



**CALIFORNIA STATE SCIENCE FAIR
2003 PROJECT SUMMARY**

Name(s) Neeraj R. Bhat	Project Number J0602
Project Title Air Pollution Variances within an Urban Area	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To prove that air pollution levels in different areas of a city can vary widely.</p> <p>Methods/Materials An air particle collection device was constructed by taping an index card (on which was drawn a 100-square grid and was coated with petroleum jelly) to a large piece of cardboard, which, in turn, was planted in a box of modeling clay. Five such devices were exposed to the environment in different locations of Corona - near a freeway, an industrial zone, a suburban neighborhood, a park, and a control card in an unused room of my home. The number of air particles trapped on the card was counted after each 24-hour period. The process was repeated for 30 days.</p> <p>Results Air pollution levels, as measured by the number of air particles trapped on the collection card, were ranked as follows: 1. Freeway 2. Industrial Zone 3. Suburban Neighborhood 4. Park 5. Control Card</p> <p>Conclusions/Discussion Air pollution levels in different areas of a city can vary widely.</p>	
Summary Statement My project is a scientific investigation about variances in urban air pollution.	
Help Received Dad cut the cardboard for the experiment with a sharp box-cutter knife and took me to Wal-Mart for developing the photographs. Mom provided transportation to the test locations on each trial date.	