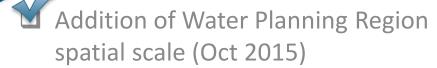


- 1. Precipitation- Monthly PRSIM data aggregated for given spatial scale
- 2. Runoff- Closure term when there is a deficit in the SW system, SW deficit is partitioned into runoff and baseflow using USGS 1-km gridded base flow index (BFI) map averaged for a given spatial scale
- 3. Sw_{in}/Sw_{out}- USGS gaged based measurements
- **4.** Gw_{in}/Gw_{out} Presently unknown terms. Set to zero to allow for calculation of GW storage change
- **5. ET**_{GW}- Calculation based from USGS NLCD and Hargreaves reference ET estimate for riparian vegetation
- Human use- Modeled/ data based human/diversions/consumption/estimated gaged & ungaged return flows
- **Recharge-** Model assumes long term steady state GW system on all non-human terms: Recharge= 10 yr moving AVG(baseflow + ET_{gw} + GW_{out} – GW_{in})
- **Landsurface ET-** Closure term to balance Land Surface. Landsurface ET = Precip Recharge Runoff
- **ET**_{SW}- Physically based estimate of open water evaporation from rivers + estimated ungaged SW return flows
- **10. SW to GW** Closure term to balance Surface Water System



Phase II (2015-2016) Objectives & Progress:





- Quantification and display of uncertainty (Feb 2016)
- Water energy nexus information (Mar 2016)
- ☐ Graphic User Interface enhancements (April 2016)
- ☐ Future base case scenario analysis (April 2016)
- Outreach (Ongoing)

