

garbage	Ships outside special areas	Ships within special areas	Offshore platform (more than 12 nm from land) and ships within 5 nm of such platform
waste comminuted food	Discharge permitted ≥3 nm from the nearest land, en route and as far as practicable	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge permitted
waste not treated or ground	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge prohibited	Discharge prohibited
sidues <sup>1</sup> not added in wash water	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge prohibited	Discharge prohibited
sidues <sup>1</sup> contained in water	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge permitted ≥12 nm from the nearest land, en route, as far as practicable and subject to two additional conditions <sup>2</sup>	Discharge prohibited
agents and <sup>1</sup> contained in ld wash water	Discharge permitted	Discharge permitted ≥12 nm from the nearest land, en route, as far as practicable and subject to two additional conditions <sup>2</sup>	Discharge prohibited
agents and <sup>1</sup> in deck and surfaces ter		Discharge permitted	Discharge prohibited
es of animals n board as cargo h died during the	Discharge permitted as far from the nearest land as possible and en route	Discharge prohibited	Discharge prohibited
garbage plastics, c ropes, fishing stic garbage inerator ashes, cooking oil, dunnage, lining aterials, gs, glass, metal, crockery and refuse	Discharge prohibited	Discharge prohibited	Discharge prohibited
garbage	When garbage is mixed with or contaminated by other substances prior to discharge or having different discharge requirements, the more stringent requirements shall apply		

# Introduction to Waste Food Management

Waste food management is a critical issue that affects the environment, economy, and society. It encompasses the processes and strategies for reducing, reusing, and recycling food waste to minimize its impact.

 by Yash bhardwaj

# The Problem of Food Waste

## 1 Overproduction

One of the primary causes of food waste is overproduction by food suppliers and retailers.

## 2 Lack of Distribution Channels

Challenges in transporting surplus food to those in need further exacerbate the problem.

## 3 Consumer Behavior

Individual purchasing habits and improper food storage contribute to significant waste at the consumer level.

# Environmental Impact of Food Waste

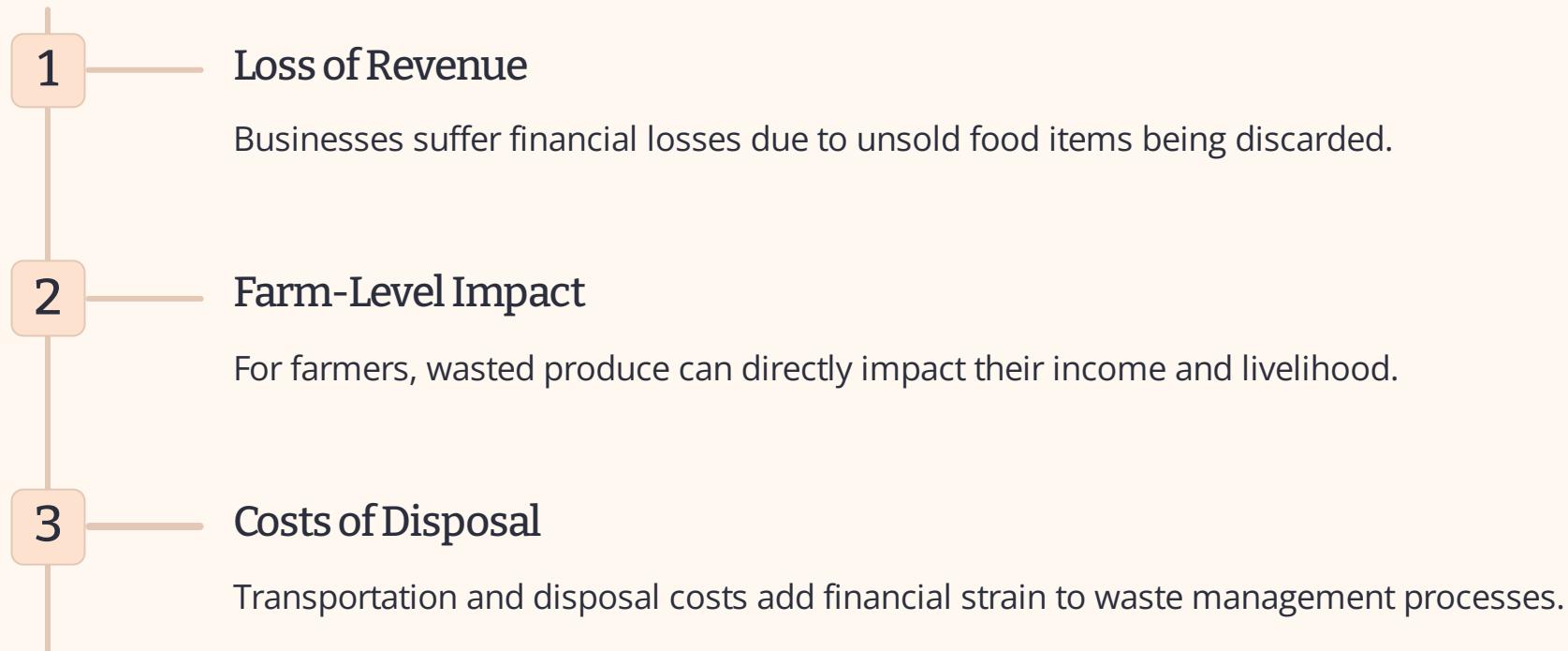
## Resource Depletion

Wasted food leads to inefficient utilization of resources including water, land, and energy.

## Emissions

Decaying food releases methane, a potent greenhouse gas, contributing to climate change.

# Economic Impact of Food Waste

- 
- 1 **Loss of Revenue**

Businesses suffer financial losses due to unsold food items being discarded.
  - 2 **Farm-Level Impact**

For farmers, wasted produce can directly impact their income and livelihood.
  - 3 **Costs of Disposal**

Transportation and disposal costs add financial strain to waste management processes.



INCREASE  
CROP PRODUCTIVITY

US\$25 BILLION

FARM INCOME GAINS IN 1996-2018  
GENERATED GLOBALLY BY

BIOTECH CROPS

# Solutions for Waste Food Management



CONSERVE  
BIODIVERSITY

IN 1996-2018, PRODUCTIVITY GAINED  
BY BIOTECH CROPS HAS AVOIDED EMISSIONS  
SAVED

251 MILLION HECTARES

OF LAND FROM PLOWING AND CULTIVATION

TONS  
CO<sub>2</sub>  
PER  
YEAR

## Food Redistribution

Utilizing surplus food to support communities in need through donation programs and food banks.

## Composting

Converting food waste into nutrient-rich compost for agricultural use and soil improvement.

## Technological Innovations

New technologies are emerging to reduce food waste, including apps to minimize expiration-based waste and systems for converting waste into energy.

BIOTECH CROPS UPLIFTED THE LIVES OF  
**17 MILLION FARMERS**  
AND THEIR FAMILIES TOTALING  
**>65 MILLION PEOPLE**



# Technologies for Waste Food Management

1

## Smart Storage

Advanced storage solutions to prolong the shelf life of perishable foods.

2

## Food Tracking Systems

Utilizing technology to monitor supply chain processes and identify potential waste points.

3

## Biodegradable Packaging

Innovative packaging materials that lower environmental impact while preserving food freshness.



Made with Gamma

# Case Studies of Successful Waste Food Management Initiatives



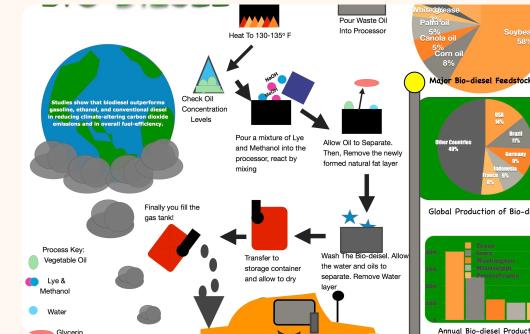
## Community Initiatives

Local projects engaging community participation to combat food waste and hunger simultaneously.



## Industrial Composting Facilities

Large-scale operations effectively managing waste through composting processes.



## Energy Recovery

Efforts to turn food waste into biofuels to generate renewable energy.

## Lesson 1: Grabber and Introduction

### Three Day Project

Introductory Grabber: For the grabber teachers are going to have the kitchen staff collect all of the wasted food from lunchtime the day before it is introduced and teachers would put it in trash bags and bring it into the classroom and show the students just how much food they are wasting. This will cause the problem of food waste to become much more real in the student's mind and forces them to ask more questions about what is going on. This is relevant to the school's goal, which is to decrease the amount of food wasted.

# Conclusion and Call to Action

1

## Individual Awareness

Encouraging individuals to change consumption habits and support waste reduction initiatives.

2

## Policy Support

Advocating for supportive legislation and regulations to address food waste throughout the supply chain.

3

## Business Responsibilities

Encouraging businesses to adopt sustainable practices that reduce food waste and benefit the environment and society.