



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) James A. Holloway	Project Number J1617
Project Title Albedo	
Objectives/Goals My objective was to find out the effect of albedo as it relates to global warming.	
Abstract	
Methods/Materials Experiment 1 1) 6 354 ml plastic bowls (not white) 2) 6 pool thermometers 3) 6 pieces of mesh 10cm x 20cm 4) 1 timer 5) 1 glue gun / glue sticks 6) 1 pair of scissors 7) 15 2.5cm x 1.5cm white crystals. 8) 15 2.5cm x 2.5cm squares of white foam 9) 15 2.5cm x 2.5cm white corrugated paper squares 10) 180 1cm white beads (increments of 12) 11) 60 1cm white cotton puffs (increments of 5) 12) 12 liters of water 13) 1 light source Experiments 2, 3 & 4 The same materials were used for experiments 2, 3, and 4 with the exception of the clear Mylar which was not used in experiment 2 at all nor experiment 3, trials 1 and 2. The amounts of the materials vary in each experiment and are noted in the procedures. 1) 3 3.8 liters refrigerated water 2) 20 400 ml. clear glass bowls 3) 20 thermometers 4) 1 30 cm. square yellow Mylar 5) 1 30 cm. square green Mylar 6) 1 30 cm. square blue Mylar 7) 1 30 cm. square clear Mylar 8) 1 pen 9) 1 pair of scissors 10) 1 single edge razor blade	
Summary Statement This project is about the effects of albedo on global warming.	
Help Received Mother purchased all supplies and helped with board; Professor Arey gave me initial idea; My science teacher provided thermometers.	