



**CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY**

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Project Title The Effect of Different Environmental Conditions on Wildlife Activity	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals Our objective for this study was investigating any possible correlations between physiological differences, biological differences, and various environmental conditions from a large group of animals and possible increased activity from wildlife.</p> <p>Methods/Materials Data from camera traps from Tejon Ranch Conservancy, Google Spreadsheets, Microsoft Excel.</p> <p>Results Animal activity increased during a variety of environmental conditions and we tested the most active periods with their corresponding variables. A chi-square test showed that there was a strong correlation between certain conditions and different animals.</p> <p>Conclusions/Discussion Statistical analysis of data showed that there is a significant correlation between certain conditions and different wildlife species. The strongest correlations were present within species within predator and prey groupings, showing that certain environmental conditions do have an effect on the activity of animals to an extent.</p>	
Summary Statement We found a strong correlation between a variety of environmental conditions and increased activity from different species.	
Help Received We obtained the camera trap data from Tejon Ranch Conservancy and members of the California State University of Bakersfield (CSUB) Geology department assisted in our understanding of the statistical analysis.	