



CHESAPEAKE BAY FOUNDATION

Saving a National Treasure

Chesapeake Ecology and Sustainable Agriculture

Program Description:

Participants will address current environmental issues surrounding land use throughout the Chesapeake Bay watershed with a focus on agriculture, sustainable land management, and maintaining healthy ecosystems with a growing population.

CBF's Clagett Farm, a historical tobacco farm, has been transformed into a thriving vegetable and cattle operation by using organic and sustainable agriculture techniques. By assessing water and soil health through physical and chemical testing, biotic sampling, and field studies in Clagett's cropland, pastures, forests and streams, students will explore how the science behind where our food comes from affects the health of the Chesapeake Bay.

This program can address the following Next Generation Science Standards:

HS-LS2-1. *Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.*

HS-LS2-7. *Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.*

HS-ESS3-1. *Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.*

HS-ESS3-4. *Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.*

HS-ESS2-2. *Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.*

Capacity: One or two groups of 30 total participants.