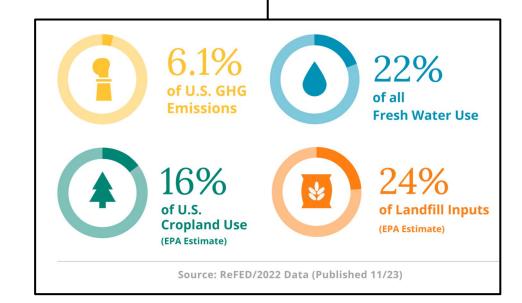


## **Context**

- Up to 38% of the food supply goes uneaten in the United States, and most of it is wasted.
- The economic value of wasted food is estimated to be \$428B per year.
- Food waste alone accounts for almost a quarter of the municipal waste stream, where it decays and accounts for 58% of methane emissions from local landfills.

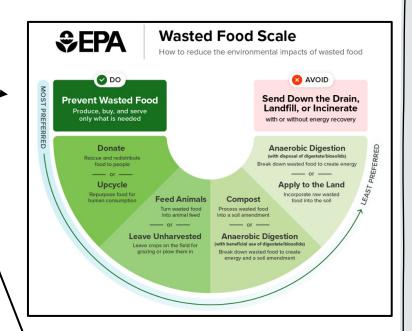
When food is wasted, the resources used to grow, harvest, transport, store, and prepare it are wasted as well...

Annually, uneaten food alone accounts for:



## Food Waste Prevention Education

- According to the EPA's Wasted Food Scale, the most environmentally-preferred food waste reduction strategy is preventing wasted food.
- According to ReFED, "Reshaping Consumer Environments," \_\_\_\_\_\_
   can create significant financial, social, and environmental benefits.
- Education plays a key role in this cluster of strategies. According to ReFED:
  - A large reason for [food] waste creation is the lack of education" on how to prevent and reduce food waste in day-to-day life.
  - ➤ Integrating food waste topics in K–12 education "can help drive lasting change by intervening early and teaching future generations the importance of reducing food waste."



Defined as "creating shopping, cooking, and eating environments" that promote "better food management and less waste."

## Food Waste Prevention Resource Guide Series

- Created for Urban Green Lab, a Nashville-based sustainability NGO, to support their work with classrooms, households, and workplaces to prevent food waste.
- Intended for use by a wide range of stakeholders across the country to reduce the transactions costs associated with researching and identifying useful resources.
- The Resource Guide Series highlights proven food waste prevention strategies on five key topics:



Storage and Freezing;



Plate and Portion Size;



Date Labels;



Meal Prepping and Kits; and



Packaging Design and Use.

# Methodology

- Selected five strategies informed by ReFED's top food waste reduction "solutions" in its "key action area"—"Reshape Consumer Environments":
  - > Storage & Freezing, Date Labels, Plate & Portion Size, Meal Prepping & Kits, Packaging Design & Use
- Conducted research to inform the development of Topic Primers and Key Takeaways that introduce each section of the Guides.
- Conducted research to find accessible, vetted resources for each topic.

# Methodology (continued)

- For each topic, categorized resources by:
  - > Audience Type (Classrooms, Households, Workplaces);
  - > Content Type (Lesson Plans, Articles, Ready-to-Use Resources, etc.); and
  - Focus Area (Dining at Home vs. Dining Out, Elementary Schools vs. High Schools, etc.).
- Developed brief descriptions of each resource.
- Interviewed UGL experts.
- Obtained input from outside expert reviewers and incorporated input received.

# PLATE & PORTION SIZE FOOD WASTE PREVENTION RESOURCE GUIDE

# SPOTLIGHT

# FOOD WASTE PREVENTION RESOURCE GUIDE SERIES: PLATE AND PORTION SIZE



Up to 40% of the food supply is wasted in the United States. Reducing this staggering number and meeting national goals to reduce food waste requires consumers to make meaningful changes to how they buy, store, prepare, and consume food. Yet, food waste remains off the radar for many consumers. According to a 2019 study, one in five people never consider food waste in their decision-making while eating at home or grocery shopping. More than two-thirds of people never consider food waste while eating out. Providing effective education is a proven strategy to help address this lack of awareness. Consumer education has the potential to divert an additional 3.22 million tons of wasted food, prevent 18.7 million metric tons of CO2 emissions, and provide a financial net benefit of \$15.8 billion.

Increased consumer attention to the issue may also push businesses to operate more responsibly. *The Nashville Food Waste Initiative* (NFWI) aims to provide food waste education to everyone in Nashville, from business owners and staff to educators to students. Originally developed in 2015 as a pilot project by NRDC, NFWI is now led by *Urban Green Lab* (UGL) in partnership with the *Environmental Law Institute* (ELI). UGL offers trainings that include information on how to reduce food waste in classrooms, households, and workplaces.

ELI and UGL collaborated to create the Food Waste Prevention
Resource Guide Series to help expand food waste content in
UGL trainings and provide ready-to-use resources for other
sustainability non-profits or similar organizations creating their
own trainings or curriculums.

The Resource Guide Series highlights five <u>proven</u> food waste prevention strategies: packaging design and use, date labels, meal prepping and kits, storage and freezing, and plate and portion size. Each Resource Guide covers one of the five topics, includes key tips as well as a list of helpful resources, and is organized into three charts tailored to a different audience—classrooms, households, and workplaces. Some resources appear across multiple charts.

Organized by both resource type (columns) and topic (rows), the Resource Guide Series provides a straightforward way for sustainability educators to find vetted content for building effective, fact-based trainings.

Offering flexibility in plate and portion size is the number one solution to reducing greenhouse gas emissions associated with food waste, according to *ReFED*. Adjusting plate and portion sizes and implementing other food-saving measures can help reduce post-service food waste, also referred to as plate waste.

NOTES: The Resource Guides provide targeted resources on specific food waste prevention strategies. More free information on food waste prevention, reduction, and recycling, including general overviews, are widely available such as from <u>USDA</u>, <u>NRDC</u>, <u>ReFED</u>, <u>WRAP</u> and <u>World Wildlife Fund</u>. Additionally, though the Resource Guides largely compile free resources from governments, NGOs, and academics, note that there are also private and/or paid resources that can provide useful information on food waste prevention (e.g., Dana Gunders' <u>Waste-Free Kitchen Handbook</u>, <u>LeanPath</u>).

URBAN GREEN LAB

# PLATE AND PORTION SIZE: CLASSROOMS

Offering flexibility in plate and portion size is the number one solution to reducing greenhouse gas emissions associated with food waste, according to ReFED. Adjusting plate and portion sizes and implementing other food-saving measures can help reduce post-service food waste, also referred to as plate waste.

The table below compiles free resources for teaching classrooms about sustainable choices to reduce plate waste through plate and portion size adjustments.



# KEY TAKEAWAYS FOR PLATE AND PORTION SIZE IN CLASSROOMS

#### When teaching about plate and portion size, educators should be able to:

- Explain that food waste contributes to climate change through unnecessary use of energy and resources, as well as emissions generated during landfill decay.
- Define plate waste (i.e., post-service food waste) and share how plate and portion size adjustments can prevent and reduce plate waste.
- Explain how status quo plate and portion size practices can lead to food waste.
- Contextualize how school cafeterias contribute to plate waste and explore solutions, such as adjusting plate and portion size, removing trays, providing multiple portion sizes, and adopting an "Offer Versus Serve" approach that allows students to decline a certain number of food items and select preferred foods during meal service.

- Help students understand how behavior and visual factors lead to plate waste and provide steps to combat foodwasting behaviors (e.g., reducing snacking throughout the day to increase hunger at meal times).
- Explain the importance of being sensitive to issues such as food shaming (i.e., making negative or judgmental remarks about what or how much an individual is eating) and food insecurity in addressing food waste reduction through portion size flexibility.
- Educate students about how they can engage with elected officials and other community members to encourage sustainable practices such as reducing food waste.
- Help students understand the impacts of their own actions and how they can discuss and help implement sustainable practices at home.

"Training educators to bring a sustainable lens to the classroom is crucial for culture change in a community. If we want to push the dial for sustainability in a meaningful way, we need to ensure educators have the confidence and tools to deepen the standards they are already teaching while connecting to the real world outside of the classroom."





#### Lesson Plans & **Classroom Activities**

#### **Toolkits & Similar** Resources

#### **Reports & Articles**

#### **Creative Media**

WWF, Be a Food Waste Warrior (n.d.):K-12 lessons, activities, and resources that educators can use to teach about the environmental impacts of food wasteorganized by age group.

U.S. EPA, Too Good to Waste Implementation Guide and Toolkit (n.d.): Comprehensive toolkit that provides strategies and resources for consumers and educators to engage in food waste reduction activities.

ReFED, Resources & **Guides** (n.d.): Compilation of online food waste tools that includes a food waste monitor, solutions database, impact calculator, and policy finder.

NRDC, Wasted: How America Is Losing Up to 40 Percent of Its Food from Farm to Fork to Landfill (2017): Seminal report on food waste that includes a thorough description of the problem, recent progress, and emerging solutions.

Rubicon, Food Waste in America: Facts and Statistics (2023): Primer on food waste in America that includes statistics and recommendations.

Food Waste Problem and It's Getting Worse (2023):

Bloomberg, The US Has a

Article that provides an overview of food waste trends and key numbers. Our Changing Climate, Food Waste Causes Climate Change, Here's How We Stop it. (2020):

Video that provides key food waste statistics and possible avenues for change.



#### Toolkits & Similar Resources

#### **Reports & Articles**

#### **Creative Media**

USDA, <u>Offer Versus Serve</u> (OVS), <u>Tip Sheet for School</u> <u>Food Service Managers</u>

(2020): Tip sheet that covers Offer Versus Serve for the National School Lunch Program.

Guardians of Grub, <u>Rise Up</u>
<u>Against Food Waste</u> (n.d.):
Calculator that measures
avoided costs and emissions
from reduced plate waste.

I Value Food, Eating Out.

Without Waste (n.d.):
Infographics that provide
strategies for reducing plate
waste when dining out.

NRDC, <u>Wasting Less Food</u> in K-12 Settings: Best <u>Practices for Success</u> (2018): Brief that details best practices for reducing plate waste in K-12 settings. Jimmy Nguyen, National
Academy of Medicine, <u>The</u>
<u>Power of Postconsumer</u>
<u>School Food Waste</u>
<u>Audits</u> (2016): Article that
describes best practices for
postconsumer plate waste
audits in K-12 schools.

Shaheen Hosany, The

home.

Conversation, How Children are Helping to Make
Their Families More EcoFriendly - New Research
(2022): Article that explains how sustainability education at school leads children to develop and implement sustainable practices at

David Just, Healthy Food
Choices in School, Right
Sizing: Creating Appealing
& Satisfying Portions in
School Meals (2017): Video
that demonstrates the
behavioral and visual factors
influencing students' level of
satisfaction with portion size.



### Lesson Plans & Classroom Activities

The City of Calgary, <u>Food Waste Reduction</u>
<u>Plan</u> (n.d.): Lesson plan that provides
conversation starters and tips on preventing
plate waste.

USDA, <u>My Plate</u> (n.d.): Interactive webpage that offers guidance on the relative portion sizes of different food groups.

WWF, <u>The No Food Waste Game</u> (2020): Educational game for students that challenges players to think of different ways to prevent food waste generally.

#### **Reports & Articles**

Green Schools National Network, <u>K-12</u>
<u>Cafeterias are Spaces of Civic Engagement</u>
<u>for Kids and Cooks</u> (2019): Article that explains
how by leading plate waste audits, students are
able to design solutions to reduce plate waste.

The Scholarship System, <u>5 Ways Students</u>

<u>Can Get Involved in Politics (And Why</u>

<u>They Should)</u> (2023): Blog that explores ways students can be politically active and engage with elected officials and community members.



### Lesson Plans & Classroom Activities

Florida Health Department, <u>Be Wise About</u>
<u>Your Portion Size</u> (n.d.): Guide that helps
children ages 3 to 5 select and measure healthy
portion sizes.

Food and Agriculture Organization of the United Nations and International Food Waste Coalition, Do Good: Save Food! (2018): Two educational packages, one for ages 5 to 7 and one for ages 8 to 9, that offers lessons, presentations, and activities on plate waste solutions.

#### **Reports & Articles**

Let's Eat Healthy, <u>Serving Sizes: Introduction</u> (2020): Video that introduces students to serving sizes and measuring food.

PBS, <u>Kids Go Green: Reducing Food Waste</u> (n.d.): Video that offers solutions to plate waste.

World Wildlife Fund, <u>Food Waste Warrior</u>
<u>Posters</u> (n.d.): Poster that encourages students to eat what they take.



Lesson Plans &

Middle School

Food and Agriculture
Organization of the United
Nations and International
Food Waste Coalition, <u>Do</u>
<u>Good: Save Food!</u> (2018):
Educational package for ages
10 to 13 that offers lessons,
presentations, and activities
on plate waste solutions.

World Wildlife Fund, What is Food Waste? Grades
6-12 (n.d.): Slides that include presenter notes for teaching middle and high school students about the environmental impacts of food waste and how to reduce food waste at home and school.

Mary Institute and Saint
Louis Country Day School,
Middle Schoolers Learn
about Food Waste (2019):
Article that highlights an
example of middle schoolers
working to reduce plate waste
at their school by measuring
food waste and educating
their peers.

Food Insight, Servings Sizes and Portion Sizes: Making Smaller Sizes the New Normal Again (2020): Video that explains the difference between serving size and portion size and their relationship to plate waste.



Food and Agriculture Organization of the United Nations and International Food Waste Coalition, Do Good: Save Food! (2018): Educational package for ages 14 years and up that includes lessons, presentations, and activities on plate waste solutions.

World Wildlife Fund, What is Food Waste? Grades 6-12 (n.d.): Slides that include presenter notes for teaching middle and high school students about the environmental impacts of food waste and how to reduce food waste at home and school.

Foodspan & John Hopkins Center for a Livable Future, *Our Wasted Food* (2023): 50-minute lesson plan that teaches students about food waste and possible solutions, with extension projects that will further empower students to take action.

Amber Werkman, Jenny van Doorn & Koert van Ittersum, <u>Are You</u>

<u>Being Served? Managing Waist</u>

<u>and Waste via Serving Size, Unit</u>

<u>Size, and Self-serving</u> (2022):

Study that explains the "servingsize effect" and finds that self-serving diminishes plate waste.

Peter Lehner, TEDxManhattan, A. Recipe for Cutting Food Waste (2013): Talk that explains how increasing portion and plate sizes have contributed to plate waste (10:20 to 11:30).



# PLATE AND PORTION SIZE: HOUSEHOLDS

Offering flexibility in plate and portion size is the number one solution to reducing greenhouse gas emissions associated with food waste, according to ReFED. Adjusting plate and portion sizes and implementing other food-saving measures can help reduce post-service food waste, also referred to as plate waste.

The table below compiles free resources for teaching households about sustainable choices to reduce plate waste through plate and portion size adjustments.



# KEY TAKEAWAYS FOR PLATE AND PORTION SIZE IN HOUSEHOLDS

## When teaching about plate and portion size, educators should help households:

- Understand that food waste contributes to climate change through unnecessary use of energy and resources, as well as emissions generated during landfill decay.
- Understand how status quo plate and portion size practices can lead to food waste.
- Learn how increased plate and portion sizes have contributed to plate waste and the negative cost, health, and environmental impacts associated with plate waste.
- Explore solutions to preventing and reducing plate waste, such as relying on measuring cups to determine portion size, using smaller plates, and waiting 20 minutes before taking a second helping.
- Learn to properly measure and serve portion sizes of different foods, while being cognizant of food shaming (i.e., making negative or judgmental remarks about what and how much an individual is eating).
- Evaluate the impacts of their own actions and how they can adopt more sustainable practices at home and encourage businesses, schools, and other institutions to do the same.

"Educating residents to find simple, sustainable solutions within their homes impacts the entire city. Once sustainability has been integrated into the everyday lives and actions of households, that knowledge then pours into our relationships, neighborhoods, and communities."





Ready-to-Use Resources

**Toolkits & Similar** Resources

**Articles** 

NRDC, Wasted: How America Is Losing Up to 40 Percent of Its Food from Farm to Fork to Landfill (2017): Seminal report on food waste that includes a thorough description of the problem, recent progress, and emerging solutions.

ReFED, Resources & **Guides** (n.d.): Compilation of online food waste tools that includes a food waste monitor, solutions database, impact calculator, and policy finder.

U.S. EPA, Too Good to Waste Implementation Guide and Toolkit (n.d.): Comprehensive toolkit that provides strategies and resources for consumers and educators to engage in food waste reduction activities.

Rubicon, Food Waste in America: Facts and Statistics (2023): Primer on food waste in America that includes statistics and recommendations.

Bloomberg, The US Has a Food Waste Problem and It's Getting Worse (2023): Article that provides an overview of food waste trends and key numbers.

#### **Creative Media**

Our Changing Climate, Food Waste Causes Climate Change, Here's How We Stop it. (2020): Video that provides key food waste statistics and possible avenues for change.





# and anding

#### Reports & Case **Studies**

Amber Werkman, Jenny van Doorn & Koert van Ittersum, Are You Being Served? Managing Waist and Waste via Serving Size, Unit Size, and Selfserving (2022): Study that explains the "serving-size effect" and finds that selfserving diminishes plate waste.

#### Ready-to-Use Resources

Love Food Hate Waste, Food Portion Calculator (n.d.): Calculator that helps measure the appropriate portion size of different types of foods.

McKinsey & Company, McKinsey for Kids: (Food) Waste not, Want not (2021):

Interactive resource that demonstrates the most wasted foods on children's plates.

Guardians of Grub, Rise up Against Food Waste (n.d.): Calculator that measures avoided costs and emissions from reduced plate waste.

#### **Articles**

Susan Shain, New York Times, How Central Ohio Got People to Eat their Leftovers (2023): Article that contextualizes households' role in creating food waste and documenting how one family reduced their plate waste.

Healthy Food Choices in Schools, Hot or Cold: How State of Mind Influences Food Selection (2019): Article that explains how impulsive "hot state" decisions lead individuals to select larger portions.

Green Schools National Network, K-12 Cafeterias are Spaces of Civic Engagement for Kids and Cooks (2019): Article that explains how by leading plate waste audits, students are able to design solutions to reduce plate waste.

#### **Creative Media**

USDA, Serve Smart to Reduce Food Waste (2022): Video that encourages consumers to reduce plate waste by serving smart portions.

Food Insight, Servings Sizes and Portion Sizes: Making Smaller Sizes the New Normal Again (2020): Video that explains the difference between serving size and portion size and their relationship to plate waste.





WRAP, Citizen Food
Waste Attitudes and
Behaviors Out of Home
(2023): Survey that
analyzes citizens' portionsizing behaviors when
dining out and explores
behaviors that could
reduce plate waste.

#### Toolkits & Similar Resources

I Value Food, <u>Eating Out</u>
<u>Without Waste</u> (n.d.):
Infographics that provide strategies for how to reduce plate waste when dining out.

Mississinewa Community Schools, <u>Parent FAQ</u> (<u>Offer vs. Serve</u>) (n.d.): Resource that guides parents on Offer Versus Serve USDA standards.

#### **Articles**

restaurant.

Food & Wine, Jillian
Kramer, What to Do if
You Can't Decide What
to Order at a Restaurant
(2019): Article that
describes strategies to
avoid plate waste when
selecting dishes at a

#### **Creative Media**

Clean and Green Singapore,

Tips to Reduce Food

Waste (ordering) (2018):

Video that offers tips on
how to avoid plate waste
when eating out.



#### Ready-to-Use Resources

I Value Food, <u>Food Waste</u> Quiz (n.d.): Quiz that measures the individual's plate waste and provides strategies for reduction.

NRDC Save the Food,

The Guest-imator (n.d.):
Calculator that estimates
portion-sizes for dinner
parties.

NRDC Save the Food, <u>Meal</u>
<u>Prep Mate</u> (n.d.): Meal
prep guide and calculator
that creates personalized
shopping lists and portions
meals to reduce plate
waste.

#### Toolkits & Similar Resources

I Value Food, <u>Portion Size</u>
<u>Guide</u> (n.d.): Guide that
offers solutions to portion
distortion and including a
portion size "cheat sheet."

British Nutrition
Foundation, 5532 a-day:
Perfect Portions for Little
Tums (2019): Booklet that
guides parents on serving
correct portion sizes to
children ages 1 to 4.

#### **Articles**

I Value Food, <u>Ten Ways to</u>
<u>Get Kids to Waste Less</u>
<u>Food</u> (n.d.): Guide that
provides families with
strategies to reduce food
waste with young children.

Steve Green, Homenish, Guide to Plate Sizes (with Drawings) (2022): Guide that helps readers select the appropriate plate size at home to avoid overportioning.

British Heart Foundation, 8 Top Tips for Portion Control (n.d.): Article that lists strategies for portion control.

#### **Creative Media**

Peter Lehner, TEDx
Manhattan, <u>A Recipe</u>
for Cutting Food Waste
(2013): Talk that explains
how increasing portion and
plate sizes contributed to
plate waste (10:20 to 11:30).

Free Kitchen Handbook (2015): Handbook that includes checklists, recipes, strategies, and infographics to reduce

Dana Gunders, Waste

plate waste.

Robin Donovan,

<u>5-Ingredient Cooking for</u>

<u>Two</u> (2020): Cookbook
that includes portioned
recipes for two.



# PLATE AND PORTION SIZE: WORKPLACES

Offering flexibility in plate and portion size is the number one solution to reducing greenhouse gas emissions associated with food waste, according to ReFED. Adjusting plate and portion sizes and implementing other food-saving measures can help reduce post-service food waste, also referred to as plate waste.

The table below compiles free resources for teaching workplaces about sustainable choices to reduce food waste through plate and portion size adjustments.



# KEY TAKEAWAYS FOR PLATE AND PORTION SIZE IN WORKPLACES

#### When teaching about plate and portion size, educators should help workplaces:

- Understand that food waste contributes to climate change through unnecessary use of energy and resources, as well as emissions generated during landfill decay.
- Recognize how status quo plate and portion size practices can lead to food waste.
- Understand why plate waste is a problem and how reducing it can lower costs as well as result in other benefits.
- Leverage plate and menu design to reduce plate waste.
- Learn about food waste audits as a mechanism for identifying and measuring which food items constitute the most plate waste and subsequently adjusting portion sizes and ingredients.
- Learn how to help educate customers and employees on the importance of reducing plate waste.
- Share food waste reduction successes internally and with customers.
- Understand the ability of workplaces to reduce food waste through sustainable choices and knowledge-sharing within their workforce, customer base, and business communities.

"It's a wonderful experience to distill complex scientific information into tangible actions for citizens to digest and utilize in their own way. If an attendee walks away from one of my trainings doing just one or two new sustainable activities that add value to their life, that's a huge win. Connecting people to resources in sustainability that are vetted and accurate is one of the best things we can do to empower them to make long-lasting changes."





NRDC, Wasted: How
America Is Losing Up to
40 Percent of Its Food
from Farm to Fork to
Landfill (2017): Seminal
report on food waste
that includes a thorough
description of the problem,
recent progress, and
emerging solutions.

#### **Creative Media**

Our Changing Climate,

Food Waste Causes
Climate Change. Here's
How We Stop it. (2020):
Video that provides key
food waste statistics
and possible avenues for

change.

#### Ready-to-Use Resources

ReFED, Resources & Guides (n.d.): Compilation of online food waste tools that includes a food waste monitor, solutions database, impact calculator, and policy finder.

### Toolkits & Similar Resources

U.S. EPA, Too Good to
Waste Implementation
Guide and Toolkit (n.d.):
Comprehensive toolkit
that provides strategies
and resources for
consumers and educators
to engage in food waste
reduction activities.

#### **Articles**

Rubicon, Food Waste in America: Facts and Statistics (2023): Primer on food waste in America that includes statistics and recommendations.

Bloomberg, The US Has a
Food Waste Problem and
It's Getting Worse (2023):
Article that provides an
overview of food waste
trends and key numbers.



Amber Werkman, Jenny van
Doorn & Koert van Ittersum, <u>Are</u>
<u>You Being Served? Managing</u>
<u>Waist and Waste via Serving</u>
<u>Size, Unit Size, and Self-serving</u>
(2022): Study that explains the
"serving-size effect" and finds
that self-serving diminishes plate

#### Ready-to-Use Resources

The Chancery Lane Project,
Reducing Supply Chain Food
Waste (2022): Model contractual
clause that can be used by
businesses to reduce food waste
in their supply chains, in order to
reduce greenhouse gas emissions
and realize financial benefits.

#### Toolkits & Similar Resources

National Restaurant Association, 86 Food Waste: Customer
Messaging (2021): Guide
that lists best practices for
restaurants when communicating
food waste reduction efforts to
customers.

#### **Articles**

waste.

Linda Himelstein, New York
Times, Hotel Buffets, a Culprit
of Food Waste, Get Downsized
(2017): Article that contextualizes
the buffet's role in plate waste and
identifies relevant solutions.

#### **Creative Media**

National Restaurant Association, 86 Food Waste: Reduce Food Waste in your Restaurant Kitchen (2019): Video that explains restaurants' role in reducing food waste and offers best practices for portion sizes and communication (4:00 to 4:47).



Champions 12.3, The Business Case for Reducing Food Loss and Waste (2017): Report that finds that businesses can save money by training staff and implementing other food-saving measures.

David Blum, International Journal of Applied Management and Technology, Ways to Reduce Restaurant Industry Food Waste Costs (2020): Literature review that explores how smaller portion and plate sizes in restaurants can reduce plate waste and food costs (pages 3, 6, 8).

#### Ready-to-Use Resources

Guardians of Grub, Rise up Against Food Waste (n.d.): Calculator that measures avoided costs and emissions from reduced plate waste.

#### Toolkits & Similar Resources

WRAP & Guardians of Grub, Protecting Profits from Plate Waste (2023): Toolkit that includes actions to increase profit by reducing plate waste.

#### **Creative Media**

The City of Portland, Reduce Plate Waste

(2023): Video that provides tips for restaurants to reduce plate waste and food costs, by tracking plate waste and adjusting portion sizes.

The City of Portland, Reduce Food Waste in the Kitchen (2023): Video that shares chefs' tips on adjusting portion sizes to manage profit margins and reduce plate waste (Chapter 3, 6:41).





WRAP, <u>Citizen Food Waste</u>
<u>Attitudes and Behaviors Out</u>
<u>of Home</u> (2023): Report that
includes recommendations for
businesses to reduce plate waste.

Steffen Kallbekken & Håkon
Sælen, Nudging Hotel Guests to
Reduce Food Waste as a WinWin Environmental Measure
(2013): Study that finds that hotel
restaurants reduced plate waste
by decreasing plate size and
providing social cues.

Emil Juvan, Bettina Grün & Sara Dolnicar, <u>Biting Off More Than</u> <u>They Can Chew: Food Waste at</u> <u>Hotel Breakfast Buffets</u> (2018): Study that offers strategies to reduce buffet plate waste.

#### Ready-to-Use Resources

U.S. EPA, <u>Food Loss Prevention</u>
<u>Options for Restaurants</u> (2016):
Guide that includes serving tips
and a checklist for restaurants to
prevent plate waste.

#### **Articles**

Steve Green, Homenish, <u>Guide</u>
<u>to Plate Sizes (with Drawings)</u>
(2022): Guide that helps readers
select the appropriate plate size to
avoid over-portioning.

#### Toolkits & Similar Resources

LeanPath, <u>20 Waste-Cutting</u>
<u>Tips Every Foodservice Chef</u>
<u>Should Know</u> (2004): Guide that covers plate design and portioning strategies to reduce plate waste.

LeanPath, <u>Preventing Food</u>
<u>Waste at the Buffet: A Guide</u>
<u>for Chefs and Managers</u> (2019):
Guide that covers best practices
for reducing plate waste through
managing portion size.

National Restaurant Association, <u>Managing Food Waste in</u> <u>Restaurants</u> (2021): Guide that helps restaurants design menus to reduce waste (page 11).

ReFED, Restaurant Food Waste Action Guide (2018): Guide that describes best practices for menu design (pages 9-11).



# SUMMARY: ELI'S FOOD WASTE PREVENTION RESOURCE GUIDE SERIES

- ➤ Food Waste Prevention Resource Guides on 5 Topics
- ➤ Each Guide has sections for 3 Different Audiences Types
- ➤ Each section begins with a topic primer and key takeaways
- ➤ Each guide includes 50+ resources on food waste prevention strategies grouped by content type and focus area













# Tackling Food Waste: ELI's New Food Waste Prevention Resource Guide Series

Thursday, March 14, 2024



Linda Breggin Senior Attorney; Director of the Center for State, Tribal, and Local Environmental Programs

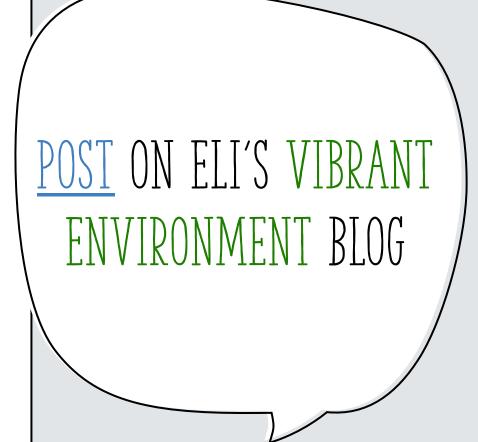


Sarah Backer Research Associate



Taalin RaoShah Research Associate

ELI recently created the **Food Waste Prevention Resource Guide Series** for **Urban Green Lab**, a Nashville-based sustainability NGO, in order to build the capacity of classrooms, households, and workplaces to prevent food waste.



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## **THANK YOU**

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