

CWSF 2017 - Regina, Saskatchewan



Kyra Taylor

Hydroponic Forage: A Feasible Equine Feed Alternative

Challenge: Discovery

Category: Intermediate

Region: 4-H Canada

City: Montney, BC

School: North Peace Secondary

Abstract: Using NIR test analysis techniques, I tested the top four hydroponic grown seed sprouts from my previous study for their nutritional value. I then analyzed the data to determine if the sprouts were nutritionally balanced for a variety of equines types as a full ration option thus providing a feed option for horses with respiratory issues caused by airborne allergens found in equine forage.

Biography

I am a grade ten student at the ELC (Energetic Learning Campus) in Fort St John, BC. I have had a love for science for as long as I can remember. My project topic that I am pursuing this year is the continuation of my project last year. Being a 4H member is what led me to my project topic. I am a horse owner and I constantly have to pay attention to the feed rations I am giving my horses so this project that I am working on will hopefully provide a more naturally balanced feed ration for other horse owners using a hydroponic forage system. What I believe that has led to my joy when working on my project is the fact that I chose a topic that is close to my heart and is something that I am interested in and can be used in the real world. With my projects topic, there are many different areas I can focus on for many different reasons. In the past two years I have only scratched the surface of the possibility's this project offers and I plan on studying the possibility's that are yet to come in following years.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000