

Julia Baroth  
*Does "Joe" Help Plants Grow?*

The purpose of this study was to discover if watering a mung bean plant with coffee or coffee grounds mixed into the soil will make it grow taller than if it was just watered with water and planted in plain soil. I predict that the more caffeine the plant is exposed to, the taller the plant will grow. To conduct this experiment I watched 24 mung bean plants grow for 43 days. I divided the plants into four groups: soil and water, soil and coffee, coffee grounds and coffee, and coffee grounds and water. The plant height was measured weekly. The data shows that watering plants with coffee is detrimental to their growth. It also shows that adding coffee grounds to the soil is beneficial to plant growth. There were two outliers: only one plant out of twelve that I watered with coffee grew, and only one out of twelve plants that I watered with water died. The average height of the plants (omitting the outliers) after 43 days is 12.50 cm for soil and water, 13.67 cm for coffee grounds and water, 0 cm for soil and coffee (because they died) and 0 cm for coffee grounds and coffee (also because they died). My discovery should discourage gardeners from following the urban myth, that coffee is good for your plants; plants should not be watered with coffee, but coffee grounds added to the soil enhances plant growth.