



Colorado Science and Engineering Fair

2025 Individual 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: Mosquito Bite, West Nile Fright 2

Finalist's Name: Lucy Brittain

School and City: Creede School District, Creede, CO

Sponsor's Name: Bryan Eubank

Category: Biomedical & Health Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

My project is called Mosquito Bite; West Nile Fright II. This is a continuation of the project I did last year. I chose to do my project on West Nile Virus (WNV) because it is a concern in my community. I attended training and helped with the first year of Mineral County collecting and testing mosquitoes.

My project focuses on WNV incidence rates in humans and mosquitoes. I not only got Mineral County information, but also researched multiple counties all over Colorado. The most "information rich" county was Larimer County. There was abundant data for this county, which was important later on in my project.

After calculating P and R² values I determined that WNV positive testing pools of female mosquitoes and WNV incidence rates in humans did not correlate in the counties across Colorado; however, I believe there was not enough consistent data in my study area to support my hypothesis. When I ran the same tests on Larimer County data, I found that my hypothesis was supported.

In conclusion, I believe that WNV positive pools of female mosquitoes and WNV incidence rates in humans may correlate, but in order to support this hypothesis, I need more conclusive and consistent data.

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

Finalist'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 you Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**