



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Katie K. Teresi	Project Number J0807
Project Title Biodiesel vs. Diesel	
Abstract Objectives/Goals I'm trying to find out which diesel fuel works the best on a CAT tractor from the 1970? Because I've learned that there are other types of diesel than our natural fuels. My hypothesis is that number 3 diesel will work better. Methods/Materials I used the scientific method and my materials are, one tractor, red die number 3 diesel, home made biodiesel, bought biodiesel, ripper, ethyl alcohol, corn oil, one gallon tank, stop watch, paper, pencil, cooking pot, and thermometer. Results Bought biodiesel: 85 sec Home made biodiesel: 83 sec Diesel: 85 sec. I did this run for 300 ft. Conclusions/Discussion My hypothesis was incorrect, the home made biodiesel worked the best than the other fuels because, it was a little thicker and the more it is thicker the more fuel will be injected into the cylinder.	
Summary Statement My project is about trying to find out which Diesel fuel works the best in time?	
Help Received My parents helped me conduct the experiment. My mom helped with my research paper. Ed Bless (he works for this company that tries to find new natural fuels) helped me in information.	