



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) Elma del Aguila; Paulina Valerio	Project Number J1097
Project Title The Efficiency of Eco-Friendly Insulation: Smart House Science	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The purpose of our experiment was to evaluate different types of Eco-friendly plant insulators in a home setting. We expect the Armeria plant to be the most efficient insulator because it is a close knit, and drought tolerant plant.</p> <p>Methods/Materials We made a total of four houses, one being our control. The other three had different types of plant species on the roofs. Our tests were limited to temperature regulation. We tested in a controlled environment, and used thermal couple wire to measure temperature.</p> <p>Results Our hypothesis was correct, Armeria was the most efficient plant. It was not the lowest in temperature, but it was the most stable. It had a consistent pattern throughout the experiment.</p> <p>Conclusions/Discussion We found that using an Eco-friendly insulter not only gives back to the environment, but is a useful tool in regulating temperature in the home.</p>	
Summary Statement Our project is about finding the most effecient, eco-friendly plant insulator to use in the future building of homes.	
Help Received Father helped in supervising the building of house	