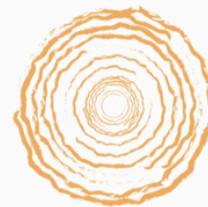


# CASE STUDY

## LOCAL HEALTH DEPARTMENTS

# EASTERN EQUINE ENCEPHALITIS



**BIOME**  
PLANETARY HEALTH SOLUTIONS

## OVERVIEW

EEE is a mosquito-borne disease that impacts horses, humans, and large, flightless birds such as emus and ostriches. EEE is fatal in ~30% of cases, and survivors often suffer permanent brain damage. There is no commercially available vaccine or treatment for EEE in humans. It is not spread person-to-person, and you cannot contract EEE from an infected animal. There is a vaccine available for horses.

## PREVENTION

### SURVEILLANCE

Monitoring mosquito populations and testing them for the EEE virus is critical to know where the virus is replicating in the environment. EEE cases are correlated with a large population of the mosquito *Culiseta melanura*.

### PUBLIC OUTREACH

The best way to protect yourself from EEE is to avoid mosquito bites. Targeted outreach and education will help at-risk populations protect themselves from the disease.

### COLLABORATION

Mosquito surveillance has been done successfully for decades in western New York State. Consistent methods across counties and reporting to the national Arbovirus Network can help Local Health Departments succeed when it matters.

## DELIVERABLES

### COUNTY BY COUNTY PLANNING

We will provide each county with an individual surveillance and outreach plan. The plan will be specific to county needs and risks, and we will work directly with Local Health Departments to develop prevention strategies that work.

### TARGETED OUTREACH

In the event that EEE virus is located in the environment, outreach and education strategies will rapidly be rolled out. We will be present in at-risk communities, speaking at public centers and posting educational videos, fliers, and webpages that inform the public on how to best protect themselves.

### SURVEILLANCE MANAGEMENT

Biome PHS is prepared to take on the brunt of the work in surveillance efforts. We will identify environmental field sites, hire technicians, and manage mosquito monitoring so that Local Health Departments don't have to.

### ADVOCACY AND POLITICAL ENGAGEMENT

As an imminent threat to public health, EEE is intertwined with local, state, and federal agencies. Biome PHS is present in political offices, advocating for Local Health Departments and the funding necessary to prevent this dangerous disease.



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