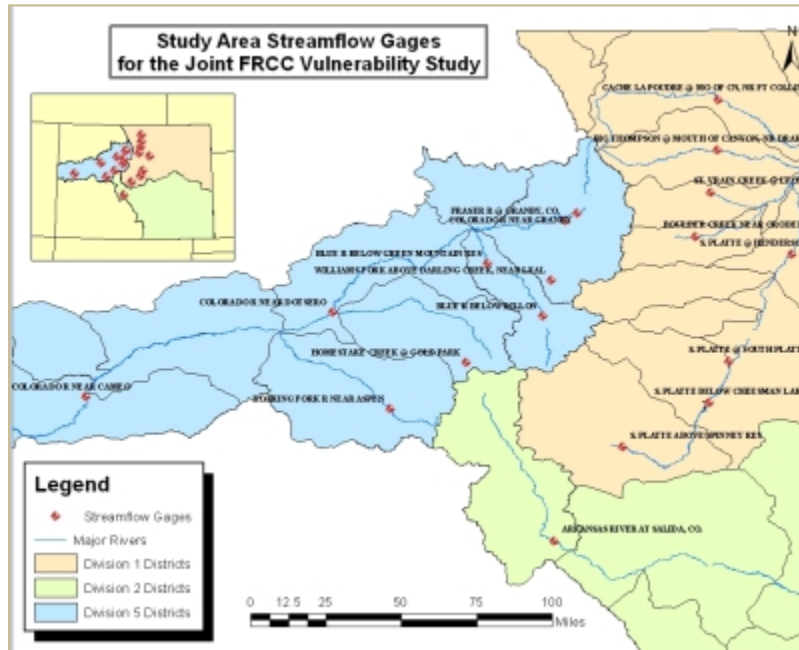


Hydrology Models

The main purpose of this investigation is to develop and calibrate hydrology models to convert climate data into information useful to water utilities, namely localized streamflow. Two hydrology models are being developed and calibrated for the river basins and tributaries impacting the gage sites (18 locations) shown below. Multiple hydrology models are desired here to identify model biases when results are compared, and to attain a more in-depth understanding of the results. The key objective is the identify streamflow changes due only to perturbed temperature and precipitation values.



The models and research teams used for this work are the:

- Evaluation and Planning model (WEAP) with Dr. David Yate, and Dr. Alyssa McCluskey
- Sacramento Soil Moisture model coupled with the Snow-17 model (Sacramento) with Riverside Technology, inc.

These models were selected primarily because they are calibrated for significant portions of the watersheds of interested, and because they are user friendly for potential application in water operation analysis.