



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Marianna P. DaRos	Project Number S0801
Project Title Preventing Soil Erosion	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals In this experiment, three forms of management practices were tested. The goal of the experiment was to discover the most effective way to slow down soil erosion by water in the conditions that they were set up in.</p> <p>Methods/Materials This was done by placing hand compacted garden soil into a PVC gutter on a slope, and applying the allotted management practice as well as simulating rainfall by sprinkling water from above. Afterwards, the dried runoff materials will be weighed and analyzed for the final conclusion.</p> <p>Results At the end of the experiment, all of the final weights of each test after three trials were averaged together. The average soil loss for the test with no protection was 1252.86 grams. In the cases of the grass test, there was an average of 208.74 grams of soil lost. The mean amount of soil loss for the chemical stabilizer was 14.93 grams. Finally, with the least amount of soil loss, was jute mat. On average, this practice lost 12.28 grams of soil.</p>	
Summary Statement The goal of this project is to determine the best hillslope erosion preventative to slow down soil erosion by water.	
Help Received Father helped me put together the contraption for the experiment and perform the experiment.	