



**CALIFORNIA STATE SCIENCE FAIR  
2010 PROJECT SUMMARY**

<b>Name(s)</b> Taylor Livingston; Jessica Orosco	<b>Project Number</b> <b>S1407</b>
<b>Project Title</b> Equus caballus and the Capacity for Their Short-Term Recollection	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The objective for our project was to conclude whether or not horses short-term memory exceeded scientists original assumption.</p> <p><b>Methods/Materials</b> We placed five large buckets in an arena and spread them out approximately five feet away from each other. We then took each horse individually and led them to a particular numbered bucket containing a carrot. After waiting five minutes, we then released them into the arena to record their response. We then repeated the process with each horse.</p> <p><b>Results</b> Our results showed that the accuracy of the test increased with repetition. Each individual horse and the overall group of horses improved their short term memory with each test.</p> <p><b>Conclusions/Discussion</b> Our conclusion from these experiments was that the average horse has a short- term memory extremely similar to the human memory. Humans can also improve short term memory with repetition. With practice, our short-term memory grows increasingly better as with horses.</p>	
<b>Summary Statement</b> We tested the capacity of the horse's short- term memory, and what increases that capacity.	
<b>Help Received</b> My ranch owner Jan supplied most of our horses.	