



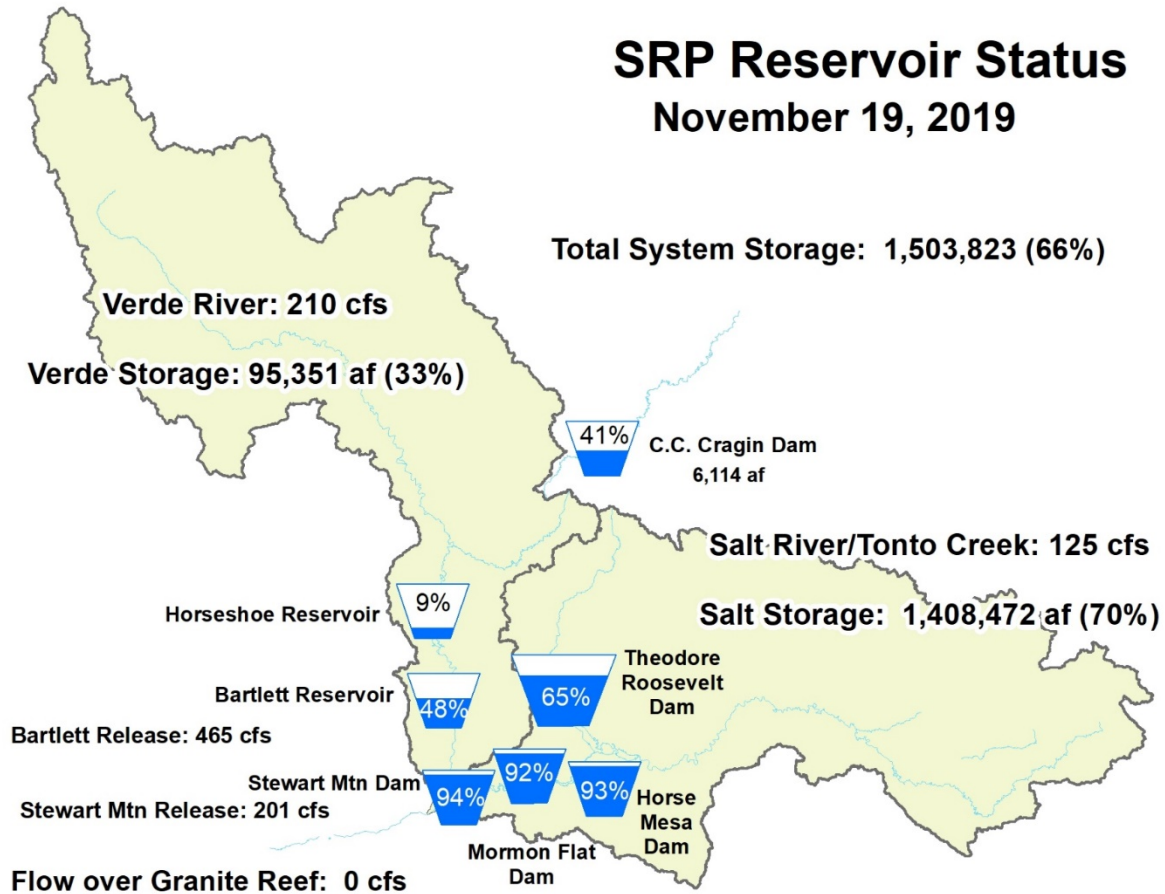
Salt River & Verde River Watersheds Water Supply Update



Delivering water and power™

Stephen Flora, Senior Hydrologist
ADWR Drought ICG Meeting – November 10, 2020

SRP Reservoir Status November 19, 2019



Wet Nov/Dec
7.83"

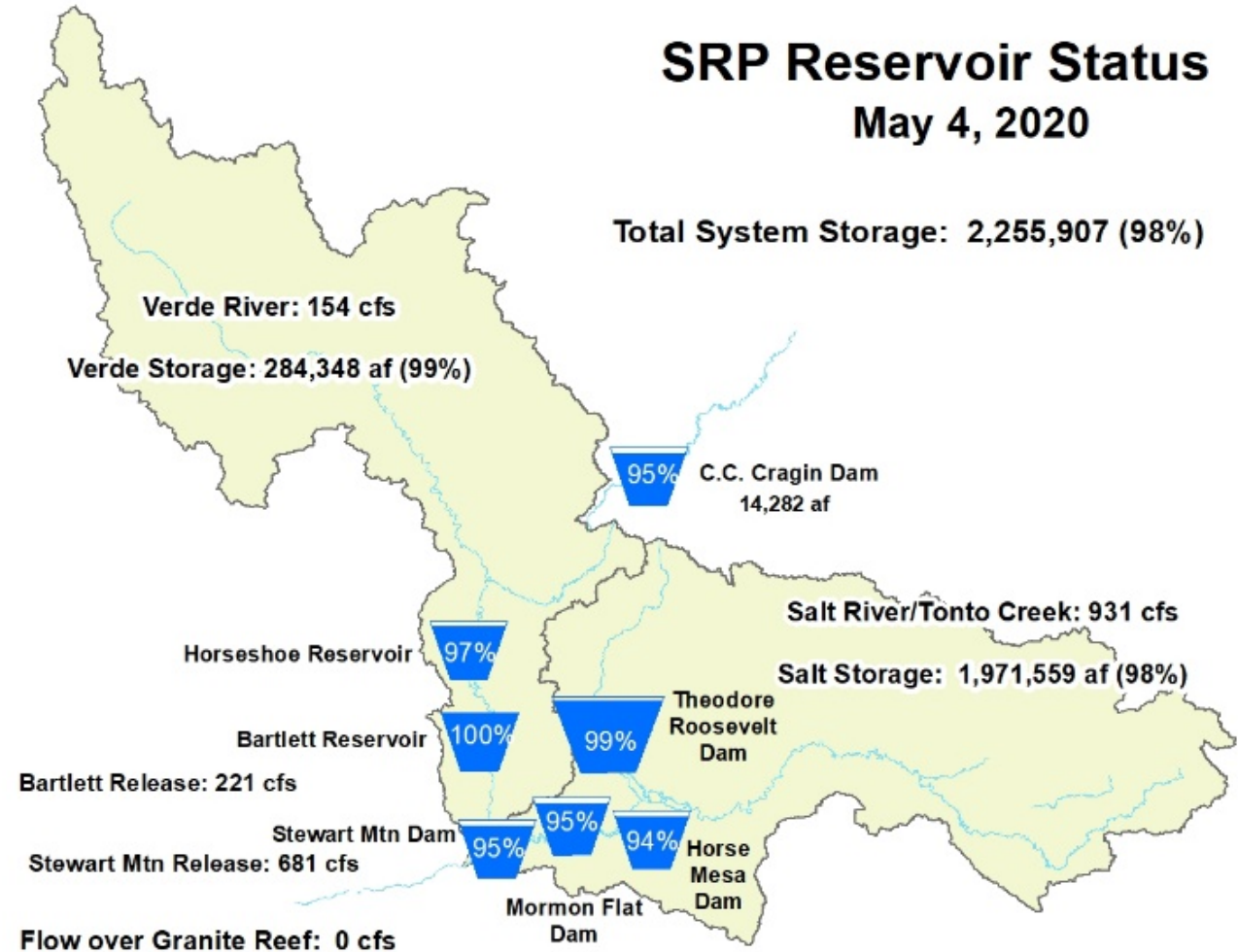
Dry Jan/Feb

12th Wettest March
438,705 AF of inflow

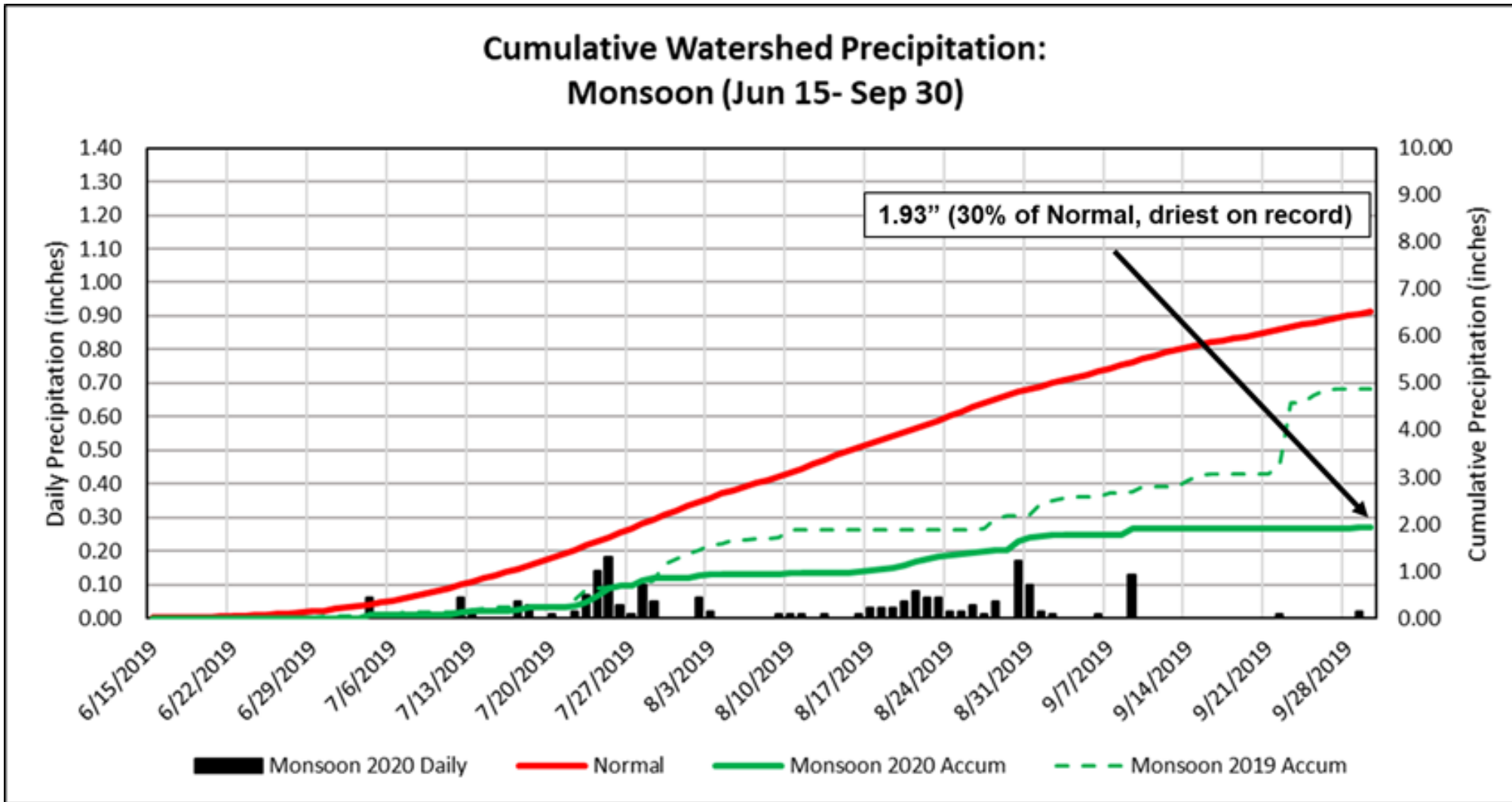
Reservoir System Overview Winter 2020

66% to 98% Total Storage

SRP Reservoir Status May 4, 2020



Salt/Verde Watershed Precipitation during Monsoon Season



Salt/Verde Watershed Driest Monsoons

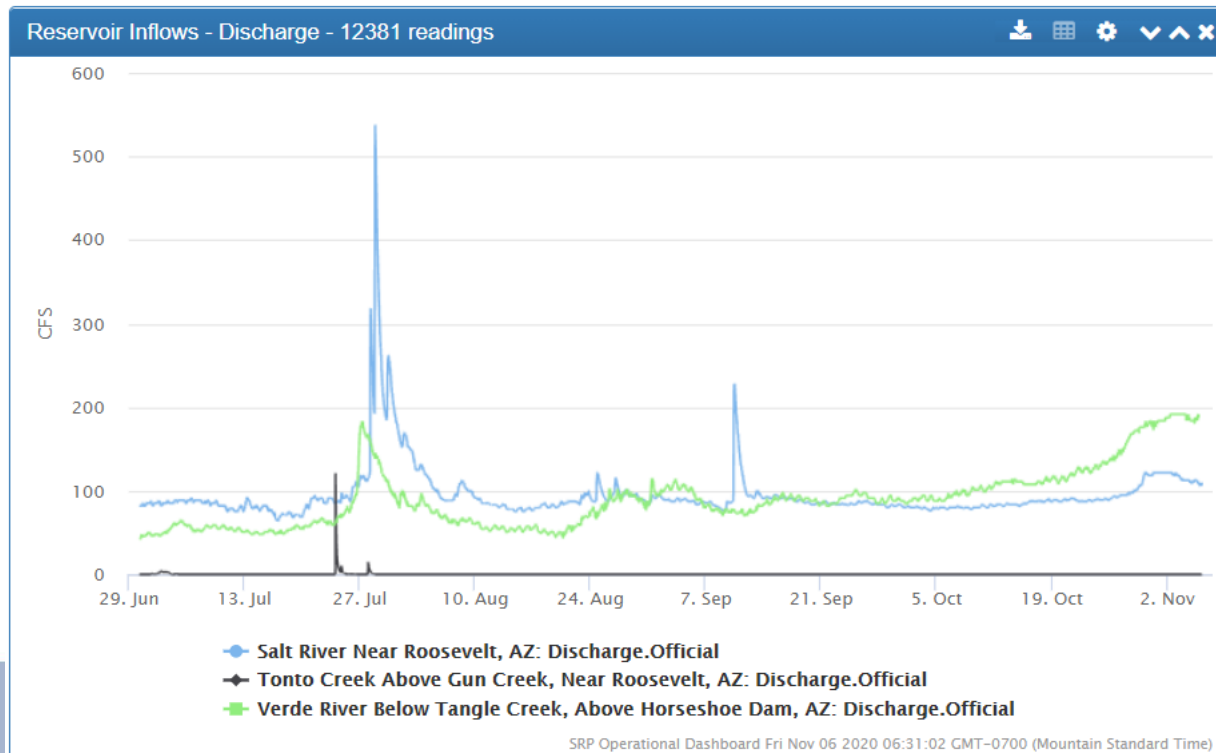
- 2020 – 1.93"**
- 1973 – 3.57"
- 1979 – 3.61"
- 2009 – 3.76"
- 1900 – 3.83"

*This year ranks as the driest Monsoon (June 15 – Sept 30) over the 121 year period of record

Minimal Reservoir Inflows during Monsoon Season

	Salt+Tonto+Verde Monthly Inflow (AF)		
	<u>2020 inflow</u>	<u>Median inflow</u>	<u>Record low inflow</u>
July	11,320 (44%)	25,651	10,310 (1963)
August	10,296 (25%)	41,470	10,296 (2020)
September	10,672 (27%)	40,195	10,542 (1956)
October	12,200 (45%)	27,133	12,200 (2020)

- Lowest Monsoon season inflow (July 1 – Sept 30)
 - **2020 – 32,388 AF**
 - 2009 – 47,251 AF
 - 2019 – 48,168 AF
 - 1956 – 56,519 AF
 - 1960 – 59,268 AF



- July and September 2020 were 2nd lowest monthly inflows
- August and October 2020 were lowest monthly inflows



Burn Area Impacts on Lower Salt and Verde Watersheds



Burned Area

- Bush Fire - 193,455 acres
- Salt Fire – 21,670 acres
- Sears Fire – 14,476 acres
- Woodbury Fire – 123,875 acres (2019)

Impacts to Runoff

- 100%-200% increase in peak discharge for the 2, 10, 25, and 100-year events*

SRP Watersheds of Concern

- Sycamore Creek into the Verde River below Bartlett Dam
- Local inflow into Saguaro Lake, Canyon Lake, Apache Lake, and Roosevelt Lake



System Overview

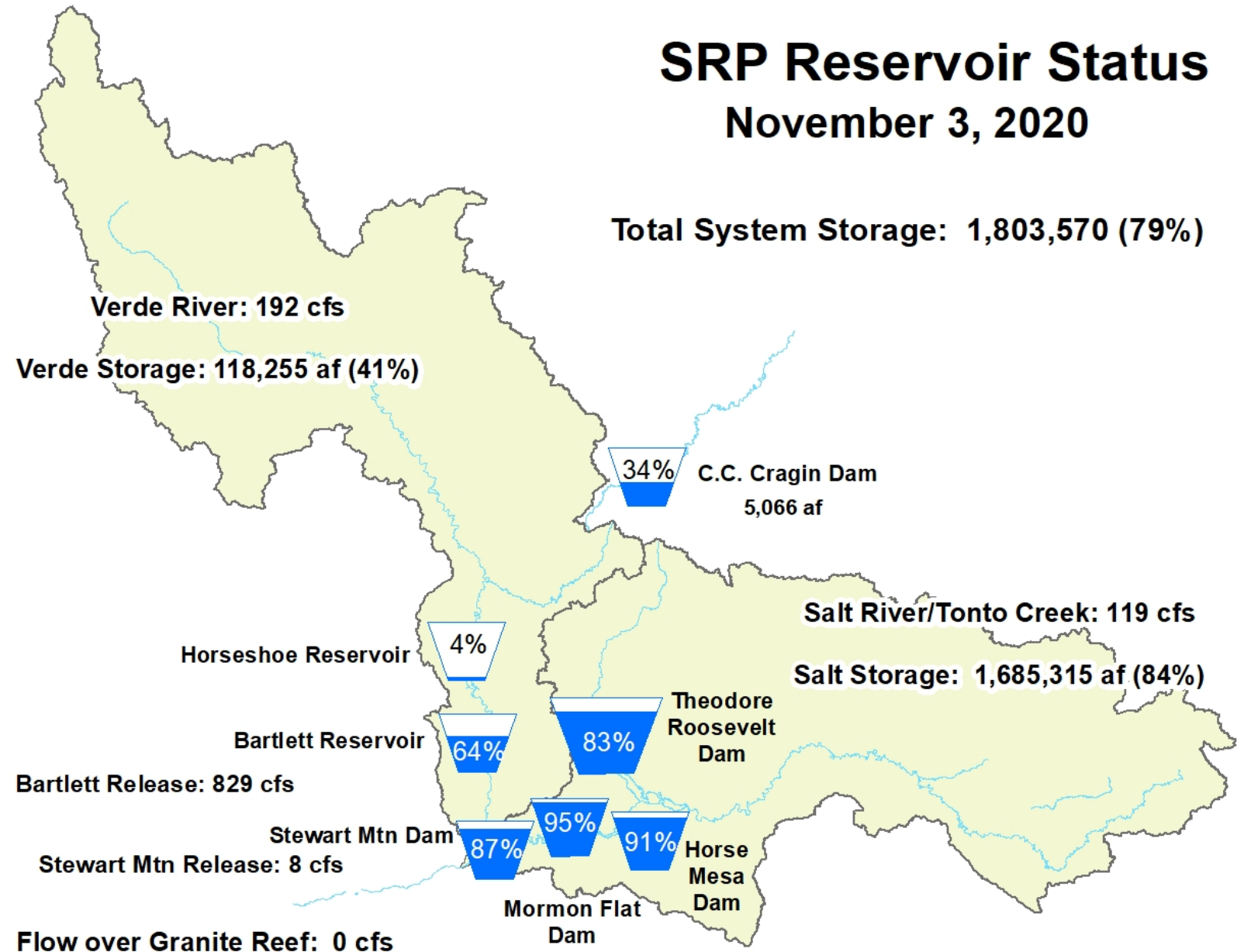
Water Year 2020

Total Watershed Precipitation
16.61"
(91% of normal)

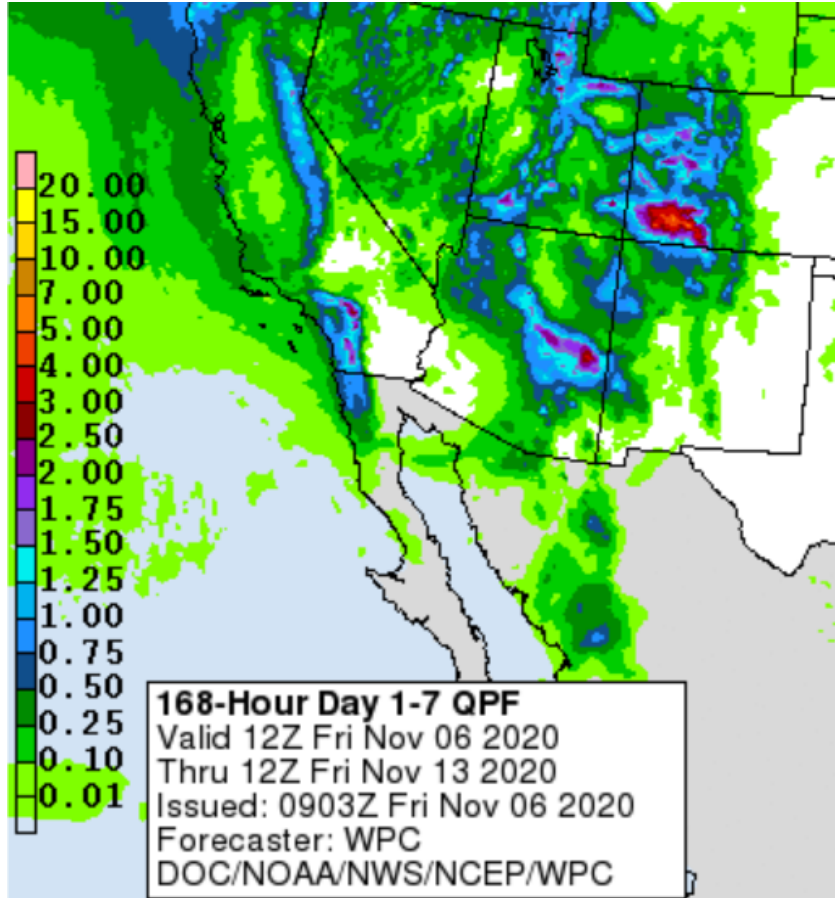
Total Salt/Verde Reservoir Inflow
1,058,665 AF
(124% of median)

SRP Reservoir Status November 3, 2020

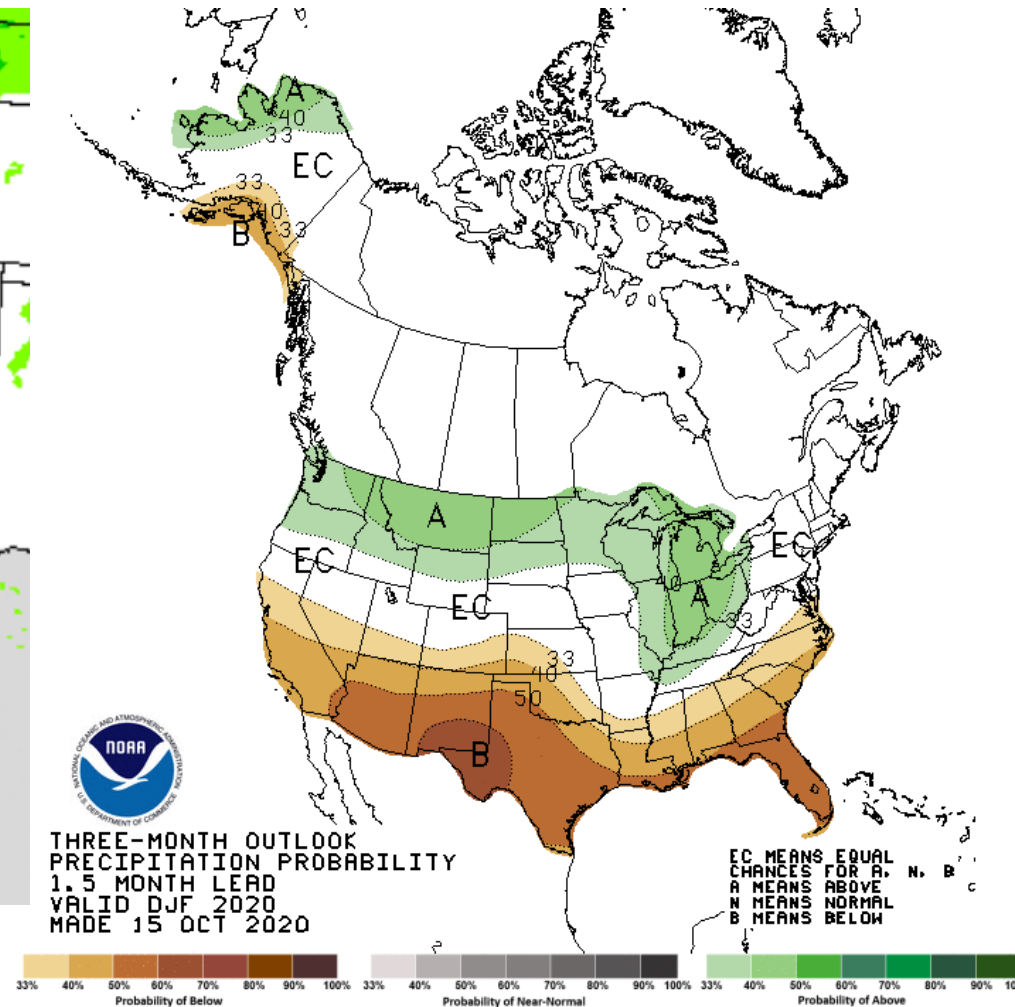
Total System Storage: 1,803,570 (79%)



Water Supply Projections – Fall 2020/Winter 2021



7-day QPF (Nov 6-13)



3-Month Winter Precipitation Outlook

Roosevelt Lake Projected Elevation by Jan 1, 2021

- Jan 1 – 2136' (82%)

Roosevelt (May 1, 2021) based on winter inflow

- Minimum: 2133' (78%)
- Lower quartile: 2142' (89%)
- Median: 2151' (100%)

Oct 1, 2021 Range 2115' (60%) to 2140' (86%)

Salt/Verde Watershed & SRP Reservoirs Summary



- Two wet winters in a row (2019 & 2020) have helped to refill SRP reservoirs
- Record dry Monsoon Season in 2020 has increased drought conditions throughout the Salt and Verde watershed.
- Fires have impacted the lower elevation portions of the watershed
- Total SRP Surface Water Supply is currently in good condition at 79% total storage capacity



Questions?

Stephen Flora, R.G.

Senior Hydrologist

SRP Surface Water

602-236-2714

Stephen.Flora@srpnet.com



Delivering water and power™

www.srpnet.com