



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

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Project Title Comparing Fruit Preferences in Labstock and Wild Drosophila melanogaster	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals Labstock and Wild Drosophila melanogaster, fruit flies, were collected and observed over a number of days in intervals of about an hour.</p> <p>Methods/Materials During each observation period data were collected at the end of 5-minute increments of time to determine fruit preference in the two different types of D. melanogaster. Equal amounts of each fruit (by weight) were added to a non-nutrient agar media that was poured into agar plates. 4.5 cm diameter discs were cut from the agar plates and evenly distributed in 4-liter plastic containers. Fly preferences were observed in regular light and dim red light.</p> <p>Results Results showed that under dim red light flies would only crawl and were not very active. The data tables show that the Labstock flies spent a significant amount of time on the control, which has no nutrients, possibly indicating that the Labstock flies, grown in a controlled atmosphere for many generations, had lower survival skills than the wild flies.</p> <p>Conclusions/Discussion Overall the Labstock Drosophila melanogaster slightly preferred the apple medium out of orange, pear, banana, and control. The Wild Drosophila melanogaster preferred orange, but not by a significant amount.</p>	
Summary Statement Over time Labstock and Wild Drosophila melanogaster (fruit flies) were observed in containers in order to compare fruit-type preferences.	
Help Received	