**Data Management Plan**

**Project**: The first record of an established invasive population of *Aedes albopictus* mosquitoes in Iowa

**Researchers**: Ryan Tokarz, Brendan Dunphy, Rebekah Reynolds, Ryan Smith

**Data collection, documentation, and dissemination**

***Data collection***: We will collect adult mosquitoes in counties around Iowa using BG sentinel traps. Iowa public health employees will send frozen mosquito samples to Iowa State University. Trained entomologists will identify mosquitoes to species and record species abundance according to trapping site. We will collect data from late spring through early fall.

***Data documentation***: Researchers will record species identification by hand on paper datasheets. Following the collection season, we will transfer the hand collected data into excel for further analysis.

***Data analysis***: We will identify sites where *Ae. albopictus* populations are established. In order to consider a population established, we will must find a steady population of the invasive mosquitoes at the sites over several years. We will use GIS to map the location of the of the established populations. We will use R studio to statistically analyze our results.

***Data preservation:*** Paper datasheets are scanned and saved to Cybox. Additionally, excel sheets with the surveillance data is also saved to Cybox.

***Intellectual property:*** The data collected are funded by the Centers for Disease Control and are intellectual property of the Smith lab at Iowa State University.

***Data dissemination and sharing*:** We will upload the data to the Iowa Mosquito Surveillance website for public use. <https://mosquito.ent.iastate.edu/>

Our lab is happy to share our data with other research groups through collaborations.