

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Noma(a)	Duciest Number
Name(s)	Project Number
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	36151
Project Title	$\langle \rangle$
Impacts of Recreational Boating on Copper Levels in Bays and Marinas	
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Objectives/Goals Abstract	
In San Diego, we all live relatively close to the ocean and therefore we have to care of it. I discovered people are concerned about copper pollution in our bays research, I hypothesized that much of the copper pollution comes from sopper b copper levels in local waters would be higher around boats. Methods/Materials	Upon doing further iocide paints and that
I collected a total of 36 water samples from local bays and beaches. Newformed copper kits, but needed a more sensitive testing method. I decided to use a Hach measure the copper levels in parts per billion. I then compared the copper levels locations.	DR 890 Colorimeter to from the various
Results Sixteen samples were from locations with boats (marinas and bays) and 18 samp The samples from marinas and bays contained an average of 12.2 parts per billio beach sample only contained 2.9 parts per billion copper. These results supporte copper levels would be higher near boats. The copper standard for marine life is Conclusions/Discussion	on copper. The average ed my hypothesis that only 3.1 parts per billion.
These results suggest that copper biocide pains may impact copper levels. Beca copper paints, marine life would benefit more if boaters switch to an eco-friendl slowly making this change. I hope my project promotes awareness of how prevalocal bays and marinas and encourages more boat owners to make the switch.	use of the harmfulness of y paint option. Boaters are lent this problem is in our
Summary Statement I tested the copper levels in the bays marinas in parts per billion to determine the paints.	e impact of copper biocide
Help Received	
My mom drove me to the bays and marinas. My science teacher helped me find some test kits to use. My dad rented a hach colorimeter that I used to test my samples.	