

## CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
Forever Green? Keeping Christmas Trees Fresh	
Objectives/Goals Abstract	
The purpose of my project is to see what will help fresh cut Christmas Methods/Materials	trees stay fresh longest.
I did an experiment and conducted a web survey. In the experiment I	cut 16 Douglas fir branches and put
four each in either plain water, vinegar water, sugar water, or bleach w	vater. Two of each four I sprayed
also conducted a survey where I sent out questions about how people y	who bought trees at a tree farm kept
their trees at home and how fresh the trees were on Christmas Day.	
<b>Results</b> Branches in plain water staved freshest keeping an average of 87% of	their original weight Branches in
sugar water or bleach water kept about 60% of their weight. Branches in vinegar water did the worst,	
losing their needles and keeping only 29% of their weight. Branches with Cloud Cover kept 7% more of	
their weight than branches without Cloud Cover. The survey showed that people who re-cut their tree at home did not have fresher trees but people who let the water run out had less fresh trees in the end.	
Conclusions/Discussion	
There are many ideas about how to keep trees fresh. My project suggests that adding things to the water may not help. Spraying on Cloud Cover and making sure the tree does not run out of water may give the	
best results.	s not run out of water may give the
Summary Statement	
My project explored through an experiment and survey how to keep C	hristmas trees fresh after they are
cut.	
Help Received	
My Dad helped me analyze my data.	