



Concentrations of *Escherichia coli* in the swash zone at four Ohio bathing beaches

Amie M. Gifford

Donna S. Francy

**U.S. Geological Survey,
Water Resources Discipline,
Columbus, Ohio**

Project Goal and Objectives

Determine if the beach swash zone poses a risk to public health due to the presence of waterborne pathogens

- Examine the concentrations of *E. coli* in interstitial waters and subsurface sediments at three Lake Erie urban beaches and one inland lake
- Compare these concentrations to those found in the bathing-area water and sediments

Beach Study Sites 2000 & 2001

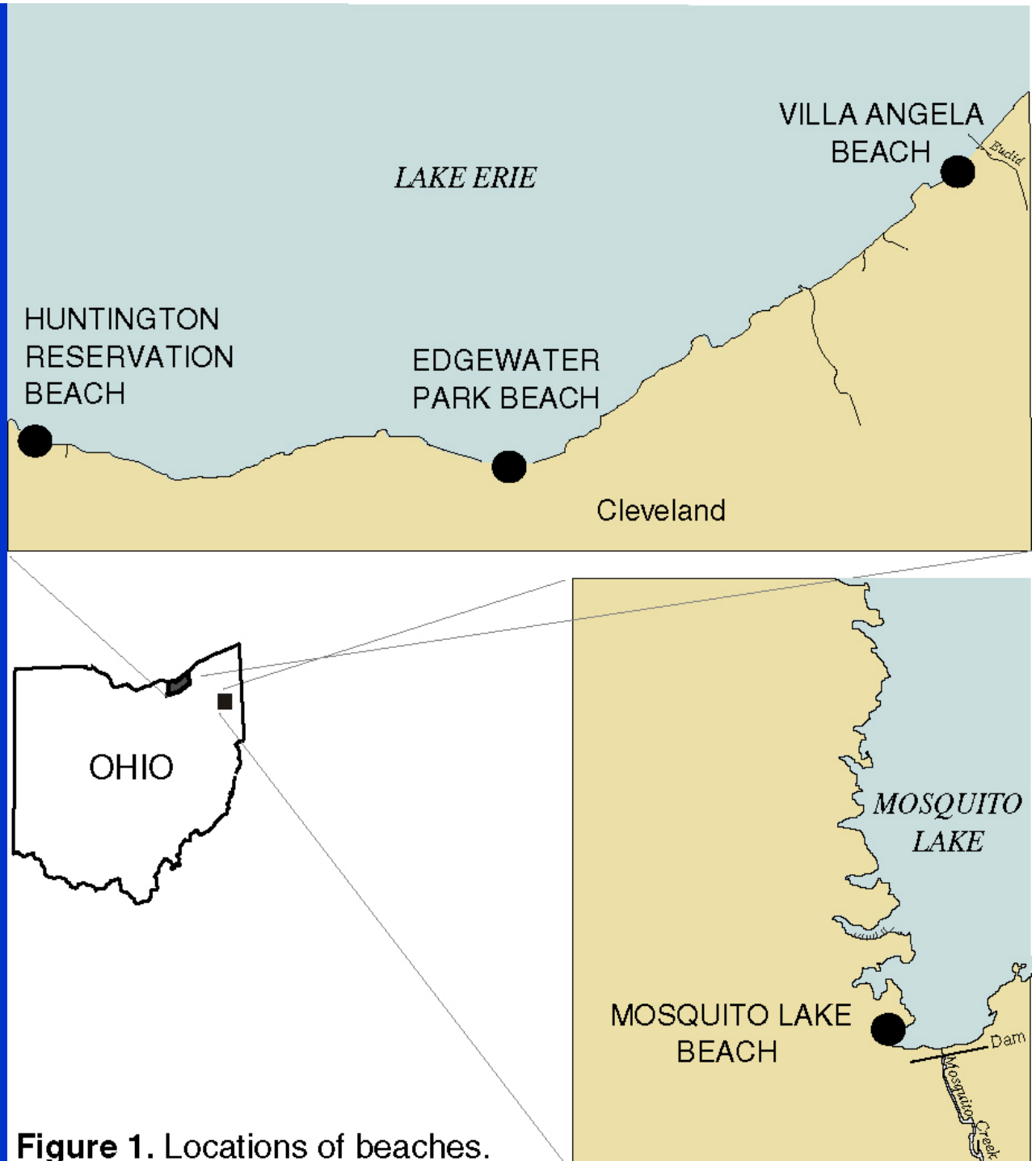
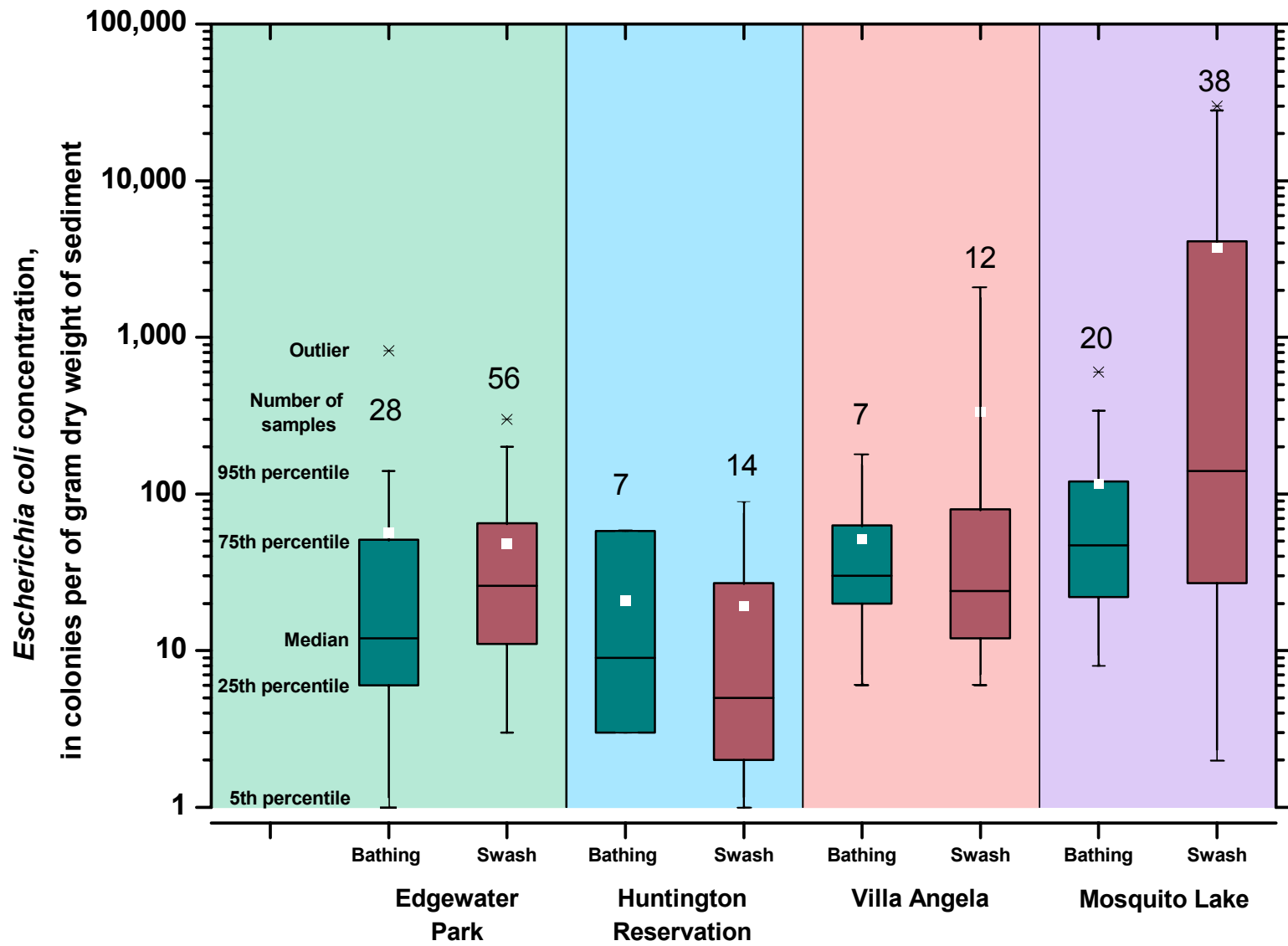


Figure 1. Locations of beaches.

Approach

- Four sampling days in 2000 at all beaches
- Five sampling days in 2001 at Edgewater Beach and Mosquito Lake Beach





Escherichia coli concentration, in colonies per 100 milliliters

