



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Emily A. Reynolds	Project Number 31171
Project Title Which Kind of Green Roof Building Insulates the Best?	
Abstract Objectives/Goals 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. Methods/Materials 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. Results The results showed the clovers kept the inside of the building the coolest and the dirt kept the inside of the building the warmest. Conclusions/Discussion 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.	
Summary Statement 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.	
Help Received My dad drove me to Micheals to buy supplies. My dad bought me a digital thermometer .	