



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Claire M. Haines	Project Number J1415
Project Title Commercial vs. Natural Supplements: Is There a New Way to Improve a Horse's Health?	
Objectives/Goals The objective of my project was to see if you could buy a cheaper, more natural horse supplement to improve your horse's health as opposed to expensive, commercially made supplements that propose to improve the same physical conditions. I wanted to see how these worked on the older horse in particular.	
Abstract Using a 25 year old Arabian gelding, showing severe signs of aging problems such as weight loss, dull coat and toxin retention, as my subject, I did the following over a 33 day period.	
Methods/Materials 1. Measure a 1/2 cup of apple cider vinegar and pout on top of the grain. 2. Take the notebook and pen (or pencil) and write down observations. *Look for any bald spots or places where losing hair. *Pull the skin on the shoulder to see if horse is dehydrated (if the skin does not shoot back, the horse is dehydrated). *Eyes are not reddish in the back. *Dandruff/dust deep in the horse's fur. 3. Take samples of hair and measure fetlock for water and toxin retention. 4. Give horse the bucket of grain with the apple cider vinegar.	
Results I witnessed some major changes in the horse's appearance and behavior. The natural supplement, apple cider vinegar, worked faster than Platinum. The swelling in the horse's fetlock went down almost three inches and the horse started to fill out around the rib cage. In addition the horse's coat texture was softer and the muscles developed nicely. The horse began to pick up his feet and act like a much younger horse.	
Conclusions/Discussion I learned that a gallon of apple cider vinegar for three dollars had the same results as the more expensive commercial supplement, Platinum. The results of my experiment are what I expected.	
Summary Statement My project is to see if you could buy a cheaper, more natural horse supplement to improve your horse's health as opposed to expensive, commercial made supplements that propose to improve the same physical conditions.	
Help Received Mother and father helped with the horse by driving me to the ranch, even in the rain.	