



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> Andrew Shimshock; Philip Zehnder	<b>Project Number</b> <b>J1934</b>
<b>Project Title</b> <b>Evapo-licious: An Investigation into Evapotranspiration</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> To determine if the number of stomata and surface area have any correlation to the evapotranspiration(ET) rate.</p> <p><b>Methods/Materials</b> The set-up used included 3 types of plants, USB humidity sensor, dirt, cups and zip-lock bags. Plants were planted in dirt, they were placed in a zip-lock bag with the sensor and it took readings which were graphed on Excel</p> <p><b>Results</b> The blue fescue had the highest ET rate but the mint had the most surface area. It is believe that fescue would not be the ideal roofing material do to its low surface area. Mint would be the most ideal because of its high surface area and number of stomata.</p> <p><b>Conclusions/Discussion</b> At first it was thought that the mint was going to transpire the most due to its high surface area and dense leaf structure. After tests we found that the fescue had the highest rate of transpiration.</p>	
<b>Summary Statement</b> An investigation into evapotranspiration	
<b>Help Received</b> A college professor helped with experimental set up; Dad helped us use an electron microscope. Mom helped with editing.	