



**CALIFORNIA STATE SCIENCE FAIR  
2017 PROJECT SUMMARY**

<b>Name(s)</b> <b>Olivia C. Borsch</b>	<b>Project Number</b> <b>J2202</b>
<b>Project Title</b> <b>How Do Different Levels of Carbon Dioxide Affect the Height and Biomass of Radish Plants?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> If two times the amount of carbon dioxide is added to the plants, then the height and biomass will increase.</p> <p><b>Methods/Materials</b> Homemade carbon dioxide generators, plant containers with lids, radish seeds, soil, water. Measured height and weighed biomass of each plant after 10 days.</p> <p><b>Results</b> The height of the plants with two carbon dioxide generators was 0.99cm shorter than the control group and their biomass was 0.0085g lighter per plant.</p> <p><b>Conclusions/Discussion</b> The hypothesis of this project was unsupported. The biomass and height of the plants with added carbon dioxide were generally lower and less productive.</p>	
<b>Summary Statement</b> Radish plants that received extra carbon dioxide showed negative effects as measured by their height and biomass.	
<b>Help Received</b> My science teacher helped me look up information on carbon dioxide generators. Then I built and performed the experiments myself.	