



**CALIFORNIA STATE SCIENCE FAIR  
2015 PROJECT SUMMARY**

<b>Name(s)</b> <b>Eric J. Longo</b>	<b>Project Number</b> <b>J1117</b>
<b>Project Title</b> <b>The Effects of Acid Rain on Sunflower Growth</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective was to determine how acid rain affects sunflower growth, and how each pH level affects the plants differently. <b>Methods/Materials</b> Five different solutions of pH were poured into each pot with five separate beakers. The seeds were then watered and observed once a day for around thirty days. At around day thirty, the plants were then watered with the acid solutions directly on their leaves and stems with a strainer. <b>Results</b> The plants watered with a lower pH were affected more than the plants watered with a higher pH. The plants were affected below the ground on its roots which made the sunflowers less stable. The leaves became spotted and the stem could not stand up straight, which made the sunflowers less stable and weak. <b>Conclusions/Discussion</b> The acid burned and harmed the leaves, stems and roots. The lower pH levels had more acid than the higher pH levels, so the sunflowers were affected more.	
<b>Summary Statement</b> This project was used to show the affects of air pollution and acid rain on plants.	
<b>Help Received</b> My mother purchased the supplies and materials used in the project and my father helped supervise the pouring of the acid on the plants for safety reasons.	