



CALIFORNIA STATE SCIENCE FAIR
2016 PROJECT SUMMARY

Table with 2 columns: Name(s) and Project Number. Name(s): Hunter C. Crawford-Shelmadine. Project Number: 36131.

Project Title: Lumbriculus variegatus and Man-Made Hazards: What is the Tipping Point?

Abstract: Objectives/Goals, Methods/Materials, Results, Conclusions/Discussion. The purpose of this experiment is to test how exposure to pesticide, fertilizer, oxybenzone sunscreen, zinc oxide reef safe sunscreen, or acidity at different concentrations effect the blood flow rate of Lumbriculus variegatus and then to repeat the experiment using different combinations of these man-made stressors to better understand how exposure to multiple stressors changes the results.

Summary Statement: My experiment shows that certain man-made stressors (toxins/chemicals) in combination do have a greater impact (often lethal) on aquatic life than when exposed to the man-made stressor by itself.

Help Received: My science teacher, Mr. Raffa, provide input & feedback on experimental design and was a great support throughout the project.