

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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	22297
Project Title	$\hat{\boldsymbol{\mathcal{C}}}$
Which Plant that Produces Pesticidal Compounds Can Best Protect	
Adjacent Pansies from Garden Snails ?	\sim
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Objectives/Goals Abstract	
The objective of my project was to determine which plant that produces pestici	al compounds would best
protect adjacent pansies from garden snails. I believe that the pyrethram plant (family) will best protect adjacent pansies from garden snails.	part of the chrysanthemum
Methods/Materials	\checkmark
Five Plants were identified to produce pesticidal compounds and resist garden	spails.
 Pyrethrum  Chives	
 Lavender	
 Rosemary  Peppermint	
We purchased 35 pansies - one pansy for each pest redistant plant in the EXPE	RIMENTAL group (25)
plus ten pansies for the CONTROL group (group was without any pest resistant plants to protect them). To attract snails we poured beer into a pie tin and let it sit over pight in the morning we collect the snails	
and placed there in the them in the center of each Nat (there was a total of 6 flats) 2 snails for each flat.	
Only 12 snails were needed in this process left over shails were placed in aquarium for the next trial. In total there were 6 trial and 72 snails.	
Results	
After twelve weeks, the 25 pansies in the EXPERIMENTAL group were observed and the results were recorded. In the pyrethrum/pansy Bat, 4 of the 5 pansies (80%) had no snail damage. In the chive/pansy	
flat, 3 of the 5 pansy plants (60%) showed to snail damage. Of the 5 pansies adjacent to lavender plants,	
only one (20%) had no snail damages. In the oseniary/pansy flat, only 1 of the 5 pansy plants was	
undamaged (20%). None of parsies (%) adjacent to peppermint plants were left undamaged (all 5 had notable snail damage).	
Conclusions/Discussion	
The hypothesis was correct. Of the five plants that produce pesticidal compounds, all of the pansy plants	
planted with pyrethrum plants were expected to survive the 12-week period without damage from garden snails. Overall, the parties in the pyrethrum flat did very well; 4 of the 5 plants lived. One of the pansies	
was slightly damaged by snalls	r
Summary Statement	
Which plant that produces pesticidal compounds can best protect adjacent pans	ties from garden snails ?
which we have a produced positional compounds can best protect adjacent pairs	ies from garden shans .
Help Received	
UCSD Master gardeners for plant advice. My parents proofing my report and h	elping me get the
information I needed.	