

**STUDENT**  
**LIVESTOCK**  
**ENVIRONMENTAL**  
**ASSURANCE**  
**PROGRAM**

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# Goals

- Expand ~~youth~~ student knowledge of on-farm environmental technology and enhance the livestock industry's environmentally responsible image.

## The program agenda:

- I. *General Concepts* provides a primer for environmental assurance fundamentals.
- II. *Applications* focus on topics that are specific to livestock farms
- III. *Implementation* provides resources, contacts, and references that will assist students in applying their the action plan

# Partnerships

- Ohio State University Extension
- Ohio Livestock Coalition
- Ohio Department of Agriculture
- Ohio Department of Natural Resources, Division of Soil & Water Conservation
- Ohio Environmental Protection Agency
- Ohio Federation of Soil and Water Conservation Districts
- USDA-Natural Resources Conservation Service (NRCS).

Editors/End users:  
Ohio Agriculture Education Curriculum Development  
Vocational Agriculture Education Instructors

*Livestock Environmental  
Assurance Program*



*Student Manual • Level 1*

# Module Material

- Manual
- Power Point™ Presentations of each chapter
- DVD/Video Presentations of each chapter
- Example Quiz Questions

# Contents/Subject Matter

- Chapter 1 Why Do We Need an Environmental Assurance Program?
- Chapter 2 Environmental Stewardship
- Chapter 3 Air Quality
- Chapter 4 Handling Manure To Protect the Environment
- Chapter 5 Manure Nutrient Management
- Chapter 6 Key Regulations
- Chapter 7 Overall Site Evaluation
- Chapter 8 Poultry Manure/Litter Management and Egg Wash Water Management & Mortalities Management
- Chapter 9 Feedlot Management
- Chapter 10 Grazing Management
- Chapter 11 Milking Center Wastewater Treatment
- Chapter 12 Silage Storage Management
- Chapter 13 Emergency Action Plan And Environmental Assessment

# Educators have “Benchmarks” to meet

<b>Ag Education Curriculum Environment Related Standards, Benchmarks, and Indicators</b>	<b>LEAP</b>
<b>Animal Science Standard (Care &amp; Mgt Benchmark)</b>	
3.3 Recognize and determine the impact of environmental factors on animals	Chapters 1, 3, 4
3.4 Implement concepts of animal welfare	
<b>Plant Science Standard (Plant Nutr. Benchmark)</b>	
1.1 Describe nutrient sources	Chapters 2, 5, 11, 13
1.2 Determine plant nutrition requirements	Chapter 5

## Chapter 1: Why Do We Need an Environmental Assurance Program?

### Agricultural Education Curriculum

- *Animal Science Standard (Care & Mgt Benchmark)*
  - 3.3 Recognize and determine the impact of environmental factors on animals.
- *Business Operations Standard (Issues Benchmark)*
  - 8.1 Identify issues affecting industry
- *Environmental Science Standard (Contaminates Benchmark)*
  - 4.3 Demonstrate contaminates control and prevention practices
  - 4.4 Monitor levels of contamination (checklist)

## **On-farm assessment tools included for class projects (examples)**

- Personal Environmental Audit
- Score Chart to characterize soil type
- Site Evaluation Score Sheet
- Water Quality Risk Assessment Score Sheet

# Distribution

**Selected Vocational Educators demonstrated use of education module a 2 state conventions of their peers**

**Conducted regional programs for educators**

**2 sessions target for newly hired educators**

**Ohio Agriculture Curriculum Development distributed copies to those unable to attend any of the above programs**

# To Date

**Over 300 copies of the module have been distributed to educators in Ohio**

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## Future

- The Ohio Livestock Coalition, which is comprised of livestock commodity organizations in the state and Ohio Farm Bureau, are encouraging the creators of the module to develop a web-based program for adult audiences based on Student LEAP. This will debut in 2008

# Future (cont.)

- EPA: Investigating the use of Student LEAP as a component of the National FFA/4-curriculum
- Conduct survey of current users (State Convention)
  - Evaluation of module
  - Determine which chapters are being used