

## CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s)	Project Number	
Shelly A. Holder	.11710	
Project Title		
A-maize-ing Flotation		
Abstract		
<ul> <li>Soil samples from the excavations at the Oasis of Mara were put th determine whether the northern side of the oasis, during occupation was agriculturally dominant over the southern side.</li> <li>Methods/Materials Methods/Materials Methods: I processed the 88 soil samples through the flotation tank and organic material)from heavy fraction (rock)and soil. I then vis so I could compare the two sides of the Oasis of Mara. Materials: I used a flotation tank (made from 15- or 55-gallon drur strainers, dissecting microscope, microscopic camera and acid free Results I found botanical materials in every sample. However, the weight of substantial in the samples taken from the north side of the datum lit the datum had more weight in the recovered materials. Conclusions/Discussion I was not able to prove that the botanical materials were of an agric have to identify each plant piece using a high-powered electron mi</li></ul>	hrough the flotation process to n by the Serrano and Vanyume Indians, k to separate the light fraction (botanical sally analyzed and weighed each sample ms & PVC pipe), metric scale, paint e bags. of the botanical materials was more ine. The samples from the south side of cultural nature because to do so I would icroscope.	
Summary Statement The flotation process was used to separate out botanical materials compared based on the sample's location.	so they could be analyzed and	
Help Received My mother helped type the project and printed photos. My father Richard Cerreto allowed use of field material from the Oasis of Ma	took pictures and built the tanks. Prof. ara.	