



CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY

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<b>Project Title</b> Cry1AB in Corn	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b>          To find out if Cry1AB can be found in different corn samples. Also to see how strongly it can be detected.</p> <p><b>Methods/Materials</b>          #1- You go get different corn samples, blend them up separatly in a food processor, and add the correct buffer volume which is at a 1g to 1L ratio. Then you stir it up, put it in a testing cup, and put a test strip in.          #2- Take the positive control (Caterpillar Killer) and dilute it with a 1-10, 1-100, and 1-1000. Put them into the testing cups and put a test strip in.</p> <p><b>Results</b>          Negative- Stater Bros.(yellow), Stater Bros.(white), Baby Corn, Suplantation, Vons(white), Birds Eye(frozen), Organic corn(frozen), Arrowhead Cornmeal, Mother#s cornmeal.          Positive- Alber#s cornmeal, Caterpillar Killer(positive control)          1-10 (very strong line) 1-100 (pretty strong line) 1-1000 (light line)</p> <p><b>Conclusions/Discussion</b>          Well after I had seven negative corn results I thought something might be wrong. So, I went and got Caterpillar Killer which contain 1.76% Bt protein as a positive control. That tested positive so I knew that there wasn#t something wrong with the kil. Then Alber#s cornmeal tested positive, but to make sure that it wasn#t just something weird in cornmeal that made the red line I had to find a negative control. I went to Mother#s Market and got Arrowhead and Mother#s cornmeal. They both tested negative so I knew that Alber#s was really positive.</p>	
<b>Summary Statement</b> I wanted to see if any of the corn I eat could contain this genetically engineered protein.	
<b>Help Received</b> UCI/CMHS Science Fair Grant	