



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2001 PROJECT SUMMARY

Your Name (List all student names if multiple authors.) Casey L. Bruckenstein	Science Fair Use Only
Project Title (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9) Slip Sliding Away	J0802
	Division <u>J</u> Junior (6-8) <u>J</u> Senior (9-12)
Preferred Category (See page 5 for descriptions.) 7 - Environmental Biology	
Abstract (Include Objective, Methods, Results, Conclusion. See samples on page 14.) Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges. My project was to see what materials help prevent erosion the best. Five wood boxes with identical shape and size, were constructed. Each box was filled with soil and on top of the soil were sticks, rocks, hay, and wood chips. In the last box there was nothing placed over the soil. I imitated rain fall in the same amount over each box and caught the run off from each box and labeled the container. After letting the water run off to settle I measured the amount of soil at the bottom of each container. The box with the plain soil consistently reached the highest levels of erosion of the five boxes. The reason why the sticks, straw, and rocks were so successful was because the water would hit the materials and spread out so it wouldn't hit in one spot which would cause the erosion to occur. The reason why the plain dirt was so unsuccessful was because the dirt didn't have anything to protect it from the water and the dirt would just wash away. I enjoyed learning about erosion and feel it is an important lesson. In our area where I live we receive a lot of rain fall and erosion is a real problem to the enviroment. The waters become muddy and create an unhealthy invironment for the fish.	
Summary Statement (In one sentence, state what your project is about.) My project is about erosion control and what materials prevent erosion.	
Help Received in Doing Project (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4. My mother helped with my back board, and my dad helped me build my testing boxes and perform the test.	