CWSF 2016 - Montreal, Quebec

Kyra Taylor

Equine Hydroponic Forage: Can it really benefit Equine Nutritional Needs?

Challenge: Innovation
Category: Intermediate
Region: Northern British Columbia
City: Montney, BC
School: Dr Kearney Jr Secondary
Abstract: I documented the height and growth of seven seeds found in equine diets to gain more knowledge of why barley is so widely used for hydroponic forage. I set up a simple hydroponic system to determine if the seeds used in this project will germinate hydroponically. This hydroponic forage can be used to prevent disorders caused by airborne irritants found in equine environments.

Biography

I'm a grade 9 student, who has a love for animals which has influenced my interest in their wellbeing. Being a seventh year 4-H member in Beatton Community Horse Club only intensified my passion. After I attended CWSF for the first time in grade 7, I became inspired to begin a new project that benefits modern day equines. Being a horse owner I have seen my share of the health problems that are caused within equine environments. That is what led to the inspiration of my project of germinating equine forage hydroponically. In future projects following the same topic as the one I am competing with this year, I am hoping to design and build a hydroponic fodder system that uses renewable energy. I am hoping for a final result that justifies and develops a system to provide more natural forage hydroponically grown for equine consumption that is beneficial to modern day equines health wise, nutritionally, mentally, and physically; at the same time being cost effective to their owners while having smaller environmental impact then current practices. When trying to pick a project, I suggest choosing topics that one has interest in like I have done.

Awards	Value
Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - $2000 Entrance Scholarship Sponsor: Western University	$2 000
Total	$2 000