1. **What your own-choice quantity was and how it fits into the simulation.**

I added artificial rainfall into each month since I found precipitation is really little during some months and the height of grain during these months are too short which becomes 0 inches. Artificial rainfall is randomized. Each month’s AR is different, between 5-15 inches. This applies to the simulation decreases the possibility to encounter 0 growth of grain.

1. Chart, line chart

   Description automatically generated

Data in the table has been measured in cm using Excel’s function

I only input the first 3 years’ data.

Raw data:

A picture containing text, window, appliance

Description automatically generated

Text

Description automatically generated

1. By looking at the graph deeply, I noticed that the height of the grain is increasing while precipitation and temp are both increasing.

My quantity AR actually affects the precipitation directly and affects number of deer indirectly. For example, in month 15, there is a peek in AR, and precipitation also has a peek in the next month.