



Universal Recycling

Vermont's Recycling and Composting Initiative

EPA SMM Webinar, February 21, 2018

Josh Kelly, Materials Management Section Chief



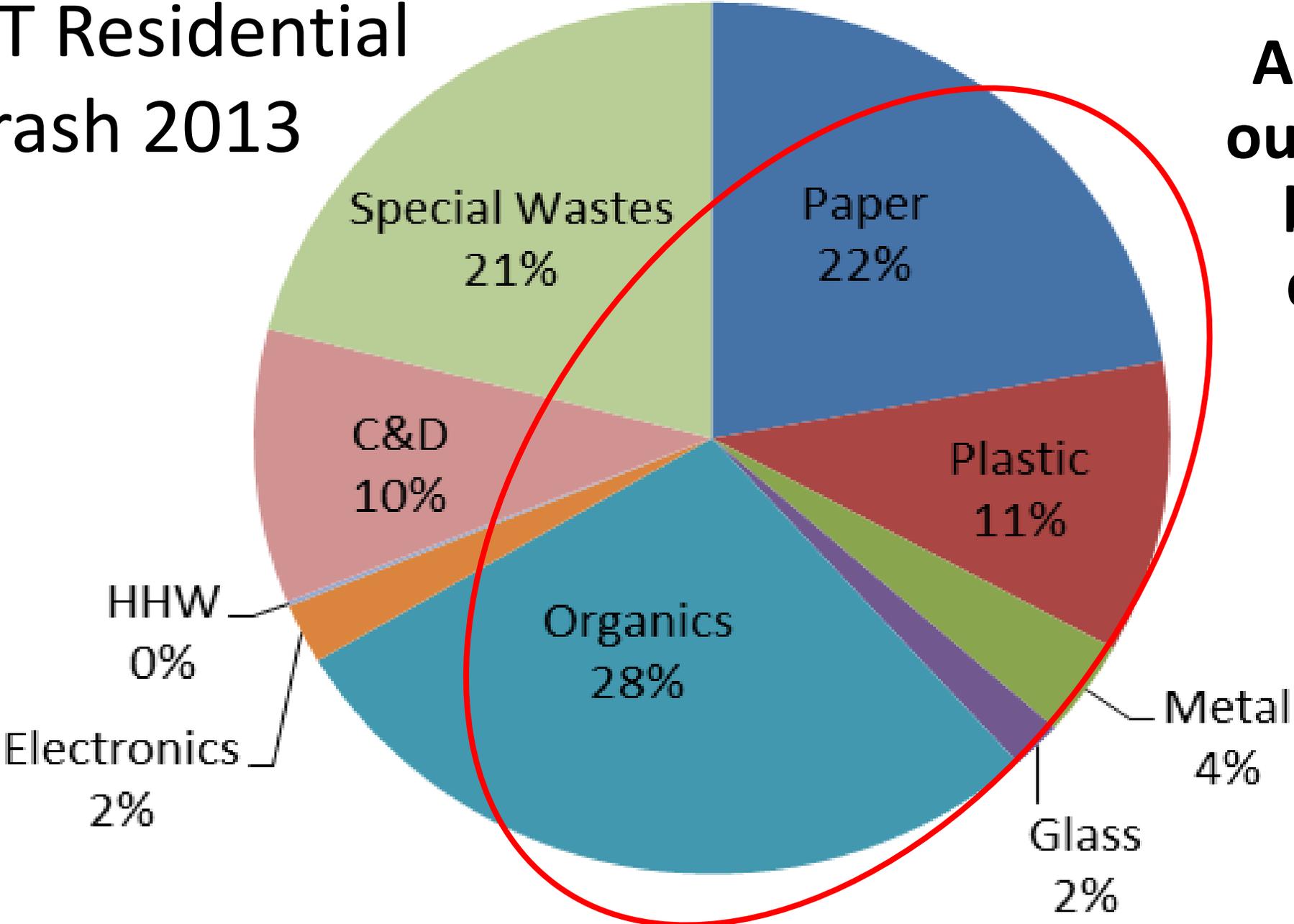
Four Points Before We Begin

1. Preventing food waste can happen even without a ban
2. Some food is already being rescued for people in your region
3. Some food processing byproducts are already being recovered for animal feed and via the rendering industry
4. Consumers are more concerned about food waste



10 year old carrots

VT Residential Trash 2013



**Almost half of
our waste could
be recycled,
donated, or
composted**

2012 – BIG year for Vermont

Universal Recycling (Act 148) passes unanimously

Hey, you can
compost
that!



That's
recyclable!

A Phased Approach



MATERIAL	FACILITIES must collect	HAULERS must collect	LANDFILL BAN
Recyclables	2014	2015	2015
Leaf/Yard Waste	2015		2016
Clean Wood	2016		2016
Food Scraps	2017	2020	2014-2020

Food Scraps Disposal Ban Phases

Food scrap generators within 20 miles of a facility must separate if above these thresholds

- 2014 > 104 tons/year **2 tons/week**
- 2015 > 52 tons/year **1 ton/week**
- 2016 > 26 tons/year **1/2 ton/week**
- 2017 > 18 tons/year **1/3 ton/week**
- **2020 all food scraps banned regardless of distance**



Flexibility

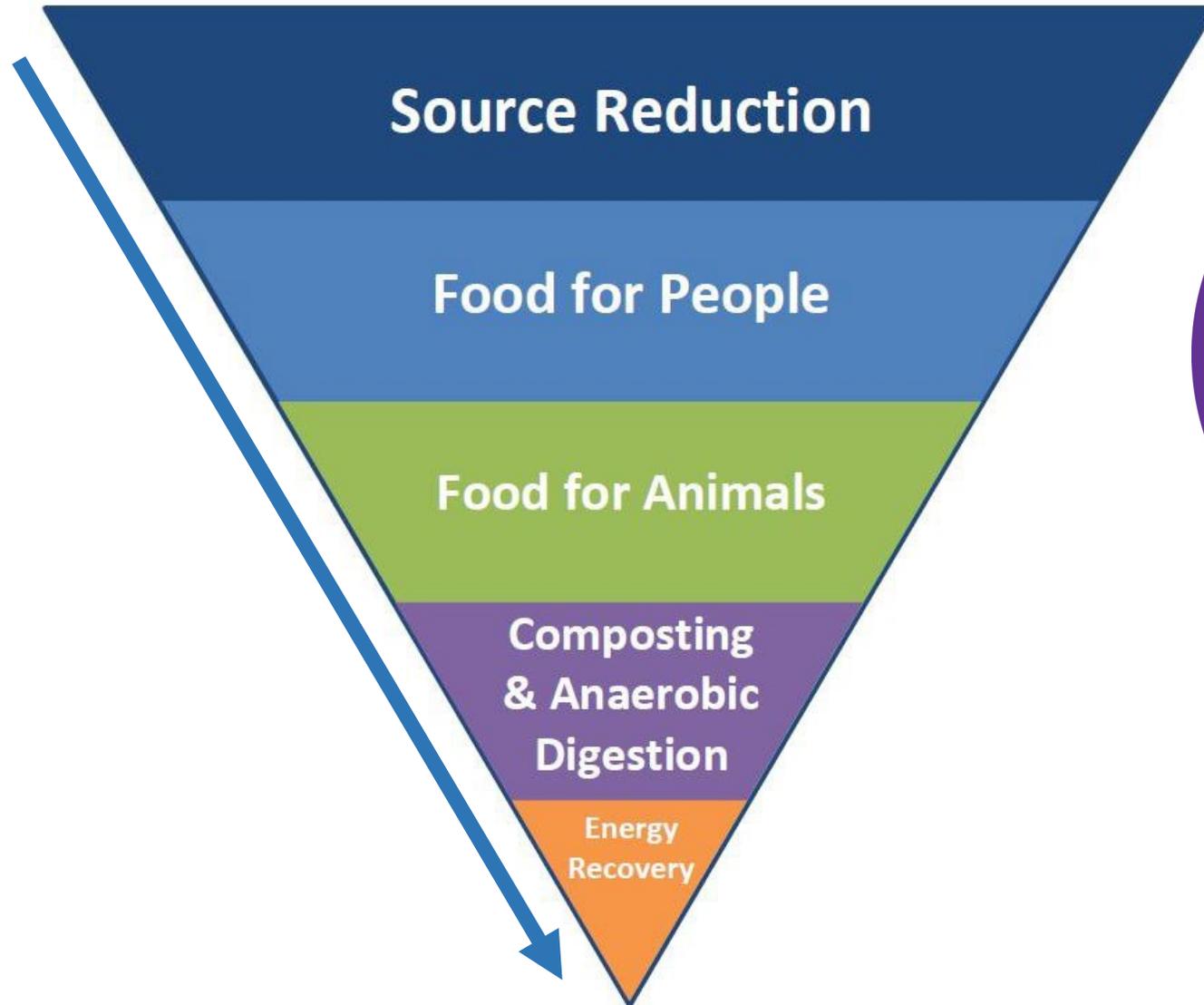
Hauler & Facility Exemptions

Residents that home compost can throw out meat and bones.

Businesses/Institutions that compost can request de minimis designation to dispose of some material.



Universal Recycling Food Hierarchy



And....It's Working



**100s of
businesses
compost**



**Food
Donation
Doubled**



**Food Scrap haulers have nearly
doubled since law was passed**
**40% of residential food waste is
diverted to composting or animals**

**Vermonters compost
more than ever before
(9% increase this year)**

Benefits of Keeping Food Waste out of the Landfill



1



Feeds People

Rescued food donations **more than doubled** from 2014 to 2016 at the Vermont Foodbank.



2

Reduces
Greenhouse Gas
Emissions



3

Supports
Green Jobs



4

Compost
Restores Soil



5

Reduces
need for
Landfills

VT landfills ~60,000 tons of food scraps each year.



Composting the scraps



instead of trashing them would...

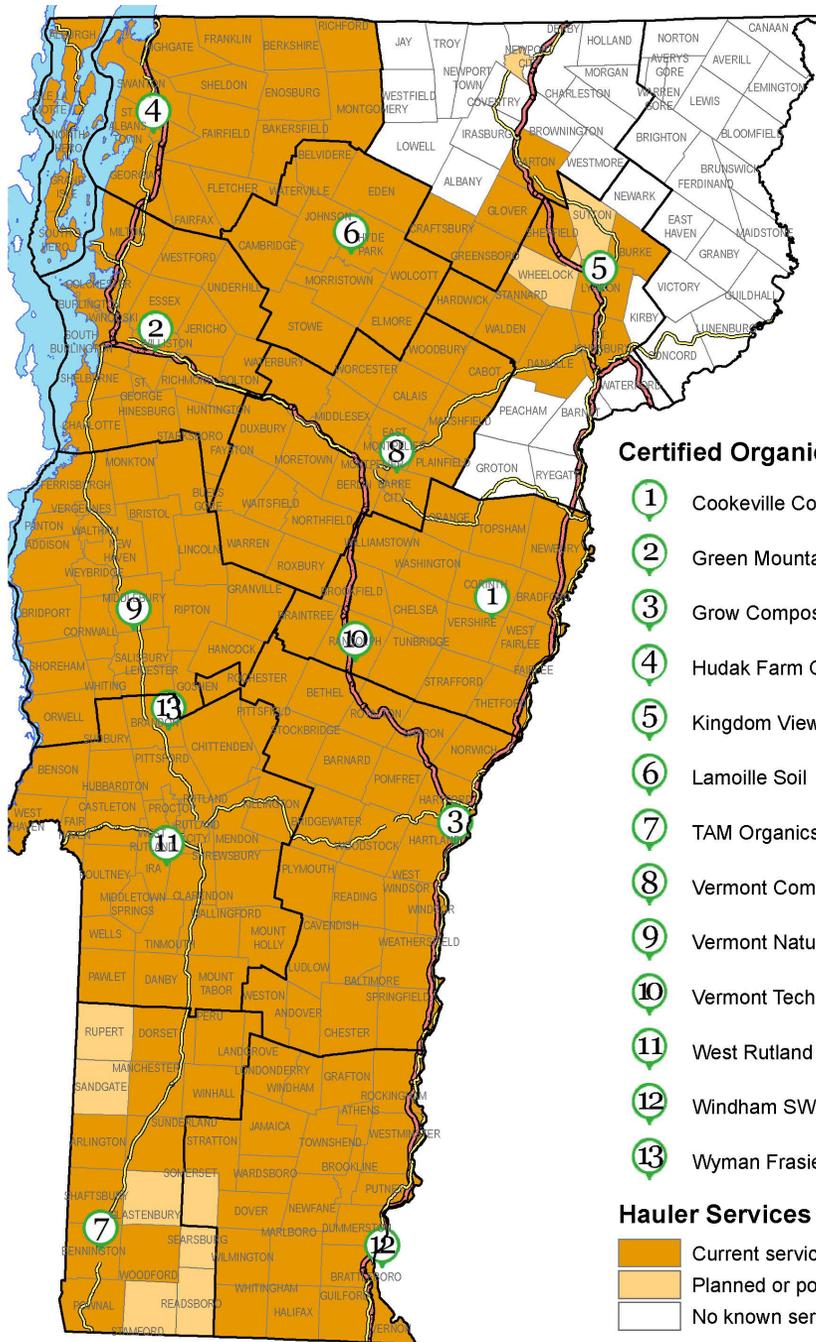
reduce greenhouse gas emissions



as much as not driving ~84 million miles.

That's like driving around Earth 3,373 times!





Commercial Food Scrap Collection Services

Certified Organics Facilities

- ① Cookeville Compost
- ② Green Mountain Compost
- ③ Grow Compost
- ④ Hudak Farm Composting Facility
- ⑤ Kingdom View Compost
- ⑥ Lamoille Soil
- ⑦ TAM Organics Compost Facility
- ⑧ Vermont Compost Company
- ⑨ Vermont Natural Ag. Products
- ⑩ Vermont Tech Community Anaerobic Digester
- ⑪ West Rutland Organics Facility (Not Operational)
- ⑫ Windham SWMD Compost Facility
- ⑬ Wyman Frasier Compost of Vermont

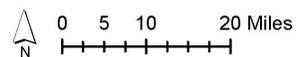
Hauler Services for Commercial Customers

- Current service available
- Planned or potential service
- No known service

13 Certified Facilities

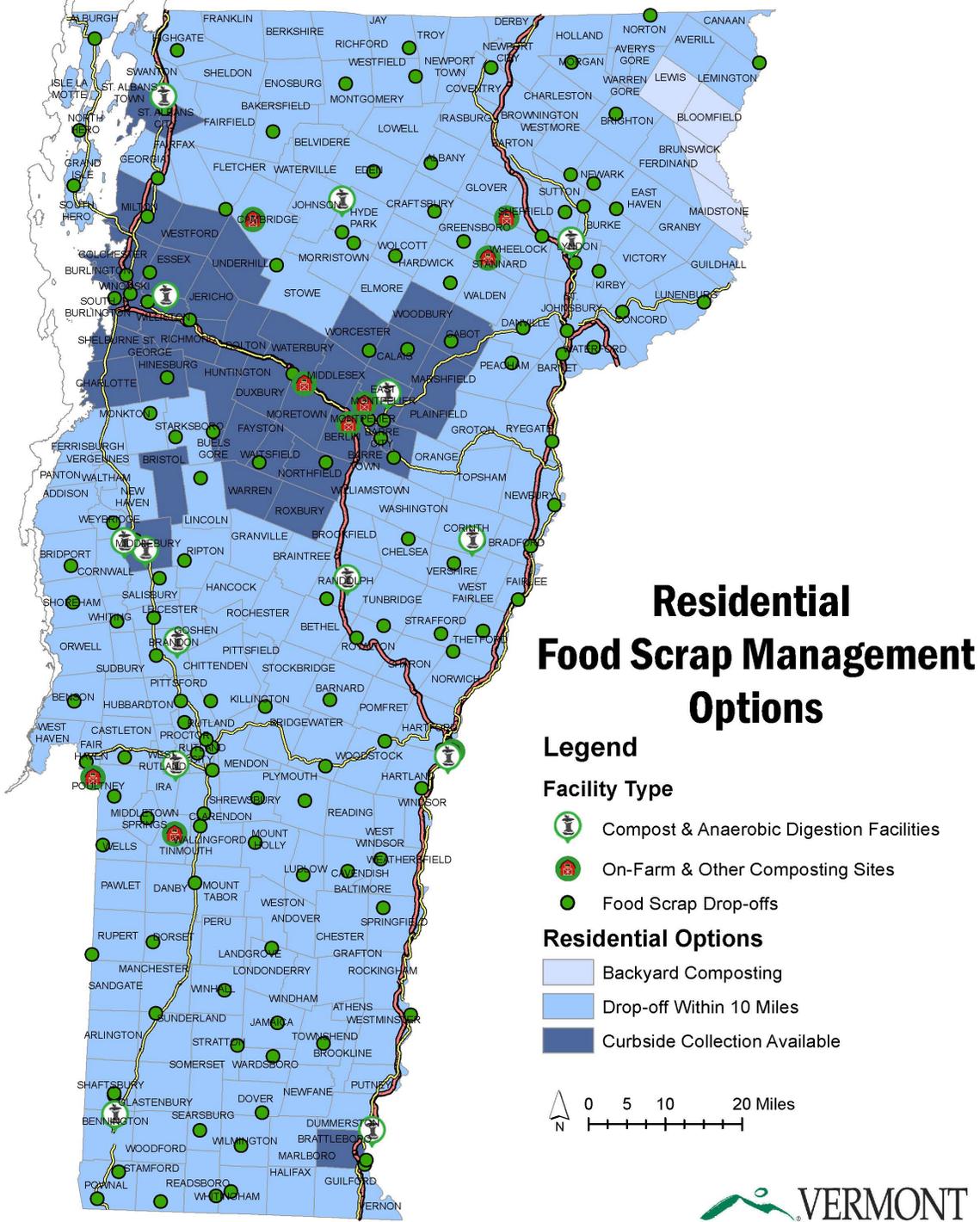
~85% of towns are w/in 20 miles of a facility

~80% of towns have commercial services





Over 100 Food Scrap Drop-off Locations





Materials Management Map

UNIVERSAL RECYCLING
Materials Management Map

VERMONT
AGENCY OF NATURAL RESOURCES

Organic Tools Measure Drawing

Print Map Pan Zoom In Zoom Out Initial View Full Extent Zoom to Town Filter by Generator Type Filter by Scrap Tons Generated Filter by Facility Type Search for Facilities Near You Clear layer filters

Print Navigation Queries

Street Map

The map displays a geographical view of Vermont with numerous red location pins representing recycling facilities. Several pins are highlighted with blue circular icons containing a recycling symbol. The map includes labels for various towns and regions such as South Hero, Westford, Underhill, and Waterbury. Major roads like VT-128 and VT-117 are also visible. The interface includes a navigation sidebar on the left with zoom and pan controls, and a top navigation bar with various tool options.

Food Scrap Generator



CHELSEA ROYAL DINER

Food Establishment

Restaurant

Estimated Tons Per Week: 0.63

Physical Address:

487 MARLBORO ROAD

BRATTLEBORO

05303

Telephone Number:

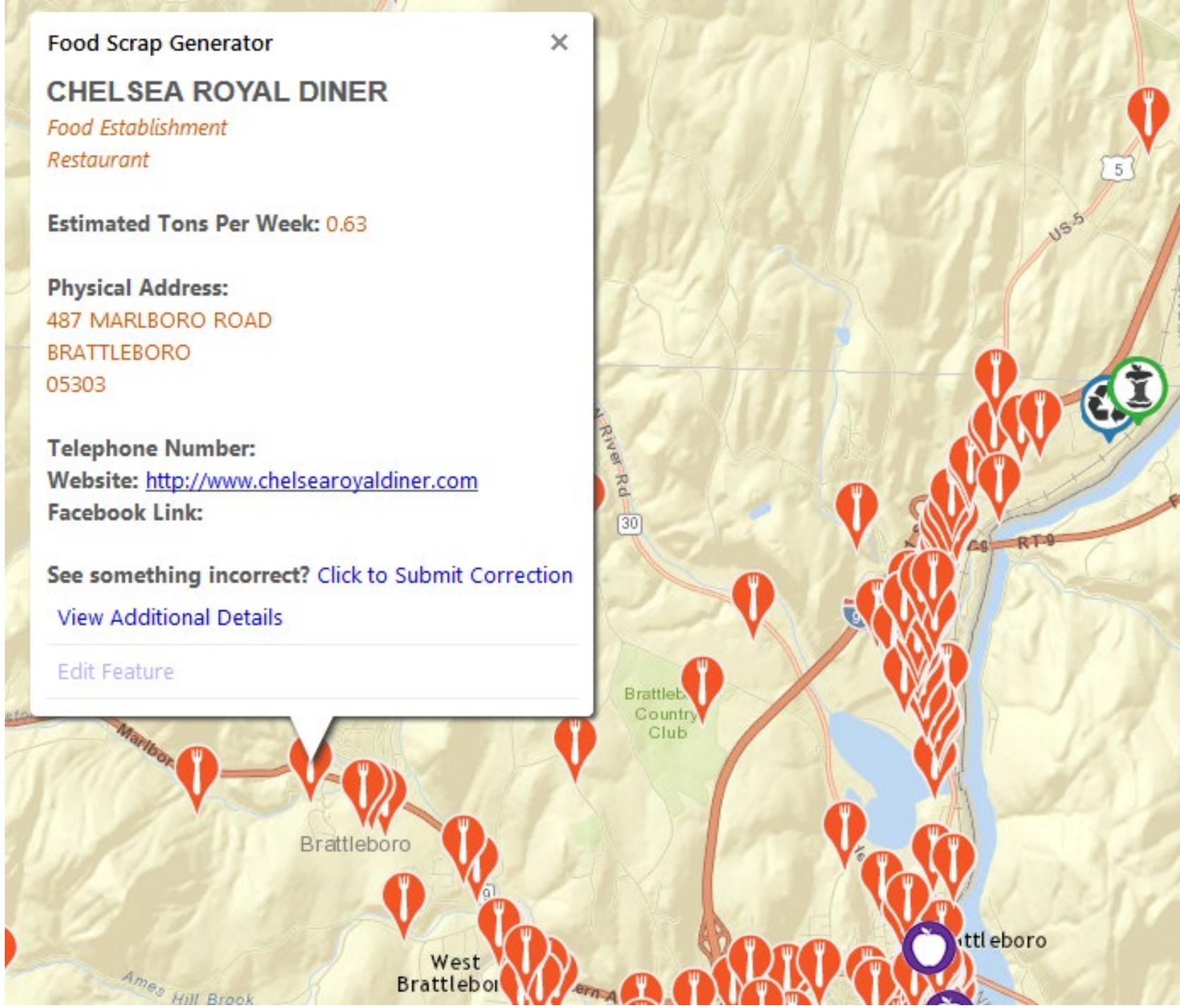
Website: <http://www.chelsearoyaldiner.com>

Facebook Link:

See something incorrect? [Click to Submit Correction](#)

[View Additional Details](#)

[Edit Feature](#)



How much food waste do you produce?



Institution

(prison, nursing home, hospital)

Beds X Lbs./meal X Meals/day X 7 days/wk = Lbs./wk

100 X 0.5 X 3 X 7 = 1,050

0.53 tons/week = **estimated** 27 tons/year

20-mile radius tool

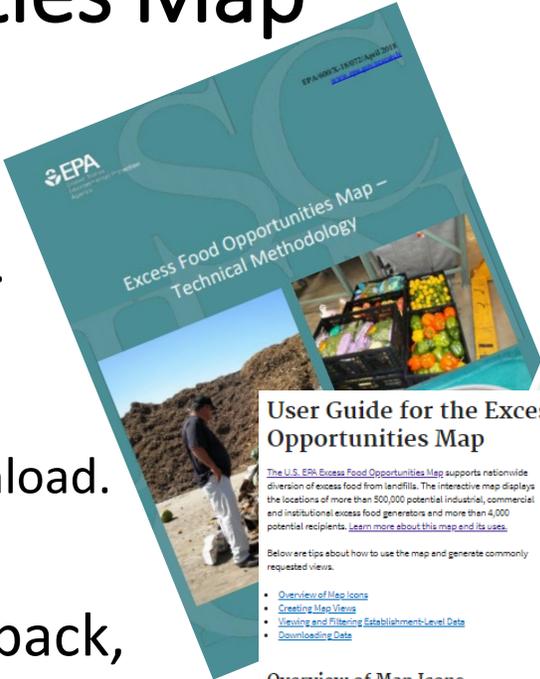


EPA Excess Food Opportunities Map

- Map & resources
 - Technical Methodology.
 - FAQs.
 - User Guide.
 - Data available for download.

- For questions and feedback, email:

SMMFood@epa.gov



User Guide for the Excess Food Opportunities Map

The U.S. EPA Excess Food Opportunities Map supports nationwide diversion of excess food from landfills. The interactive map displays the locations of more than 500,000 potential industrial, commercial and institutional excess food generators and more than 4,000 potential recipients. [Learn more about this map and its uses.](#)

Below are tips about how to use the map and generate commonly requested views.

- [Overview of Map Icons](#)
- [Creating Map Views](#)
- [Viewing and Filtering Establishment-Level Data](#)
- [Downloading Data](#)

Resources

- [List of types of excess food generators and recipients found in this map](#)
- [Answers to frequent questions](#)
- Direct any questions to SMMFood@epa.gov. Please include "Excess Food Opportunities Map" in the subject line.

Frequent Questions about the U.S. EPA Excess Food Opportunities Map

The U.S. EPA Excess Food Opportunities Map supports nationwide diversion of excess food from landfills through the identification and display of establishment-specific information about potential generators and recipients of excess food. Through analysis of the data presented in the map, users may be able to identify infrastructure gaps, assess the feasibility of developing new recipient facilities and identify alternatives to landfill disposal. If your question is not answered below, please contact SMMFood@epa.gov.

On this page:

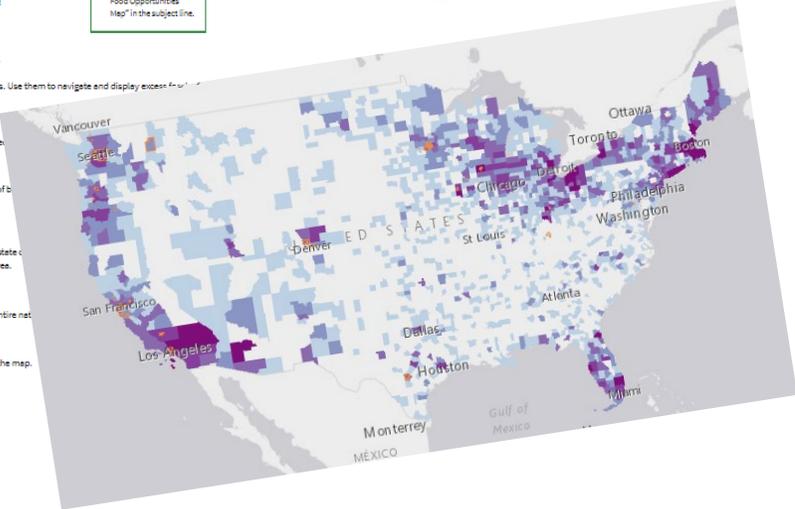
- [Map Background](#)
- [Technical specifications](#)

Map Background

1. Who is the intended audience for the map?
2. How does U.S. EPA define excess food for the map?
3. Does the map provide an estimate of total excess food in the United States?
4. Does the map provide estimates of recipient capacity for excess food?
5. Will the map provide state maps detailing excess food generators and recipients (e.g., Massachusetts, South Carolina, Vermont)?

Overview of Map Icons

- The map landing page displays the following icons. Use them to navigate and display excess food generators and recipients across the nation.
- **Bookmarks:** Quickly navigate to preloaded map views.
 - **Basemap gallery:** Choose from a variety of basemaps (e.g., topographic, aerial, street).
 - **"Near Me":** Enter a physical address, city, state or zip code to zoom to that location on the map view, and see a count of generators in that area.
 - **Home view:** Reset the map to view the entire nation.
 - **Your location:** Zoom to your location on the map.



<https://www.epa.gov/foodmap>



Mixed Recycling



Paper & Cardboard



Aluminum & Steel



Glass Jars & Bottles



Plastic Bottles & Containers



Clean and empty only, please.



Food Scraps



All Food Scraps

Fruits, vegetables, dairy, bread, grains, meat & bones, oils, sauces, eggs



Remove stickers from produce!



Coffee Grounds & Filters



www.VTrecycles.com



Landfill



All Trash Items

Napkins, tissues



Paper cups, stirrers & straws, plastic utensils



Bottle caps

Plastic bags & film, chip and candy wrappers



Styrofoam (all kinds)

When in doubt, throw it out!
It's better than trashing the recycling bin.



www.VTrecycles.com



Business Outreach



Photo credit: Central Vermont Solid Waste Management District (CVSWMD)

Vermont's Story

1. Pilot Projects

Grants, Support, & Encourage Organics Recycling

2. Rules and Regulations – Find a place for Organics Recycling

Protection of Food Donors in Law

Compost Training, Technical Assistance, Siting, and Certification

Anaerobic Digestion Certification

3. Policy that supports market development

Learning Lessons

- Engage Stakeholders Early and Often
- Ensure Level Playing Field
- Provide a Path Forward for Facilities
- Watch Markets
- Enforce Carefully
- Use Funding to Incentivize Greatest Needs
- Listen and Adapt

FREE Symbols – at VTrecycles.com



josh.kelly@vermont.gov

802.522.5897

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