

CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

Name(s) Katarina M. Guzman]	Project Number J1208
Project Title Corn to the Rescue	I	
Objectives/Goals Abstract		
To see if Polylactic acid (PLA) biodegradable cups, knives, compost pile. If this is possible America could reduce both Methods/Materials I used equal sized Polylactic acid biodegradable "plastic" d dinnerware to compare the biodegration rate over a 90 day tree, which was added every 10 days to a 90 gallon rotating was documented along with the temperature of the compose camera helped document the stages of biodegration and a se on day 90. Results I was very pleased with my results. Although my Polylacti did show significant signs of biodegration and lost 12.8% of based plastic cups showed no signs of biodegration. Conclusions/Discussion I now know that PLA cups will biodegrade in a home comp comparison, petroleum based cups take 700 years to start b future, because they are just as durable as plastic, reduces of earth naturally.	it's oil dependance an nnerware and petroleu nterval. The compost composter. The daily pile by inserting a lar cale was used to weigh c acid PLA cups did n f their weight on avera ost pile within a reaso odegration. I believe	nd landfill waste. um based "plastic" t used was ground ficus y outside temperature rge thermometer. A h the cups on day 1 and not fully biodegrade, they age, while the petroleum onable time. In PLA products are the
Summary Statement Biodegradable PLA cups can save our landfills one cup at a	time.	
Help Received		

Mom: typing Dad: chopping ficus tree Science lab: weighing of cups