



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> <b>Brandon P. Whitney</b>	<b>Project Number</b> <b>J0931</b>
<b>Project Title</b> <b>Locals Only: Are Areas with Native Trees More Biologically Diverse than Areas with Non-native Trees?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The purpose of this experiment was to see if a difference in biological diversity on the macroscopic invertebrate level can be observed between an area with mostly native vegetation and an area with mostly non-native vegetation, and if so, which area would be more biologically diverse. My hypothesis was that a difference could be observed and that the native areas would be more biologically diverse.</p> <p><b>Methods/Materials</b> Over a three week period I collected leaf litter from two native plant areas and two non-native plant areas. I put the leaf litter in a Berlese funnel (see Berlese funnel page and diagram), and identified the specimens that collected below the funnel.</p> <p><b>Results</b> My results showed the non-native plant areas to be much less biologically diverse in terms of macroscopic invertebrates than the native areas.</p> <p><b>Conclusions/Discussion</b> My conclusion supported my hypothesis and showed that a difference in biological diversity on the macro level can be observed and that areas with native vegetation have a greater diversity of invertebrates than do areas with non-native vegetation. The native areas had 120% more unique species than the non-native areas.</p>	
<b>Summary Statement</b> It is a bio-diversity study on the invertebrate macro level between areas with native trees and areas with non-native trees.	
<b>Help Received</b> Dad helped in the designing of the berlese funnel.	