



Concurrent PM

Food Waste Reduction and Surplus Food Recovery

Speakers:

Jenna Deane Zach Shaben Jenn Harrman Moderator: Nora Goldstein

Simone Chhut



1:00 pm Pacific Time October 3, 2024 Track C



Nora Goldstein Editor BioCycle (Moderator)

Food Waste Reduction and Surplus Food Recovery



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Jenna Deane Program Director Sustainable Connections

Food Waste Reduction and Surplus Food Recovery





IMPLEMENTATION TIPS AND LESSONS LEARNED

NATIONAL ZERO WASTE CONFERENCE OCTOBER 3, 2024







FOOD RECOVERY

We aim to reduce food insecurity and address climate change by redistributing nutritious surplus food to neighbors experiencing hunger.



WHY FREEDGES?

INCREASE ACCESS TO RESCUED FOOD

INCREASE COLD STORAGE FOR SURPLUS FOOD



THE RESTORE FREEDGE











This work is funded through a Public Participation Grant from the Washington State Department of Ecology.

2023 IMPACTS





EQUIVALENT TO



34.63 METRIC TONS

CO2 avoided



2.2 MILLON
Gallons of water saved.

THE FREEDGE © THE UPPER SKAGIT LIBRARY











This work is funded through a Public Participation Grant from the Washington State Department of Ecology.

COMING CO









This work is funded through a Public Participation Grant from the Washington State Department of Ecology.

HAVE YOU HEARD OF A FREEDGE?



COMMERCIAL UNIT

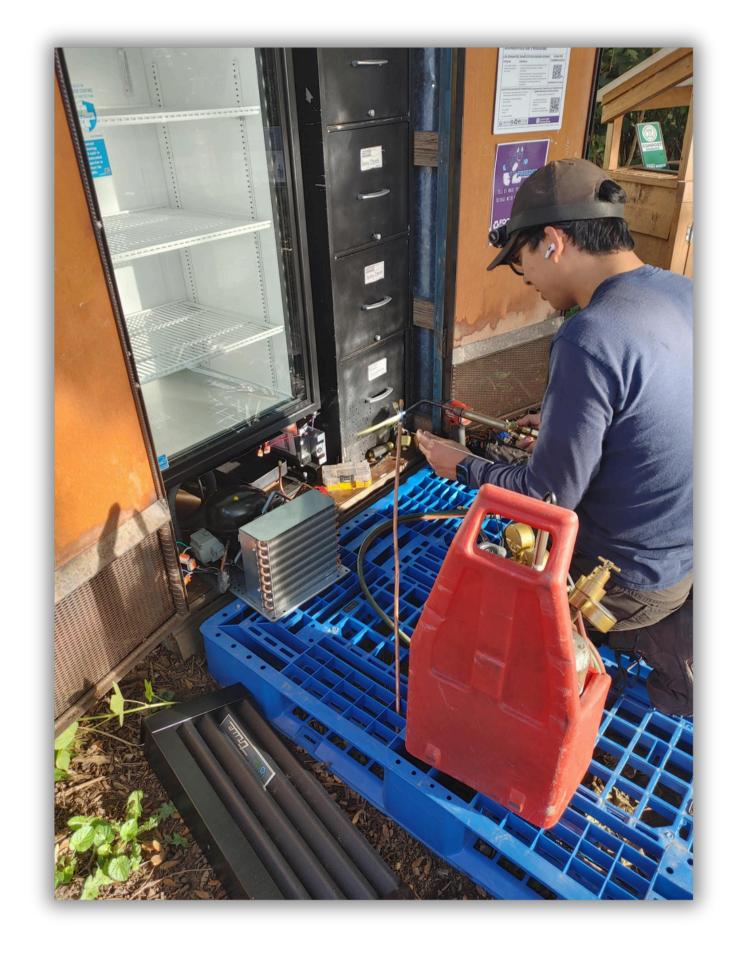


COMMERCIAL DONORS*



SUPERVISION WHEN OPEN





HAVE YOU HEARD OF A FREEDGE?

STOP WASTING.



- **EARN TAX DEDUCTIONS**
- CONTRIBUTE TO YOUR COMMUNITY
- SAVE MONEY ON YOUR WASTE BILL
- **☑** GET PROMOTED FOR BEING AWESOME



START DONATING.





FOOD RECOVERY PROGRAM VOLUNTEER OF THE MONTH!



SHENANDOAH MYRICK

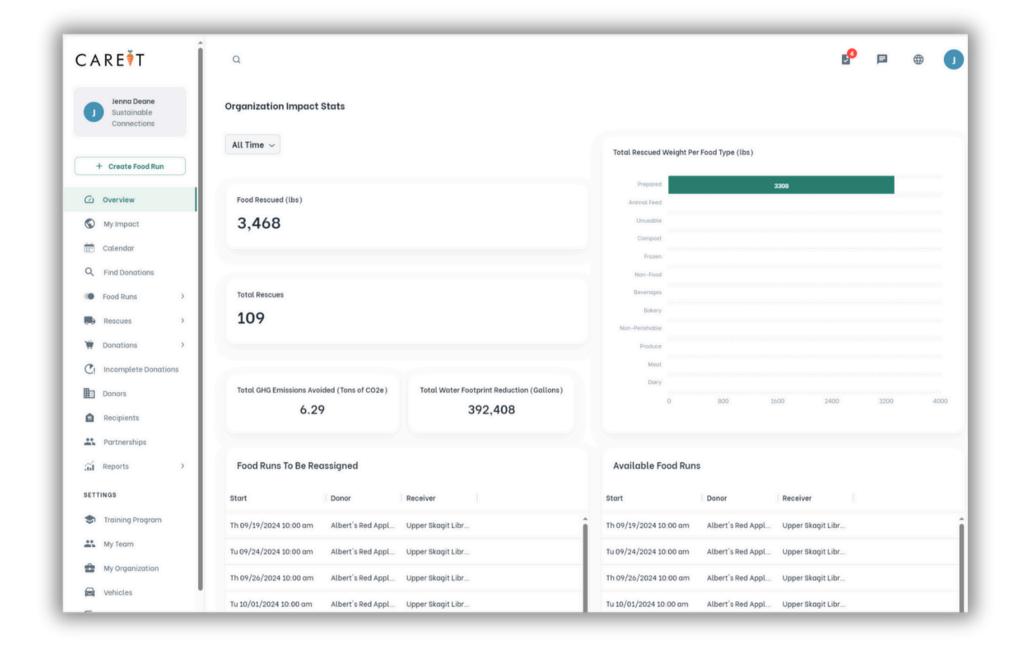
> DATE JOINED: JAN, 2018



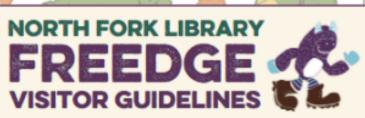


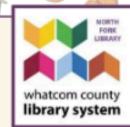












- · All welcome! This food is for everyone in our community.
- · Please do not visit the Freedge if you are sick.
- Please take only what you will eat!
- Please look with your eyes and read labels first. Do not touch what you don't plan to take.
- It takes a community! Feel free to clean out any spoiled items and put them in the appropriate waste bin.
- Wipe up any spills or messes you create.

OPEN / ABIERTO

Ma 10:00 AM-8:00 PM 10:00 AM-6:00 PM 10:00 AM-8:00 PM 10:00 AM-6:00 PM 10:00 AM-5:00 PM

CLOSED

Sunday Monday

CERRADO

Domingo

PAUTAS PARA VISITANTES DEL FREEDGE DE LA BIBLIOTECA BIFURCACIÓ NORTE

- ¡Todos bienvenidos! Esta comida es para todos en nuestra comunidad.
- · Por favor, no visite el Freedge si está enfermo.
- · ¡Por favor, tome solo lo que va a comer!
- Por favor, mire con los ojos y lea primero las etiquetas. No toque lo que no planea tomar.
- Necesitamos trabajar juntos. Le invitamos sacar cualgier cosa que puede estar echado a perder y ponerlo en la basura.
- Si se te callo algo o ensucias algo, por favor límpialo. ¡Gracias por mantener el lugar limpio!











This material is fused through a Public Participation Graid from the Washington State Department of Ecology.

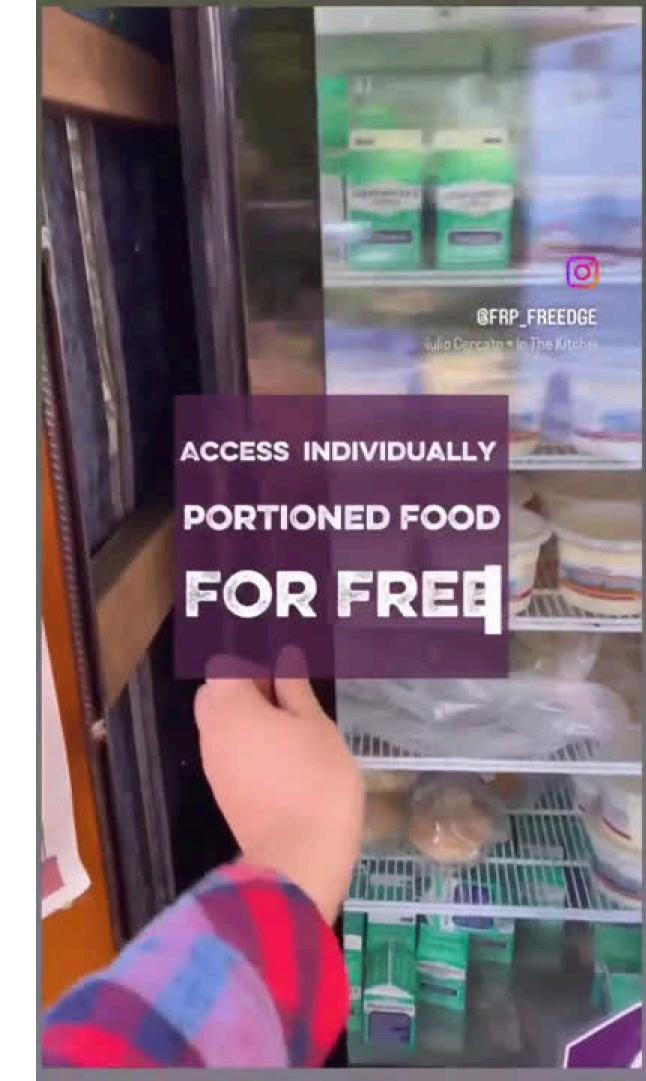


HAVE YOU HEARD OF A FREEDGE?



@frp_freedge

The Freedge from
Sustainable Connections















1:00 pm Pacific Time October 3, 2024 Track C



Zach ShabenPublic Affairs Manager - US & Canada Too Good To Go

Food Waste Reduction and Surplus Food Recovery





How We Fight Food Waste



OUR VISION

WEDREAM OF A PLANET WITH mo food waste







OUR MISSION

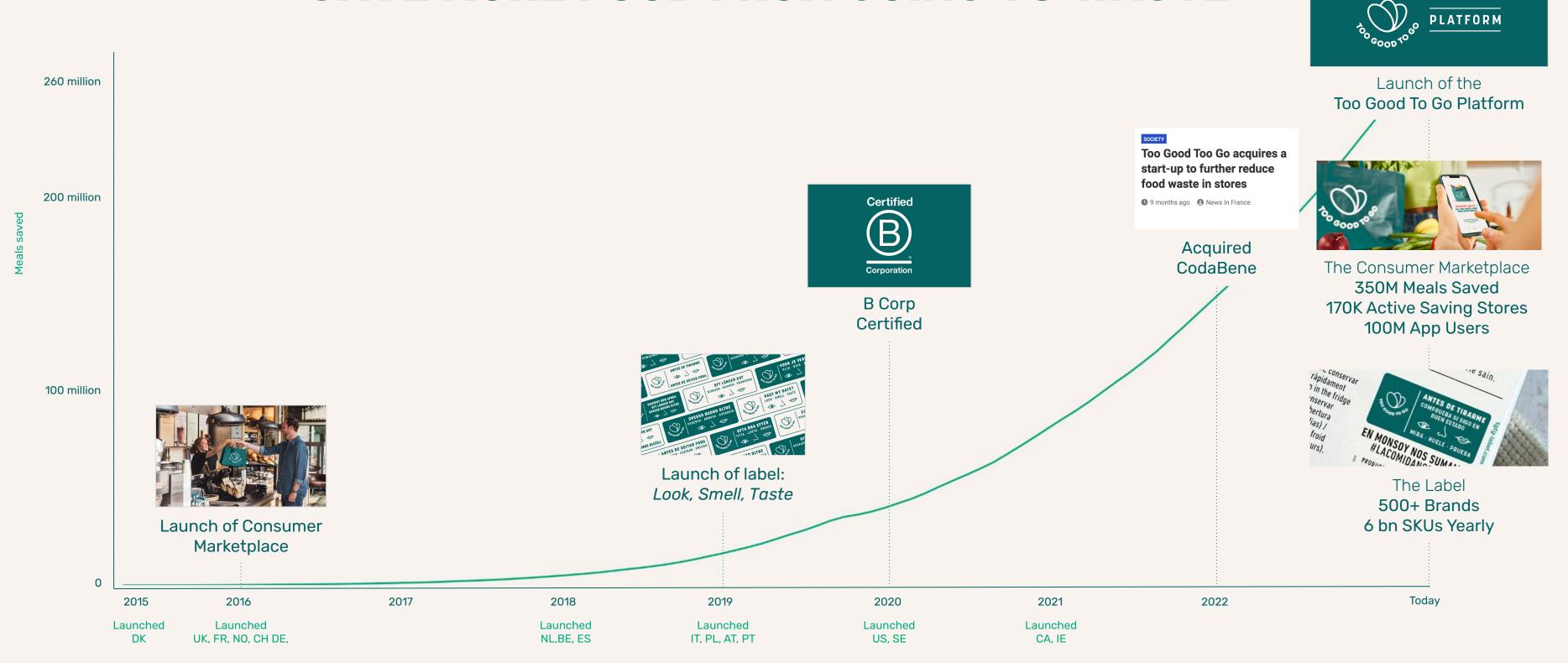
INSPIRE AND EMPOWER CYCLOGE TO FIGHT FOOD WASTE together







WE SCALED TO HELP PARTNERS SAVE MORE FOOD FROM GOING TO WASTE





THE WORLD'S LARGEST B2C MARKETPLACE FOR SURPLUS FOOD

Saving food from going to waste in 19 markets

SOME OF OUR PARTNERS





















OUR GLOBAL
IMPACT OVERALL

MEALS SAVED

+300 M

REGISTERED USERS

+90 M

ACTIVE SAVING STORES

+155,000

US IMPACT

MEALS SAVED

+15 M

REGISTERED USERS

+7.3 M

SAVING STORES

+22,000

Saving 4 meals every second

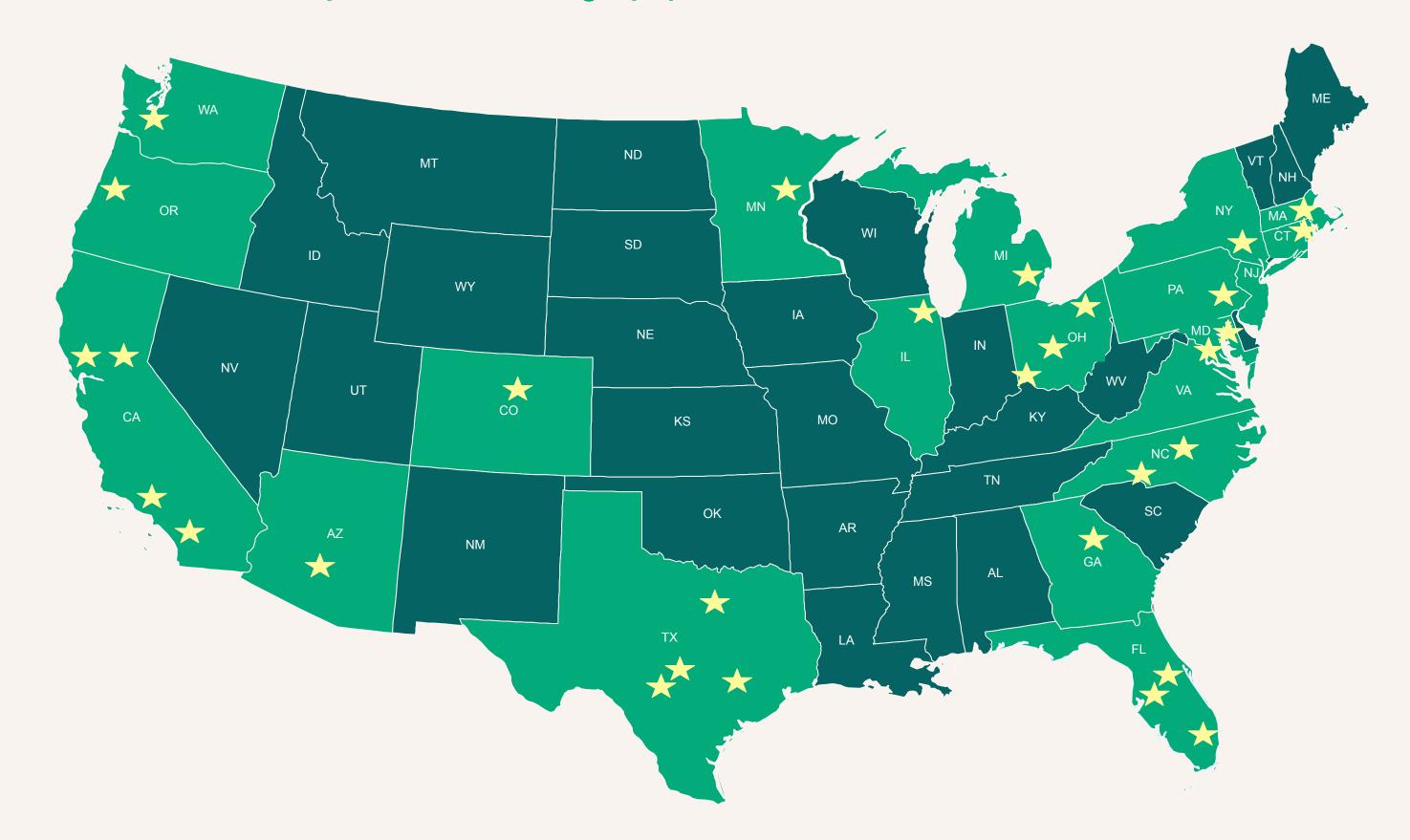


US FOOTPRINT

Launched City

Launched State

TGTG is active across 30 major cities, covering a population of 155M+





WE WORK WITH THE WORLD'S LEADING FOOD DISTRIBUTORS ACROSS 4 VERTICALS



>87K STORES

Food Retail (Grocery, Gas Stations, Rapid Delivery)



>109K OUTLETS

Food Service (Quick Service Restaurants, Bakeries, Coffeehouses, á la Carte, Buffet)



>8K LOCATIONS

Catering (Hotels, Canteens, Events)



>3K BUSINESSES

Wholesale and Manufacturing





























LET US SHOW YOU THE SURPRISE BAG

Too Good To Go users purchase Surprise Bags filled with a mix of surplus food items.

We know that food waste varies on a day-to-day basis, so this is our way of making sure retailers have the flexibility to sell genuine surplus - whatever that ends up being.

Surprise Bags are sold at a reduced price of the contents' original retail value, determined by the bag's sales performance.

On average, these bags are typically priced at approximately 25 to 50% of the original retail value.



THE SURPRISE BAG IN ACTION













Thousands of users rescue Surprise Bags through our marketplace app every day.

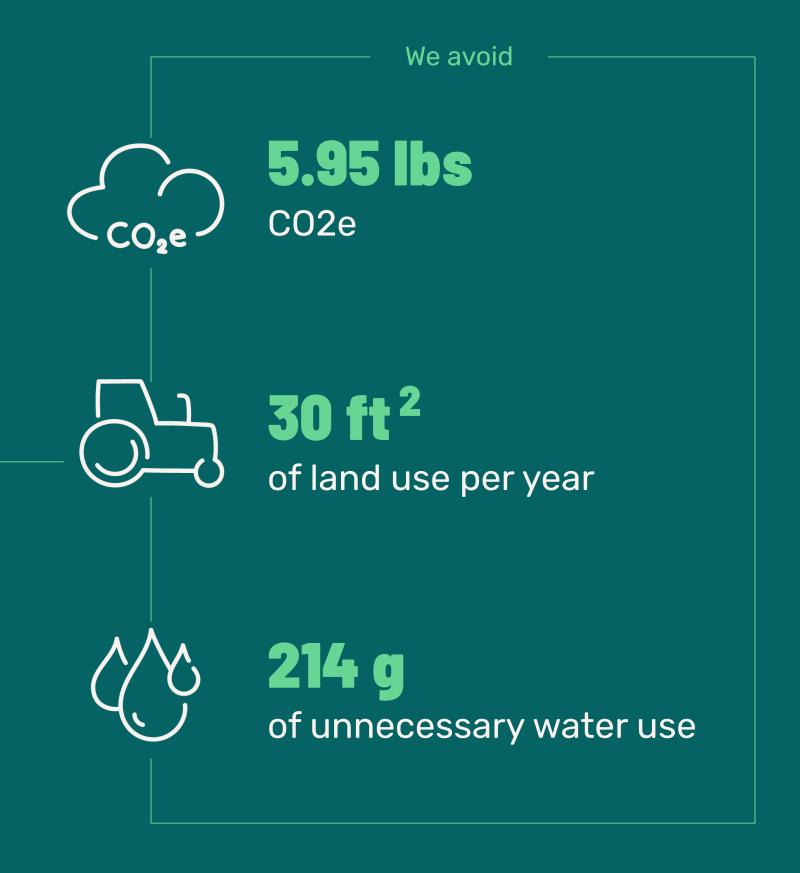
Many share their experiences on social media, helping to spread awareness of brands who are making a positive impact.





BY SAVING ONE SURPRISE BAG

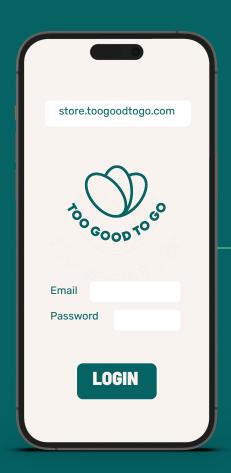
At an average weight of 2.2 lbs of food





How Too Good To Go works

THE STORE JOURNEY



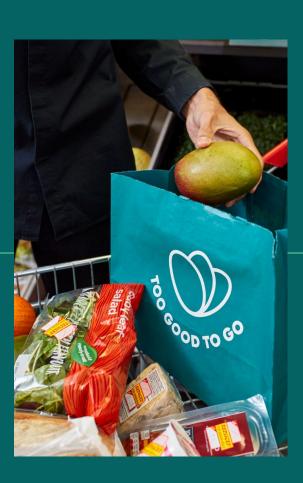
1. LOGIN TO MYSTORE

We set each store up with their own online account. It's easy for partners to access from mobile, tablet or desktop.



2. SET SUPPLY

Typical supply is put up for sale as default. The store can adjust it up or down according to the daily leftovers.



3. PREPARE THE BAGS

At the end of the day, the store reviews the surplus food and packs the Surprise Bag.



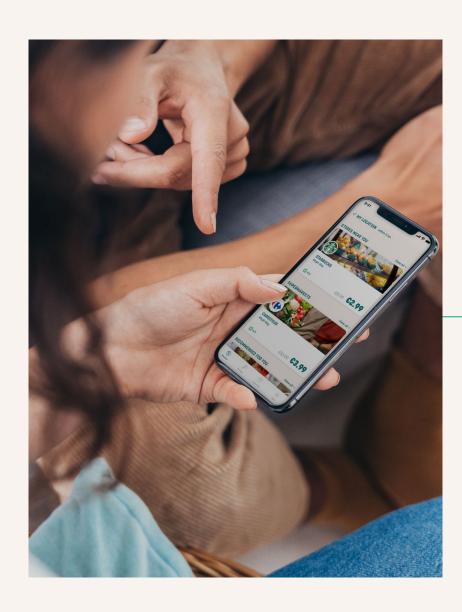
4. GET READY FOR PICKUP

At the store, the user shows the receipt on the app and receives a Surprise Bag of surplus food.

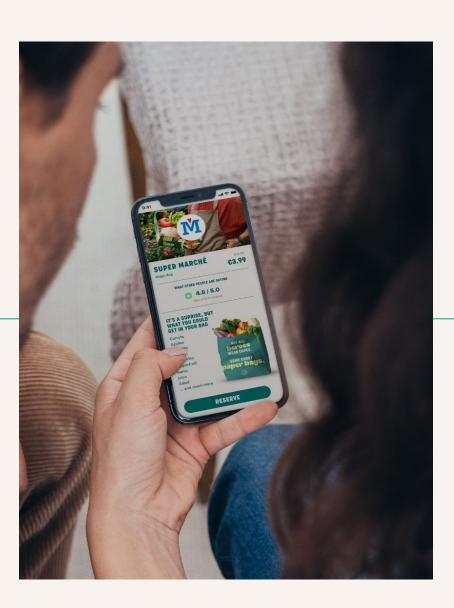
The partner receives payment automatically at the end of each payment cycle.



WE'VE MADE IT EASY FOR USERS TO BUY A SURPRISE BAG



They search our Consumer
Marketplace app for stores nearby
that have surplus food available



Users select a store, reserve a Surprise Bag, and pre-pay within the app



Customer arrives within the pick-up window the store sets, shows their in-app receipt and receives their Surprise Bag



How Policy Makes a difference



MORE THAN

OF ALL FOOD IS BEING WASTED

We can work together to change this



Environmental

Food waste accounts for 10% of all human-caused greenhouse gas emissions worldwide



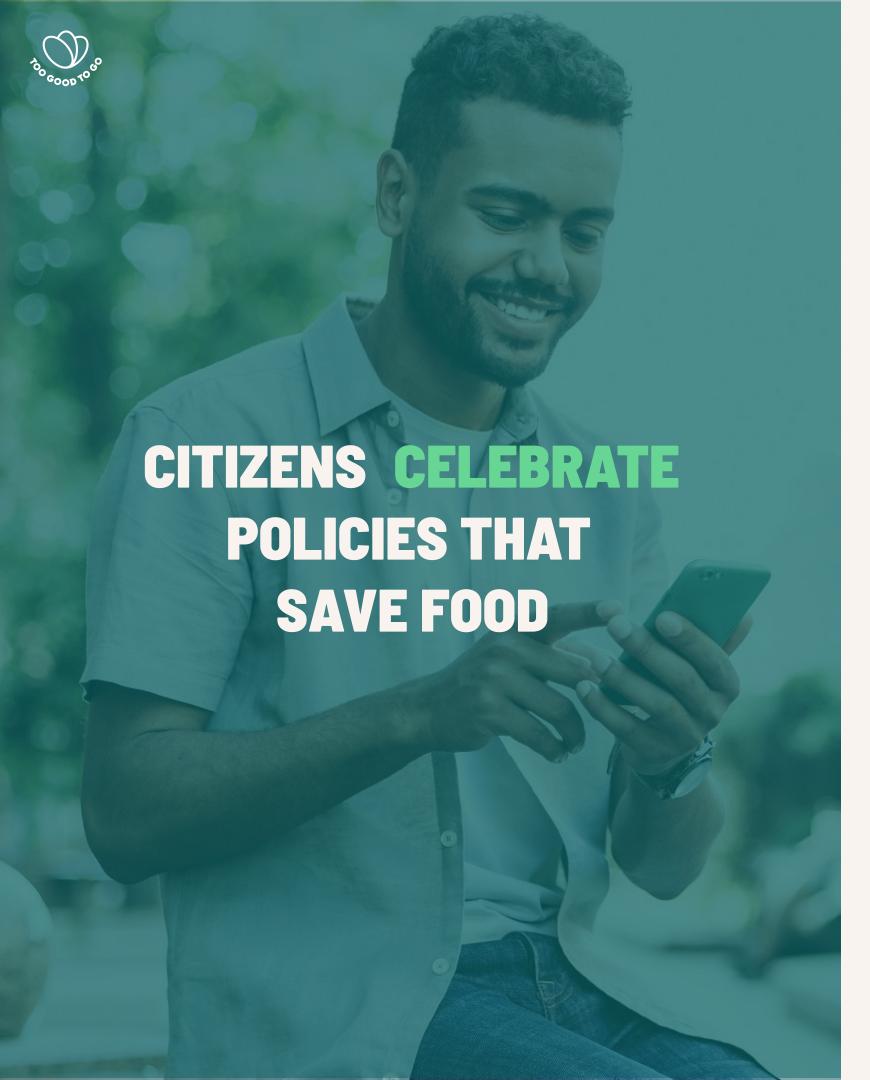
Social

828 million people are affected by hunger every day



Economic

Globally, the cost of food waste is about \$1.1 trillion dollars each year



PUBLIC RELEVANCE

86% of US adults find it important to food waste at the household level

INCREASED SENTIMENT

71% of US adults feel guilty when throwing food away

MOTIVATION FOR GOOD

53% of US adults **believe they can take action** when trying to minimize food waste



State Policy Leads the Way



10 states have organic waste bans

Vermont has seen a 15% reduction in residential food waste since 2020



State budgets can scale solutions

Municipal governments depend on favorable policies at the state level



Reduce your waste

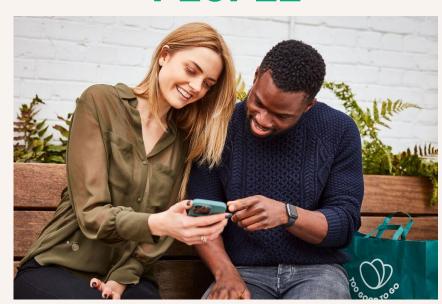
Organic waste bans encourage food waste reduction efforts, like increased food donations





STANDARD DATE LABELS IS GOOD FOR EVERYONE

PEOPLE



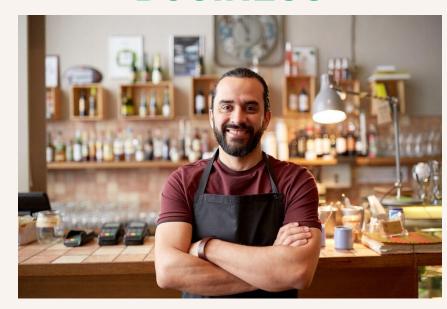
The average American spent \$759 on food that went uneaten. This cost US consumers a total of \$252 billion

PLANET



32.7 million tons of surplus food were sent to landfill in 2019, translating to nearly 23 million tons of CO2e produced from landfill

BUSINESS



In retail, date label concerns account for more than 50% of food waste

Standardizing date labels—and educating the public on their meaning—could **prevent 772,000 tons of food waste each year**. This reduction would decrease CO2e emissions by 4.84 million metric tons and save approximately 266 billion gallons of water.

Additionally, it would generate a net financial benefit of \$3.87 billion for consumers, retailers, manufacturers, and the foodservice industry.



DO YOU HAVE ANYIESTIONS?

Ask away and we shall do our best to answer!



thank you

Zach Shaben

Global Public Affairs Manager - US

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1:00 pm Pacific Time October 3, 2024 Track C



Jenn Harrman Zero Waste Program Manager Metro Nashville Waste Services

Food Waste Reduction and Surplus Food Recovery





1:00 pm Pacific Time October 3, 2024 Track C



Simone Chhut Zero Waste Specialist Nashville Waste Services

Food Waste Reduction and Surplus Food Recovery



Nashville Waste Services

Making the Case for Food Waste:

Nashville's Food Scraps Pickup Pilot



Jenn Harrman, Zero Waste Program Manager Simone Chhut, Zero Waste Specialist



About Metro Nashville Waste Services

LAAAAA NASHVILLE WASTE SERVICES







Nashville Waste Services Collection



Population 715,844

Urban Services

143K curbside trash

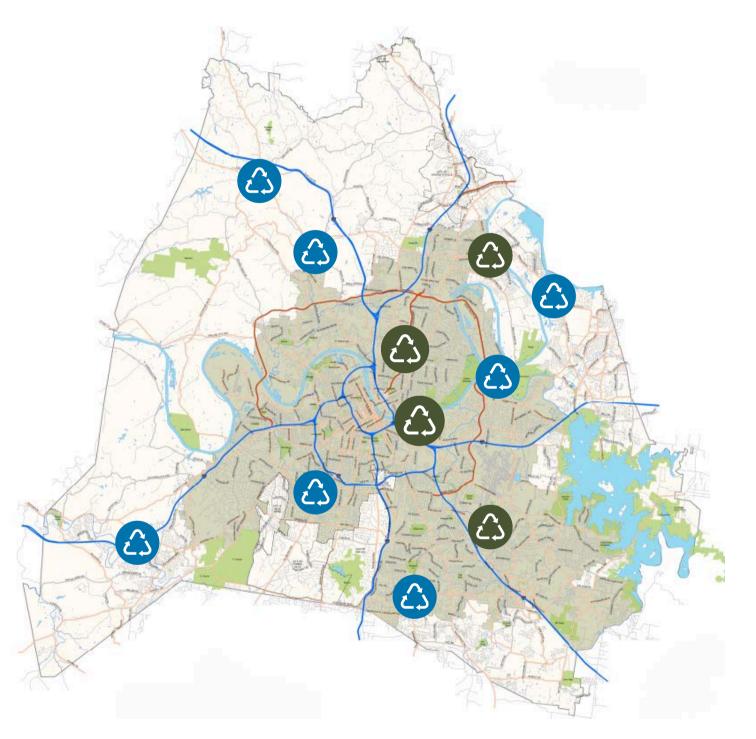
111K curbside recycling

County-wide Services

4 Convenience Centers (includes drop-off food scraps collection)

7 Drop-Off Recycling Sites

Quarterly brush collection (NDOT)

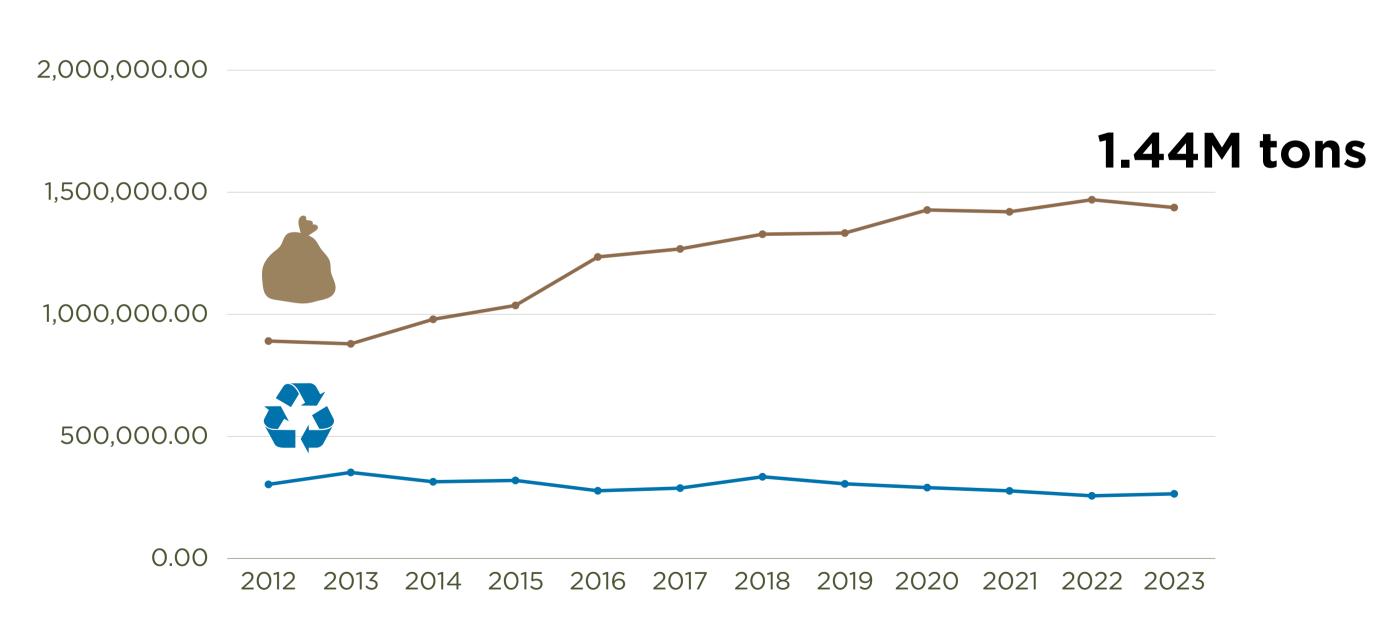




Nashville Needs Sustainable Waste Solutions



Davidson County Waste Generation and Disposal

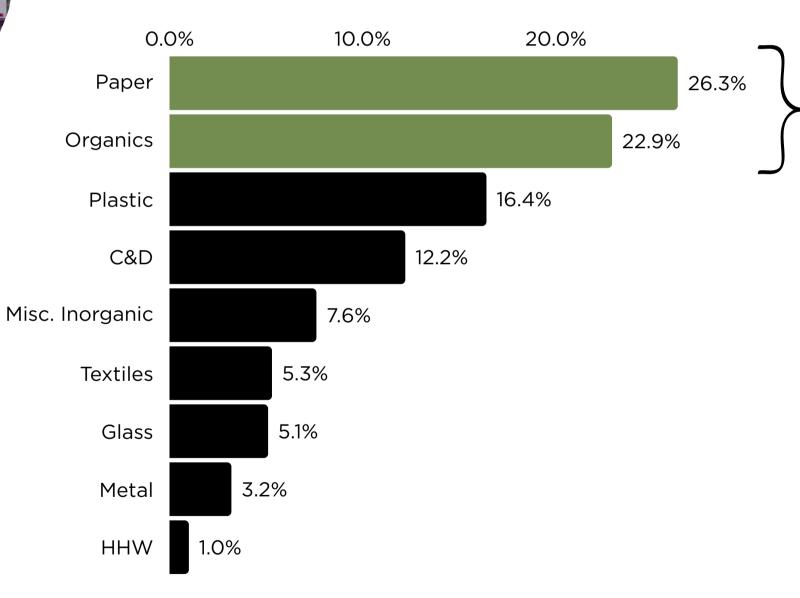




Nashville Aims to Go Zero Waste



2017 Composition of Landfilled MSW





50%
of landfilled MSW
could be composted



1/3
of what residents
throw away is organic

Implementing
Nashville's Food
Scraps Pickup Pilot







Piloting Collection Will Inform Future Possibilities





What: Weekly curbside collection of food scraps for one full year for 750 households



Who: Single-family* households in Nashville's Urban Services District who currently receive Metro collection and do not already pay for compost collection



Why: Gather data that will inform needs to scale program for future collection

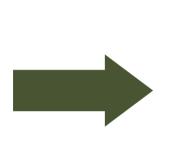
^{*}This includes households that live in a duplex, triplex, or townhome, but not in a multifamily building with five or more units.



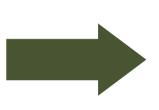
How Does It Work?













COLLECT

Collect food scraps and compostable products in your countertop container throughout the week.

TAKE IT TO THE CURB

Place compostables in the lined Compost Nashville curbside bin on your pick up day and leave at the curb.

WEEKLY PICK UP

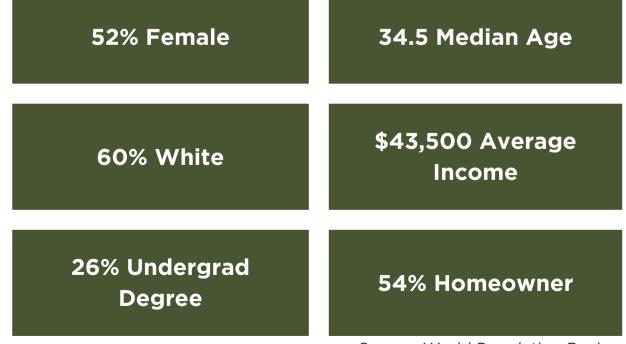
Compost Nashville picks up your compostables and leaves a clean and empty bin each week.

ICATION FOR INFORMATION ame City EN dress Phone

Goals for Selection







Source: World Population Review

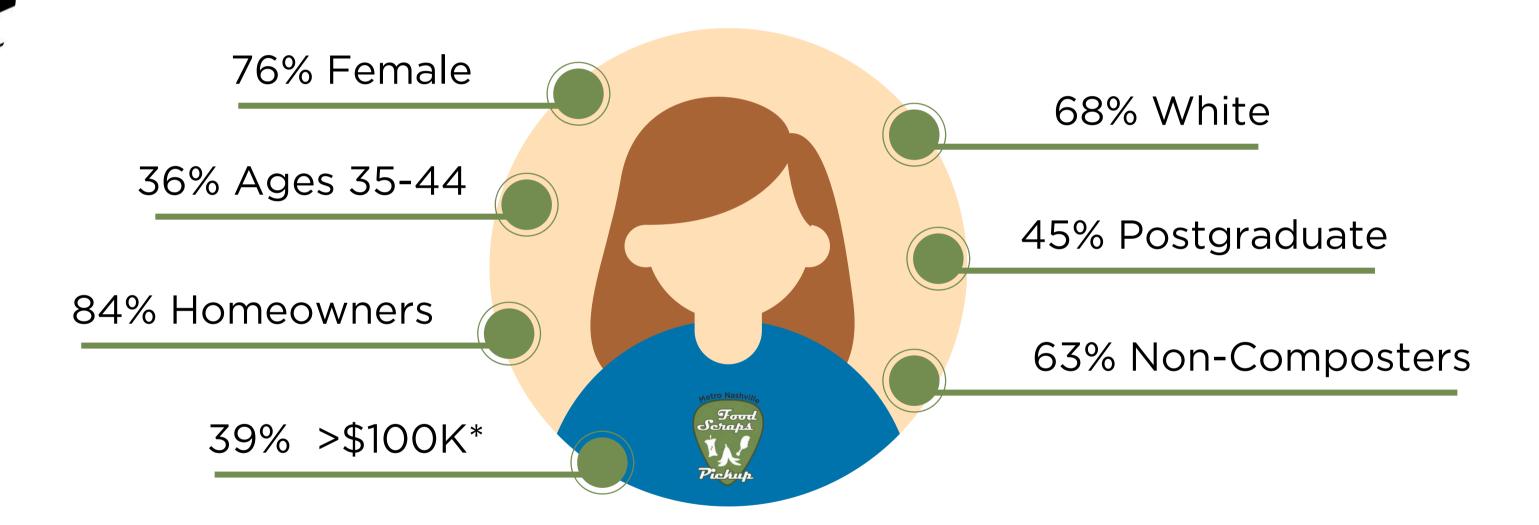


78% Female	38% 35-44 Years Old
84% White	52% >\$100k Household Income
48% Postgrad Degree	84% Homeowner

LICATION FOR IL INFORMATION First Name ame City EN dress Phone

Participant Summary putting the graphs together



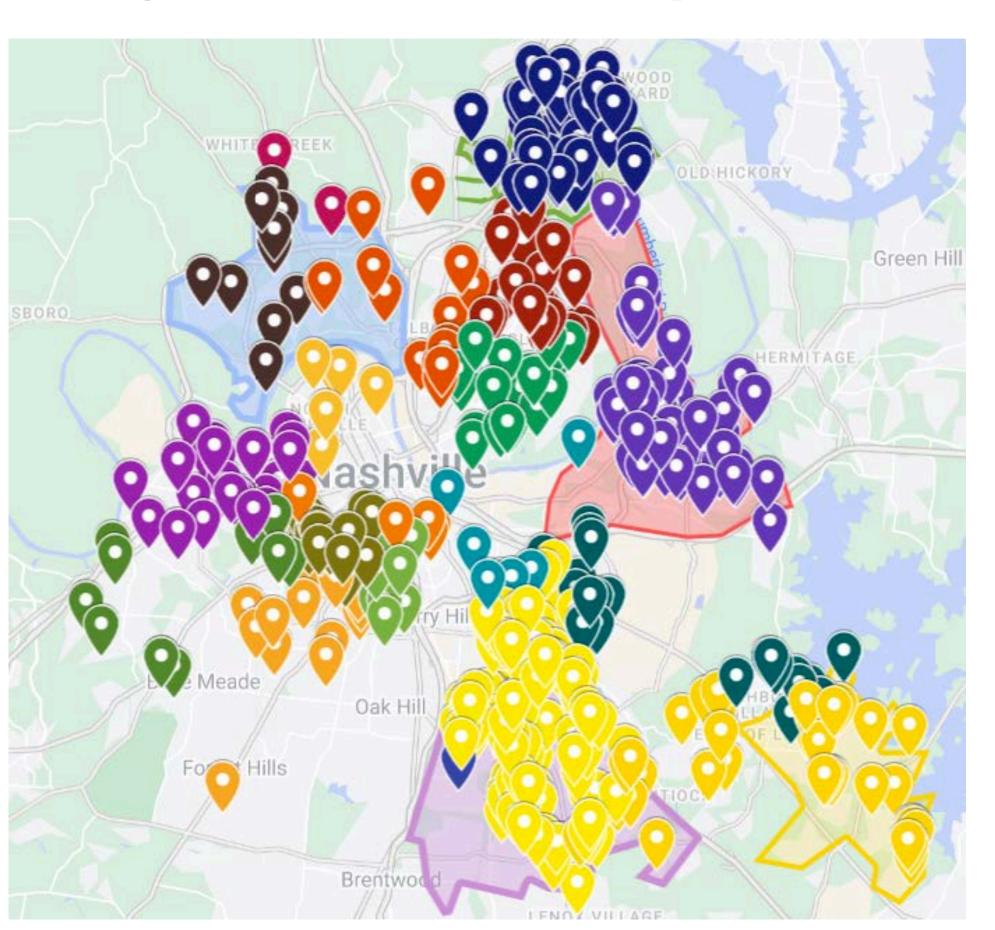


^{*}household income

LICATION FOR IL INFORMATION First Name ame City dress phone

Project Area - Participant Locations





Priority communities

- Donelson
- Bordeaux
- Antioch
- Crieve Hall
- Madison

LICATION FOR LINFORMATION City Phone

Reasons People Applied



I feed 8 feral cats and currently go through 16 paper plates a day with them. I love the idea of being able to compost them!!

I drink a LOT of coffee and eat a LOT of hard-boiled eggs, so I REALLY HATE for that good stuff to go to waste!

We have so many squirrels that litter the entire neighborhood since we are so close to Kroger.

I know food scraps cause big issues in landfills. They also make my trash can stinky.

Germans have been doing this for decades. Why not us?

Because having a metro composting service would make me very very happy.



Launching the program

October 23, 2023









Collecting Data





Contractor Collected Data

- Pounds per participant per week
- Bins contaminated
- Set out rate



Surveys and Focus Groups

- Difficulty of program
- Understanding of program
- Bin capacity needs
- Trash set out rate
- Trash fullness rate
- Value of program
- Customer service satisfaction

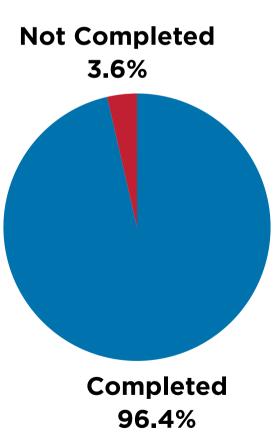


Survey and Focus Group Participation

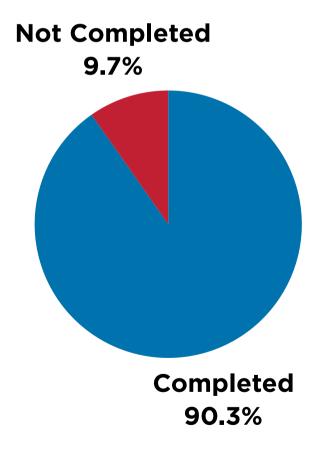


Focus Groups

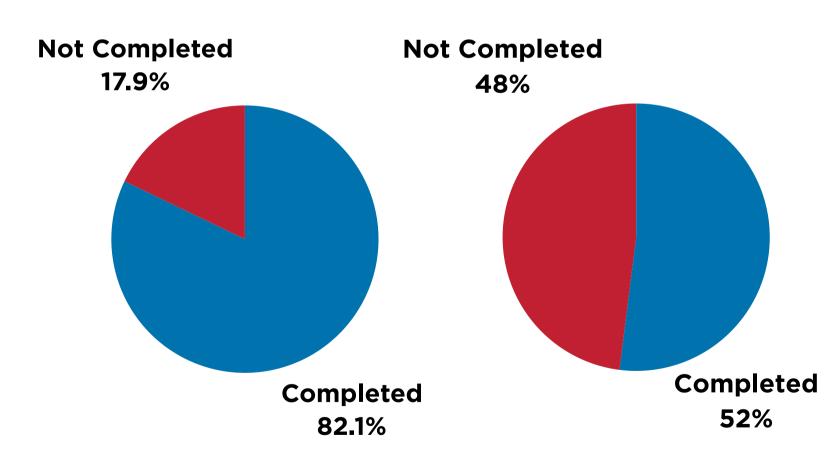




Survey 2



Survey 3





Quantitative Data



102 Tons 86%

007

0.34%

0.12%

Collected in 47 weeks

Average set out rate

1st Qtr. average contamination rate

4th Qtr. average contamination rate

6.8 Lbs.

132 Tons

17K Tons

Per household -> Estimated per week collection

Estimated — collection in 1 year

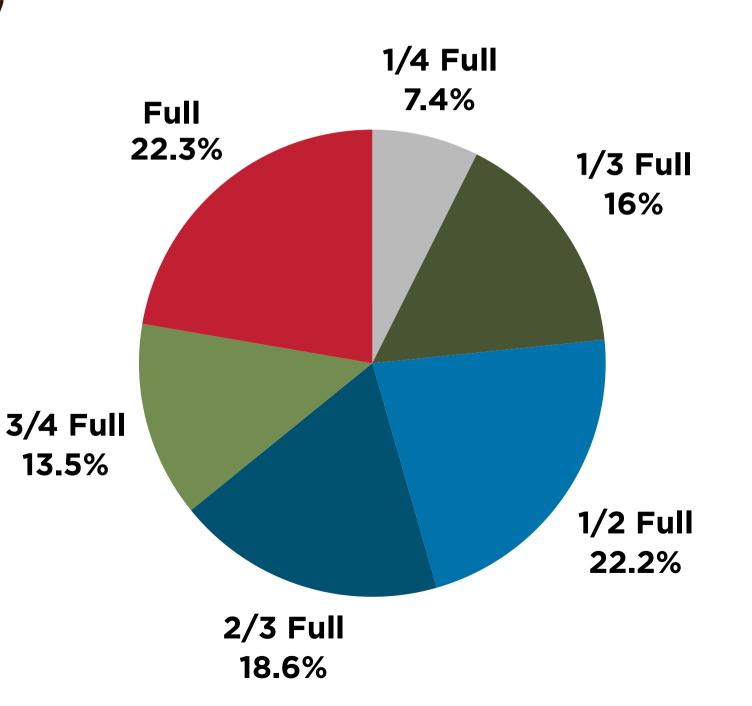
Estimated potential collection for service area-wide program in 1 year



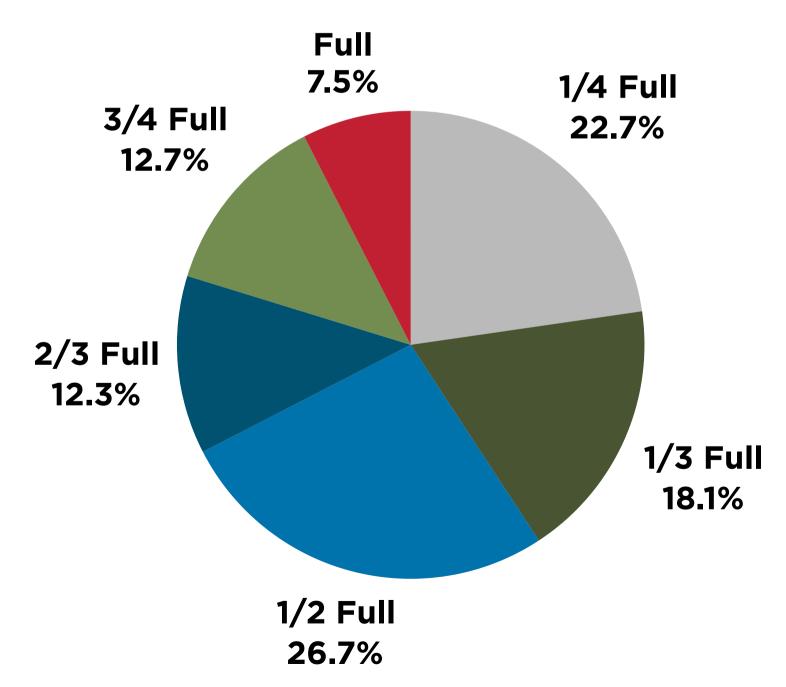








<u>During Pilot</u>



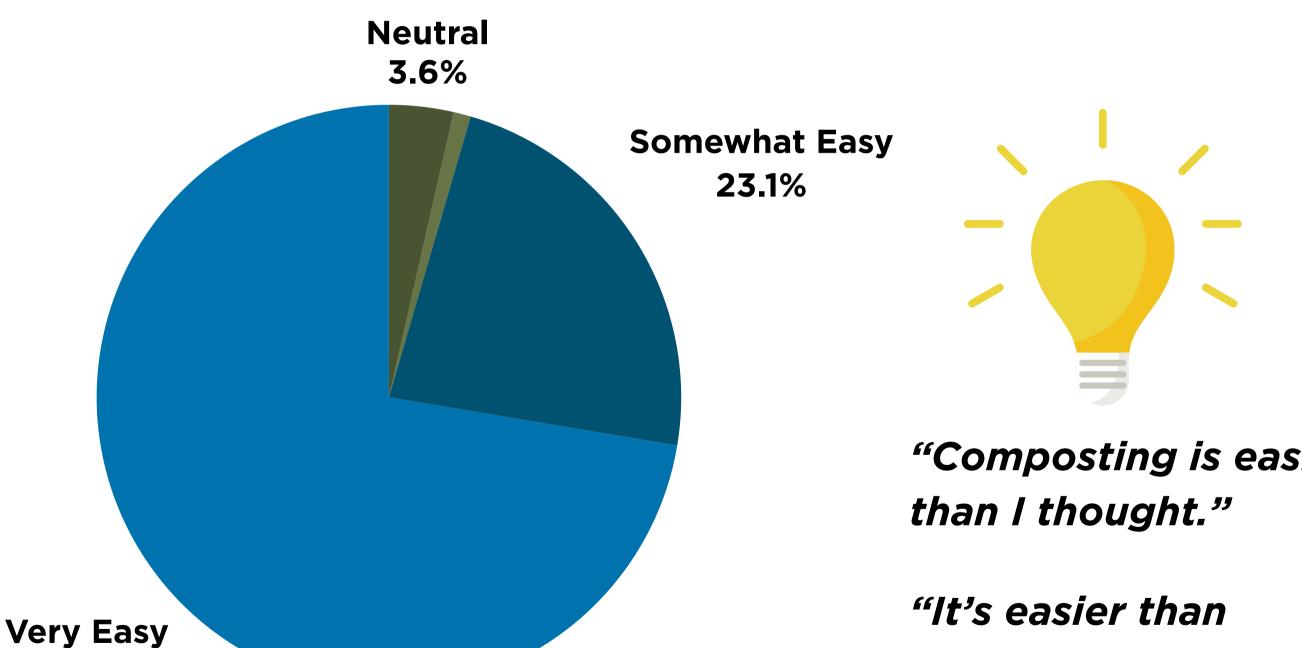




72.4%

Rate the Level of Difficulty in **Understanding What to Compost**





"Composting is easier

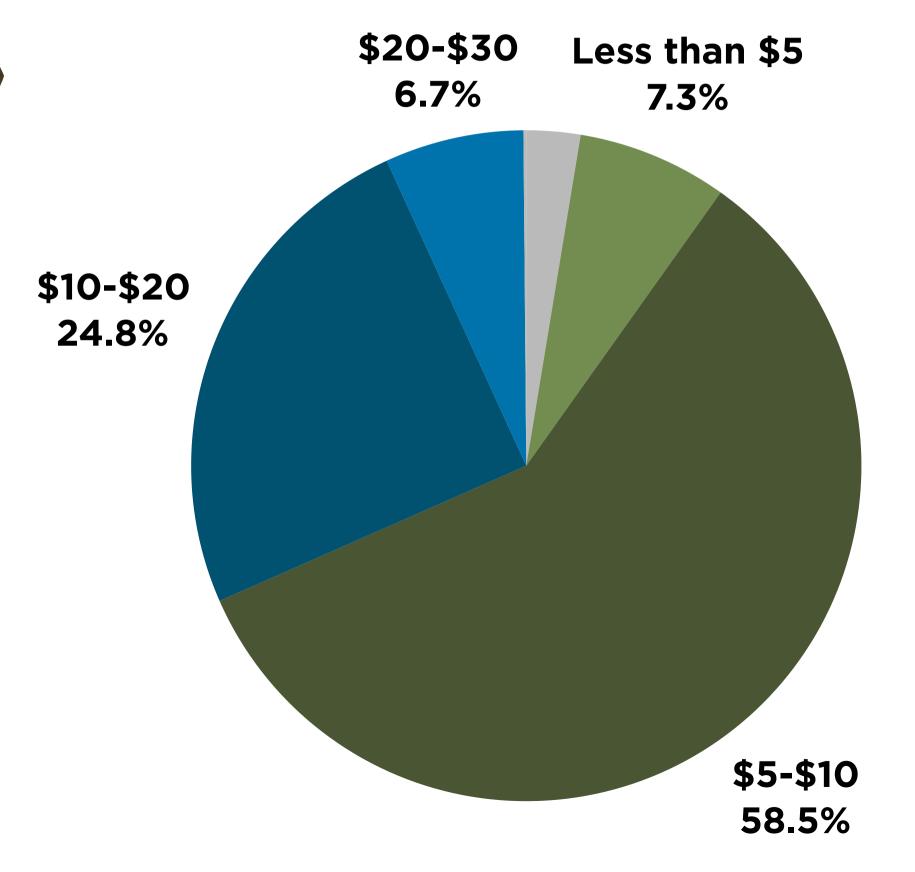
backyard composting."





How Much Would You Pay to Opt In?







The average cost participants would pay per month is \$10.50



Testimonials



"The curbside bin and collection bucket don't work together well. What I mean is, the shape of each is so different that transferring material into the curbside bin from the bucket is challenging and things easily spill."

"My husband cares a lot less about the environment than I do, but he's participating without complaining and thinks it's a neat program"

"Never composted before or paid attention to how much food we throw away. Now I'm much more aware and have been better about using leftovers and not wasting food."





Analyze Large Scale Feasibility



- Develop cost study for large scale service
- Analyze quantitative and qualitative data gathered to create a case study for a curbside organics program
- Identify potential scenarios for expansion
- Present recommendations to leadership



Keep in touch!

Jenn Harrman

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Simone Chhut

Zero Waste Specialist Simone.Chhut@nashville.gov 615-917-7132





Learn more at ZeroWaste.nashville.gov

