



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

Name(s) Cosette Monson	Project Number J1819
Project Title Water Uptake Rate of Drought Resistant Shrubs	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of this project is to determine which drought resistant shrub has the lowest water uptake rate out of boxwood, Russian sage, and rosemary.</p> <p>Methods I tested the water uptake rate of drought resistant shrubs using an H-type (bubble) potometer and a stopwatch. I used clippings from the three types of shrubs: boxwood, rosemary, and Russian sage.</p> <p>Results I recorded multiple trials for each type of shrub and found that Russian sage had the lowest water uptake rate. The Russian sage's average rate was 0.62 cm/s, boxwood's was 1.28 cm/s, and rosemary's was 0.49 cm/s.</p> <p>Conclusions Russian sage had the lowest average water uptake rate. Based on my results, Russian sage would be the best choice for a consumer as a drought resistant plant that conserves water out of the three shrubs.</p>	
Summary Statement I compared water uptake rates of the drought resistant shrubs, rosemary, boxwood, and Russian sage.	
Help Received I received feedback and advice from my science fair mentor and my science teacher guided me through the scientific process.	