

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Alicia N. Hans	
	<b>1</b>
	25004
Project Title	35861
Do Mycorrhiza Fungi Physically Help Retain Water in Solduring	
Drought?	box during
Drought.	
Abstract	
Objectives/Goals	a voil during
The goal of this project was to discover if mycorrhiza fungi physically help reta simulated drought conditions.	nd water in soil during
Methods/Materials	$\bigcirc$
Materials used were soil, fungus mixture, and a standard measuring scale.	<b>→</b>
A batch of sifted soil was sterilized. Ten equal samples of soil were measured	yt. To the remaining soil
the fungus mixture was added, and then ten more equals imples of soil were no	Easured out. All the
samples were watered until the fungus had grown, then the watering stopped to samples were weighed twice a day.	simulate drought. The
Results	
The cups with the fungus weighed up to 2% more than the cups without fungus	
Conclusions/Discussion	
It has been recently discovered that plants grown with mycorrhiza fungi tolerate drought better than plants	
grown without mycorrhiza fungi. It is not clear, however, how the lungi help the plants tolerate drought.	
It has been recently discovered that plants grown with mycorrhiza tringi tolerate drought better than plants grown without mycorrhiza fungi. It is not clear, however, how the rungi help the plants tolerate drought. The mycorrhiza fungi do make a difference in terms of tetanting water in the soil. However, it appears that the mechanism through which the fungi help plants tolerate drought comes from a relationship	
between the plants and the fungi.	
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Summary Statement	
My project investigates if mycorrhiza fungi help retain water in soil.	
Help Received	
Community college professor sterilized soil and provided fungus mixture.	
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