CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY

Name(s)
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Project Number
J0714

Project Title
Slip Slidin' Again

Abstract

Objectives/Goals
The goal of my project was to determine the effect that slope and vegetation have on soil erosion caused by rain. I believe that there will be more erosion in areas with the steepest slope the least vegetation

Methods/Materials
Ten areas of various slopes and vegetation were identified as test sites. Three methods of testing erosion were chosen. Catch-pits were used to estimate how much soil had been accumulated at a site. Erosion Pins were used to estimate how much soil had been lost from a site. Turbidity readings were used to measure the suspended matter in the water collected. Samples were collected after each one inch of rainfall from each of the ten areas. Nine inches of rain fell during the two months of observation.

Results
The steepest areas and the loose, non-vegetated areas were the most eroded.

Conclusions/Discussion
My conclusion is that slope and vegetation play an important role in the way that particular areas erode.

Summary Statement
Does slope and vegetation have an effect on soil erosion caused by rain?

Help Received
Teachers and mentors helped edit report. Parents helped with board display.