

Groundwater in the Sacramento Valley – How Does It Work?

Presentation to the
Delta Vision Task Force

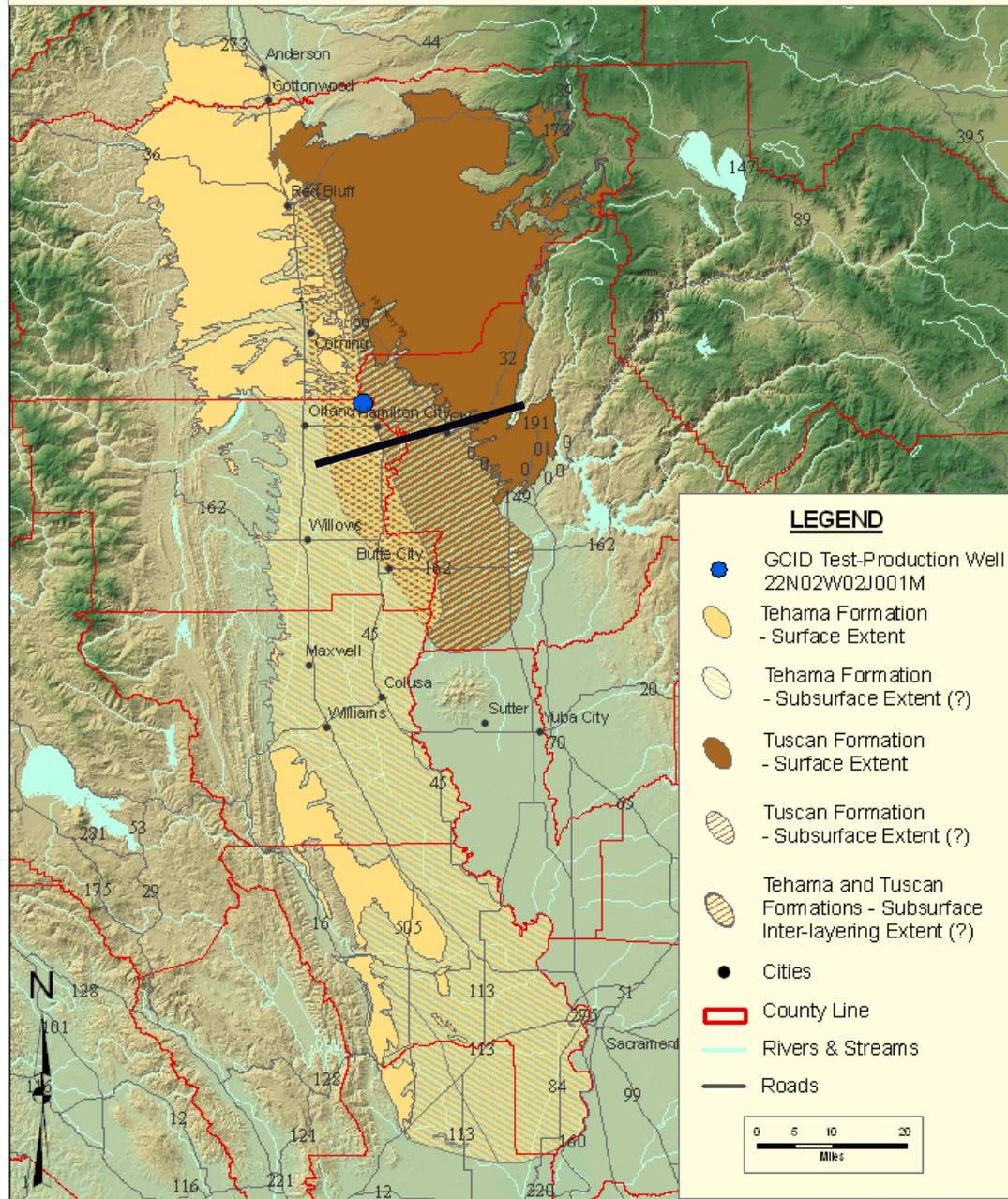
Glenn-Colusa Irrigation District
March 21, 2008

Filling in the “Gaps”

- Geology
- System Demands
- System Recharge
- Ongoing Studies
- Who is in Charge?

Geology 101

SURFACE and SUBSURFACE EXTENT of the TEHAMA and TUSCAN FORMATIONS

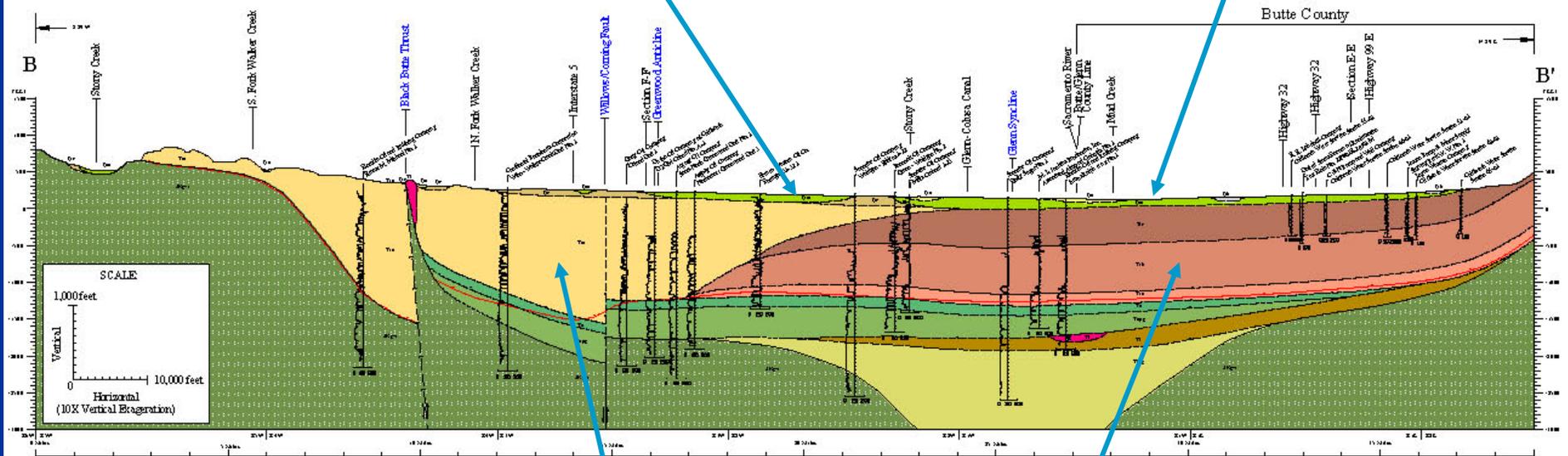


Geology 101

Riverbank Formation

Modesto Formation

Cross Section B-B'

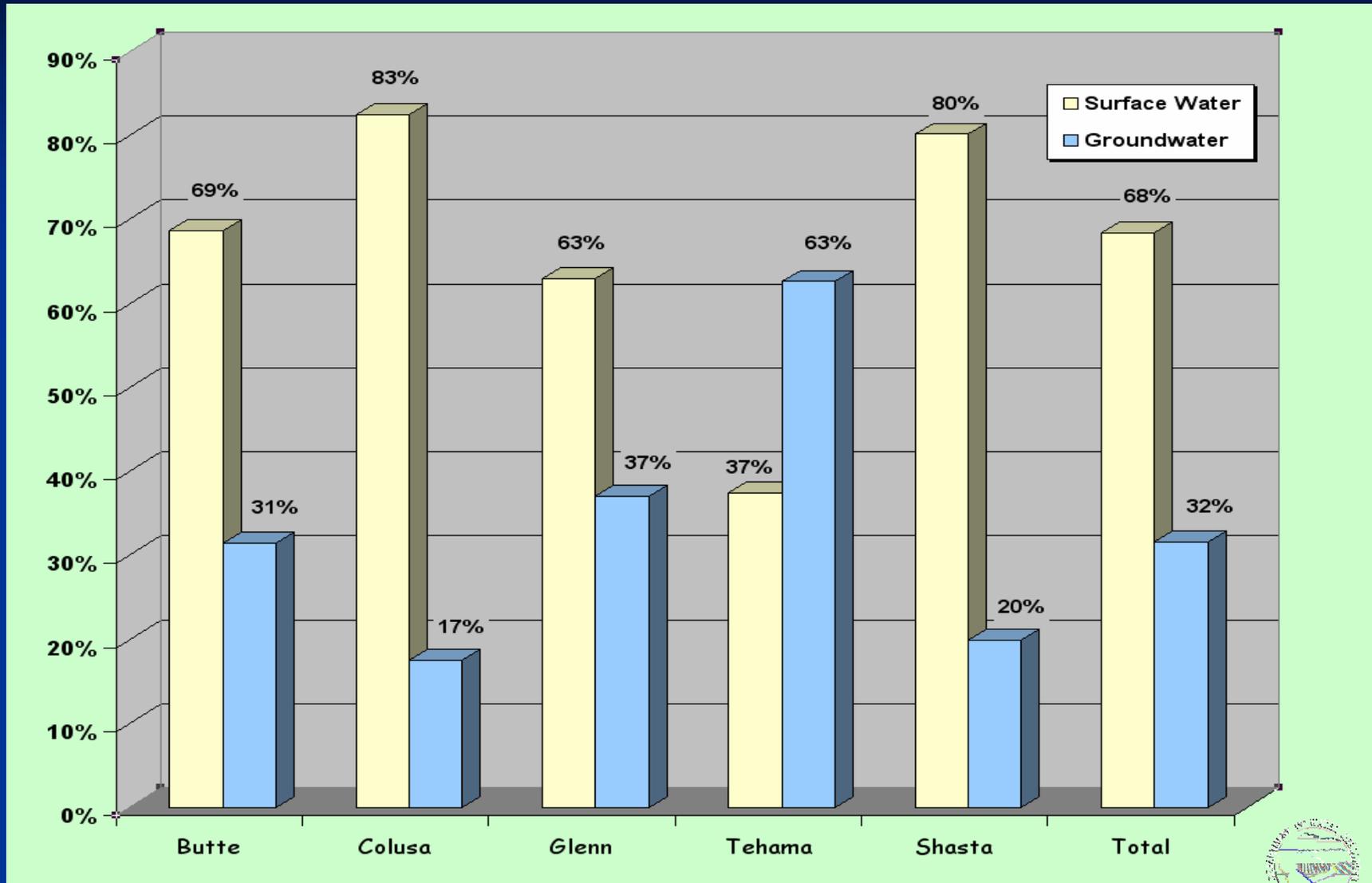


Tehama Formation

Tuscan Formation



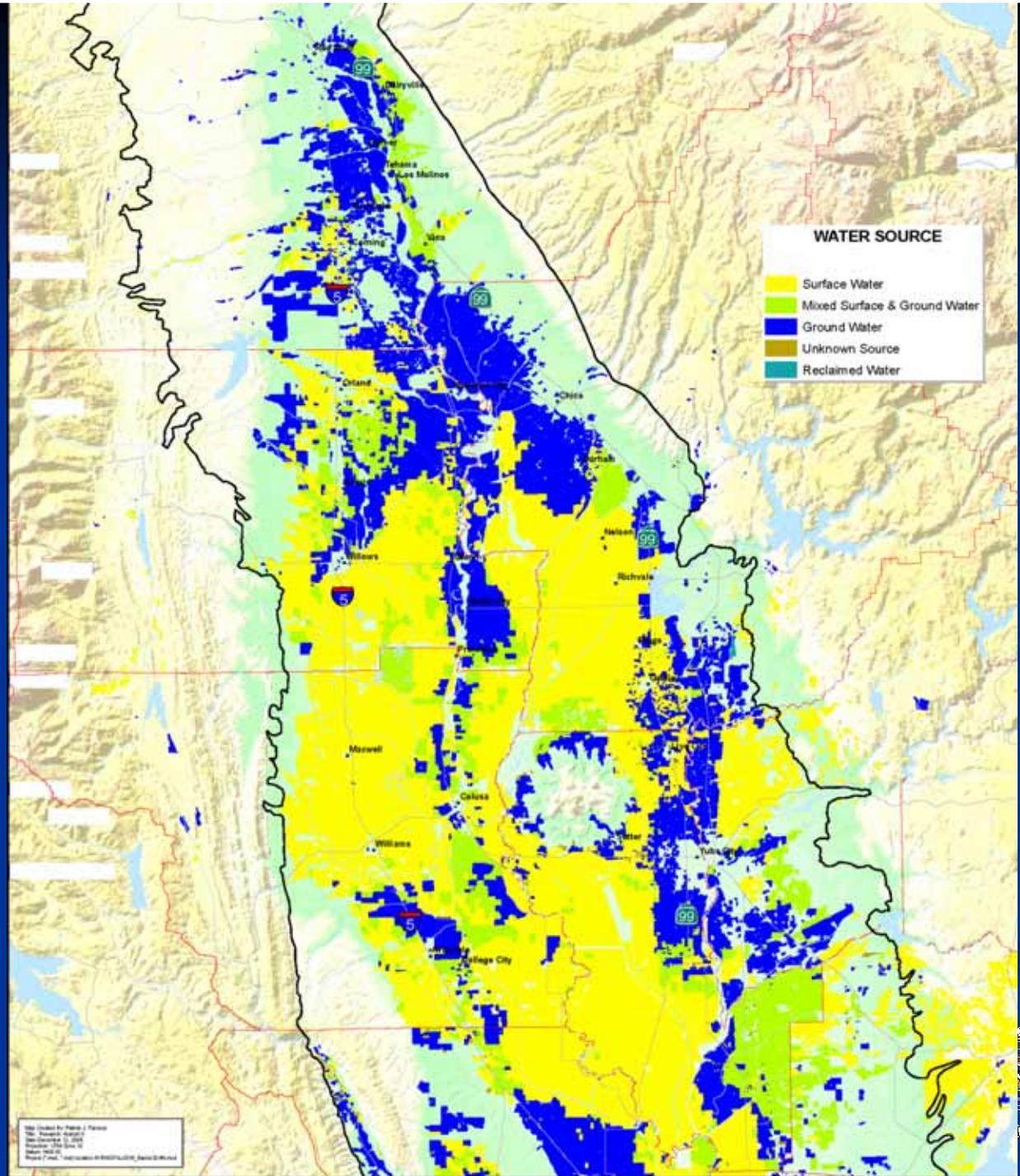
System Demands



Northern Sac Valley Prime Water Supply (% SW/GW)

Data Source: DWR ND 2000 Land & Water Use Data

System Demands



Data Source: DWR ND
2000 Land & Water Use
Data



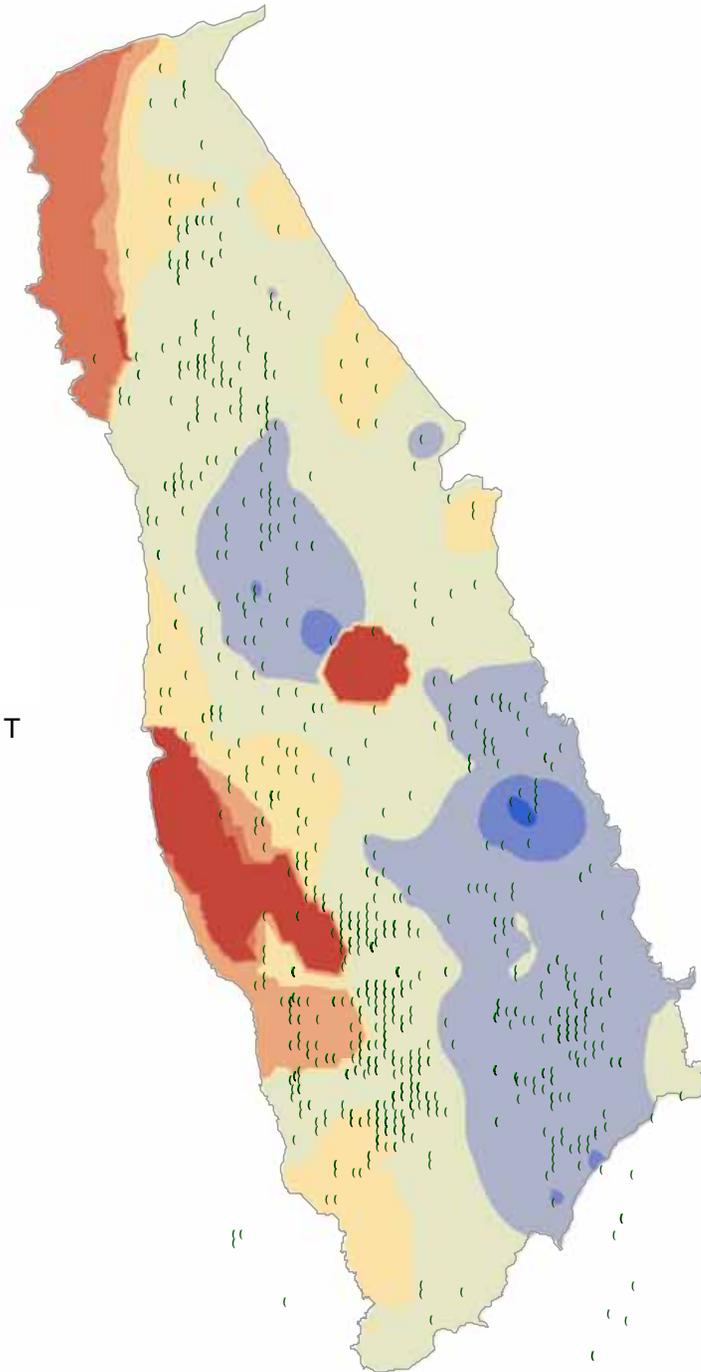
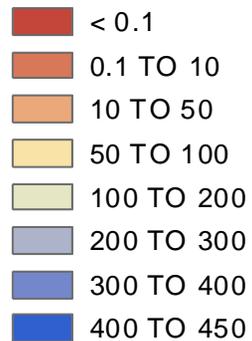
System Recharge

LEG

() HYDRAULIC CONDUCTIVITY DATA POINT

— MODEL BOUNDARY

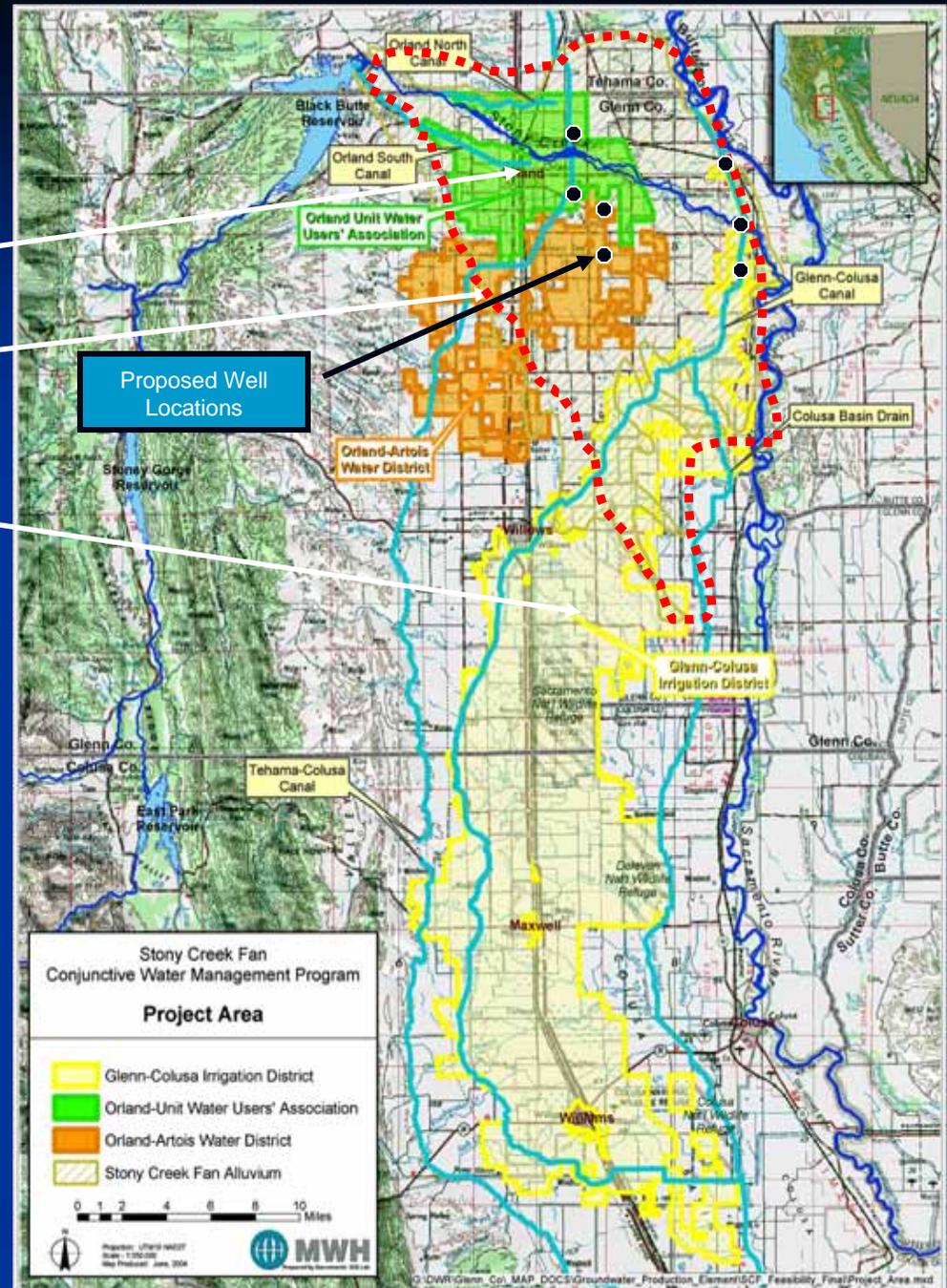
HYDRAULIC CONDUCTIVITY (feet/day)



Ongoing Studies SCF Partnership

- OUWUA
- OAWD
- GCID

Purpose of Study - Aquifer Performance Testing to better understand sources of recharges, pumping limits, and impacts



Who is in Charge?

- Irrigation/Water Districts have historically taken the lead.
- Counties attitude of regulate vs. participate
- Consensus Governance
- It's "My Groundwater"
- Northern Sacramento Groundwater Forum