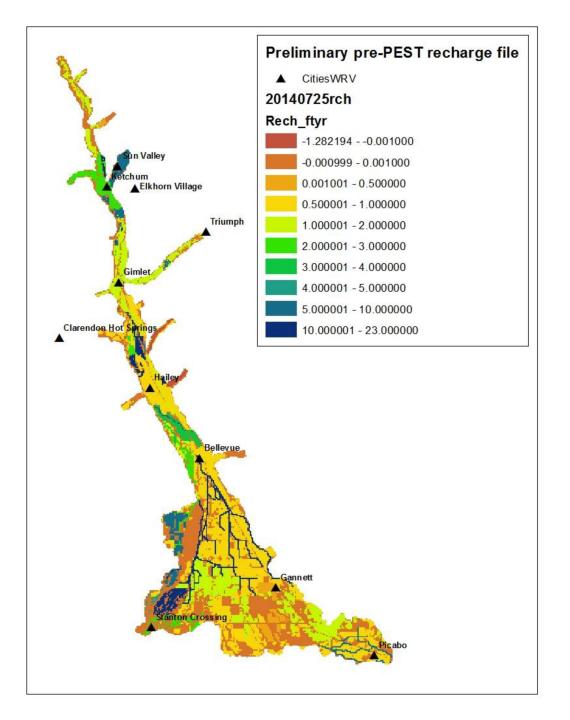


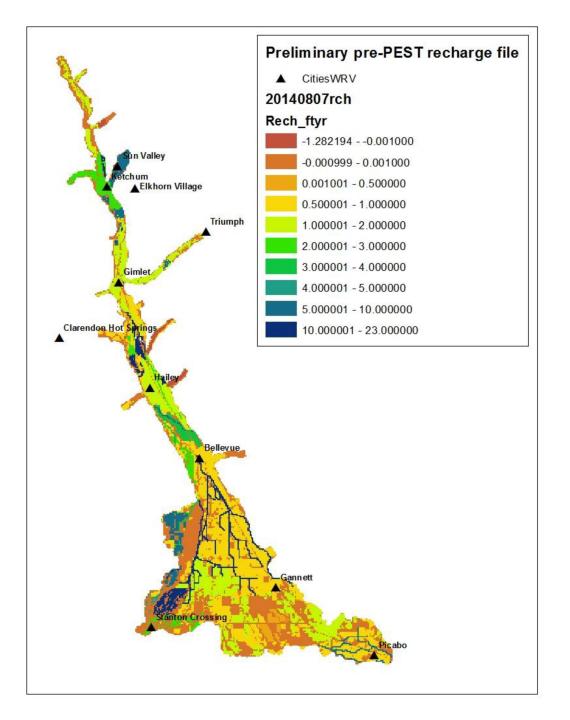
Preliminary water budget for initial calibration runs, Wood River Valley Groundwater Model development

Presented by Jennifer Sukow, P.E., P.G. August 12, 2014

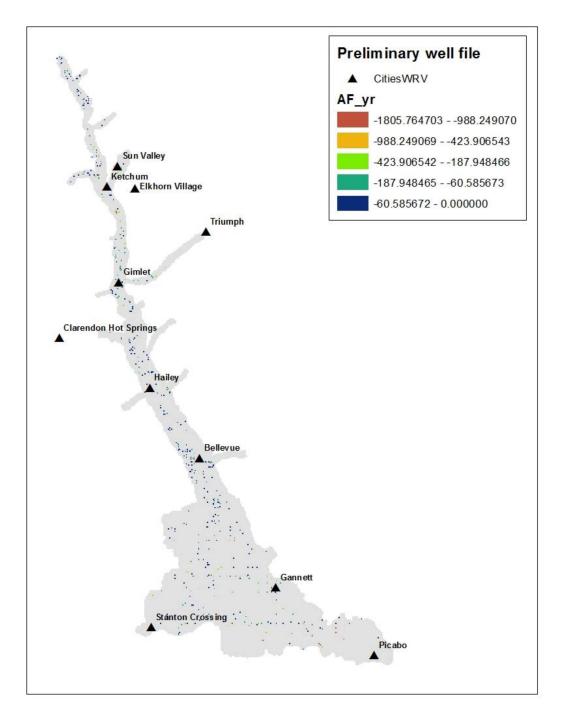




- RCH file includes canal seepage, incidental recharge, and recharge on non-irrigated lands
- Preliminary calculation of recharge = 111,000 AF/yr (7/25/2014)
- Further evaluation of recharge processing code & input data is ongoing, preliminary numbers will continue to be revised



- 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 = 111,000AF/yr
 - Wells = -50,000 AF/yr
 - Net river leakage =-68,000 AF/yr
 - Underflow beneathStanton Crossing & SilverCreek = -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 = 127,000AF/yr
 - Wells = -50,000 AF/yr
 - Net river leakage =-78,000 AF/yr
 - Underflow beneathStanton Crossing & SilverCreek = -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)