

CALIFORNIA SCIENCE & ENGINEERING FAIR 2019 PROJECT SUMMARY

Name(s)	Project Number
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	JZ200
Project Title	
Water Temperature and Mosquito Pupae	
Abstract	
Objectives	
The objective of this study is to determine how fast mosquito pupae will emerge different water temperatures	e as adult mosquitoes in
Methods	
Three mosquito breeding jars where filled with tap water. Ten mosquito pupae	where placed in each
water was kept at 27 degrees Celsius with a heating pad. The container with room temperature water was	
kept at 20 degrees Celsius on the kitchen counter. The last container with cold water was kept at 10 degrees	
Celsius in the refrigerator. The jars were checked daily or hourly for the emerg	ence of adult mosquitoes.
All ten adult mosquitoes emerged out of the warm water in 2 days. All ten mos	quitoes emerged out of the
room temperature water in 5 days. No adult mosquitoes emerged out of the col	d water after 7 days.
Conclusions Mosquito pupae were kept in warm room temperature, and cold water for 7 day	vs. It only took 2 days for
adult mosquitoes to emerge in warm water. It is concluded that mosquito pupae emerge into the adult stage	
faster with increased water temperature.	-
Summary Statement	
I placed mosquito pupae in three different water temperatures and showed that	the pupae in warm water
emerged faster into the adult stage.	
Help Received	
I got help in understanding the mosquito life cycle from Dr. Steven Su and Alfo West Valley Mosquito and Vector Control District. They let me use mosquito b pupae for the experiment done at home.	nso Melgoza from the reeding jars and mosquito