CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY

Name(s)
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Project Number
J0901

Project Title
Solar Radiation to Distill Water

Abstract

Objectives/Goals
The objective of my project is to determine if I can extract distilled water from muddy water or salt water; also, how much distilled water I will be able to extract in one day.

Methods/Materials
I plan to make distilled water from muddy water, and salt water using a solar radiation distiller that I will make myself. I will do this by using the rays from the sun. Solar radiation will be transmitted through a glass cover that will be absorbed by the sun. As the heat comes in contact with the impure water, the vapors will rise to the top of the cellophane wrap and run down the cellophane into an empty glass. I plan to make my distiller using a large bowl, masking tape, clear cellophane, rocks, muddy water, salt water, and a drinking glass.

Results
I was able to produce distilled water from muddy water and also produce distilled water from salt water.

Conclusions/Discussion
Since solar radiation was used in this experiment, the results will differ depending on the amount of sunshine.

Summary Statement
I will attempt to make unclean water pure enough to drink using a solar radiation distiller.

Help Received
Grandmother helped cut paper for board.