



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Alex P. Junge	Project Number J0217
Project Title Biogas	
Abstract Objectives/Goals The purpose of the experiment was to determine which type of biomass created the most biogas. The experiment consisted 5 types of biomass, dead plant material, grass clippings, cow manure, chicken manure and food scraps. Methods/Materials Built 5 digesters using 20Lt collapsible water containers with miscellaneous fittings. Each digester was partially filled with biomass and water. the air was then removed to create anaerobic digestion. Results The Food scraps created the most biogas. Conclusions/Discussion The food scraps must have the most active nutrients so to produce the greatest amount of biogas.	
Summary Statement The experiment is to test 5 different biomass materials to determine which produced the most biogas.	
Help Received Dad helped built digesters and supervise my measuring the biogas produced. He also helped burn off the biogas	