

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Cecilia C. Wolf	
	35661
Project Title	0
The Effect of Amount of Dextrose Sugar on the Carbon/Production of Bakers, Brewers, and Champagne Yeast	
Abstract	
Objectives/Goals To learn how the amount of dextrose sugar given to bakers, brewers, and cham	one leasts affects their
carbon production.	agine jeasts arreets then
Methods/Materials	
I put the three different yeasts into test tubes along with the desired amount of destrose and 100 ml of warm water. I measured their carbon output by placing a balloon over the top of the test tube and calculating the volume based on it's diameter after 30 minutes. Materials: yeast, water, dextrose, round balloons, tape measure, test tubes	
Results	nd 50/ doutroop and that
I found that the champagne yeast was the most productive when given 1% and 5% dextrose, and that the bakers yeast was the most productive when given 20% dextrose. As I expected, the brewers yeast was the least productive for all amounts of dextrose. All of the yeast were most productive when given 20% dextrose, except for the champagne yeast, which was nost productive with 5% dextrose. Conclusions/Discussion	
Conclusions/Discussion My hypothesis was that the bakers yeast would be all around the most productive yeast-except the champagne yeast- would produce the most carbon when given indicate that bakers and champagne yeast produced much more carbon than the results for several reasons. First, the active yeasts (bakers and champagne) were than the inactive yeasts. Second, the populations of the champagne yeast appear capacity due to exponential growth in the 20% solution. Third, the increase of for increased productivity Also, the type of yeast and what their purpose is.	ve, and that all of the 20% dextrose. The trends brewers yeast. I got these e much more productive red to exceed the carrying ood source generally
Summary Statement To learn pow the amount of dextrose sugar given to bakers, brewers, and champ carbon production.	pagne yeasts affects their
Help Received	
Advised by teacher, mom helped gluing poster board	