

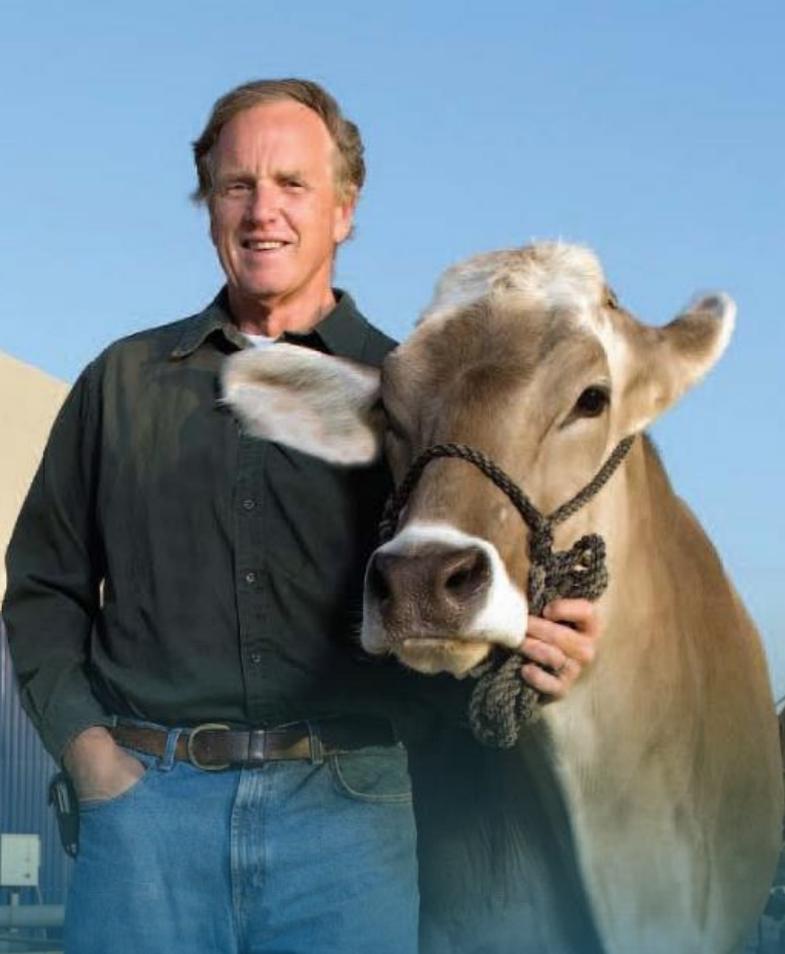


Sustainable Conservation

*Accelerating On-Farm Recharge  
in the San Joaquin Valley*



J. Stacey Sullivan  
Policy Director



Sustainable  
Conservation helps  
California thrive by  
uniting people to solve  
the toughest challenges  
facing our land, air, and  
water.





**Terranova Ranch**  
*Helm, CA*



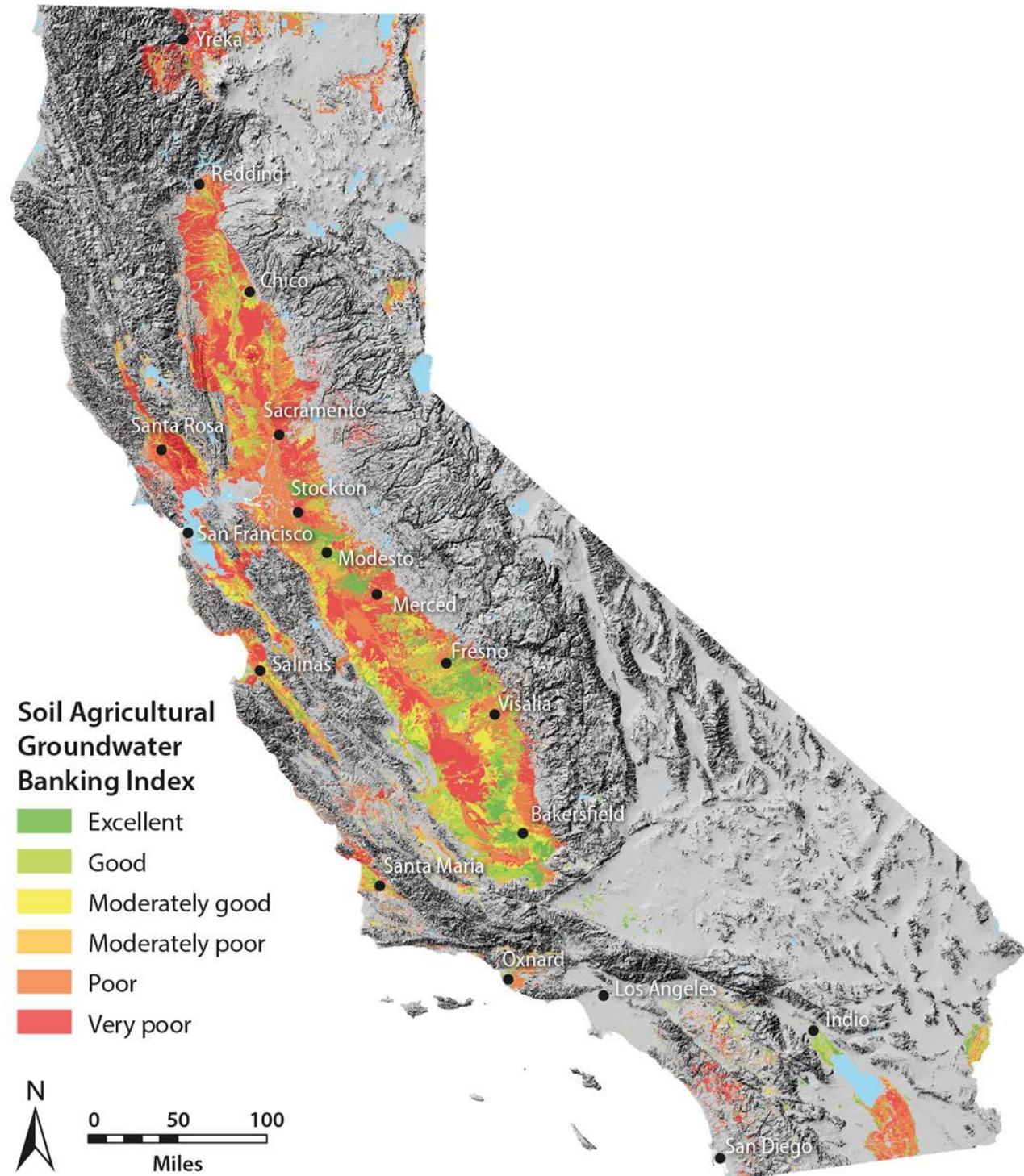


# 2011: The Kings River returns to its flood plain

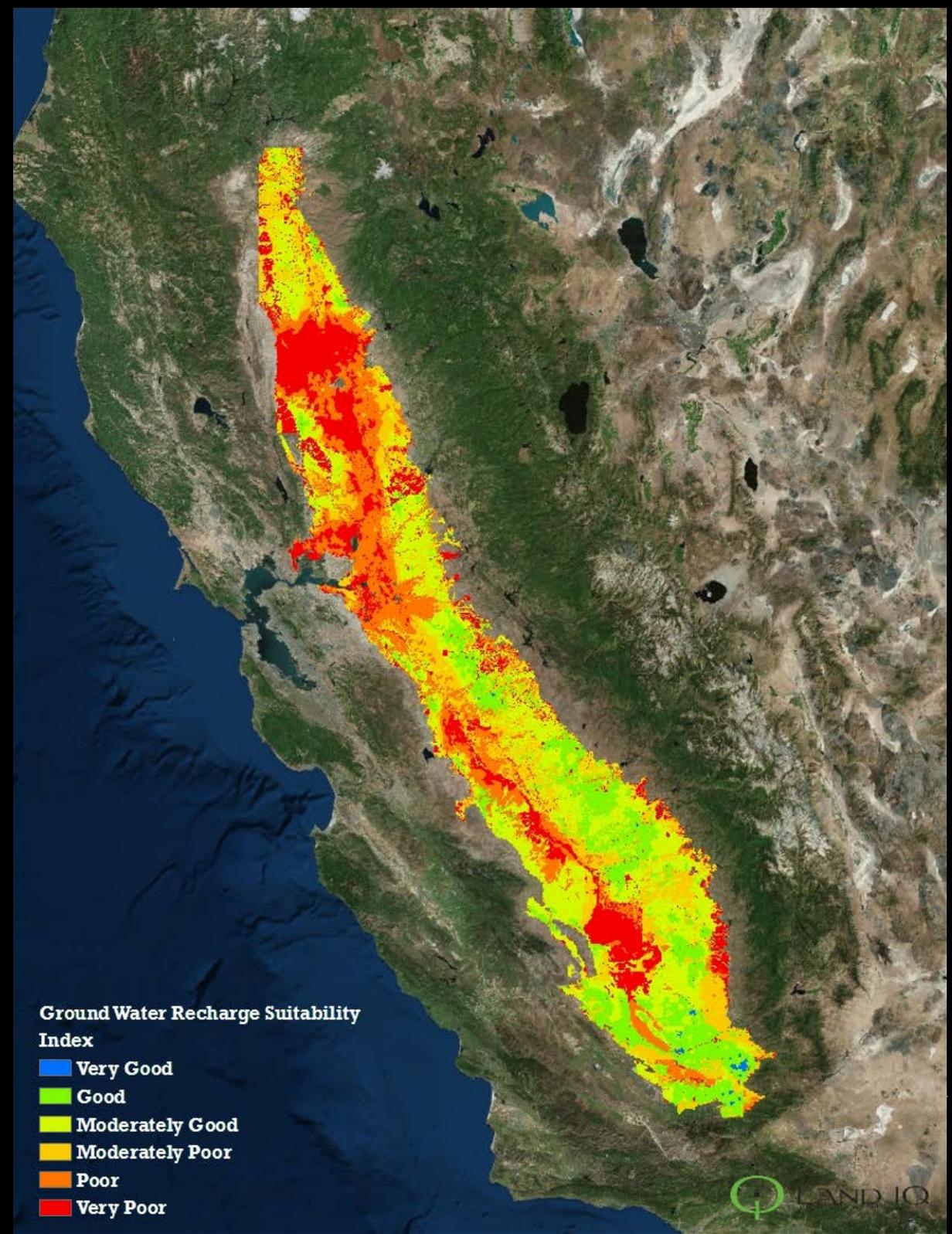






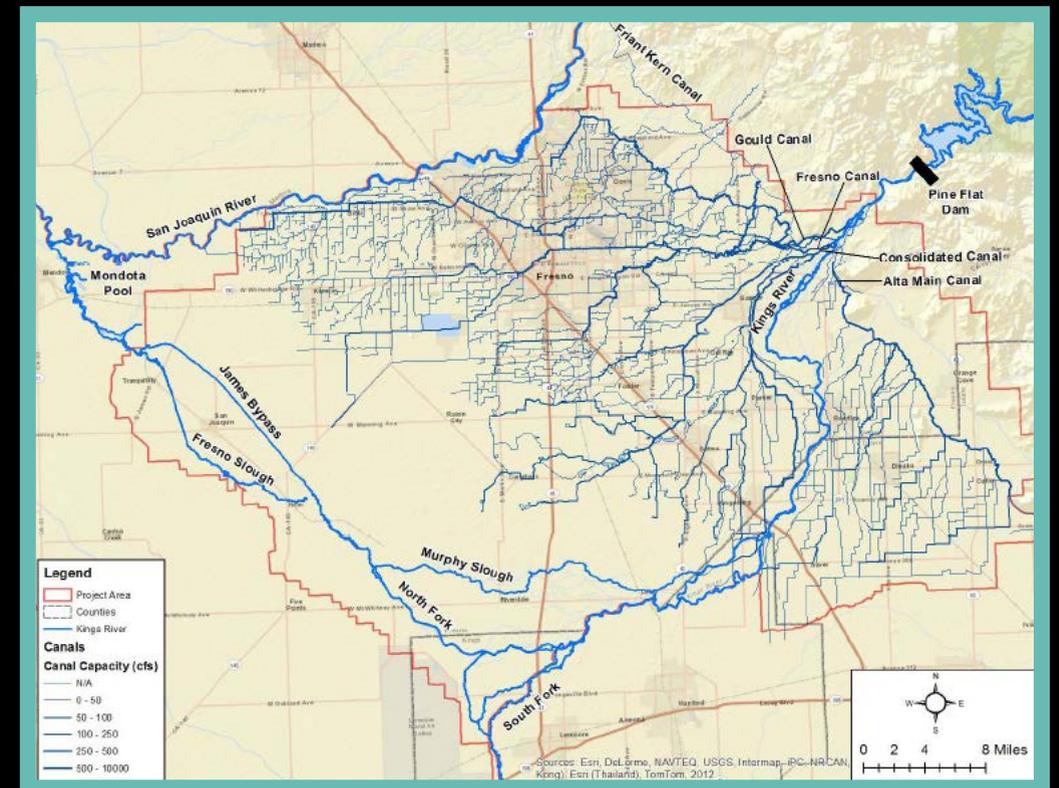
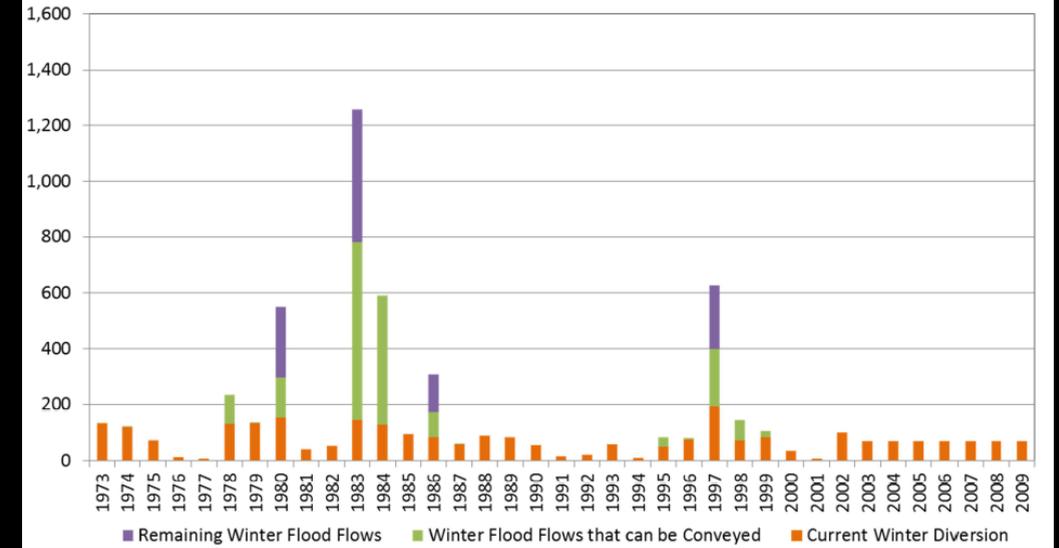
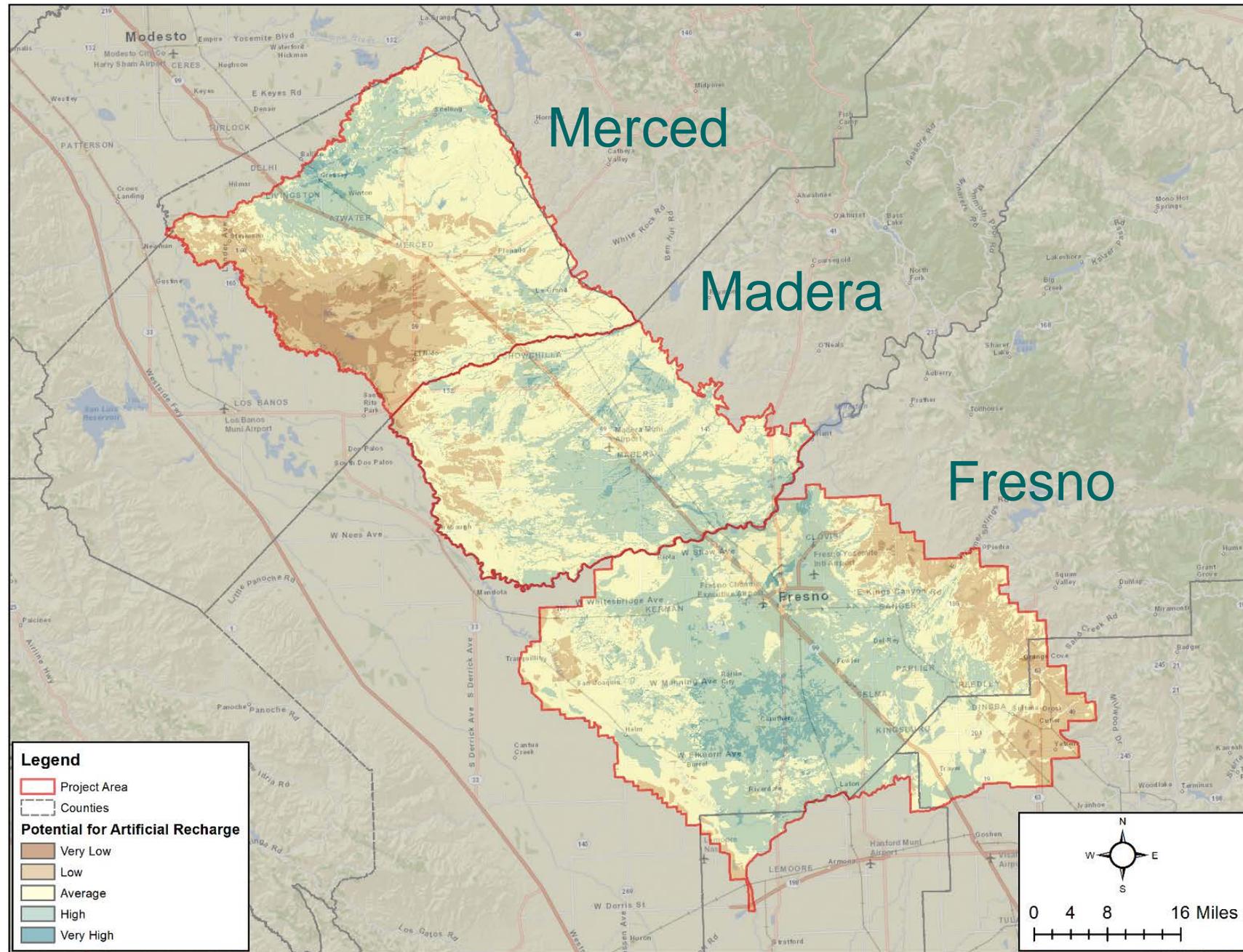


California Soil Resource Lab

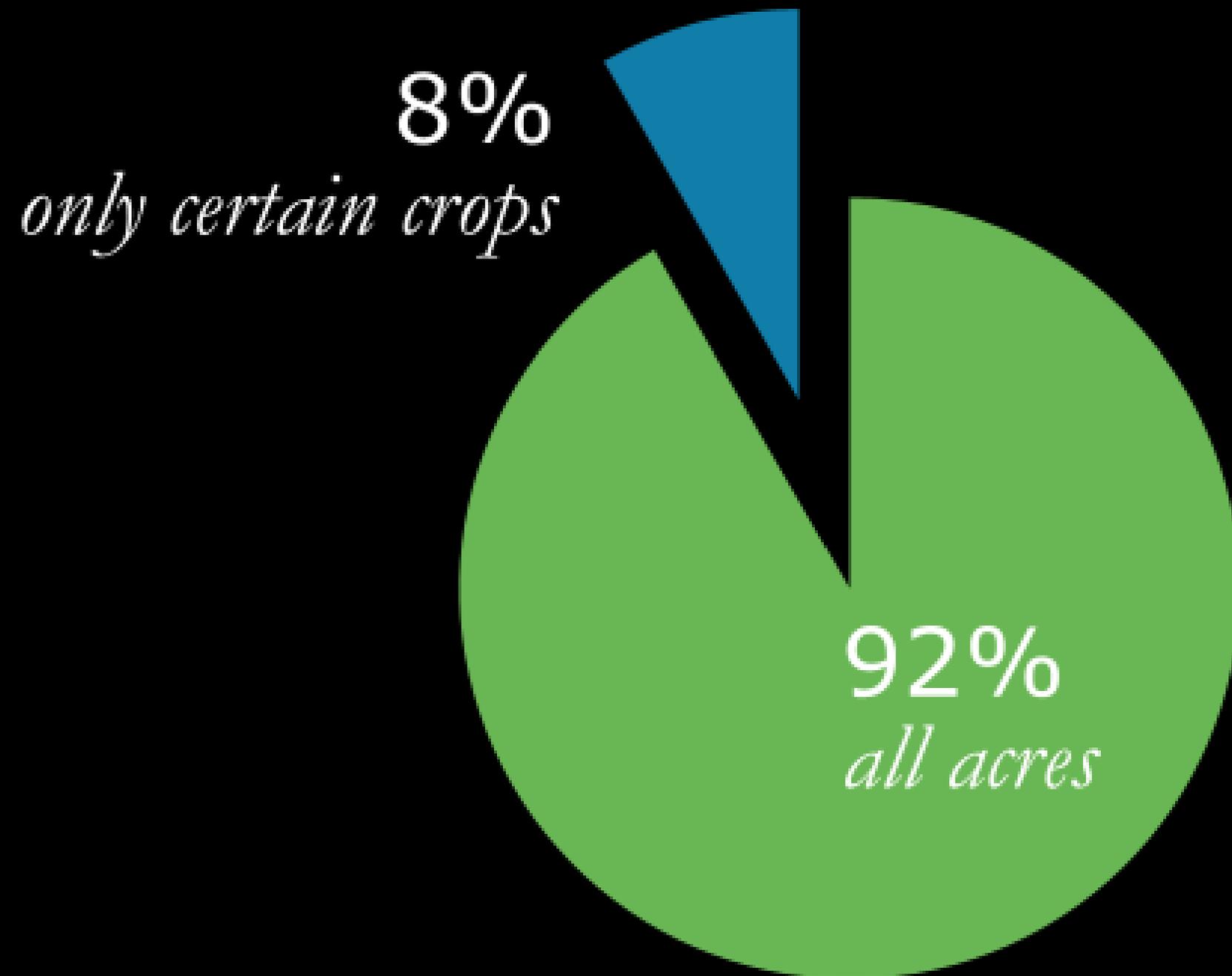


LAND IQ

# RMC Study: Opportunities for Groundwater Recharge



# Where is on-farm recharge acceptable?



# COST COMPARISON OF RECHARGE OPTIONS

*On-farm*



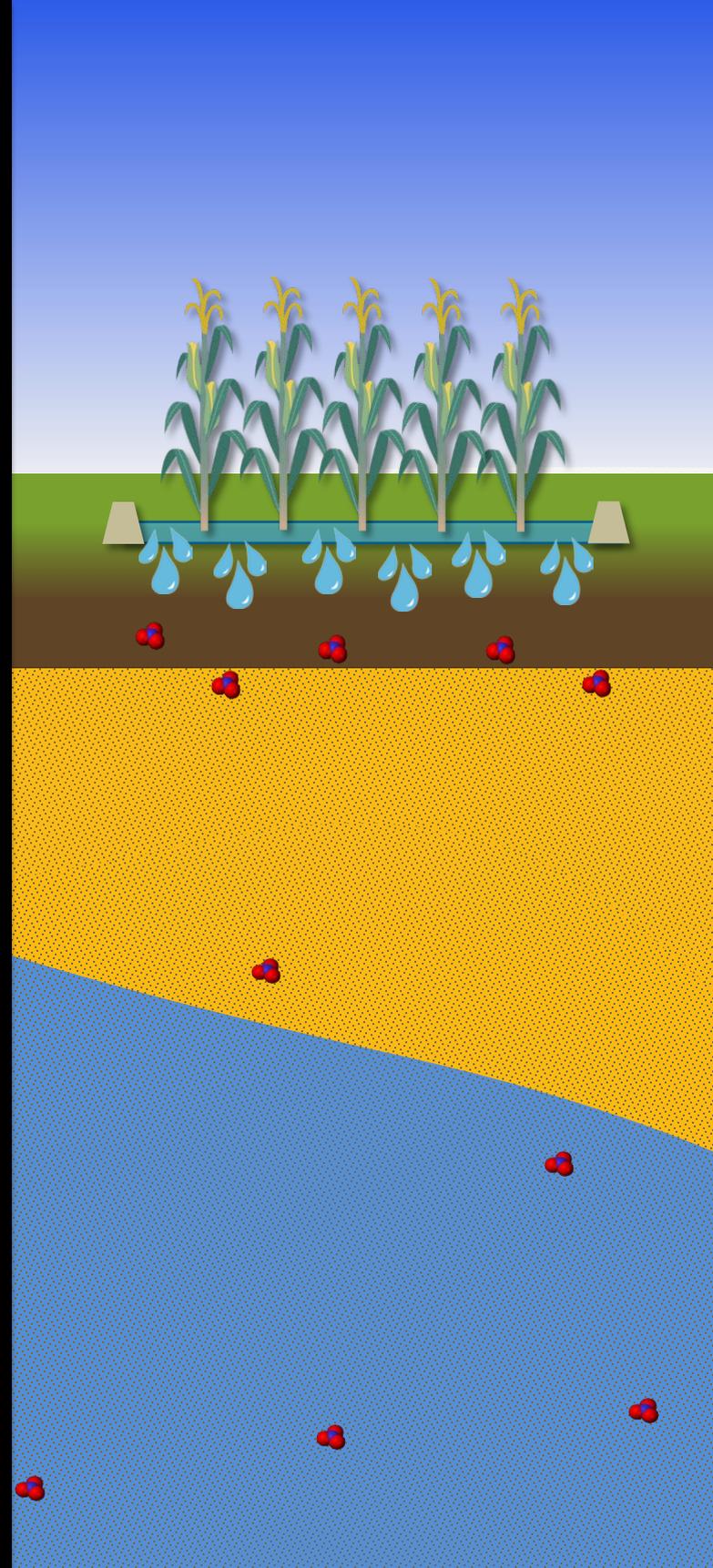
\$40 - 107/AF

*Dedicated basin*

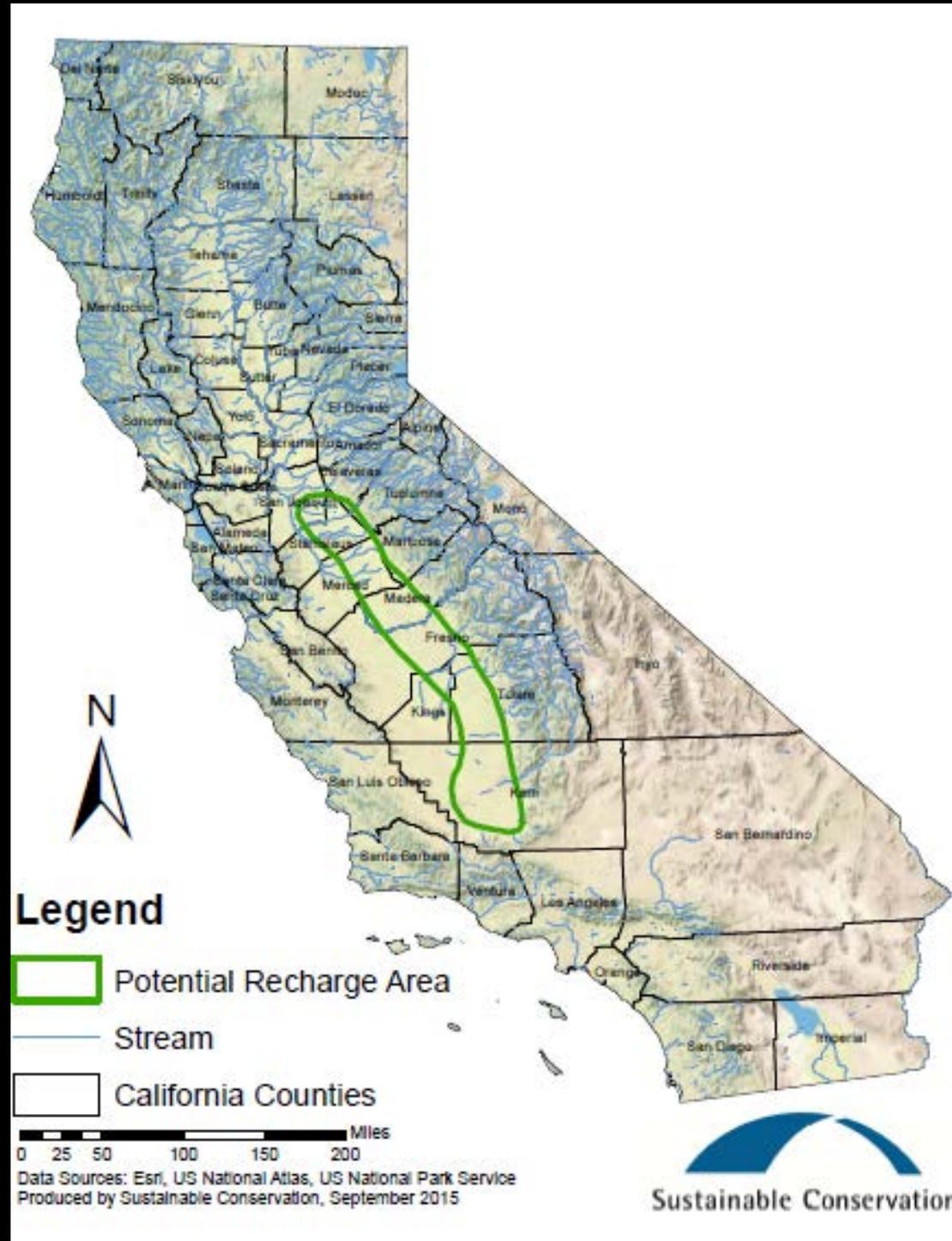


\$124/AF

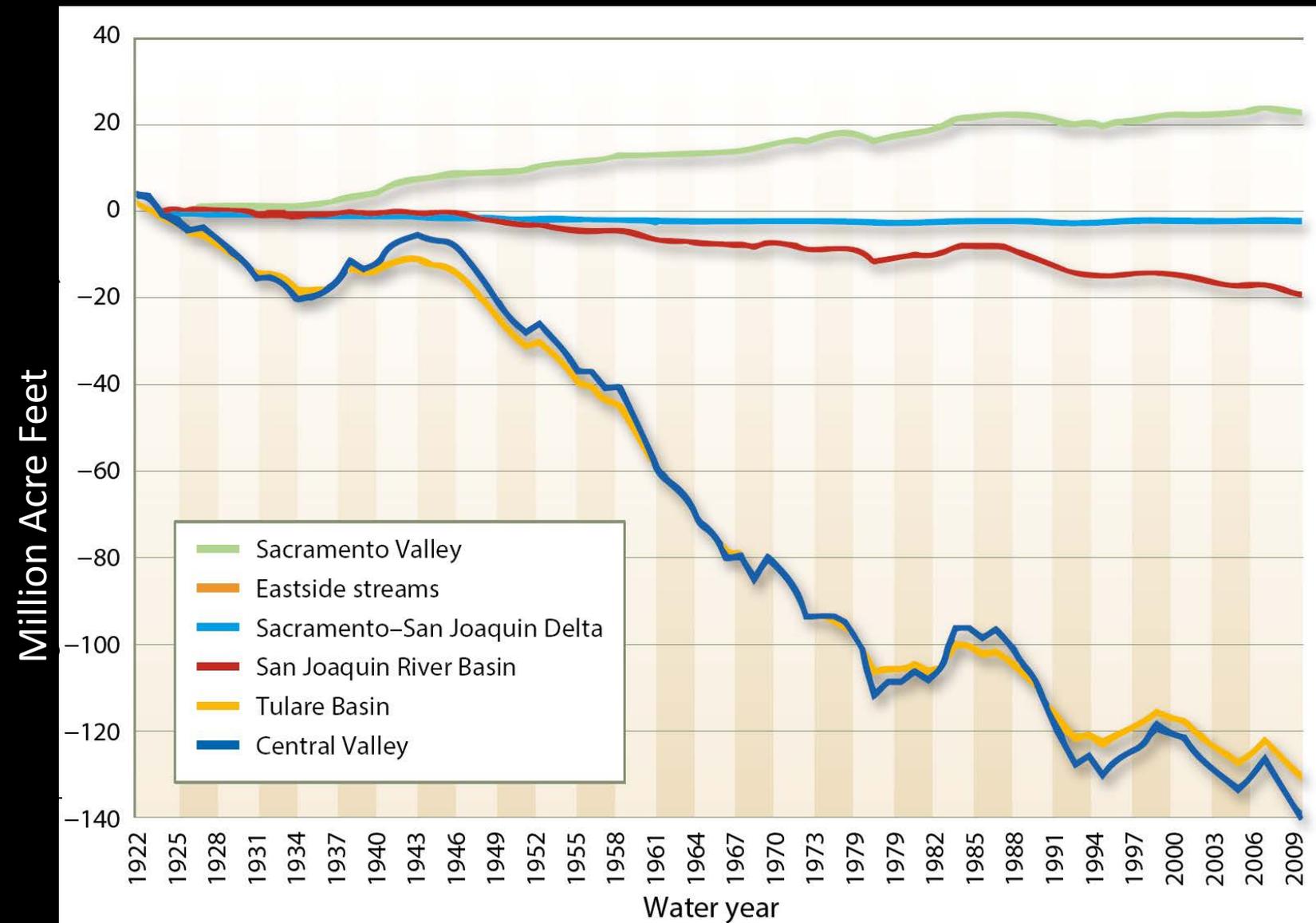
**ON-FARM  
RECHARGE  
and  
NITRATE  
LEACHING**



# Accelerated Groundwater Recharge Strategy Area

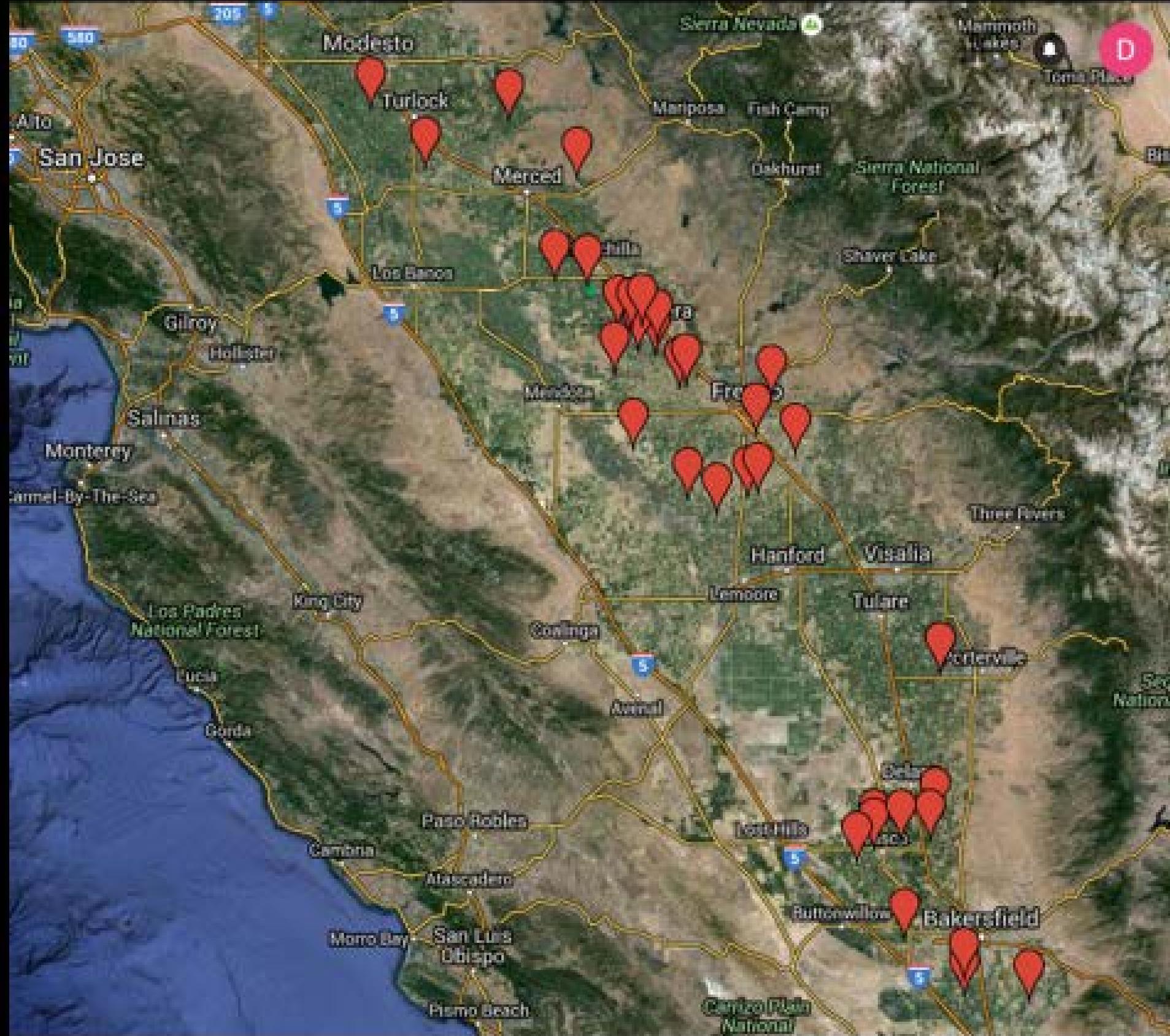


# Groundwater storage 1922 -2009



# Demonstration Sites 2015-16

- 10 crops
- 6500 acres
- Almonds: 2000 acres
- 140 sites
- Purpose: Collect data on water applied in excess of crop demand





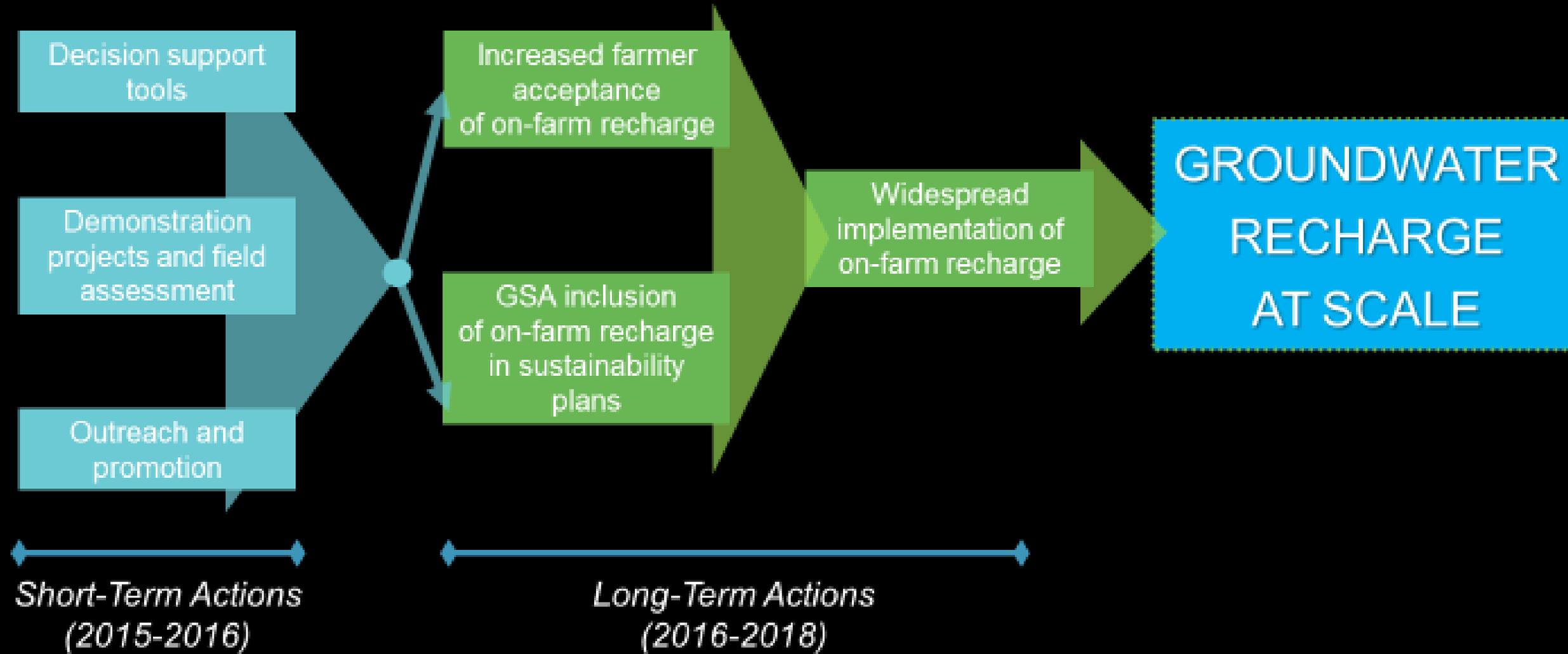
## PARTNERSHIP AGREEMENT

- Aim to make the almond industry a key player in California's water solution
- Identify viable approaches for creating a sustainable water future that can potentially be adopted by other farming sectors

# CALIFORNIA WATER ACTION COLLABORATIVE



# Leveraging Knowledge and Partnerships for Groundwater Recharge



## Challenges to accelerated use of on-farm recharge:

1. Concerns about nitrate leaching and crop suitability
2. Lack of clarity about water rights to flood water and recharged groundwater
3. Lack of incentives to reward farmers for the benefit they provide to all
4. Irrigation district preference for centralized water projects

Leveraging current practice  
with new partners  
to demonstrate solutions

