



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> <b>Kaley E. Mulligan</b>	<b>Project Number</b> <b>J1916</b>
<b>Project Title</b> <b>How Does the Coloring and Sweetness of a Flower Affect Bee Visitation?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of this project was to determine how the coloring and sweetness of a flower affects bee visitation. My hypothesis was that bees would be most attracted to pink "flowers" with yellow, sweetened centers. <b>Methods/Materials</b> I made twenty paper flowers out of five different colors (red, blue, white, yellow, and pink); the centers of the flowers varied (by color and by sweetness). On three different occasions, I set the flowers out for approximately twenty-five minutes each time. I tabulated the number of bees that landed on each flower to determine what the bees were most attracted to. <b>Results</b> The total number of "bee visitations" was as follows: white flowers--48, pink flowers--36, blue flowers--33, yellow flowers--33, and red flowers--31. Flowers with sweetened centers--87, with honey--64, with a center--7, and with nothing--4. <b>Conclusions/Discussion</b> Due to the number of bee visitations to each type of flower, I concluded that bees were most attracted to white flowers with sweetened, yellow centers. Because these were paper flowers, the results may be different in an experiment with real flowers.	
<b>Summary Statement</b> My project was to determine how the coloring and sweetness of a flower affected bee visitation.	
<b>Help Received</b> My parents helped put together my board.	