



Who's Who in One Health

1. Organization/ Group Name

One Health Awareness Kentucky (OHA-KY)

2. Key Collaborators and Participants

Kentucky Department for Public Health

Kentucky Department of Fish and Wildlife Resources

Kentucky Department of Agriculture

Kentucky Department of Parks

Kentucky Division of Emergency Management

University of Kentucky Department of Entomology

University of Kentucky Veterinary Diagnostic Laboratory

Eastern Kentucky University Department of Environmental Science

Jessamine County Animal Care and Control

USDA, APHIS, Veterinary Services

USDA, APHIS, Wildlife Services

3. Type of Organization

- Other, describe: OHA-KY is a collaborative effort by representatives from state government agencies, academic institutions, private/non-profit organizations, and federal agencies.

4. Contact(s) *(with check box to agree to share)*

Email: jeff.brock@ky.gov; john.poe@ky.gov

Telephone: 502-382-6442 (Jeff Brock)

502- 502-564-3418 ext 4313 (John Poe)

Agree to share contact information on the One Health website: Yes

5. Sources of funding for Organization/Group

None

6. Organization/Group Website Address

Not yet developed

7. One Health Course/Certificate/Training Offered by Organization or Group

N/A

8. Other One Health Activities/Initiatives

9. At present, OHA-KY has quarterly meetings and special workgroup meetings as needed

10. Brief History of Your Organization's One Health Involvement

One Health Awareness Kentucky began in the fall of 2013 with a meeting of interested parties from the KY Dept. for Public Health, the KY Dept. of Fish and Wildlife Resources, and the KY Dept. of Agriculture, along with partners from the United States Department of Agriculture. Since then, interest and participation by others from around the state have steadily increased. In addition to information sharing between participating agencies, our group members also describe their challenges and much consideration is given as to how our agencies might provide assistance to one another. OHA-KY seeks to solve problems through public education, policy development, and agency collaboration.

11. Additional Information

A One Health conversations success story:

Using Tennessee River/Kentucky Reservoir Water Level Forecasts to Trigger Mosquito Surveillance.

The Tennessee Valley Authority (TVA) operates in seven states to regulate river flows, for the purpose of flood mitigation, generating electrical power for 10 million customers, and promoting inter-coastal navigation in the Tennessee River Watershed. The TVA, along with the Army Corps of Engineers, helps manage the Kentucky Dam, which is located on the Tennessee River, near its confluence with the Ohio River in western Kentucky. Waters upstream from the dam, for about 180 miles, are called the Kentucky Reservoir. Dr. Grayson Brown, Director of the University of Kentucky Public Health Entomology Laboratory, observed that reservoir levels measuring 362 feet at the Kentucky Dam are correlated with mosquito population blooms in western Kentucky during periods of heavy rainfall. Floodwater mosquitos, particularly *Ochlerotatus trivittatus*, cause most of the public health problems. Dr. Brown suggested that mosquito control in the region might be improved by modifying management operations to prevent the Kentucky Reservoir from reaching the water level associated with mosquito population blooms. One Health Awareness Kentucky arranged a meeting between Dr. Brown and TVA representatives, for the purpose of sharing information about how water levels on the Kentucky Reservoir are managed and its impact on disease-carrying mosquitos in western Kentucky. Consequently, the TVA agreed to send email alerts to Dr. Brown, the Kentucky Department for Public Health's Division of Environmental Health and Safety, and the Kentucky State Health Emergency Operations Center, forecasting information about headwater levels for up to a week in advance. Such an alert that water levels have reached threshold will give Kentucky personnel time to conduct mosquito larvae surveillance and initiate treatment before the mosquitos become adults.