

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Danika R. Flemming	
	36434
Project Title	
Investigating the Use of Agricultural Combustion Waster on Brassica	
Productivity	
Abstract	
Objectives/Goals	has all affact on the
The goal of this investigation was to determine if agricultural combustion waster productivity of brassica plants.	thas any affect of the
Methods/Materials Apple wood combustion waste, cherry wood combustion waste, plain soil, distilled water, radish seeds,	
plastic cups, and an electronic balance. Measure the biomass of trassica plants after two weeks of being	
grown with the addition of different types and amount. A agricultural combustion waste. Results	
According to the data, there is no statistically significant effect on the productiv	vity of Brassica when
agricultural combustion waste is added to the soil up to 30% ratio infitration. The standard errors range	
between 0.001 and 0.002 and display complete overlap in all graphs which means the data that was significantly different occurred by random chance rather than an actual effect caused by the agricultural	
combustion waste. Conclusions/Discussion	
During my investigation, I found that the addition of agricultural combustion w	aste to Brassica plants will
During my investigation, I found that the addition of agricultural combustion waste to Brassica plants will not to statistically significantly affect the productivity of the plant. These results are important because they display that these two types of wood ash in 10%, 20%, and 30% increments do not alter the growth	
of Brassica plants. In agricultural, instead of disregarding the combustion waste created, it can be	
of Brassica plants. In agricultural, instead of disregarding the combustion waste created, it can be infiltrated into the soil without negative effects. Also, no extra measures need to be taken to prevent the plants from interfering with the waste.	
plants from interfering with the waste.	
Summary Statement	
I found that the addition of agricultural combustion waste has no statistically signate	phificant affect on Brassica
productivity.	
Help Received	
I designed the project myself, but had help conducting it by my designated supervisor and my biology teacher.	