

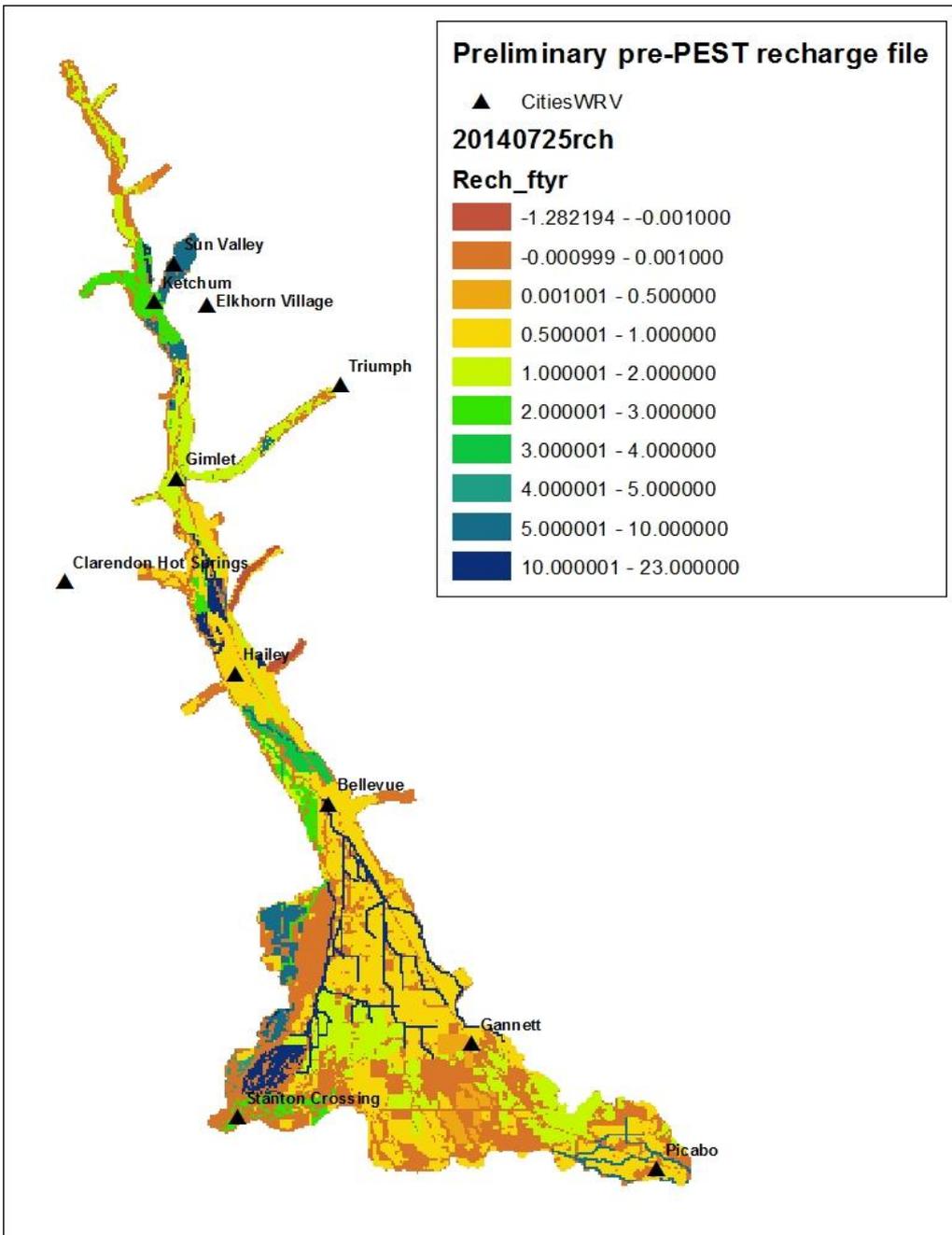


Preliminary water budget for initial calibration runs,  
Wood River Valley Groundwater Model development

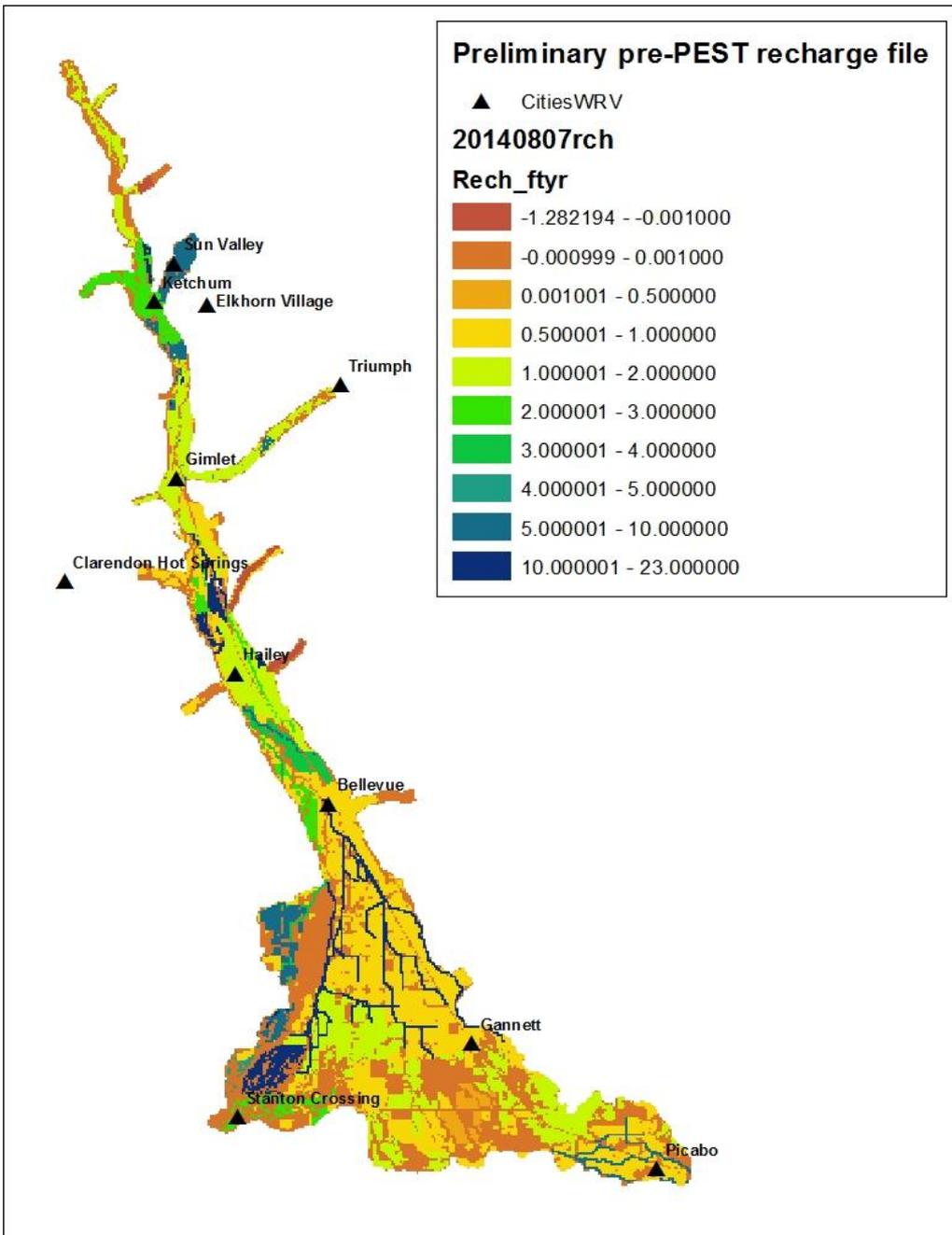
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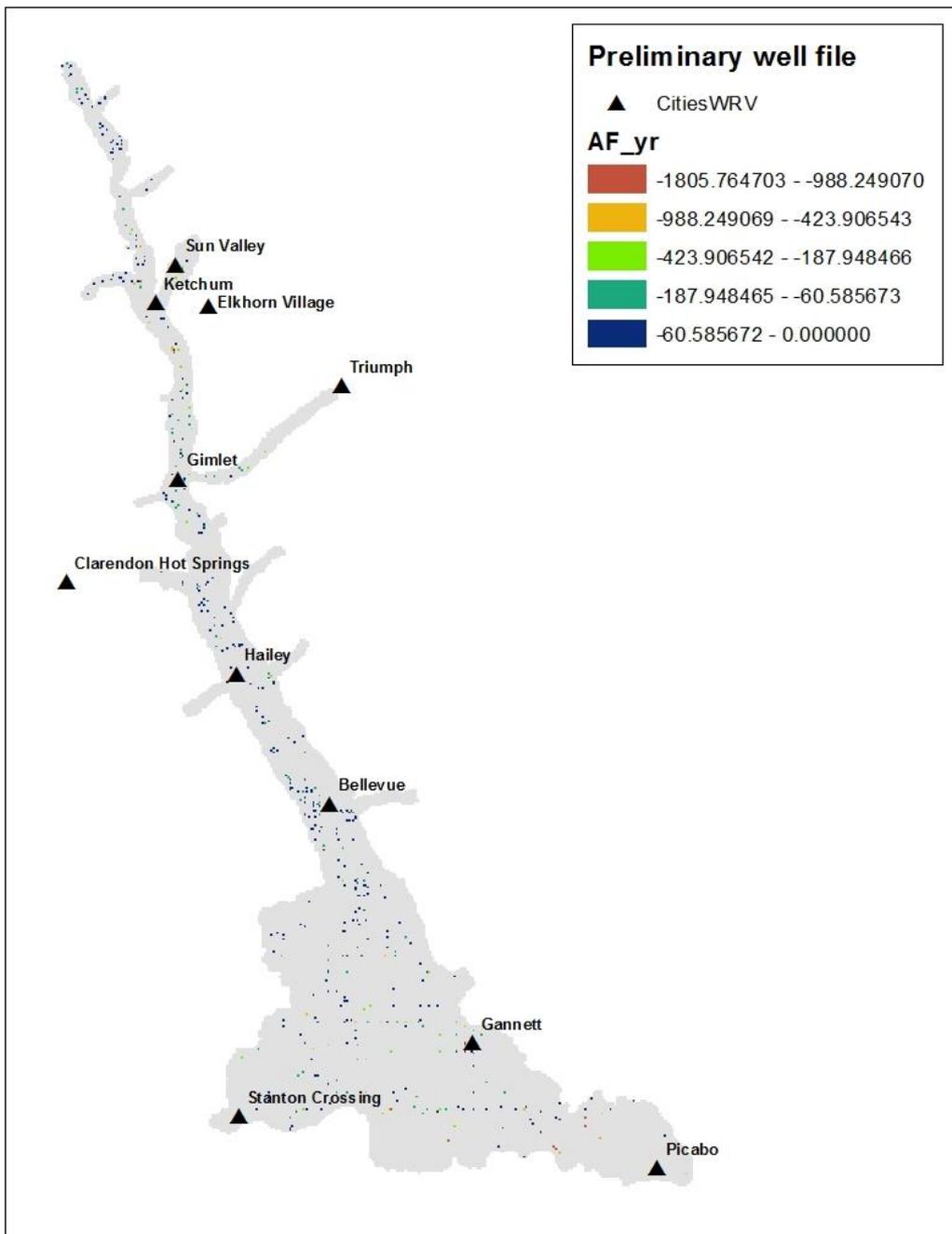




- RCH file includes canal seepage, incidental recharge, and recharge on non-irrigated lands
- Preliminary calculation of recharge = 111,000 AF/yr (7/25/2014)
- Further evaluation of recharge processing code & input data is ongoing, preliminary numbers will continue to be revised



- RCH file includes canal seepage, incidental recharge, and recharge on non-irrigated lands
- Preliminary calculation of recharge = 113,000 AF/yr (8/7/2014)
- Further evaluation of recharge processing code & input data is ongoing, preliminary numbers will continue to be revised



- WEL file includes recorded and estimated groundwater diversions
- Preliminary calculation of well pumping = -50,000 AF/yr (7/25/2014)
- Preliminary calculation of well pumping = -58,000 AF/yr (8/7/2014)
- Further evaluation of estimated pumping processing code & input data is ongoing, preliminary numbers will continue to be revised

# Water budget for preliminary steady state calibration run

- Pre-PEST preliminary water budget
  - Tributary underflow = 17,000 AF/yr
  - Recharge = 111,000 AF/yr
  - Wells = -50,000 AF/yr
  - Net river leakage = -68,000 AF/yr
  - Underflow beneath Stanton Crossing & Silver Creek = -10,000 AF/yr
- Compare to target values
  - Net river leakage = -93,000 AF/yr
  - Bartolino and Adkins (USGS, 2012) estimated underflow beneath Stanton Crossing & Silver Creek = -4,300 AF/yr

# Water budget for preliminary steady state calibration run

- Post-PEST preliminary water budget
  - Tributary underflow = 28,000 AF/yr
  - Recharge = 127,000 AF/yr
  - Wells = -50,000 AF/yr
  - Net river leakage = -78,000 AF/yr
  - Underflow beneath Stanton Crossing & Silver Creek = -27,000 AF/yr
- Compare to target values
  - Net river leakage = -93,000 AF/yr
  - Bartolino and Adkins (USGS, 2012) estimated underflow beneath Stanton Crossing & Silver Creek = -4,300 AF/yr (not a weighted target in this calibration run)