



**CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY**

Name(s) Natasha M. Darras	Project Number J1405
Project Title Fear of Flying: Am I Allergic to That Flight?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My investigative question is "Fear of Flying: Am I Allergic to That Flight?" This is concerned with the presence of peanut snacks provided on airplanes and passengers who may have severe reactions to them.</p> <p>Methods/Materials</p> <p>Methods A. Categorize and color- code sterile swabs B. prepare distilled water, phosphate buffered saline ph 7.4, distribute in two containers C. Swab Seat, tray table, and armrests. D. Label swabs, ice and send to XXXXX Laboratory.</p> <p>Materials 1 America West "Airline A 319" Flight 820, 1 America West Airline "Airline A 319" Flight 805, 1 America West Airline "Airline A319" FLight 748, 1 XXXXX Peanut Allergy Kits , 20 Sterile Swabs, 1 1 Liter Distilled Water, 1 packet Phosphate Buffered Saline ph 7.4, 1 Singer Electric Sewing Scissors, 1 XXXXX Laboratory, 2 Fedex shipping boxes, 6 Blue Ice, 4 Air Sick Bags, 8 Airlne Tickets, 1 Spool of Yellow Yarn, 1 Spool of Light purple Yarn, 1 Spool of Olive Green Yarn, 1 Spool of Hot Pink Yarn, 4 Colored Coded Markers, 1 Black Pen, 1 rd Sharpie, 20 Sticky Noted, 1 4x4 Cardboard Cutout, 1 2x8 Cardboard Cutout, 1 roll of Scotch tape, 1 Ice Chest, 2 4 ounce containers.</p> <p>Results Peanut Residue (2.5 parts per million) was found on sample number 012101 seat. Three out of four test seats 9 samples 012102, 012103, 012104 resulted in "Non-Detectable Amounts" of peanut residue. Although the residue was detectable, the amount is ot likely to cause a servere reaction in a passenger with a known peanut allergy. My hypothesis about peanut residue being present was correct but the corollary concern for an effecting amount was not proven.</p> <p>Conclusions/Discussion In conclusion, peanut residue was found on one airplane 9 sample 012101 seat. THree out of four test seats 9 samples 012102, 012103, and 012104, resulted in "Non Detectable Amounts" of peanut residue. Although the residue was detectable, the amount is not likely to cause a servere reaction in a passenger with a known peanut allergy. My hypothesis about peanut residue being present was correct but the corollary concern for an effecting amount was not proven.</p>	
Summary Statement My investigative question asked if there was enough residue from peanut snacks distributed in a airlane to cause a reaction in a passenger with a severe peantu allergy.	
Help Received My mother helped type and edit my report and she flew with me on the flights.	