



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> <b>Emily A. Reynolds</b>	<b>Project Number</b> <b>J1021</b>
<b>Project Title</b> <b>Which Kind of Green Roof Building Insulates the Best?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> What type of green roof building would insulate the best, one with grass on top or a clover ground cover? I think the grass will keep the inside of a green roof building the coolest because it is thicker.</p> <p><b>Methods/Materials</b> I built three cardboard "houses" and put grass on one, clovers on one, and one inch of dirt on another. I put each of the buildings under a heatlamp for a half hour, an hour, two hours, and four hours. Then I measured the inside temperature of each of the buildings.</p> <p><b>Results</b> The results showed the clovers kept the inside of the building the coolest and the dirt kept the inside of the building the warmest.</p> <p><b>Conclusions/Discussion</b> I thought the grass would keep the inside of the building the coolest but the results showed that the clovers did. My hypothesis was not supported.</p>	
<b>Summary Statement</b> My project is about whether grass or clovers put on top of a green roof building will keep the inside of the building the coolest.	
<b>Help Received</b> My dad drove me to Micheals to buy supplies. My dad bought me a digital thermometer .	