**Results**

Kelly Tarmon

The time the plants in each reservoir took to sprout was determined by observation. The room temperature reservoir and high heat reservoir both sprouted on day 5 of the 21-day period of observation. The refrigerated reservoir sprouted on day 21 of the 21-day period of observation.

 **Figure 1. Amount of time in days the Wisconsin fast plant *(Brassica rapa)* took to sprout.** Data is shown for the amount of time in days it took the plant to grow in each temperature condition. The room temperature and the high heat sprouted on the 5th day of the 21-day observation period. The refrigerated reservoir is shown to have sprouted on the 21st day of the 21-day observation period. There is no standard deviation shown in this figure, because there was no deviation, each plant in the reservoirs sprouted on the same day.

The average length of roots in each of the three reservoirs was calculated. The room temperature reservoir, set to 23°C was measured at 3.25cm, the reservoir grown in the high heat incubator set to 37°C was measured at 0cm. The reservoir grown in a refrigerator set to 4°C was measured at 0.875cm.

**Figure 2. Average length of roots in cm of the Wisconsin fast plant *(Brassica rapa)* at the end of a 21-day observation period.** The room temperature reservoir, set to 23°C was measured at 3.25cm, the reservoir grown in the high heat incubator set to 37°C was measured at 0cm, because the plant died at the end of week two. The reservoir grown in a refrigerator set to 4°C was measured at 0.875cm.

The average height of stem in each of the three reservoirs was calculated. For week one, the reservoir grown in room temperature set to 23°C was measured at 6.775cm, the reservoir grown in a high heat incubator set to 37°C was measured at 6.725cm, and the reservoir grown in a refrigerator set to 4°C was measured at 0cm. For week two, the reservoir grown in room temperature set to 23°C was measured at 8.825cm, the reservoir grown in a high heat incubator set to 37°C was measured at 7.525cm, and the reservoir grown in a refrigerator set to 4°C was measured at 0cm. For week two, the reservoir grown in room temperature set to 23°C was measured at 5.65cm, the reservoir grown in a high heat incubator set to 37°C was measured at 0cm, and the reservoir grown in a refrigerator set to 4°C was measured at 0.875cm.

**Figure 3. Average height of stem of the Wisconsin fast plant *(Brassica rapa)* in a three-week period.** Data is shown for each temperature condition each week. The room temperature was infrequent through the three weeks. The high heat is shown to have a decrease in height after the second week because the plant had died after the second week. The refrigerated reservoir was shown to not have grown until the third week.