CRITICAL THINKING ACTIVITY: A LIVESTOCK DILEMMA



OBJECTIVES: Students will:

- Read and discuss an article about ruminant animals' contributions to the global CH₄ concentration;
- Evaluate the process used to measure methane emissions from ruminant animals;
- ♣ Calculate the average amounts of CH₄ contributed by different animal species on a daily basis

MATERIALS: Copy of **Student Sheets**, pencil, calculator, copy of article "Sheep's breath: How sweet thou art!"

PROCEDURE:

- 1. Read and discuss the article "Sheep's breath: How sweet thou art!" with the class. Review any new words or concepts and present questions to test comprehension.
- 2. Have students study the **DATA TABLES** of methane measurements from cows and sheep.
 - Ask students to share their observations of the data and why they think the data appears as it does.
- 3. Student should complete the data tables by computing the average CH_4 g/hr for each animal.
- 4. Students should then complete the activity by answering the questions in the **ANALYSIS** section.