



**CALIFORNIA STATE SCIENCE FAIR  
2016 PROJECT SUMMARY**

<b>Name(s)</b> <b>Rachel E. Pendergast</b>	<b>Project Number</b> <b>J1123</b>
<b>Project Title</b> <b>You're Going to Eat That? Is It Possible and Probable to Survive in Riverside, CA Using Only Natural/Wild Resources?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The goal of this project is to determine if it is possible and probable to survive in Riverside, California using only natural and wild resources.</p> <p><b>Methods/Materials</b> During this project I researched different edible plants and bugs to compile different diets to sustain nutritional needs. I also learned that eating plants and bugs such as crickets, weevils, termites, purslane, mustard greens, mallow weed etc. is a much more sustainable diet than cattle and poultry. I also learned different fire starting methods for warmth, cooking and protection. I found the easiest, most effective way was using the #Russian Prison Fire# method using an AA battery and a gum wrapper a blazing fire can be started. A magnifying glass or matches takes longer and ideal conditions must be reached. I also used methods of water purification and tested multiple water samples from various locations (Fairmont Park Lake, Gage Canal and a backyard pond). Using the Innovating Science Qualitative Coliform Test Kit to test for the presence of E.coli the three water sources tested positive for coliform. After boiling the three water samples for 30 minutes at 212 degrees Fahrenheit the water when retested proved safe for consumption.</p> <p><b>Results</b> The results of this project were that it is possible and probable to survive in Riverside, California with basic survival knowledge using only natural and wild resources. If you eat the right bugs and plants, sterilize your water and start a fire you can survive and meet the daily daily needs required for survival.</p> <p><b>Conclusions/Discussion</b> Yes, my results did support my hypothesis that it is possible to survive in Riverside, California, with only basic survival knowledge. This project provides knowledge of survival and living off of the land in an urban area. It furthers knowledge of sustainable farming too since many bugs can use less water and less food to grow as much meat as cattle or poultry.</p>	
<b>Summary Statement</b> My project is about if it possible and probable to survive using basic survival knowledge and natural/wild resources.	
<b>Help Received</b> My Aunt and I both have interest in survival, farming and living off the land, we developed the idea together and I brought the idea to life and completed the research. My family assisted with the purchase of necessary items and making certain that I was able to meet the requirements for the project.	