

## CALIFORNIA STATE SCIENCE FAIR 2012 PROJECT SUMMARY

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Project Title	
Which Soil Amendment Retains the Most Water?	
Objectives/Goals Abstract	
My objective was to find out which soil amendment retained the r moss, newspaper, hair, coir (coconut fibers), and perlite. My hypo would retain the most water. Methods/Materials	
I tested the soil amendments sphagnum peat moss, newspaper, hai their water retention properties. I also tested highly water retentive my	
other variables to. The mass of 1000 cm3 of soil was recorded and was then placed over the soil to create a bowl-like shape and 300 of into the mesh lining. 500 milliliters of water was steadily poured of container was covered with plastic wrap to eliminate evaporation a fter the water was poured, the mesh lining and soil amendment we new mass of the soil was recorded. The experiment was repeated a <b>Results</b> Peat moss retained an average of 83.8 grams of water, newspaper water, hair retained an average of 33 grams of water, coir retained retained an average of 85.4 grams, and the control potting soil retained	cm3 of a soil amendment was placed over the soil amendment. Then, the from occurring. Exactly three hours vere taken out of the container and the 5 times for each soil amendment. retained an average of 87.2 grams of an average of 17.2 grams, perlite
<b>Conclusions/Discussion</b> My hypothesis was false. Newspaper by far did the best out of all also shows that materials that are not commercially sold as soil an can do better than the commercially sold materials.	