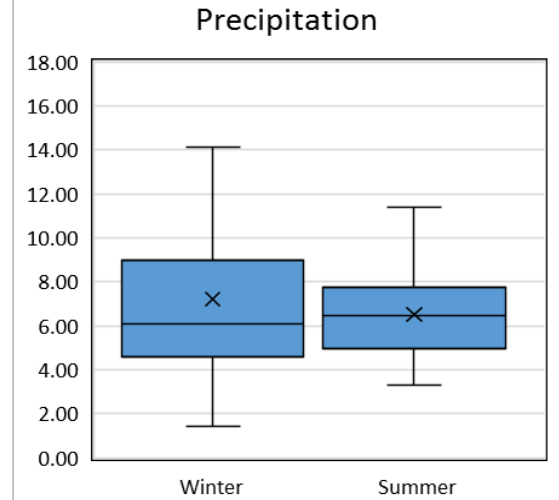
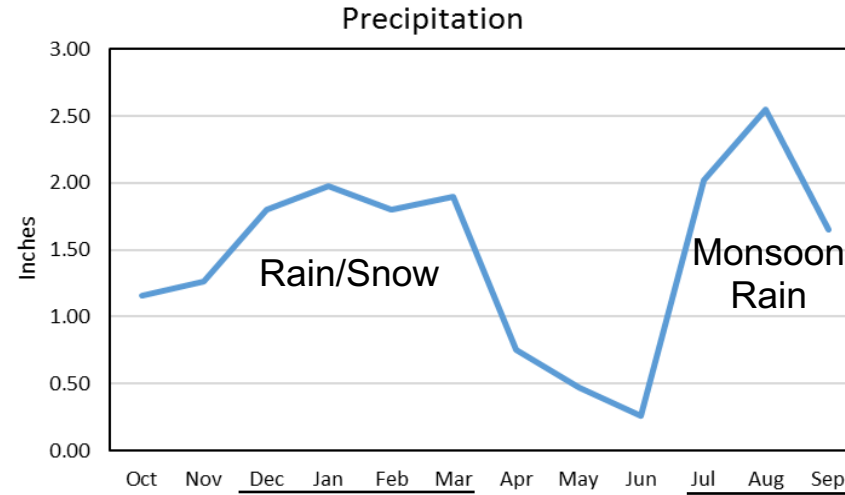
Salt and Verde Watershed Precipitation and Runoff

WINTER:

Precip. (Dec-Mar): 7.6 in
Runoff (Jan-May median): 534 Kaf

SUMMER:

Precip. (Jul-Sep): 6.4 in
Runoff (Jul-Sep median): 111 Kaf



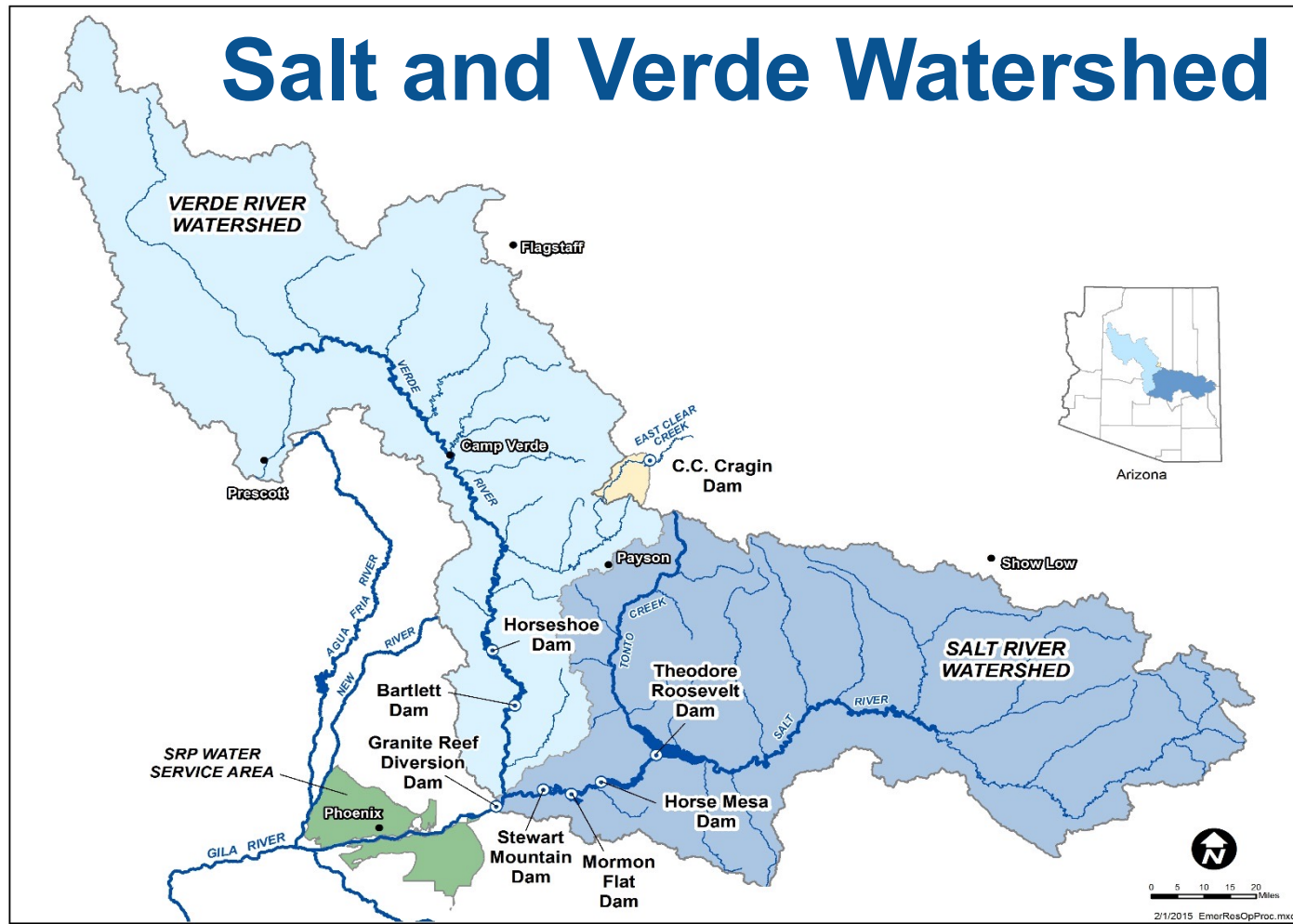
Salt and Verde Watershed



Horseshoe Dam



Bartlett Dam



C.C. Cragin Dam



Roosevelt Dam (~1.6 million AF)



Stewart Mountain Dam

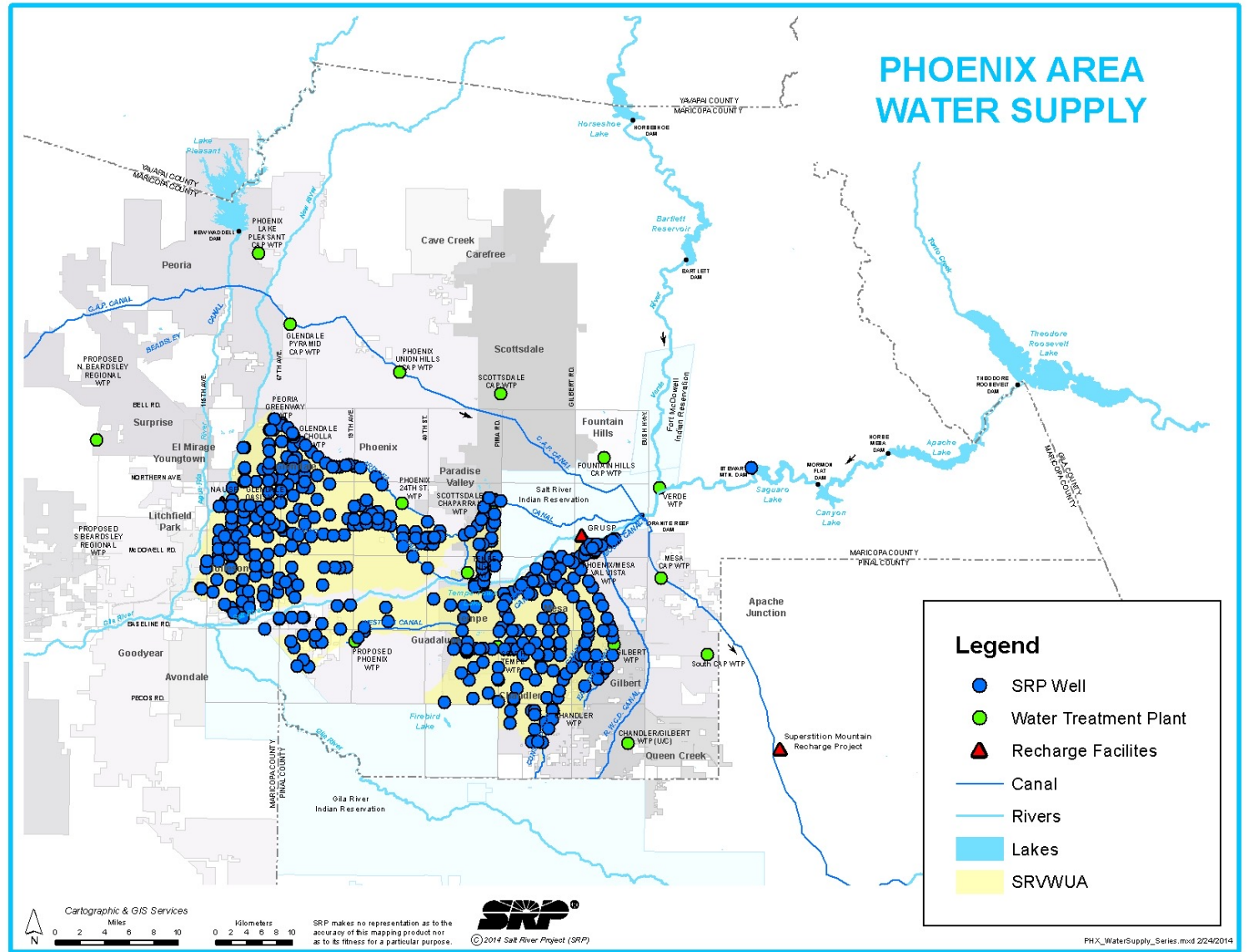


Mormon Flat Dam



Horse Mesa Dam

SRP Water Delivery System



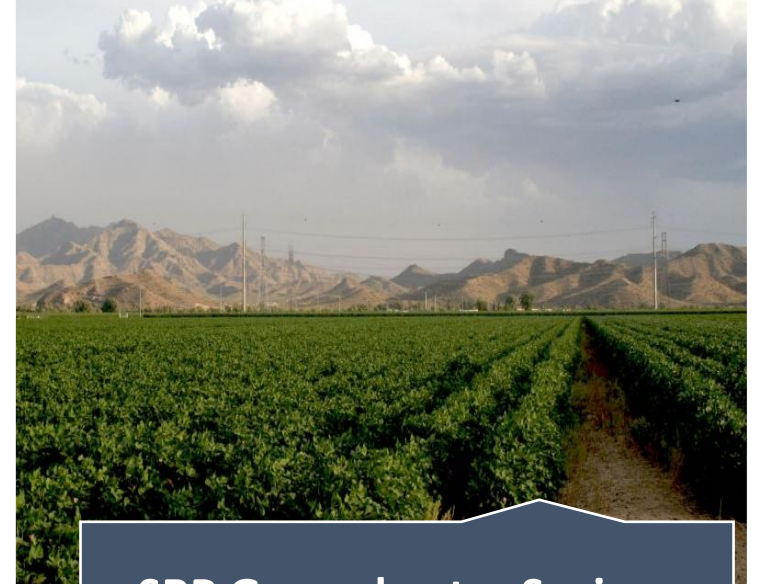
Underground Storage



Granite Reef Underground Storage Project



New River-Agua Fria Underground Storage Project



SRP Groundwater Savings Facility

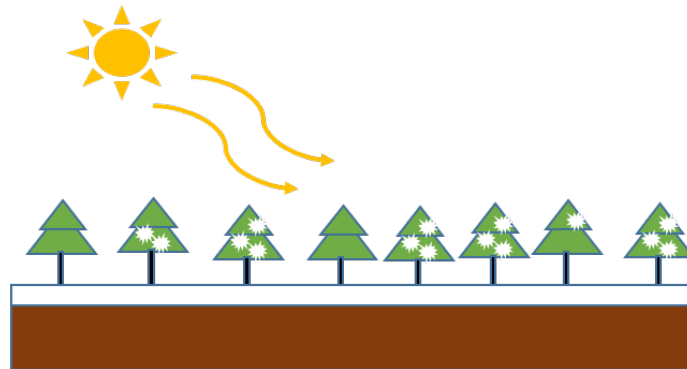
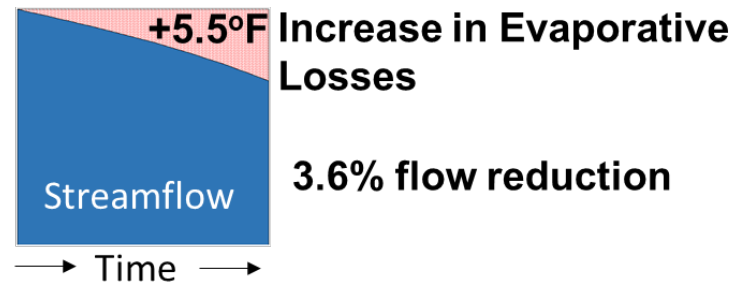
Climate Change Impacts on Streamflow

The peak energy available for evaporative loss occurs 3 months after peak streamflow on the Salt-Verde (Robles et al. 2020).

This is not the case for the Colorado River, partly contributing to a 5 times greater streamflow sensitivity to warming on the Colorado than the Salt-Verde (BOR 2020).

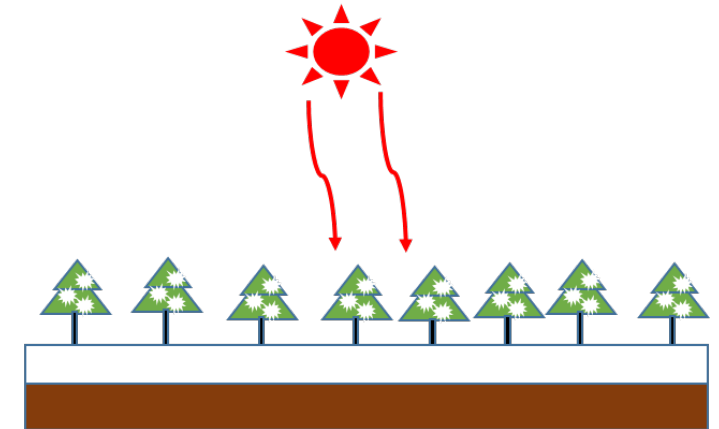
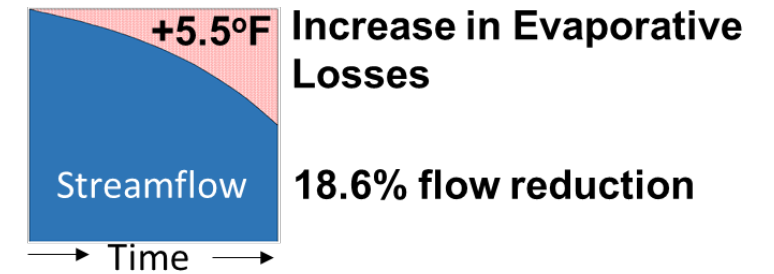
Salt-Verde Runoff Season

January-April



Colorado River Runoff Season

April-July



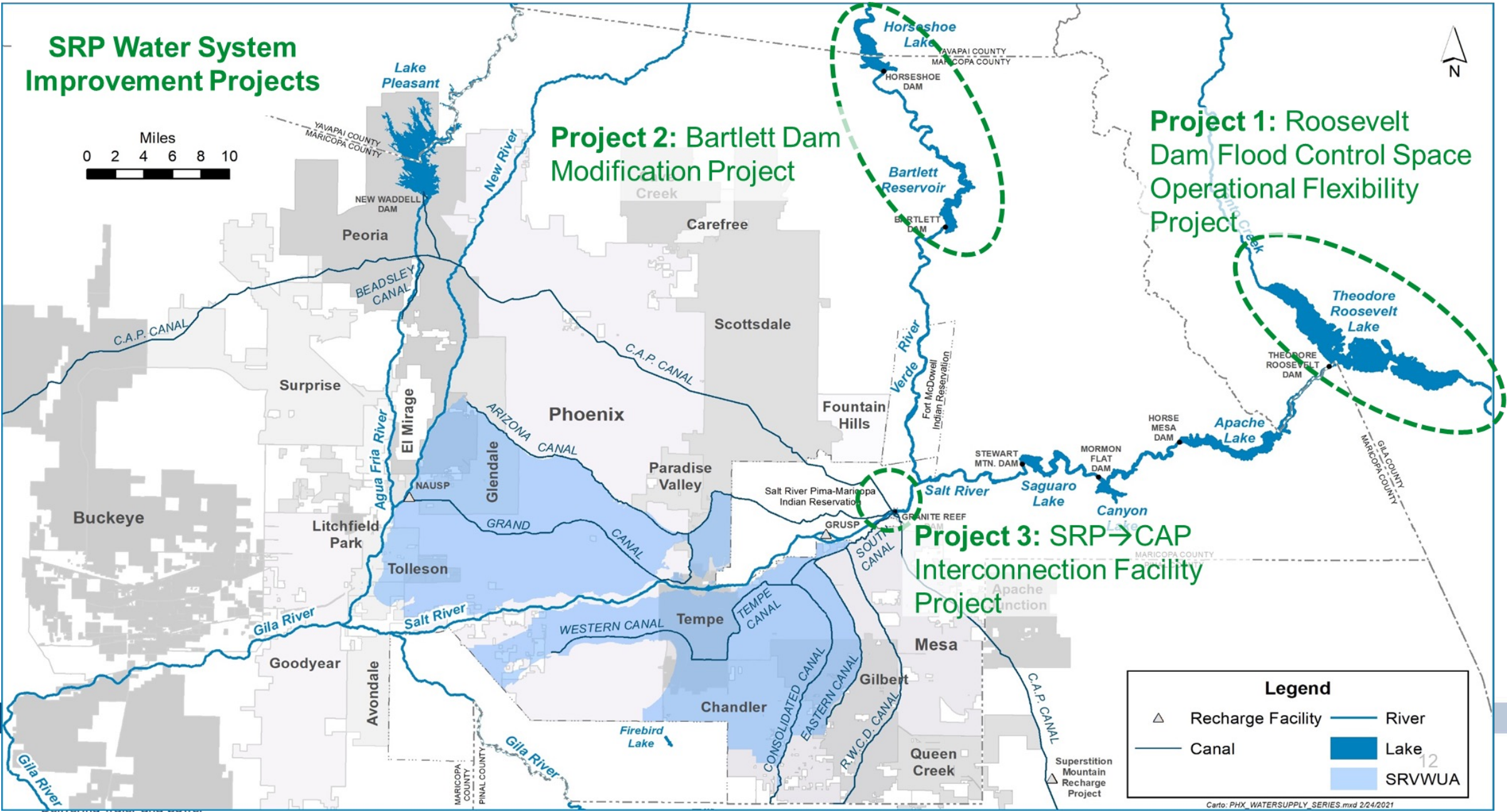
SRP Water System Improvement Projects



Project 2: Bartlett Dam Modification Project

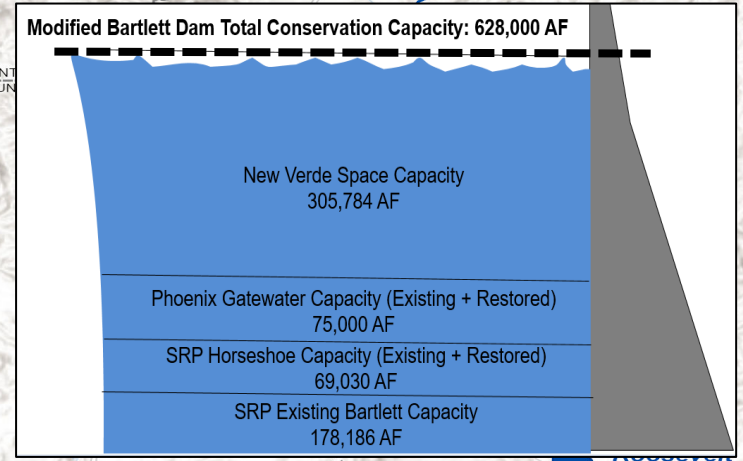
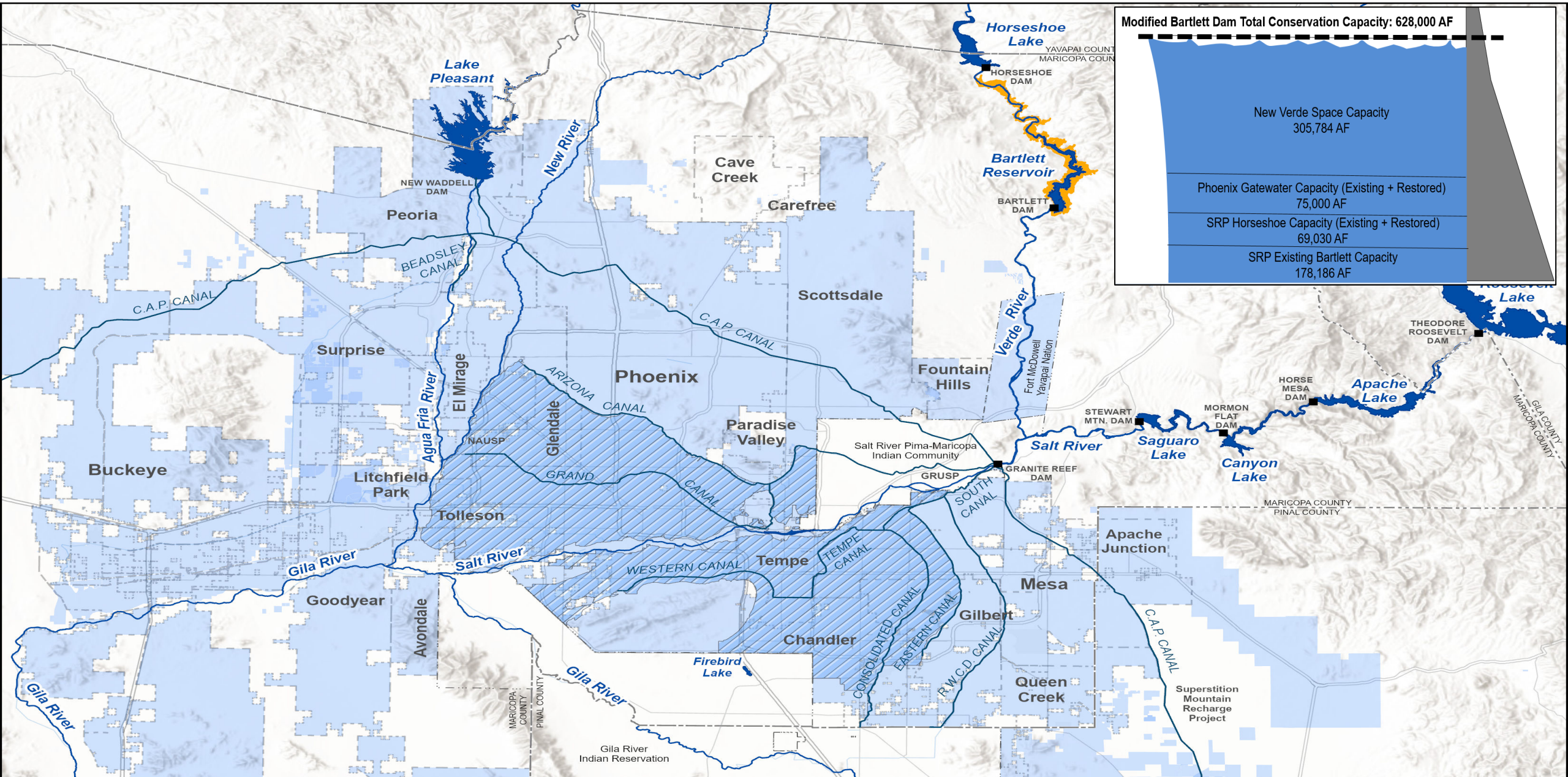
Project 1: Roosevelt Dam Flood Control Space Operational Flexibility Project

Project 3: SRP → CAP Interconnection Facility Project



Legend	
	Recharge Facility
	River
	Lake
	SRVWUA
	Canal



Bartlett Dam Modification Feasibility Study Non-Federal Feasibility Partners



Water Deliveries from Improved Flood Operations



Legend

-  SRP Water Service Area
-  FCS Beneficiary

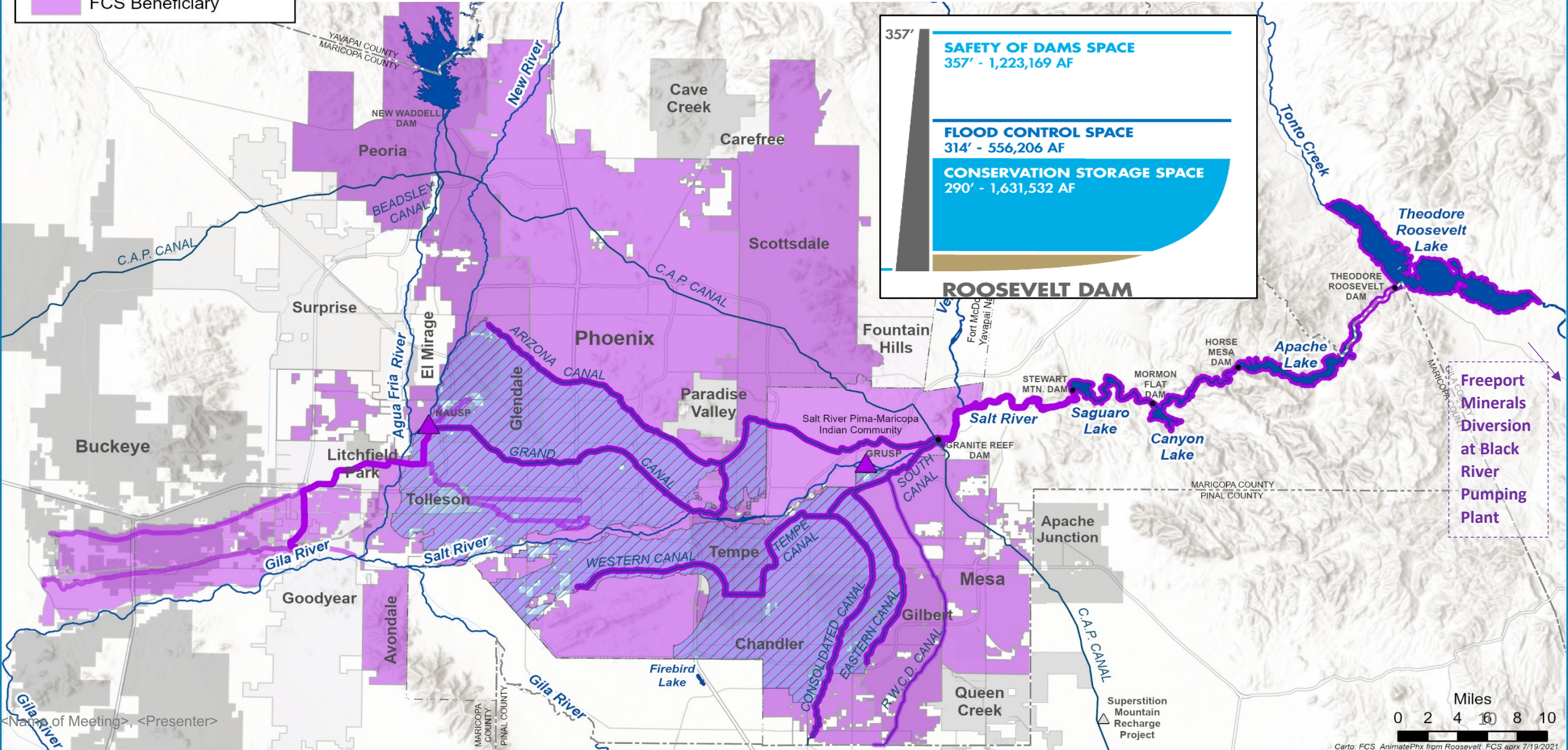
357'

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

FLOOD CONTROL SPACE
314' - 556,206 AF

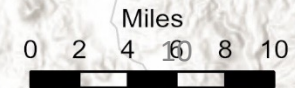
CONSERVATION STORAGE SPACE
290' - 1,631,532 AF

ROOSEVELT DAM



<Name of Meeting>, <Presenter>

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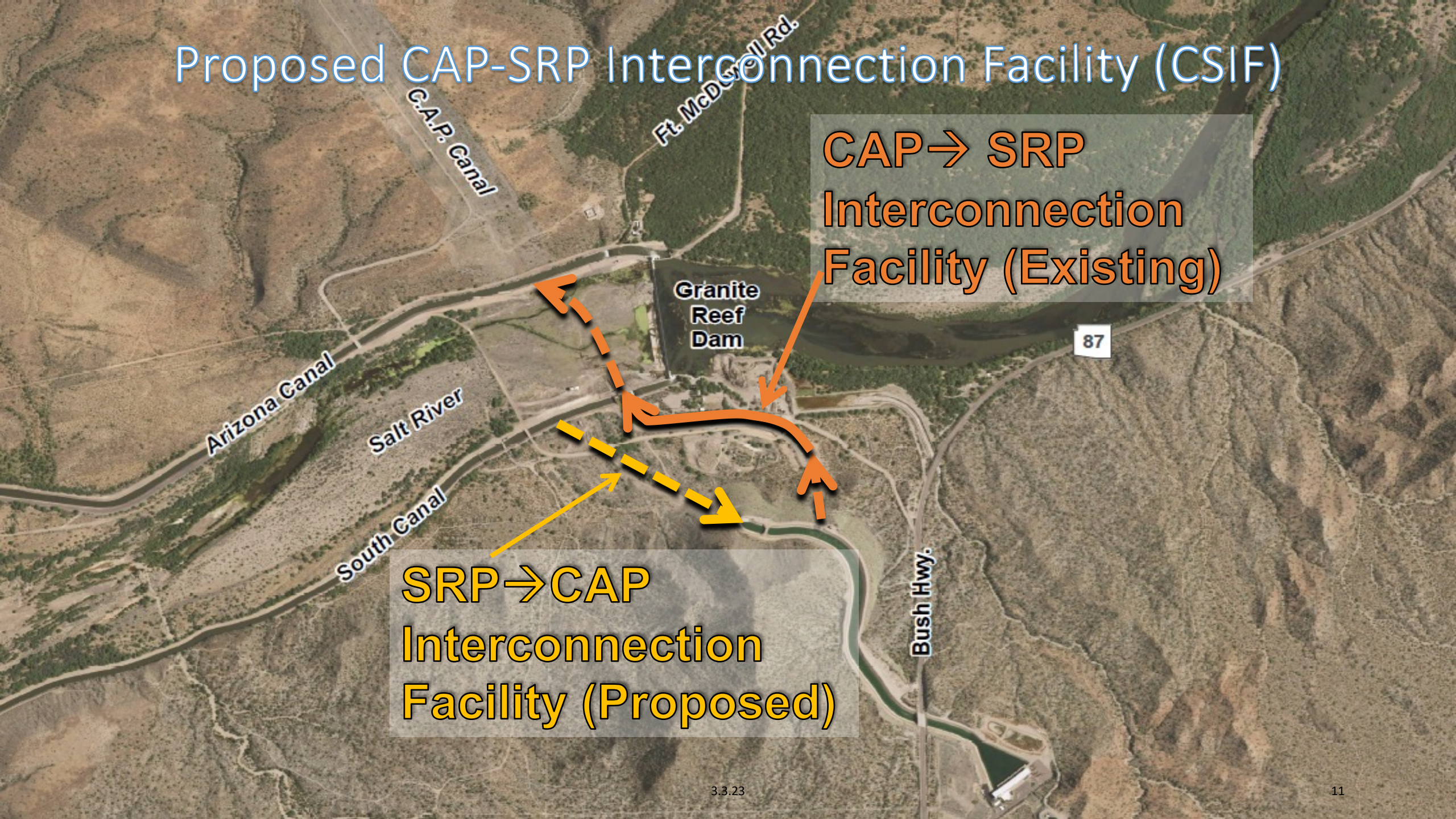


Carto: FCS_AnimatePhx from Roosevelt, FCS.aprx 7/19/2021

Proposed CAP-SRP Interconnection Facility (CSIF)

**CAP → SRP
Interconnection
Facility (Existing)**

**SRP → CAP
Interconnection
Facility (Proposed)**





Questions?



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