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The Effects Of Elevated CO2 Levels On Plants In Different Environments

The purpose of this experiment was to determine whether or not increased levels of Carbon Dioxide would have an effect on plant growth. Previous information indicated that enhanced CO2 levels would have a huge impact on the growth of the plants. All plants were massed and masses were recorded in a table. A control environment was established. It consisted of five Philodendrons, five Elodea, five Ferns, and five Aloe Vera. These plants were placed in four different tubs; these tubs were not given any additional CO2. Another environment was set up. In this environment, five plant specimens of Philodendron, Ferns, Elodea, and Aloe Vera were planted in four different tubs. A CO2 cylinder was hooked up to these tubs and enhanced CO2 levels were established. Once the observation time was up, the plants were re-massed. The plants were dehydrated and dry masses were also recorded. It was determined that for the freshwater environments CO2 enhancement inhibited growth, for the desert environments the tubs without CO2 had slightly better growth, for the tropical environments CO2 enhancement had a positive effect on the plants, and for the temperate environments tubs without CO2 created slightly more organic matter than plants subjected to CO2 enhancement.