

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38277
Project Title	
The Effect Of California Wildfire Ash on the Ability of Ardigrades to Transition Out of Cryptobiosis	
Abstract	
Objectives/Goals To determine is California wildfire ash added to water effects tardigrades to Methods/Materials	(\mathcal{O})
A population of tardigrades was collected. Once collected they were then to into non active state/ cryptobiosis. Next, California wildfire ash was added that were in cryptobiosis. After observing it was determined if ash had a effect cryptobiosis.	to distilled water to tardigrades
Results The results of my investigation regarding if ash from California wildfires affects tardigrades transitioning out of cryptobiosis had no effect on the tardigrade population. The sample groups indicated that ash added to the tardigrades while in cryptobiosis did effect their transition out of cryptobiosis.	
Conclusions/Discussion	
My experiment proved that my hypothesis was incorrect and that as from California wildfires did affect tardigrades from transitioning out of cryptobiosis I wasn't specific with my hypothesis. I simply was thinking will the tardigrades transition, survive, or not survive. The amount of time it took for them to prove to be out of cryptobiosis was not a factor when I originally came up with my experiment idea and hypothesis. Although, the amount of time it took for the tardigrades effected by ash being longer than the tardigrades exposed to no ash means that ash did affect the transition.	
Summary Statement To determine if micro organisms are effected by ash when transitioning out of their dormant state.	
Help Received Professor Johansson	