



**CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY**

Name(s) Finn Horve Sukkestad	Project Number J0828
Project Title River Bank Erosion: Rip Rap Records	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The purpose of this project is to find out which rip-rap material is best at preventing water erosion. The three barriers tested were wood rip-rap, rock rip-rap, and a plant rip-rap.</p> <p>Methods/Materials In the experiment, a trench represented the river cavity and sand was embedded into its banks with the help of coffee filters. The barriers were then placed around the mounds of sand and a hose provided the rushing water. In the three trials, measurements of the remaining sand were taken on a small weight scale and then recorded.</p> <p>Results The results indicated more than what was in question. It was discovered that barriers do, in fact, prevent water erosion but, more importantly, that the material used as a barrier is not as important as the way that that barrier is built.</p> <p>Conclusions/Discussion That is, an arch-shaped barrier of wood, rock, or plant will prevent erosion at the same rate.</p>	
Summary Statement This project is about the best methods for preventing water erosion on the banks of our Earth.	
Help Received JoEy watched while I recorded all measurements to make sure they were accurate; Mamma helped type report ; Pappa showed me how to make the graph results on the computer.	