

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
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	31491
Project Title	
Will Hydrating Cotton Seeds Have an Effect on How Fast the Seed	
Germinates?	\sim . O
Abstract	
Objectives/Goals	
The purpose of this experiment was to determine if the temperature of water us	for ydrating a cotton
seed will have an affect on how fast the seed will germinate as compared to a new fast the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as compared to a new fast here as the seed will germinate as th	in-fryorated cotton seed.
The experiment started by placing cotton seeds soaked in different imperature	Concluding room
temperature) of water for various times into Styrofoam containers with pre-soak	d napkins. The
containers were then placed in plastic bags and set on the counter for a period of	f 10 days. A control group
was also established with a group of non-hydrated seeds. All sets of seeds were	checked daily and data
was recorded as to the number of seeds sprouted on each dates well as the leng	th of growth from the
seeds that had germinated.	
The hypothesis was proven true that hydrating the cotton seeds for a varmer ter	nperature resulted in that
group of seeds germinating earlier than the non-hydrated seeds and he cold wat	ter seeds. The resulting
sprout growth of the hydrated seeds was on the average longer than the non-hyd	lrated seeds.
Conclusions/Discussion	
to non-hydrated seeds. The seeds were able to the water and s	to thinking they had
already been planted, which encouraged the early gennington.	to uninking they had
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Summary Statement	
This experiment is to determine if the temperature of water used for hydrating a	cotton seed will have an
affect on how fast the seed will germinate as compared to a non-hydrated cottor	n seed.
Help Received	
The cotton seeds were received from a local cotton farmer.	