



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Bryan C. Pearn	Project Number J1622
Project Title Moonstruck: Are Plants Affected or Influenced by the Moon?	
Abstract Objectives/Goals The project's objective was to determine if the light and gravitational changes found in each of the four moon's cycle would have an affect on seed germination and plant growth. Methods/Materials A mini greenhouse kit was planted with 6 radish and 6 bean seeds two days before each of the four moon cycles. The seed germination date and plant growth for both radish and beans were recorded and averaged. Plant failures were not factored in the averages. Results The New Moon Cycle had the fastest seed germination for both the radishes and beans. The radishes planted on the 1st Quarter Cycle grew 0.1 centimeters higher on average than any other cycle and the beans planted on the Full Moon Cycle grew 5.4 centimeters higher on average than any other cycle. Conclusions/Discussion There were several unseen variables I believe altered my experiment's results. There were weather and temperature changes which I believe could have altered my results. Another factor that may have altered my results were the number of seed germination failures. I feel that this data should be taken into consideration. Another variable, my plantings were based only on the four moon cycles- New Moon,1st Quarter,Full Moon,and 4th Quarter. I did not take into consideration the apogee and perigee moon's orbital cycle or the ascending or descending moon's orbital cycle. Further research indicated these three orbital cycles of the moon together appear to have a great affect on the germination of seeds and plant growth.	
Summary Statement My project was to substantiate claims that the light and gravitational changes found in each of the four moon's cyles affect seed germination and plant growth.	
Help Received My mother took the pictures that I was in. My step-father helped me to convert my data into graphs on his computer.	