CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Allison M. Kaku	
	22424
Project Title	$\langle \rangle$
The Effect of Walnut Extract on Root Lesion Nematode	
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Abstract	
Objectives/Goals	
My project was to see if chemicals extracted from walnut branches will kill the	
think that the toxic chemicals in the branches will kill Root Lesion normatodes Methods/Materials	
I made walnut extract by chopping up walnut branches and putting them into	a speesecloth bag. I soaked
the bag in a liter of water for 48 hours. I made concentrations of 700 grams of	walnut branches/liter of
water, 50 grams/liter, 10 grams/liter and an untreated water. I put the network	es into the extracts, and
counted the dead nematodes after 24 hours. I had three reps for each treatment Results	t.
The 200 grams/liter had 98% mortality,50 grams/liter had 83% mortality 10 g	pram /liter had 65%
mortality and the untreated water had 7% mortality.	
Conclusions/Discussion	
My conclusion is that walnut extracts are toxic to Roct Lesion remardes. It w	vas interesting to me that
Root Lesion nematodes can live inside the walnut roots, but they can be killed are inside the walnut plant cell.	by the toxic chemicals that
Summary Statement	
My project is to see if the toxic chemicals inside the walnut plant cells will ki	Il Root Lesion nematodes
why property to see in the toxic chemicals inside the walnut plant eens will ki	in Root Lesion nematodes.
Help Received	
My mother helped me type my report. The Kearney Agricultural center for pr	oviding me with nematodes.