North America's Commission for Environmental Cooperation

Food Loss and Waste A trinational priority



Joint FAO and CEC Webinar

Stop food loss and waste. For the people. For the planet.

First-ever International Day of Awareness of Food Loss and Waste on 29 September

Armando Yáñez Sandoval. Head of Green Growth Unit. CEC.

September 28, 2020

Overview of CEC's work on Food Loss and Waste

- Parties set FLW as a tri-national priority on CEC's Strategic Plan 2015 – 2020
 - **Group of experts is formed (Steering Committee)** to define the vision and guide the process



SUSTAINABLE GOALS

TARGET 12.3 By 2030, halve per capita global food waste at

the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses 3 Understand the **Developing tools** Test, improve and issue at hand and resources promote use

Building partnerships; working together; empowering 2

1 Understanding the issue at hand...

North American Initiative on Food Waste Reduction and Recovery and the North American Initiative on Organic Waste Diversion and Processing

Publications:
 Foundational reports
 White papers
 Case Studies

Characterization and Management of Organic Waste in North America

Foundational Report





Food Loss and Waste

Case Studies on











FOOD LOSS AND WASTE

Approximately 168,000,000 tonnes are wasted in North America each year



Food Waste Facts & Figures



Approximately **168,000,000 tonnes** of food is lost or wasted in North America each year. Each year, the food we waste costs the North American economy **\$278 Billion US dollars** and could have fed **260 million people.**





39 million m3 of landfill space, equivalent to 13 football stadiums gets used up with our food waste each year

193 million tonnes of greenhouse gases emitted needlessly, the same as driving 41 million cars continuously for a whole year

Enough energy to power **274 million homes**

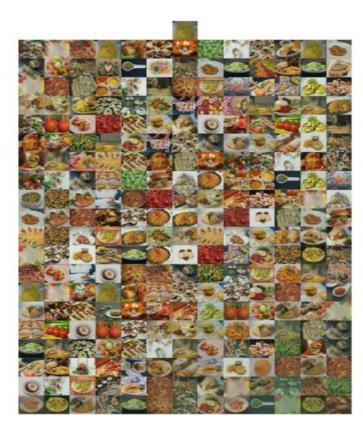
In the United States alone, over **32 million hectares of wildlife habitat** is lost to farmland to grow food that is never eaten

\$1.9 billion US dollars in wasted landfill tipping fees

Food Loss and Waste Kilograms / Person / Year

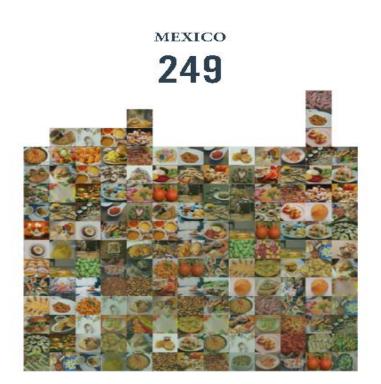


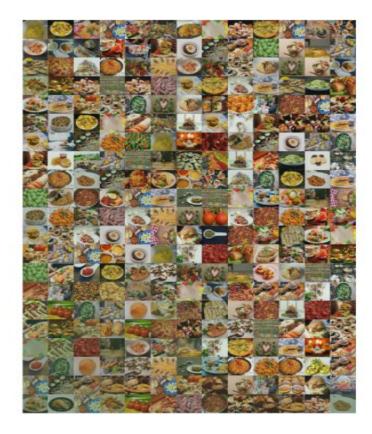
UNITED STATES



CANADA

396





Food Loss and Waste in North America across the Supply Chain Million Tonnes / Year



CONSUMER 67





Causes of Food Loss and Waste across by Stage of the Food Supply Chain

	POST-HARVEST		PROCESSING		DISTRIBUTION		RETAIL		FOODSERVICE
\checkmark	Inaccurate supply- and-demand forecasting	~ ~ ~ ~ ~	Inadequate infrastructure, machinery	> > >	Damage during transport	\checkmark	Rigid management Marketing practices Overstocking	~ ~	Plate composition Over-serving
\checkmark	Low market prices and lack of markets (especially for second-grade products)		Damage during production		Rejection of shipments Incorrect/ineffective packaging	~		\checkmark	Improper handling and storage
			Trimming and culling			\checkmark	Market over- saturation	\checkmark	Food safety concerns
\checkmark	Grade standards for size and quality		Inconsistent/confusing date labels		Delays during border inspection		Others	\checkmark	/ Others
\checkmark	Cold-chain (refrigeration) deficiencies		Others		Others				
\checkmark	Others								



2 Developing tools and resources...



Food Matters Action Kit

The Food Matters Action Kit provides North American youth with dozens of easy and fun activities that have a positive impact on our environment.



Why and How to Measure Food Loss and Waste

This practical guide provides a stepby-step plan for organizations all along the food supply chain to measure food loss and waste.

Food Loss and Waste: Infographic

What is the estimated impact of food loss and waste on our lives and on our surrounding environment?



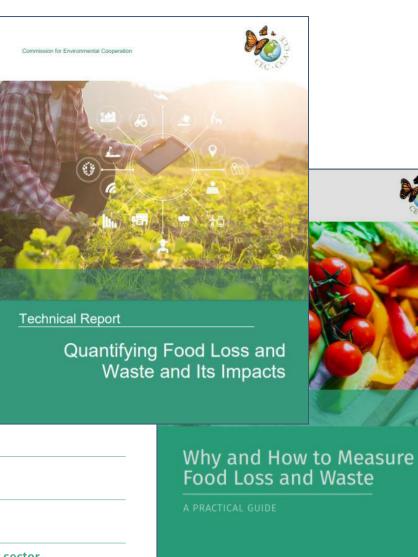
North American Initiatives on Food and Organic Waste

Peeling back the layers on the issue of food loss and waste in North America.

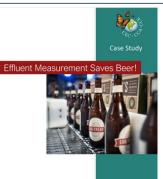
Two components...

Developing tools and resources - Measurement component

- Technical Report: Quantifying Food Loss and Waste and Its Impacts
- Practical Guide: Why and How to measure Food Loss and Waste
 - Case studies
- Step 1: Determine why you want to reduce food loss and waste. (Module: Why Measure FLW?) Step 2: Establish your business case for reducing food loss and waste. (Module: The Business Case for FLW Reduction) Step 3: Prepare for the change of measuring and reducing food loss and waste. \checkmark (Module: Managing Change) Step 4: Determine your definition of food loss and waste. (Module: Setting Your Scope) Step 5: Determine your causes of food loss and waste and identify solutions. \checkmark (Module: Determining Root Causes) Step 6: Identify your key performance indicators and impacts. (Module: Selecting Key Performance Indicators and Identifying Impacts) Step 7: Select and implement a food loss and waste measurement method based on your sector. (Module: Sector-Specific Guidance)







BEAU'S



Developing tools and resources - Education component

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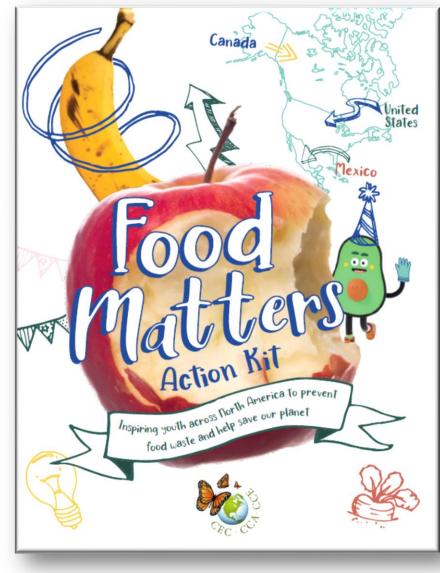
The Food Matters Action Kit

The *Food Matters Action Kit* is an educational tool designed to bring awareness of the growing problem of food waste in North America to **kids and youth aged 5-25.**

Inspiring youth across North America to prevent food waste and help save our planet

This Action Kit was developed by the CEC as part of an initiative called **Empowering Youth to Prevent Food Waste**, **Protect Our Environment and Help Save the Planet**, completed under the CEC's 2017-2018 Operational Plan.

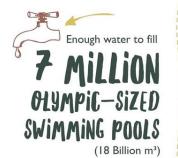






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In the United States alone, over **32 MILLION HECTARES OF WILDLIFE HABITAT** is lost to farmland to grow food that is never eaten





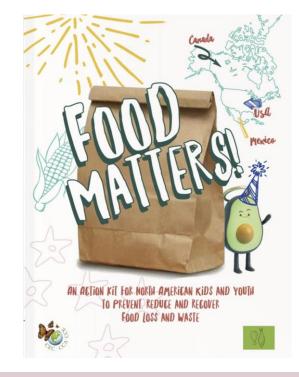
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Source: CEC (2017). Characterization and Management of Food Loss and Waste in North America p. 15 ttp://www3.cec.org/islandora/en/item/11772-characterization-and-management-food-loss-and-waste-in-north-america-en.pdf And http://www.cec.org/isles/ideal/id//winteractive/index-en.html



Inspiring youth across North America to prevent food waste and help save our planet



Anatomy of the Food Matters Action Kit

- Educators guide
- Activities range from 30 minutes to multi-week projects
- Impact-oriented
- Challenges and Recognition system





Why use the Food Matters Action Kit?

It's relevant!

Food waste in North America and across the globe is a growing problem. Approximately one third of all food intended for human consumption goes to waste.



It's fun!

Through over 70 fun and engaging activities, the kit empowers youth to make a difference by making small lifestyle changes to prevent food waste and by spreading awareness of the issue.



It's free!

The Action kit is available in English, French and Spanish and can be downloaded free of charge from the website: <u>www3.cec.org/flwy/</u>



Register on the website! www.cec.org/flwy





Test, improve and promote use... Measurement component 3



16

IY AND HOW TO MEASURE FOOD LOSS AND WASTE

About Checklist Sectors Methods Tools / Reports Case Studies

A Practical Guide

This guide will walk you through seven steps for measuring food loss and waste (FLW) within your business, city, state, or country. Use our checklist to track your progress and easily access the most appropriate section.

PRACTICAL GUIDE TECHNICAL REPORT

WEBINAR

Ready to Implement the Practical Guide? Contact us to become a partner now!

We are looking for partner organizations to pilot the guide. We will provide technical support every step of the way. You will be profiled in a case study highlighting how you saved money while reducing food loss and waste.

Tell us what you think of our Practical Guide!

Answer our questionnaire and your input will help us make improvements to the Practical Guide.

Piloting the guide – different sectors and stages throughout the food supply chain

Test, improve and promote use... Education component

#ShrinkFoodWaste campaign

Teaching kids and youth about the impacts of food waste can help shape their habits into adulthood and encourage them to live sustainably. Here are 3 ways the *Food Matters Action Kit* fosters change:

Knowledge is Power

It teaches the impact of food waste on our planet.

2

Shift Behavior

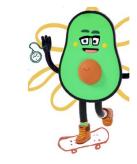
It shows youth how to prevent food waste by changing attitudes about food and by developing new habits and skills.

Spread the Word

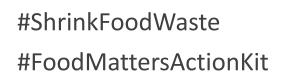
It allows youth to encourage food waste action and share tips at home, at school, and in their community, in order to help address the issue together.







Let's Shrink Food Waste Mountain Réduisons la montagne de gaspillage alimentaire Reduzcamos la montaña de alimentos desperdiciados



Module 1: <u>Let's Shrink Food</u> <u>Waste Mountain</u>

Module 2: <u>Tale of the Forgotten</u> <u>Food</u>

Module 3: Day of the Ugly Food



#RéduisTonGaspillage
#AntiGaspillageAlimentaire

Module 1: <u>Réduisons la</u> <u>montagne de déchets</u> <u>alimentaires</u>

Module 2: L'histoire des

Module 3 : Les aliments

moches en vedette

aliments oubliés

#ReduceElDesperdicio
#LosAlimentosImportan

Módulo 1: <u>Reduzcamos la</u> <u>montaña de alimentos</u> <u>desperdiciados</u>

Módulo 2: <u>Historia de los</u> alimentos olvidados



Módulo 3: <u>Día de los</u> <u>Alimentos Feos</u>



#RéduisTonGaspillage

#ReduceEIDesperdicio

#LosAlimentosImportan

#AntiGaspillageAlimentaire

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#ShrinkFoodWaste #FoodMattersActionKit



Thank you! Gracias! Merci!

Armando Yáñez – ayanez@cec.org

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