

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Rachel M. Yuengert	S0617
Project Title The Low-Down on Landslides	
Objectives/Goals Abstract The objective of this project is to test several methods of landslide prevention to most effective. Methods/Materials Six identical 90 degree slopes were created from a 2:1 mixture of topsoil and sa control slope and used no landslide prevention. The second had a piece of plyw represent a barrier wall. The third had netting stretched across it representing en the fourth had dowels inserted into the top of the cliff representing soil nails. T were adjusted, without changing the volume of soil, into 60° and 30° slopes, reswas sprayed on each slope. Results The control slope collapsed, but none of the other slopes collapsed. Conclusions/Discussion The results were inconclusive and did not show the most effective method. Also problems with the models. For example, the model did not accurately represent because it lacked a discrete sliding surface. The barrier wall and erosion contro were also not to scale. There was a large range of times for the spraying of the could have also skewed the results.	o determine which is the and. The first was the rood in front of it to rosion control netting, and 'he fifth and sixth slopes spectively. 30 oz of water o, there were some a landslide prone hill l netting representations water on the slopes which
Summary Statement This project tests different methods of landslide prevention to find the most effe	ective one.

Father helped spray models