



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) Marvia Cunanan; Katie Land	Project Number J1904
Project Title The Fruit Factor	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals Will a wounded avocado produce more ethylene gas than an avocado simply left alone?</p> <p>Methods/Materials 4 Kitagawa tubes 1 Kitagawa aspiration pump 4 unripe bright green Haas avocados Small notebook Pencil 4 plastic large airtight snapware containers Methods: Wound 2 avocados and leave 2 unwounded. All 4 avocados were placed in containers for 24 hours. After 24 hours, use Kitagawa tubes with aspiration pump to measure ethylene gas produced.</p> <p>Results Wounded avocados produce less ethylene gas than non-wounded avocados.</p> <p>Conclusions/Discussion Based on research, avocados are major ethylene producers and we hypothesized that wounded avocados would produce more ethylene gas than non-wounded avocados, because wounded fruits are supposed to produce ethylene faster than non-wounded fruits. However, our results proved otherwise. Thus, it is important to protect avocados during transport so they can produce more ethylene gas.</p>	
Summary Statement Wounded avocados produce less ethylene gas.	
Help Received Friend helped lend Kitagawa aspiration pump.	