



California Science Center
CALIFORNIA STATE SCIENCE FAIR
2001 PROJECT SUMMARY

Your Name (List all student names if multiple authors.) Daniel L. Manrique	Science Fair Use Only <h1 style="margin: 0;">J1615</h1>
Project Title (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9) Lentil Growth and Pot Size	Division <u>J</u> Junior (6-8) <u>J</u> Senior (9-12)
Preferred Category (See page 5 for descriptions.) 16 - Plant Biology	
Abstract (Include Objective, Methods, Results, Conclusion. See samples on page 14.) Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges.	
<p>The experiment studies the effect of growth rate of plants in a smaller or bigger environment. The experimental hypothesis is: plants in big pots will do fine in growth. The plants in the smaller pots will be smaller than those grown in regular size pots.</p> <p>The study was conducted by first sprouting some seeds. The sprouted seeds were planted in different sized pots. Second, the plants were measured everyday. The third step was to record plant measurements, room temperature, and the amount of water given. The last step was to dump out the pots and observe the roots at the end of the growth period.</p> <p>In this study, the plants planted in the smaller pots did just as well as the ones in the bigger pots. Regressions were performed to tell if there was a statistical relationship between the pot size and plant growth. These regressions proved that pot size is not a good predictor of plant growth. The only difference was the roots. The root system on the ones in the big pots had normal sized roots. The ones in the middle, had adequate roots. The plants grown in the smaller pots had very small roots.</p>	
Summary Statement (In one sentence, state what your project is about.) I tried to determine if plant growth could be determined by pot size.	
Help Received in Doing Project (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4. My stepfather taught me about regression analysis and helped me do the analysis.	