

#### TX\_hubs.csv

These file contains the attributes of the potential locations for setting a hub.

- index. Record number
- hub. ID of the potential location for setting a hub
- latitude. The latitude of the location (DD)
- longitude. The longitude of the location (DD)
- invest. Necessary investment to open a hub facility (\$ USD)
- capacity. Preprocessing capacity of a hub (Mg)

#### TX\_network.csv

These file contains the attributes of the network.

- counties. Number of counties that supply biomass to the system
- hubs. Number of potential locations for setting a hub
- plants. Potential locations for setting a conversion plant
- techs. Number of technologies available for conversion
- demand. Number of liters demanded in the state of Texas (lt)

#### TX\_plants.csv

These file contains the attributes of the potential locations to open a conversion plant.

- index. Record number
- plant. ID of the potential location to open a plant
- latitude. The latitude of the location (DD)
- longitude. The longitude of the location (DD)
- tech. The ID technology implemented in a particular plant
- invest. Necessary investment to open a conversion plant (\$ USD)
- capacity. Conversion capacity for every plant according to the implemented technology (lt)
- yield. Conversion rate for every technology implemented (lt/Mg)

#### TX\_railroads.csv

These file contains the attributes of the arcs that connect hubs with conversion plants

- index. Record number
- hub. ID of the potential location to open a hub
- plant. ID of the potential location to open a plant
- distance. Distance from the hub to the conversion plant utilizing railroads (Km)
- cost. Cost of transporting biomass through that specific railroad utilizing train (\$/Mg)
- loading. Cost of loading/unloading the train (\$)

- capacity. Transportation capacity for every train (Mg)

TX\_roads.csv

These file contains the attributes of the arcs that connect counties with hubs

- index. Record number
- county. ID of county supplier
- hub. ID of the potential location to open a hub
- distance. Distance from the county to the hub (Km)
- cost. Cost of transporting biomass through that specific road utilizing truck (\$/Mg)

TX\_suppliers.csv

These file contains the attributes of the counties that supply the biomass to the system

- index. Record number
- county. ID of county supplier
- supply. The maximum amount of biomass supplied by every county (Mg)

**Note:** All the parameters are considered for a period of time of one year.