

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Elise M. Ochs	
	25060
Project Title	35060
<sup>1</sup> Investigating the Spoilage Rate of Different Milks	s Based on Their
Expiration Date	
<b>r</b>	$\bigcirc$
Objectives/Goals Abstract	()
The objective of this project was to find out what type of milk spoiled the	ne quickest before and after the
quickest.	
Methods/Materials The first thing I did was get 2%, whole, and non fat milk (Producers Mi	It. Then I massured one cup of
The first thing I did was get 2%, whole, and non-fat milk (Producers Mi milk. After that, I connected my pH to the vernier. I then started esting	the mik and recording the results
on a data sheet. Finally, I repeated this process, using each milk, ten tim	es I recorded the milk to days
before the expiration date, the day it expires, and 5 days after the expires. <b>Results</b>	$\mathbf{N}$
My final results for the 2% milk was that the spoilage rate drops as it set	older, which was expected. My
results for the non-fat milk was that the spoilage rate went us as it expire	ed, which was not expected.
Finally, my results for the whole milk was that the speciage rate decrease expected.	ed as it grew older, and that was
Conclusions/Discussion	
Once I concluded my project I found out that 2% milk spoils the quicker found out that non-fat milk stays fresh for a while after the appration da whole milk would have the largest d op in sporage rate, but was incor	st out of all three milks. I also
whole milk would have the largest door in sportage rate, but was incor	rect. However, my second
hypothesis stated that non-fat milk would not have a large frop in spoila	age rates, and that was correct.
Summary Statement	
Spoilage Rate of Different Kinds of Milk	
Help Received	
Mr. Darvin Aalto Science Instructor Sanger High School provided the Verniar and pH Meter	