



**CALIFORNIA STATE SCIENCE FAIR  
2016 PROJECT SUMMARY**

<b>Name(s)</b> <b>Viraj V. Jain</b>	<b>Project Number</b> <b>J1810</b>
<b>Project Title</b> <b>How to Grow the Best Drought Resistant Lawn</b>	
<b>Abstract</b> <b>Objectives/Goals</b> This goal of this project was to experiment with different grass seeds and soils to find the combination that grows a green lawn and stays healthy with limited water <b>Methods/Materials</b> Three different seed (Rye grass, Bermuda, and Fescue) and soil (Organic, Patio Plus and Potting) types were used to make nine unique samples. Each was given limited water (twice weekly similar to county regulations) and artificial sunlight for a period of 25 days. Height of grass blades were measured every 5 days, and the grass density was measured on day 25. Cost analysis was performed. <b>Results</b> Bermuda grass did not sprout in any of the soils. Fescue grass grew the tallest in Patio Plus soil. Organic soil and Fescue has the highest grass density. For a given size lawn, natural grass incurs less costs than artificial grass. <b>Conclusions/Discussion</b> Fescue grass seeds in Organic soil seems to be the best combination that may grow the the most dense and relatively tall in a short period of time. It is also cost-effective as compared to artificial grass.	
<b>Summary Statement</b> Fescue grass in Organic soil was found to be the best combination to grow a water efficient, healthy, and a cost-effective lawn	
<b>Help Received</b> My science teacher Mr. Newlove provided some input in my study design. My parents provided funding to purchase soils and seeds and helped review my results.	