

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
Alec T. Balabanis	\mathbf{A}
Project Title	
Household Filtered Water and Plant Growth	
Abstract	
Objectives/Goals Abstract	
To find out if using two types of filtered water (potassium softened water of affect on seedling growth (height and weight) compared to city water.	reverse osmosis water) has an
Methods/Materials	
3 groups of 31 pole bean seeds planted in the same organic soil and contain water: potassium conditioned or softened water, reverse osmosis water and	ers were watered with different
measured at week 1 and week 2; wet weight measured at end (2 1/2) weeks.	Average height and weight
were taken for each group and compared.	1
The results did not conclusively show that the filtered water had a significant	nt affect on the growth. There
was so much variability within the samples that the differences that appear t	to be there are not likely
significant.	
While I thought that the filtered water might cause a the plants to have a low	ver average height and weight,
it appears they did not. I thought using filtered water might be bed for plant	s, but these results show that at
least for at least these 2 weeks, the plants will grow just fin with filtered w	ater. However, to conclude
experimental design changes and retest	would need to make some
$(\overline{a}, \overline{a})$	
Summary Statement Massured Sachling Karaht and Wight (from 3 groups of 30 goods cook) who	n watered with potessium
filtered water reverse osmosis water compared to city tap and found no sign	nificant difference at end of 2
weeks.	
Help Received	
Belmont Nursery for help with seeds soil and nots. Help from my parents y	vith initial planting daily plant
care, and computer data analysis.	initial planting, daily plant