

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
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	31830
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, co	w manure, chicken
manure and food scraps. Methods/Materials	
Built 5 digesters using 20Lt collapsible water containers with miccellaneous fitt partially filled with biomass and water. the air was then removed to create anactic	ings. Each digester was
partially filled with biomass and water. the air was the removed to create anal Results	robic digestion.
The Food scraps created the most biogas.	
Conclusions/Discussion The food scraps must have the most actice nutrients so to produce the greatest a	mount of biogas
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Summary Statement	
The experiment is to test 5 different biomass materials to determine which produ	iced the most biogas.
Help Received	
Dad helped built digesters and supervise my measuring the biogas produced. He	e also helped burn off the
biogas	