Mathematical representation of the drought decision model - Shiny Version

Trisha Shrum

June 28, 2017

1 Scripts

1.1 global.R

1. Sources other scripts
2. Javascript coding
3. Populate a new environment with rainfall gauge info: `getStationGauge()`
4. Populate a new environment with constant (user) variables: `getConstantVars()`
5. Setting additional variables: acres, start years, simulation lengths
6. Create state variables for practice and full runs: `getSimVars()`
7. Create lists of variables for practice and full runs: `practiceRuns`, `simRuns`
8. Establish additional settings

1.2 load.R

Loads necessary packages

1.3 shinySupport.R

1. `getJulyInfo` function: Calculates available and predicted forage in July, creates a UI to display info and allows user to select adaptation level.
    - Called in `simUI.R`
2. `getCowSell` function: Creates a UI for the user to select how many cows and calves to sell. Called in `simUI.R`.

3. `shinyInsMat` function: Calculates premium and indemnification for a specific year and grid cell. Currently returns are summed but this could be done on a index interval basis instead.