Cochise Conservation & Recharge Network

HYDROLOGIC MONITORING PROGRAM

2021

Presented to the Upper San Pedro Partnership
Technical Committee July 20, 2022

Partnering Partnerships

21 Member Agencies

Upper San Pedro Partnership

Produces foundational science and technical tools and provides peer review

6 Member Agencies

Cochise Conservation and Recharge Network

Designs, constructs, operates and monitors groundwater recharge and protection projects

4 Signatory Agencies

SPRNCA MOU Adaptive Management Committee

Coordinates SPRNCA monitoring and modeling for adaptive management

CCRN Cochise Conservation & Recharge Network

Sierra Vista ARIZONA

COUNTY OF COCHISE ★ 1881 ★ ARIZONA

Hereford Natural Resource Conservation District

City of BISBEE

The Nature Conservancy

Fort Huachuca Arizona

from sabers to satellites...

CCRN Hydrologic Monitoring Program

CCRN relies on predictive hydrologic models and long-term monitoring to *quantify and improve the design and effectiveness of CCRN projects and to address legal and regulatory compliance*

Monitoring Locations

- Bella Vista
- Riverstone
- Palominas
- Horseshoe Draw
- Babocomari River

GSA GeoSystems Analysis, Inc. Innovations in Hydrology

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.

What We've Accomplished

CCRN IMPACT

Total Benefits

41,209

acre-feet (AF)*

Recharge & Retired Pumping

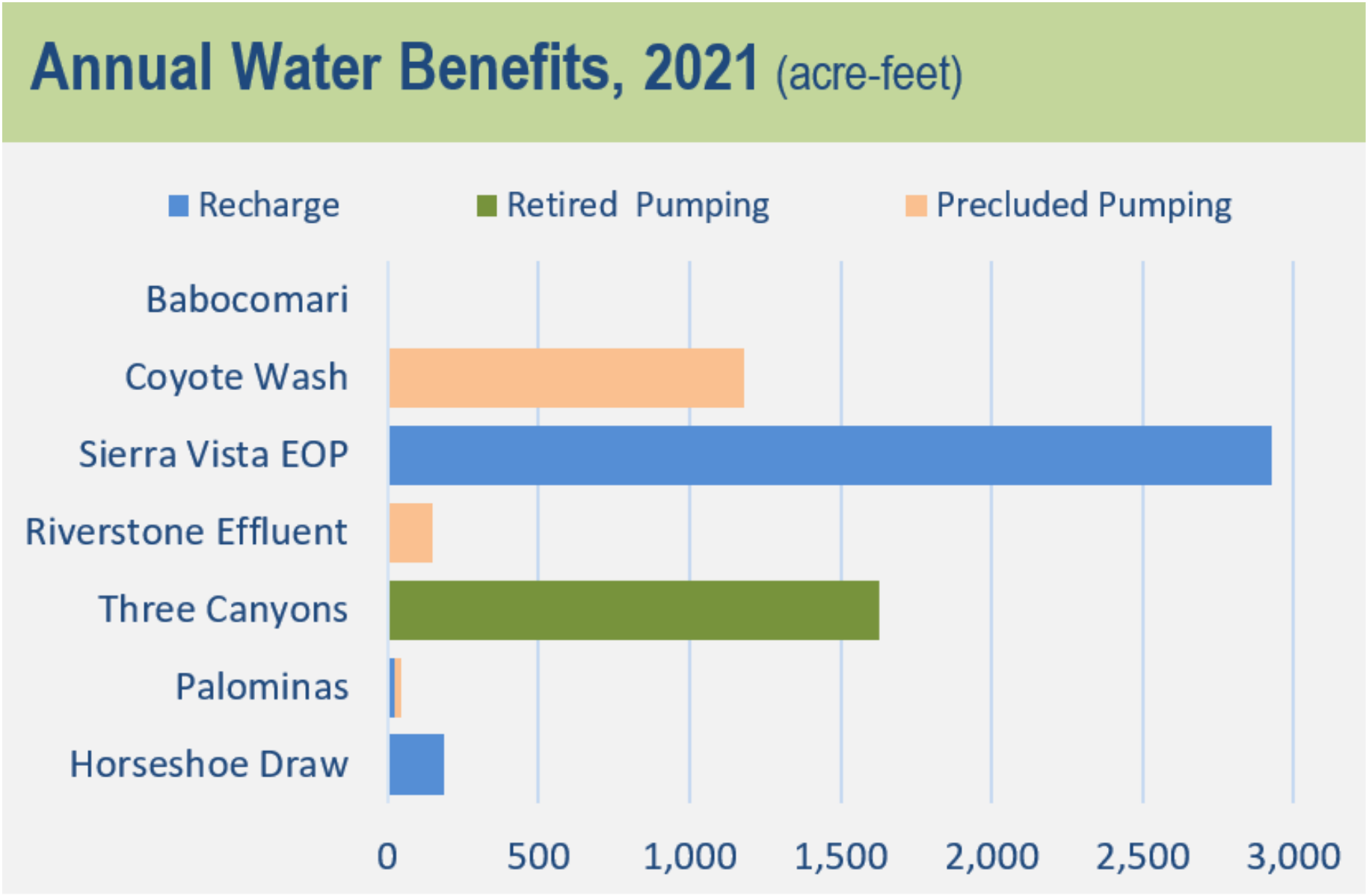
31,709 AF

Precluded Pumping

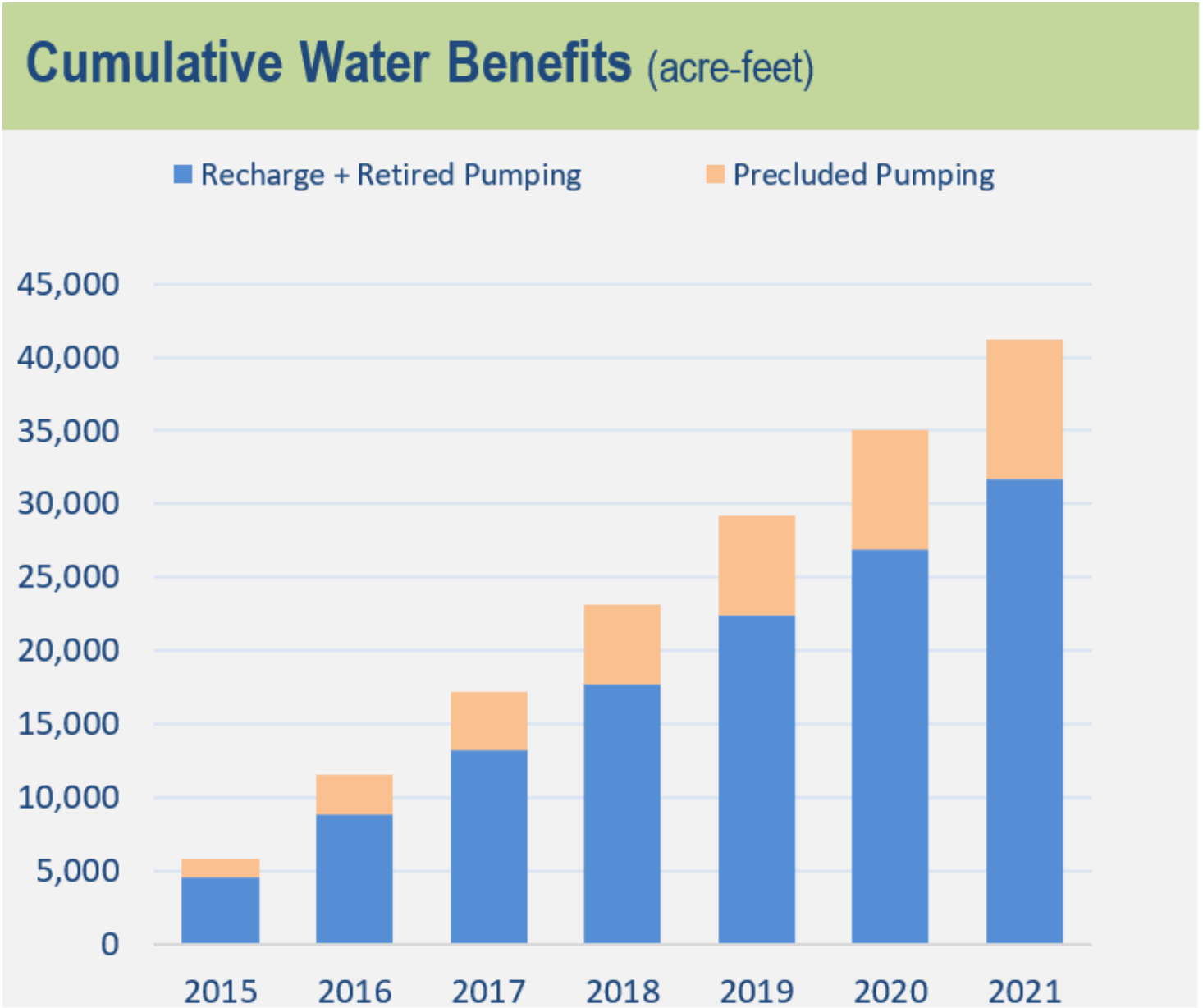
9,500 AF

*since 2015

What We've Accomplished



What We've Accomplished



What We're Learning

Horseshoe Draw Sediment Control and Recharge Project

JE FULLER
hydrology - geomorphology

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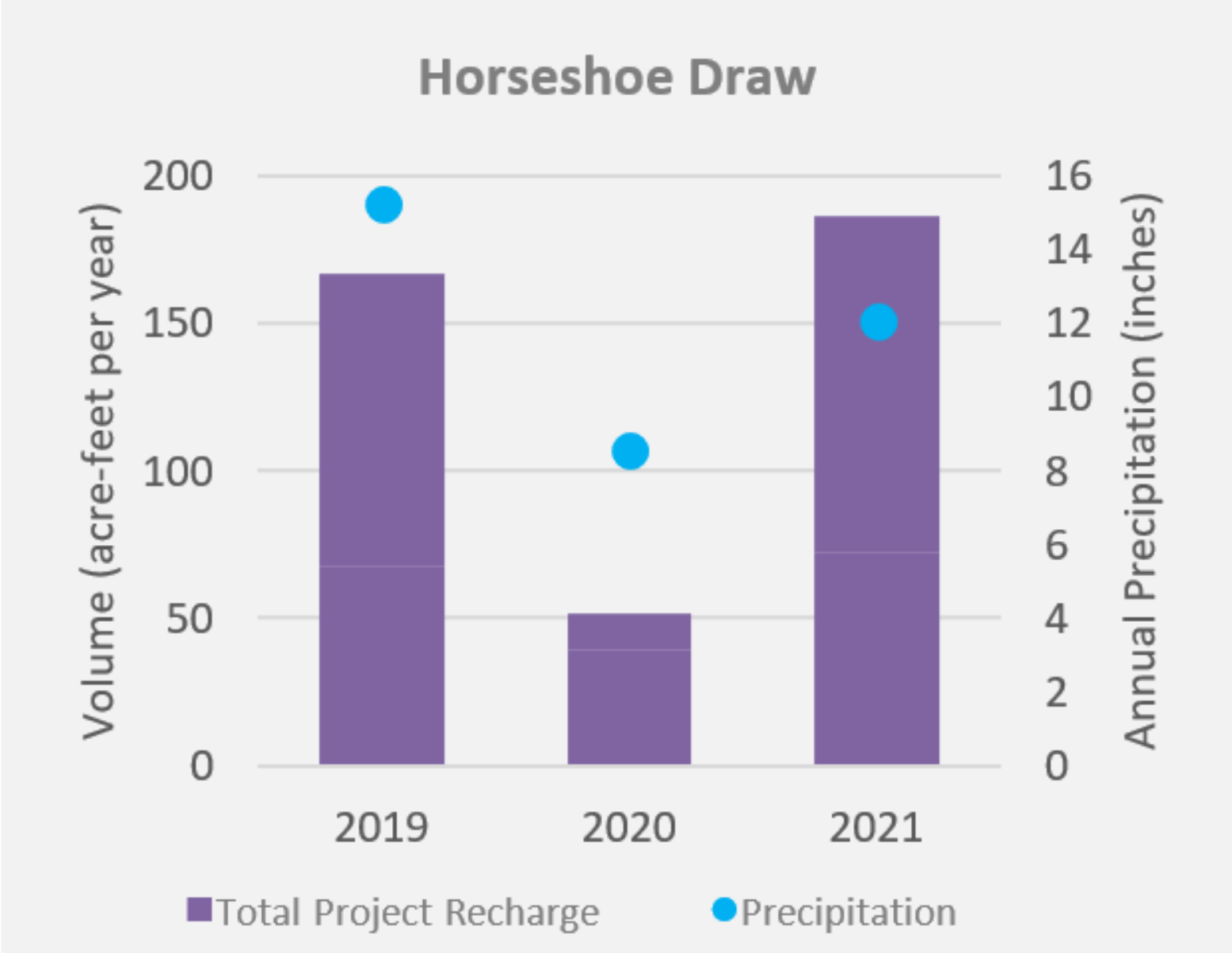
0 100 200 400 600 800 Feet

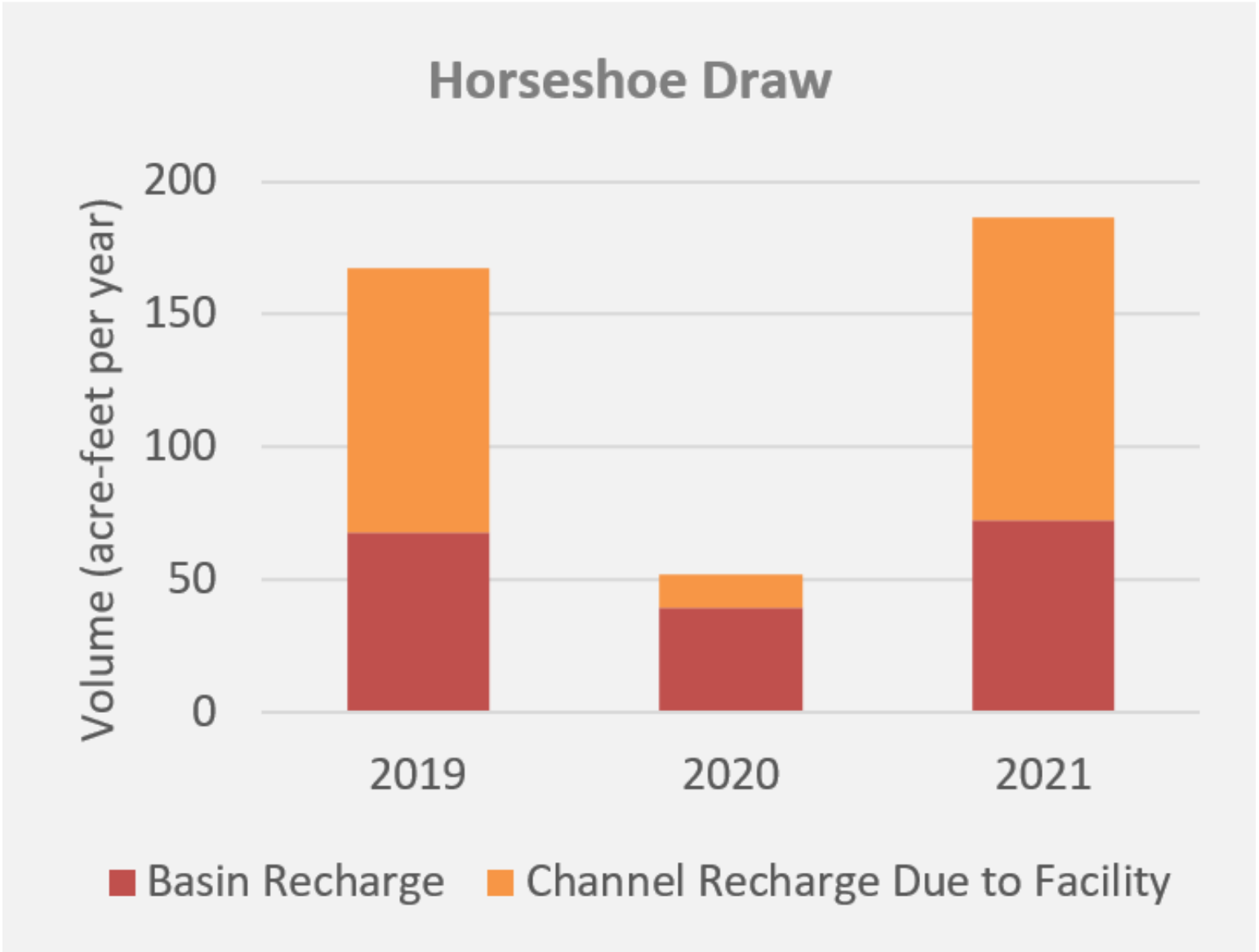
APPROX. SCALE: 1"=200 FEET

FIGURE 12
HORSESHOE DRAW
FACILITY MONITORING

Stormwater Runoff in a Changing Climate



Enhancing Natural Channel Recharge

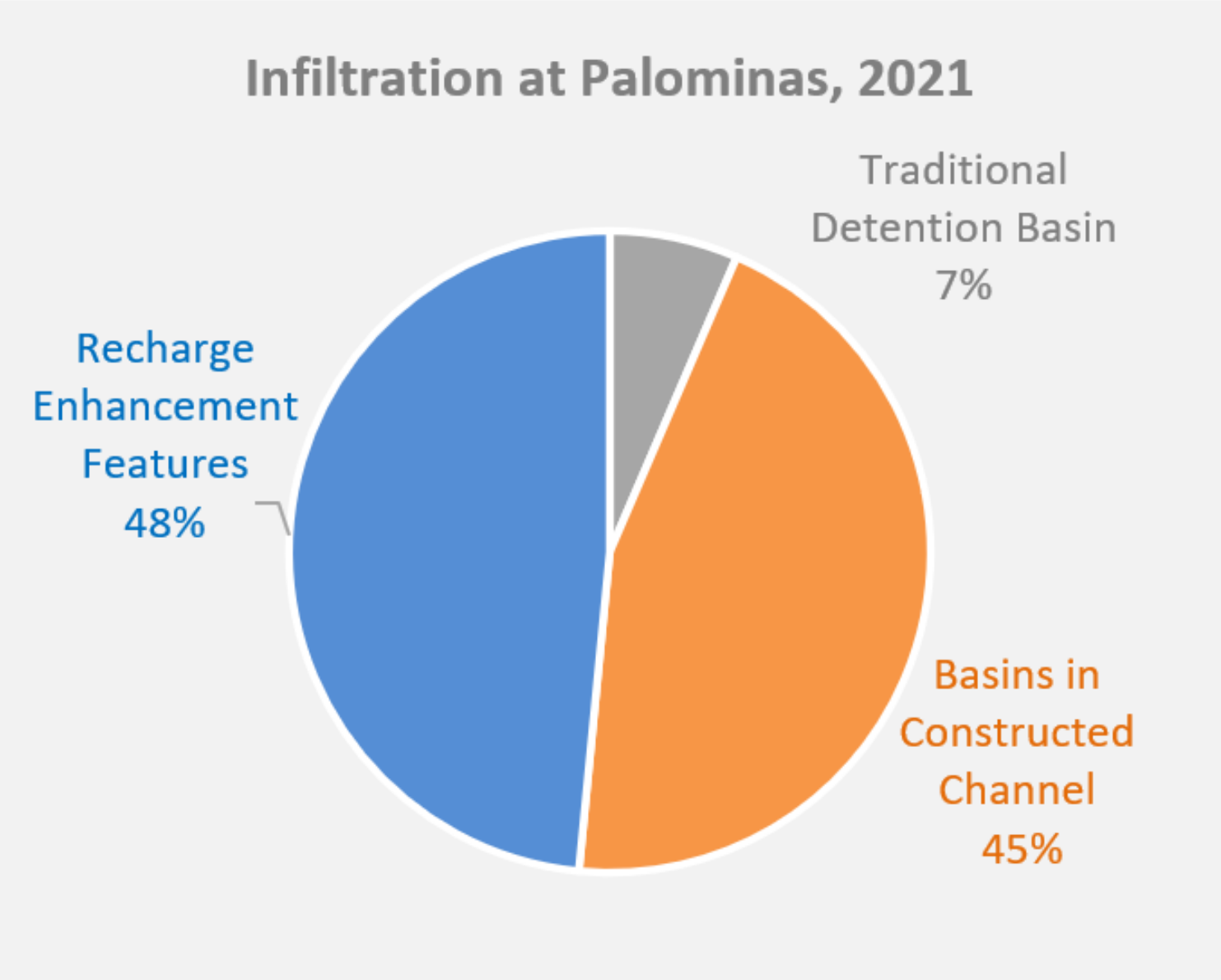


Palominas Flood Control and Stormwater Recharge Project

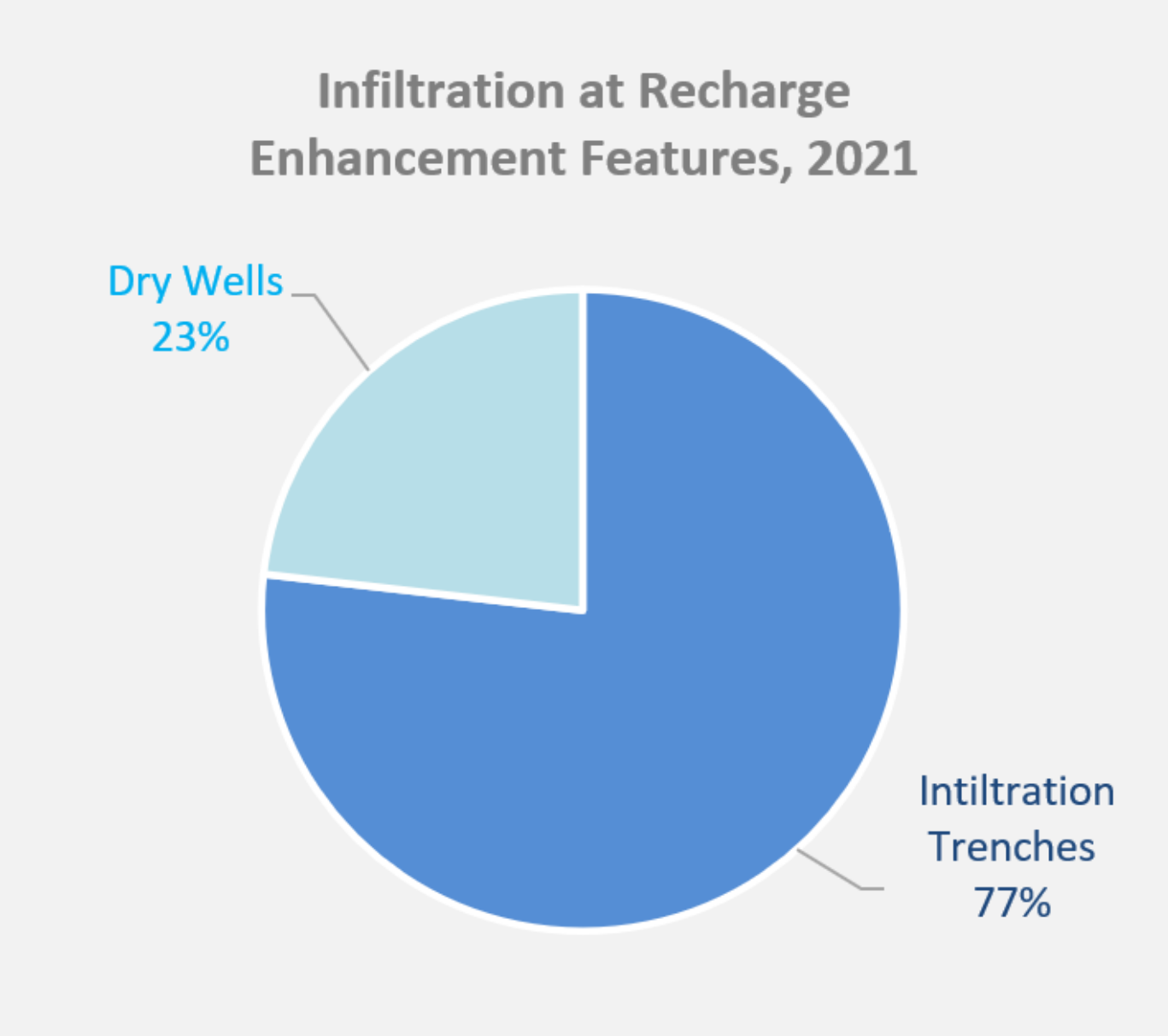
August 23, 2021

Photo credit: Holly Richter,

Minimizing Losses to Evaporation

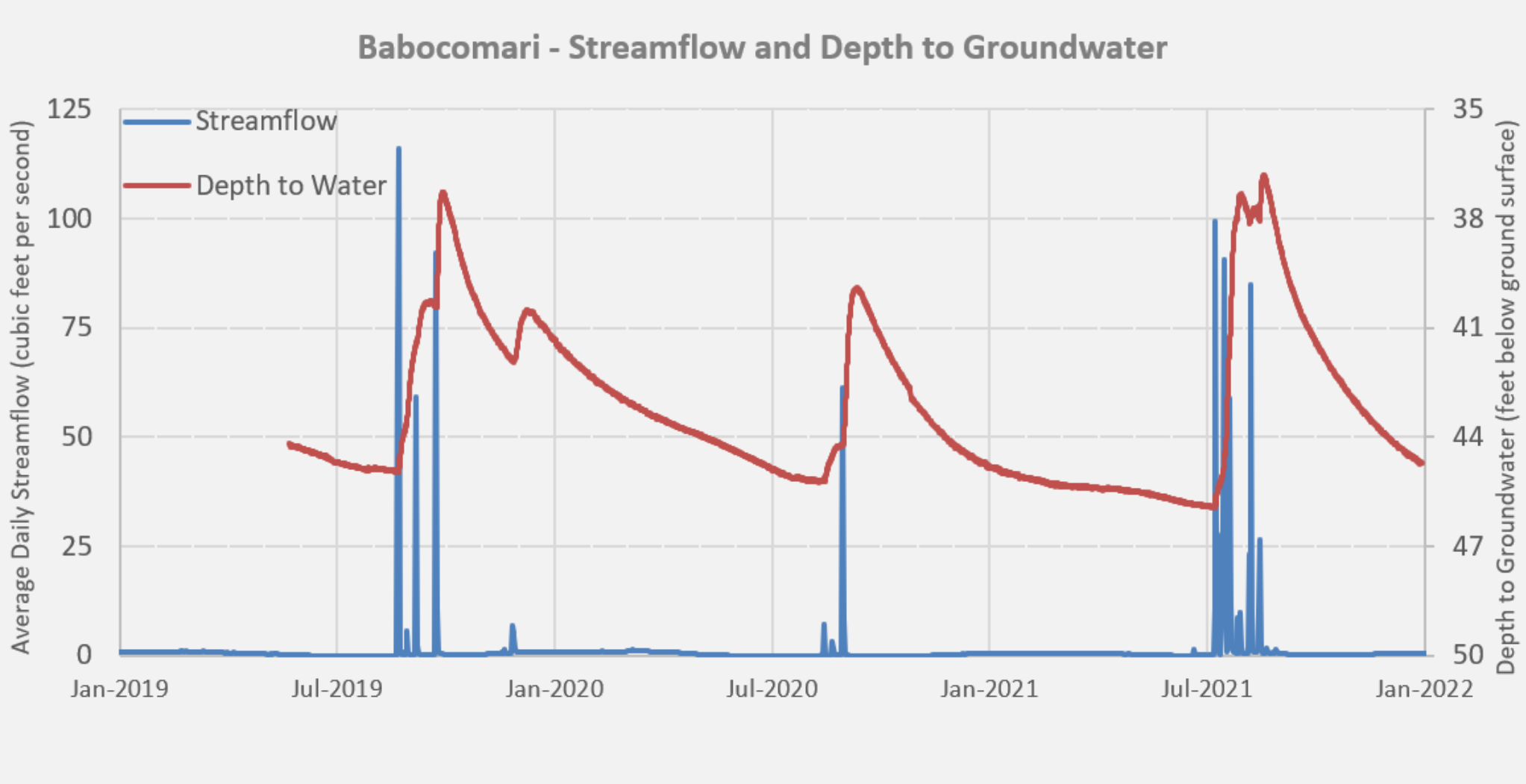


Minimizing Losses to Evaporation



Babocomari Floodplain Protection Site

Importance of Natural Floodplain Recharge



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1881
ARIZONA

Thank you!

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Questions?