

## Composting to Increase Food Production in Haiti- Learning Assessment

### Multiple Choice

1. How does the burning of leaves and plant waste contribute to human suffering? Choose all that apply.
  - a. It prevents nitrogen that came from the soil to return to the soil
  - b. It releases nitrogen oxides into the atmosphere causing air pollution
  - c. It leaves ugly burn marks on the ground
  - d. It causes a human health risk through smoke inhalation for people working nearby
2. True or false. Trees reduce nitrogen greenhouse gases by absorbing nitrogen oxides directly through their leaves.
  - a. True
  - b. False
3. How does a composting program contribute to food security? Choose all that apply.
  - a. Compost promotes soil health through balancing pH and adding vital nutrients and organic matter to arable soils
  - b. Compost can be bagged and sold to generate extra income
  - c. The combining of manures and leaves can help decrease harmful fly populations through maintaining a cleaner animal production system
  - d. Compost doesn't help food security, because humans can't eat it
4. Which careers could involve promoting a composting program? Choose all that apply.
  - a. Nursing home coordinator
  - b. Sociologist
  - c. Agriculture teacher
  - d. Extension specialist
5. What are considered brown materials used for compost? Choose all that apply.
  - a. Fresh cow manure
  - b. Fish tank waste
  - c. Leaves
  - d. Vegetable food scraps

### Open-Ended

1. How would a composting program contribute to food security?
2. How would you encourage a culture to adopt composting as a method of disposing of leaves, which traditionally has burned them for centuries?
3. If you have 10 buckets of leaves (70:1), how many buckets of chicken manure (7:1) would you need to make a compost pile at C:N 30:1?

## Composting to Increase Food Production in Haiti- Learning Assessment KEY

### Multiple Choice

- How does the burning of leaves and plant waste contribute to human suffering?
  - It prevents nitrogen that came from the soil to return to the soil**
  - It releases nitrogen oxides into the atmosphere causing air pollution**
  - It leaves ugly burn marks on the ground
  - It causes a human health risk through smoke inhalation for people working nearby**
- True or false. Trees reduce nitrogen greenhouse gases by absorbing nitrogen oxides directly through their leaves.
  - True
  - False**
- How does a composting program contribute to food security?
  - Compost promotes soil health through balancing pH and adding vital nutrients and organic matter to arable soils**
  - Compost can be bagged and sold to generate extra income
  - The combining of manures and leaves can help decrease harmful fly populations through maintaining a cleaner animal production system**
  - Compost does not help food security, because humans cannot eat it
- Which careers could involve promoting a composting program?
  - Nursing home coordinator
  - Sociologist
  - Agriculture teacher**
  - Extension specialist**
- What are considered brown materials used for compost?
  - Fresh cow manure
  - Fish tank waste
  - Leaves**
  - Vegetable food scraps

### Open-Ended

- How would a composting program contribute to food security?  
**Answers may vary**
- How would you encourage a culture to adopt composting as a method of disposing of leaves, which traditionally has burned them for centuries?  
**Answers may vary**
- If you have 10 buckets of leaves (60:1), how many buckets of chicken manure (7:1) would you need to make a compost pile at C:N 30:1?

**ANSWER:  $10 \times 60 = 600 / 30 = 20 = 7x$ ,  $20 / 7 = 2.857 = x$**