



Colorado Science and Engineering Fair

2025 Team Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: Are Dewormers Needed, Here?

Team Leader's Name: Sienna Harden

Team Member 1: Cora Bauer

Team Member 2:

School and City: St. Joseph's Catholic School, Fort Collins

Sponsor's Name: Marianne Aiken

Category: Animal Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

Anthelmintic Resistance (AR) is when a parasite population becomes less susceptible to a dewormer. Over time, the dewormer may no longer work against that parasite population. This study examined how to reduce AR using a sample of 15 horses in Northern Colorado. The results found that regardless of dewormer status, all horses in the sample had low levels of Strongyle parasites. The result was present regardless of the environmental management practices used by the farm to control parasites. While more studies are needed to replicate these findings, in the future, the veterinary profession can use this research to update equine dewormer guidelines by recommending a fecal egg count before administering any dewormers. If adopted, this could be one tool to reduce AR in the equine population.

We hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. We also attest that the above properly reflects our own work.

Team Leader's Signature: _____

Date: _____

Team Member 1's Signature: _____

Date: _____

Team Member 2's Signature: _____

Date: _____

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with your Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**