



**CALIFORNIA STATE SCIENCE FAIR
2017 PROJECT SUMMARY**

Name(s) Elisabeth J. Eichinger	Project Number J1207
Project Title Firescape	
Abstract Objectives/Goals The objective of this project is to measure the ignition times (in seconds) of drought resistant plants when they come in contact with an open flame. Methods/Materials 12 samples of drought resistant plants, stopwatch, consistent open flame (gas barbecue): Samples were held at a consistent distance over an open flame and ignition times were measured in seconds. Three trials were conducted for each sample. Results Ignition times ranged from an average of 2.3 seconds to 20.7 seconds. Mexican Sage was the least fire resistant sample and Bougainvillea was the most fire resistant sample. Conclusions/Discussion The California Department of Water Resources (CDWR) recommends planting drought resistant landscapes. The California Department of Forestry and Fire Protection recommends planting fire resistant landscapes. This project determines which plants meet both of these recommendations. Drought resistant plants with slow ignition times include Bougainvillea, Jerusalem Sage, and Spurge. Drought resistant plants with fast ignition times include Mexican Sage, Verbena, and Mexican Marigold.	
Summary Statement My project determined which drought resistant plants are also fire resistant.	
Help Received I designed and implemented the experiment by myself.	