

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Edwin Campos; Angel Rodriguez	
Project Title	34564
Do Different Types of Cacti Help Disperse Oil More Efficiently?	
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Abstract	
Objectives/Goals The objective of this study is to determine whether or not cacti are a better hatu	al oil uspersant.
Methods/Materials	
Four types of cacti, which are easily grown in the United States, were used in the	ne study: prickly pear, Aloe
Vera, barrel cactus, and prickly pear tuna. Extracts of each experimental castive separately in four test tubes. Then, 2 ml of each extract were combined and pla	cond in a fifth test tube
Eighteen (18) test tubes with six milliliter of water and one milliliter of olive of	1 (three test tubes for each
of the five extracts, and three test tubes for the control (detergent solution) were	e set up for the experiment.
Three trials for every solution was conducted for a more accurate outcome One was added to its corresponding test tubes. The mixtures were allowed to react for	or three days. On the third
day, test for fats was conducted using Sudan IV and paper test.	
Results	1. The order of officiency
The result showed that the combined extract worked efficiently in dispersing oil. The order of efficiency in dispersing oil was as follows: combined extract, prickly pear, golden barrel cactus, prickly pear tuna,	
and Aloe Vera.	
Conclusions/Discussion The results further showed that the solution that contained all three extracts dispersed the oil more	
efficiently than the detergent.	jersed the off more
Summary Statement	
In our project we tright to find a natural oil depressant that can work more effici	ently than a detergent
In our project we there to find a natural on depressant that can work more effer	entry than a detergent
Help Received	