

CWSF 2017 - Regina, Saskatchewan



Jaden Ford

CO2NSEQUENCES

Challenge: Environment

Category: Senior

Region: Northern British Columbia

City: Dawson Creek, BC

School: South Peace Secondary

Abstract: 'CO2NSEQUENCES' is an investigation into the effect of excess Carbon Dioxide (CO₂) on plant life, growth, and chlorophyll content. A 28-day, short-term exposure trial, consisting of nine developing Kalanchoe blossfeldiana plant samples was performed. Daily exposure to varying concentrations of CO₂ (5.0 grams and 10.0 grams) were tested each day. Measurements, photos, and chlorophyll samples were taken for each plant.

Biography

My name is Jaden Ford, I am 17 years old, and I am from Dawson Creek, British Columbia. Growing up, in a province such as British Columbia, I have always been strongly connected to our beautiful nature and our extensive environment. In 2015, during my travels to Beijing China on an educational exchange, I noticed the devastating air pollution which was present. My travels and world experiences had revealed the shocking truth of pollutants around the world. I began becoming more and more fascinated by how simple processes were irreversibly destroying our global agriculture, and I knew I could do something about it. In 2016, I created a research project titled AIRPOCALYPSE. AIRPOCALYPSE was an investigation into the effect of air pollution on the human respiratory system. I was able to learn of the consequences of air pollution on us as a population, but I then remembered why this all started; my love for the environment. I then created CO2NSEQUENCES, an experiment to find the effect of excess Carbon Dioxide exposure on plant life, growth, and chlorophyll content. This has brought me to where I am today, on my path to pursuing my dream of becoming an Environmental Engineer.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000