

2024 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

Finalist's Name: Lucy Britiain

School and City: Creede Schools, Creede, CO

Sponsor's Name: Bryan Eubank

Category: Mathematics & Computer Sciences (MACS)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

I chose to do my project on West Nile Virus because it is a concern in the area, both for humans and animals. Mosquitos contract the virus from birds and pass it to other animals and humans. Mineral County has not collected mosquitos previously. I was curious to know if West Nile Virus was present in Mineral County.

I used Predictive Modeling to explore this question. I developed graphs and charts from the information that I gathered from the counties used in the study. I used P and R2 values to determine statistical significance in each variable used (population density, elevation, high and low temperature).

The results of my project showed that none of my variables were statistically significant in the West Nile Virus Incident Rate.

In conclusion, there is no reason to believe that West Nile Virus is in Mineral County according to the data I collected. I plan to continue my research this summer.

I plan to assist my local public health administration in mosquito collection this upcoming summer.

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:

Tway Brittoin

Date:

3/4/24

Signature: Lucy Brittain (Mar 2, 2024 11:54 MST)

Email: lucyjobrittain@gmail.com