



**CALIFORNIA STATE SCIENCE FAIR  
2015 PROJECT SUMMARY**

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| <b>Name(s)</b><br>Adaeze M. Oduma  | <b>Project Number</b><br><br>35524 |
| <b>Project Title</b><br>Effect of Wind Seed Dispersal  |                                    |
| <p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b><br/>The objective of this project is to find the effect of wind speed on seed dispersal using dandelions and fan to mimic wind. I believe that the higher the wind speed, the further the seedling would travel.</p> <p><b>Methods/Materials</b><br/>9 dandelions were placed in a small glass jar for each speed of the fan, which represented 3 types of wind speeds. Each seedling from each dandelion was measured in centimeters using meter sticks and averaged for that speed's trial.</p> <p><b>Results</b><br/>Speed one's averaged distances for each trial was 17 cm, 475 cm, and 371 cm. The speed two's averaged distances for each trial was 431 cm, 497 cm, and 467 cm. The speed three's averaged distances for each trial was 754 cm, 625 cm, and 809 cm.</p> <p><b>Conclusions/Discussion</b><br/>Dandelion seedlings are supposed to be able to travel long distances because they are umbrella-shaped. They are also easily dispersed by the wind because of the size. The data supports that seed dispersal increases in distance as the wind speed increases. At the lowest wind speed, the average distance reached by the dandelion seeds were 288 cm compared to an average of 729 cm at the highest wind speed in this experiment.</p> |                                    |
| <b>Summary Statement</b><br>My project is about finding out exactly how far dandelion seedlings could travel and where they end up.  |                                    |
| <b>Help Received</b><br>Used Mr. Estrada's classroom and was under his supervision   |                                    |