



One Water and Stewardship Committee

# Update on Stormwater Activities

Item 7b

June 12, 2023

Stormwater Update

# Agenda

## Agenda

- Current Stormwater Conditions
- Update on Stormwater Pilot Programs
- Upcoming Stormwater Activities
- Regional Stormwater Planning

# Current Stormwater Conditions



Current  
Conditions

Rainfall 30  
inches in  
DTLA

200% of  
average

Active  
Stormwater  
Capture

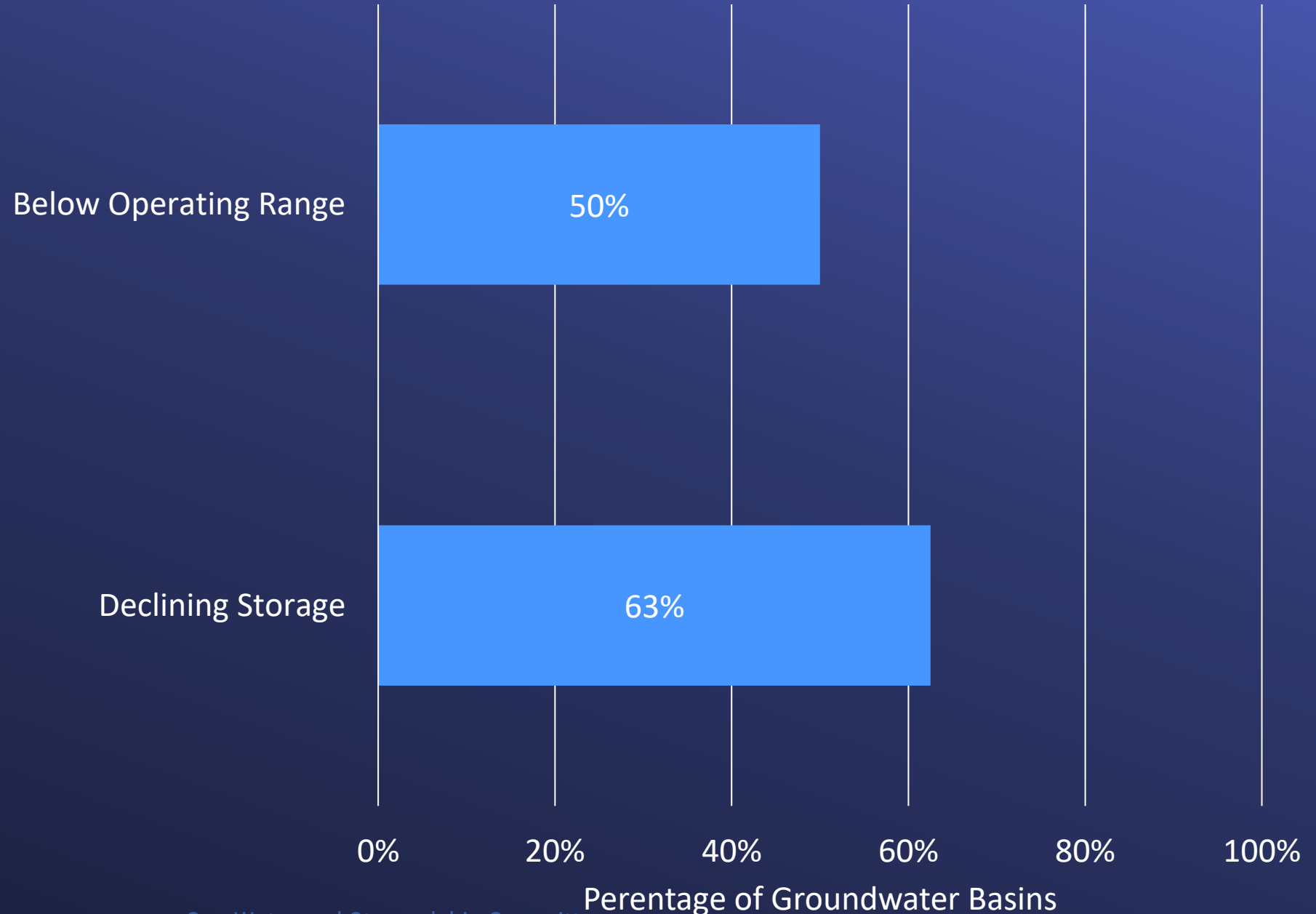
800 TAF  
through April  
30, 2023

270% of  
normal

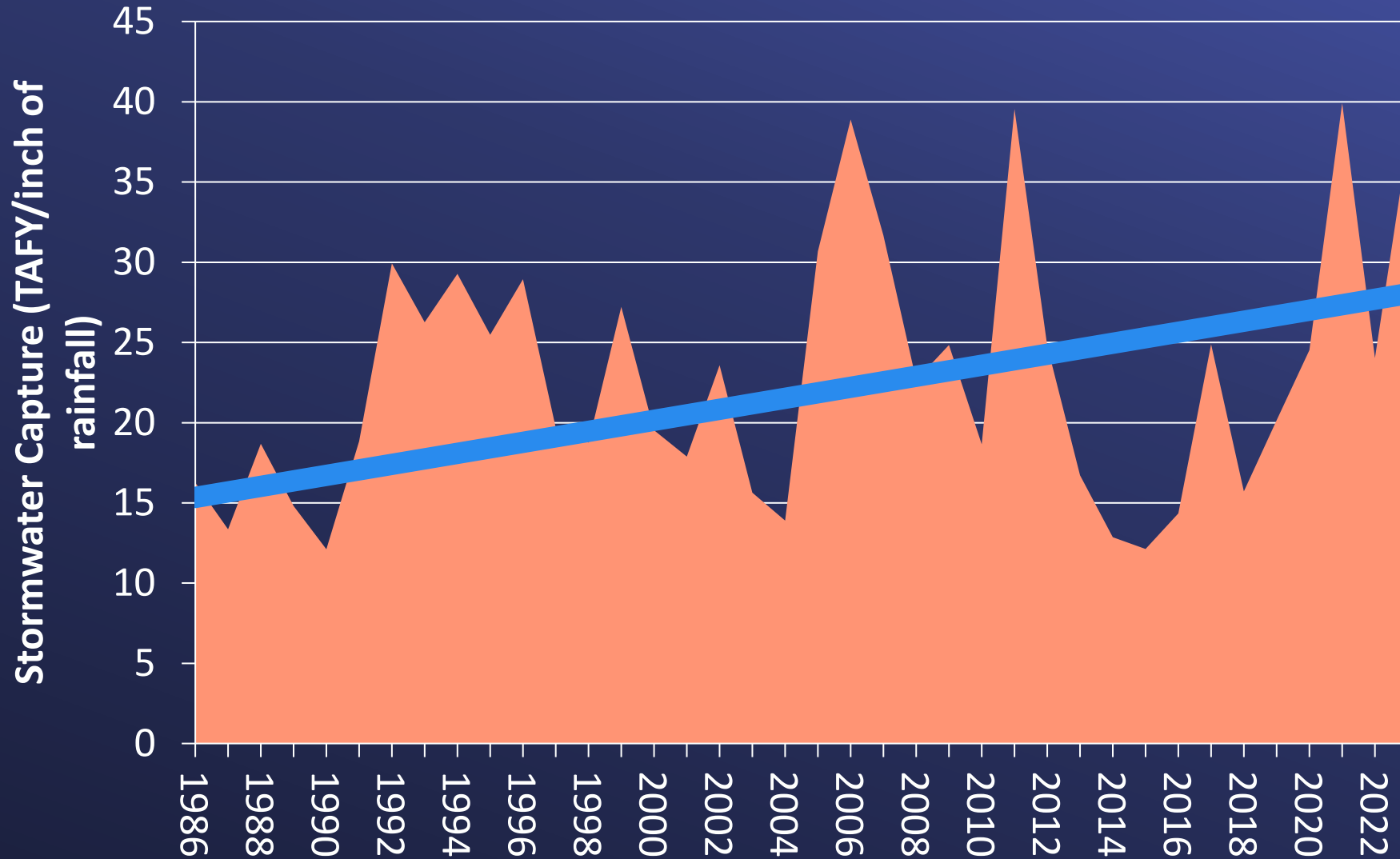
Santa Fe Spreading Grounds October 2022

# Groundwater Current Groundwater Conditions

Groundwater storage has increased approximately 450,000 AF this water year. Despite favorable hydrologic conditions this year, groundwater basins in So Cal are still playing catch-up.



# Stormwater Capture Effectiveness has Increased 80 Percent since 1980s



# Stormwater Pilot Program Details

## Overview

The stormwater pilot program includes two pilots:

- Direct Use (\$5 million)
- Recharge (\$7.5 million)



Program approved in 2019  
\$12.5 million



Application period open  
January 2020 – December 2021



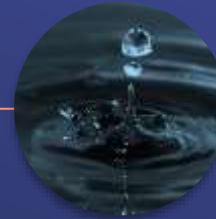
12 project applications received  
4 applicants withdrew. 6 approved.



Total funding requested: \$5.3 M.  
The pandemic had a significant impact on project development.

# Goals of the Stormwater Recharge Pilot

Monitoring  
data  
collection for  
3 years



Evaluate  
water supply  
benefit



Establish link between capture and  
increased groundwater production  
or reduced replenishment



Encourage  
robust long-  
term monitoring



Develop  
framework

# Stormwater Pilot Accomplishments

## IEUA and Chino Basin Water Conservation District

### Montclair Basins Improvement Project Ribbon Cutting



## Western MWD

### Victoria Basins Enhanced Monitoring Project Monitoring Installation Completed





# Near-Term Stormwater Partnerships Underway

## Caltrans

- **Pilot Study**  
Opportunities to collaborate for mutual benefit

## ARLA

- **Co-benefit Study**  
Co-benefits of stormwater capture in urban LA

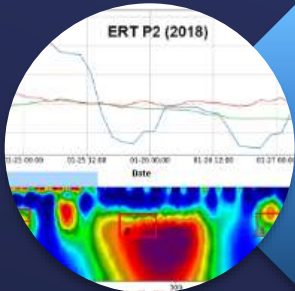
## Las Virgenes MWD

- **Pilot Study** Smart meters in combined sewer/stormwater systems
- **Multi-partner coalition**

# Upcoming Stormwater Actions



**Continue Near-Term Stormwater Partnership Development**



**Fund additional stormwater monitoring and recharge optimization using ERT (Electrical Resistivity Tomography)**



**Targeted Funding for Retrofit Projects**

**“Relaunch” stormwater pilot for retrofit projects only**

# Regional Stormwater Potential

Stormwater projects at each scale and associated co-benefits

## Centralized



### New centralized

- Gravel pits in MSG/SFV
- New Spreading Grounds



### Retrofit

- Deepen existing spreading basins not modified yet
- Rubber Dams



### Diversion to Wastewater

- LACSD Joint Plant from JOS
- Hyperion
- Las Virgenes
- Santa Monica

## Distributed



### Engineered Solutions

- Dry wells
- Underground infiltrator
- Cisterns
- Green Street



### Nature Based Solutions

- Landscape transformation
- Vegetative swales
- Rain gardens
- Infiltration trench
- Rooftop garden

# Regional Stormwater Planning

Input into  
Climate  
Adaptation  
Master Plan

