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The Heat Is On

The purpose of this project was to discover how different plants (delosperma nubigenum, thymus citriodorus) affected the temperature (C°) of the surrounding area of a rooftop. I hypothesized that if the type of plant (delosperma nubigenum, thymus citriodorus) was varied, then the time it took to return to the original temperature would be decreased with the thymus citriodorus.

The experiment involved recording the original temperature, starting the timer as the heat lamp was turned on for 20 minutes, recording the temperature after 20 minutes, stopping the timer when the temperature had returned to its original temperature, and recording the time it took to return to the original temperature.

The data collected did support the original hypothesis. The data collected shows that when delosperma nubigenum is heated up for 20 minutes, it took an average of 54 minutes to return to the original temperature. When the thymus citriodorus is heated up for 20 minutes it took an average of 36 minutes to return to the original temperature. When the rooftop is heated up for 20 minutes it took an average of 58 minutes to return to the original temperature.

These findings lead me to conclude that the surrounding area of the rooftop decreases the fastest when the thymus citriodorus is placed in a rooftop garden.