

## CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Corlin I. Palmer	A
	31126
Project Title	
The Utilization of Palm Waste for the Production of Charcoal	
Abstract	
Objectives/Goals Hundreds of tons of palm leaves are sent to our overfilled landfills every day, v depleted to produce charcoal. The purpose of this project is to solve both of tho research on charcoal, I believe that commercial and homemade production net order to efficiently make charcoal out of palm waste.	nile forests are being e provlems. Based on my hods can be adapted in
Methods/Materials To do this, I will gather palm waste, chop it up into small bits, and burn them it burning, I will cut off the oxygen supply to the burning chardoal and let them so will then blend the charred palm into a fine powder and mixit with starch and together. After drying the briquettes in an oven, they will be read, to burn in a	a barbecue. While molder and turn into char. I water to hold the briquette barbecue.
<b>Results</b> After some trial and error, I was able to make nicely sized briquettes out of pall comparison of my charcoal to the Kingsford brand charcoal, the paper charcoal competitor in a few tests, but was undeniably a bit worse than its commercial ri <b>Conclusions/Discussion</b>	m charcoal. In the outperformed its val.
I believe with the right machinery and enough time to perfect its creation, the pultimately be superior to current confinencial charged, being produced at a low environment at the same time.	alm charcoal could er cost while saving the
Summary Statement By making charcoal out of palm waste, many environmental problems could be	e solved.
Help Received Mother helped with arranging and gluing the board.	