



**CALIFORNIA STATE SCIENCE FAIR  
2013 PROJECT SUMMARY**

<b>Name(s)</b> Michelle A. Stevens	<b>Project Number</b> <b>J2124</b>
<b>Project Title</b> Dawn vs. Ivory with Wave Movement	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> To determine which soap (Dawn or Ivory) will break down more oil in an ocean environment.</p> <p><b>Methods/Materials</b> In this experiment I used 296 ml cups to hold the sea water with oil and dish soap on a machine that mimicked wave movement. The machine used a hurst motor, a baking sheet, a plywood sheet and a non-slip shelf liner. While the cups were on the machine, I weighed three coffee filters and a paper bowl, so that I had the number to subtract from my data. After the cups were finished with their time on the machine, I drained the water using a strainer and three coffee filters (one to filter and two to swipe). I then let the water evaporate out of the filter and weighed the oil. Finally, I recorded the data.</p> <p><b>Results</b> My results were inconclusive.</p> <p><b>Conclusions/Discussion</b> Because my results were inconclusive, I decided that there might have been errors in the measuring.</p>	
<b>Summary Statement</b> My project is about trying to help clean the ocean case of oil spills.	
<b>Help Received</b> Cousin helped me build the machine; Mother helped me type.	