



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) Christian R. Gilbert	Project Number 34834
Project Title What Happens to the Sound Output When Increasing the Amount of Air Pressure Blown through a Train Horn?	
Abstract Objectives/Goals My project was to determine if how loud a train horn sounds is a direct function of the amount of air pressure applied. I believe that increasing psi(pounds per square inch) to a train horn increases the decibel sound output in a linear fashion up to a certain point. Methods/Materials My project was to determine if how loud a train horn sounds is a direct function of the amount of air pressure applied. I believe that increasing psi(pounds per square inch) to a train horn increases the decibel sound output in a linear fashion up to a certain point. Results My project was to determine if how loud a train horn sounds is a direct function of the amount of air pressure applied. I believe that increasing psi(pounds per square inch) to a train horn increases the decibel sound output in a linear fashion up to a certain point. Conclusions/Discussion My project was to determine if how loud a train horn sounds is a direct function of the amount of air pressure applied. I believe that increasing psi(pounds per square inch) to a train horn increases the decibel sound output in a linear fashion up to a certain point.	
Summary Statement I changed the psi going into a train horn to see if it would change the noise output, this could save many people.	
Help Received My dad held the dB meter.	