Reducing Food Loss and Waste: A Workshop on Impacts

Impacts of Reducing Food Loss and Waste on the Environment

October 17, 2018

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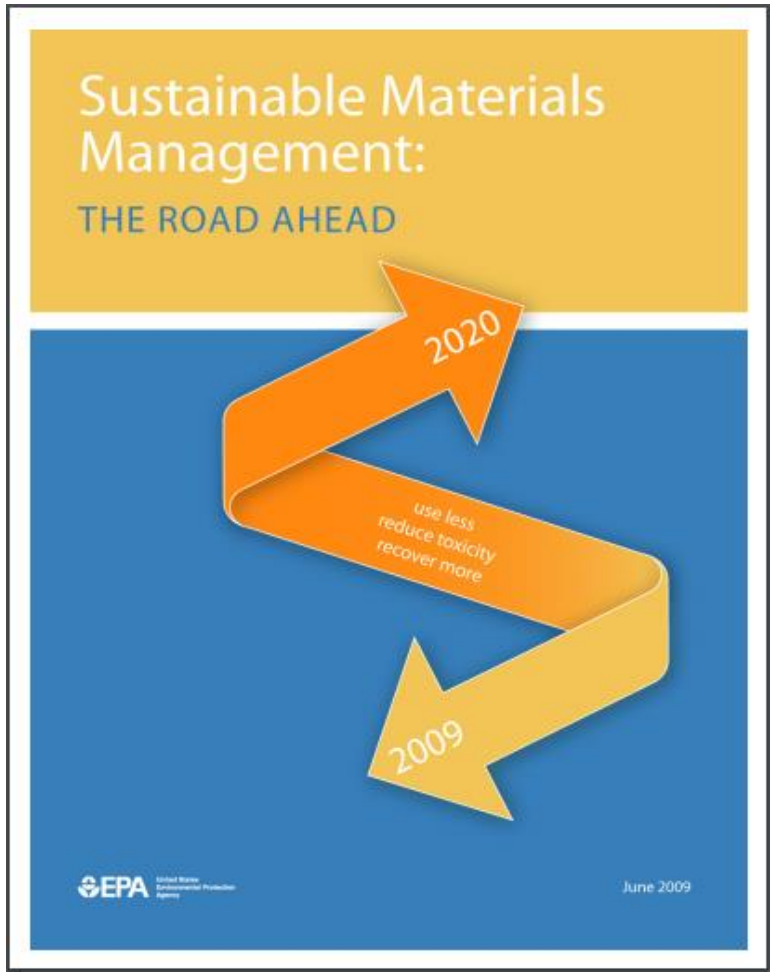
Sustainable Management of Food

US Environmental Protection Agency

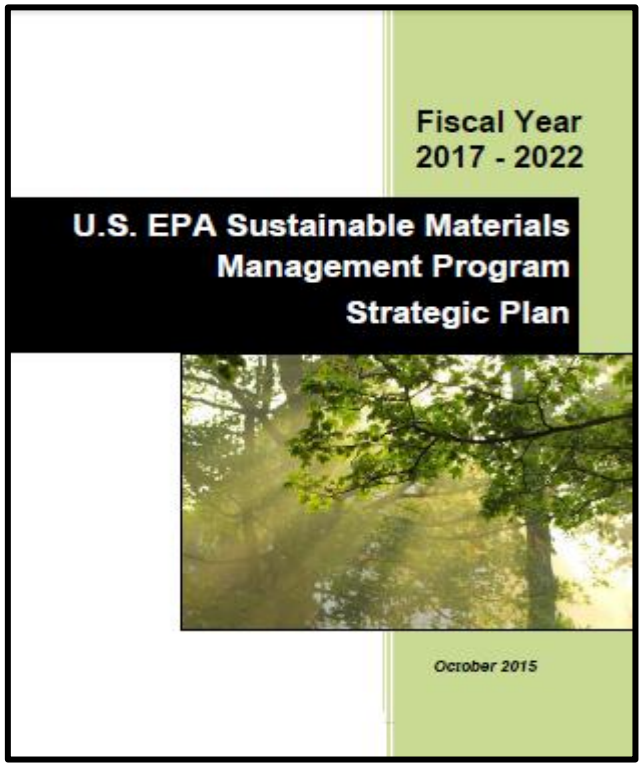
Sustainable Materials Management



"An approach to serving human needs by using/reusing resources productively and sustainably throughout their life cycles, generally minimizing the amount of materials involved and all associated environmental impacts."

Sustainable Materials Management: The Road Ahead, EPA (2009)

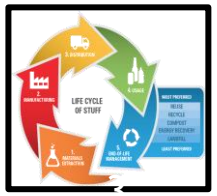
Sustainable Materials Management

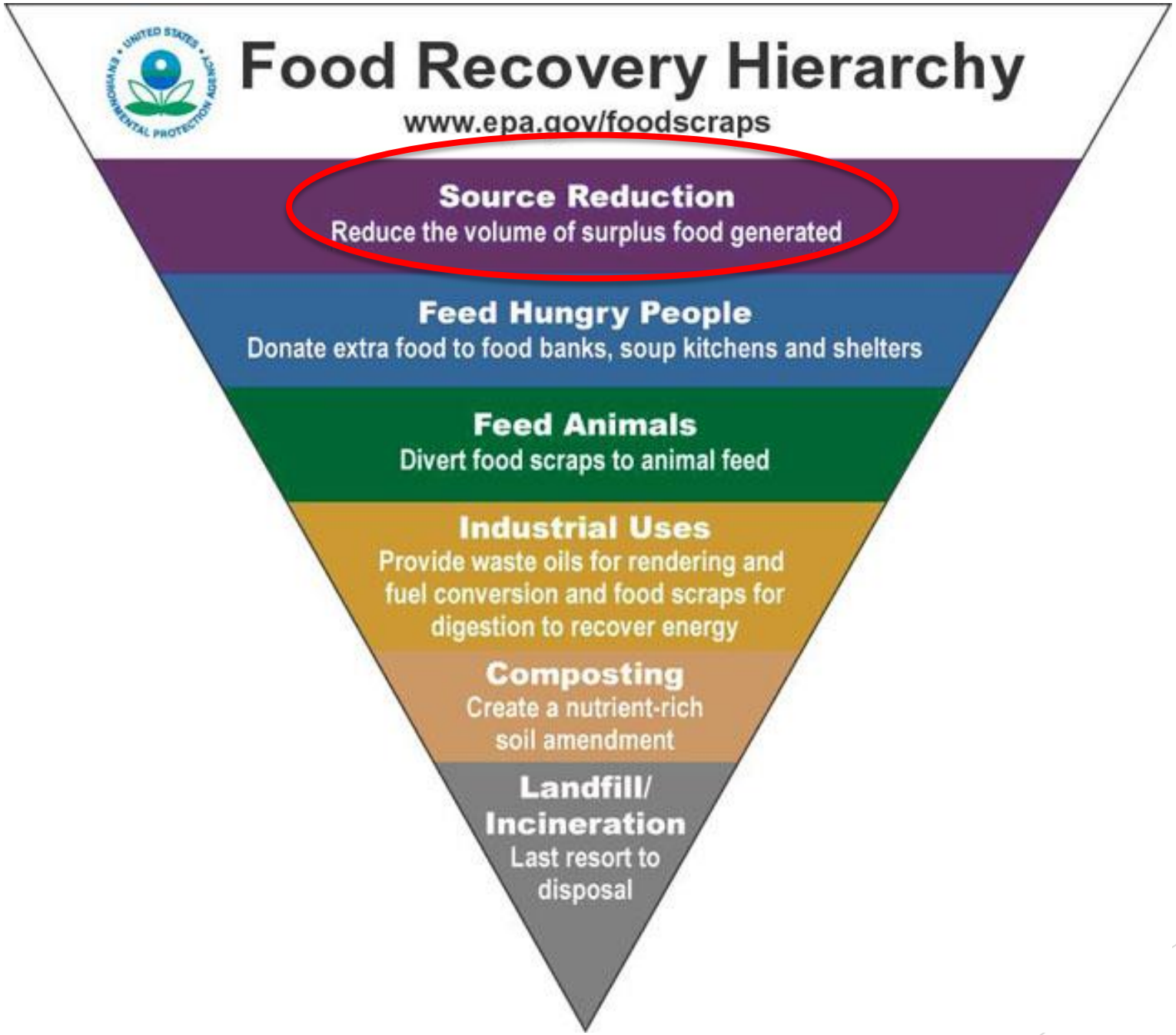


- Built Environment (buildings, roads, bridges, infrastructure)
- Sustainable Management of Food
- Sustainable Packaging
- Sustainable Electronics Management
- Life-Cycle Thinking
- Measurement
- International Efforts

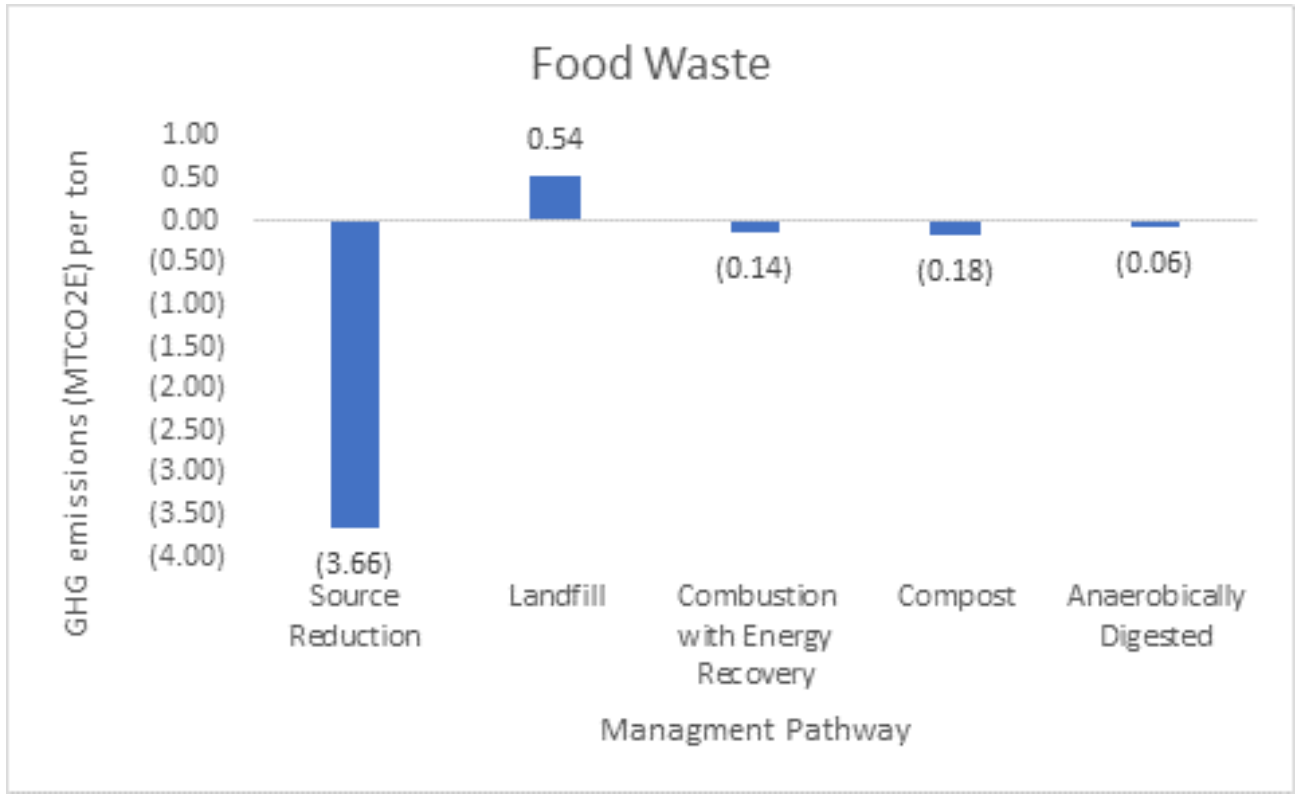


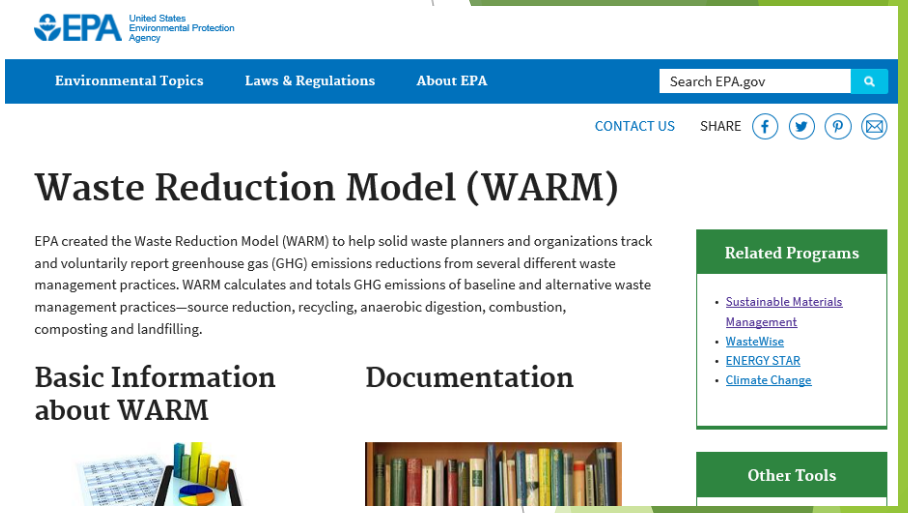


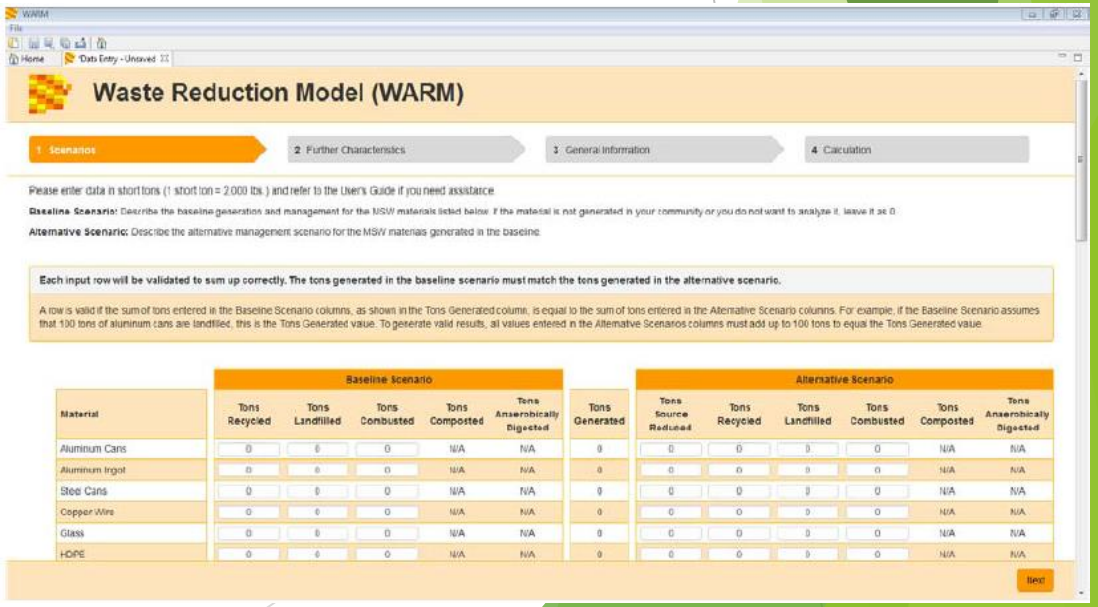




Food Recovery Hierarchy
www.epa.gov/foodscraps
Source Reduction
Reduce the volume of surplus food generated
Feed Hungry People
Donate extra food to food banks, soup kitchens and shelters
Feed Animals
Divert food scraps to animal feed
Industrial Uses
Provide waste oils for rendering and fuel conversion and food scraps for digestion to recover energy
Composting
Create a nutrient-rich soil amendment
Landfill/ Incineration
Last resort to disposal

Waste Reduction Model (WARM)





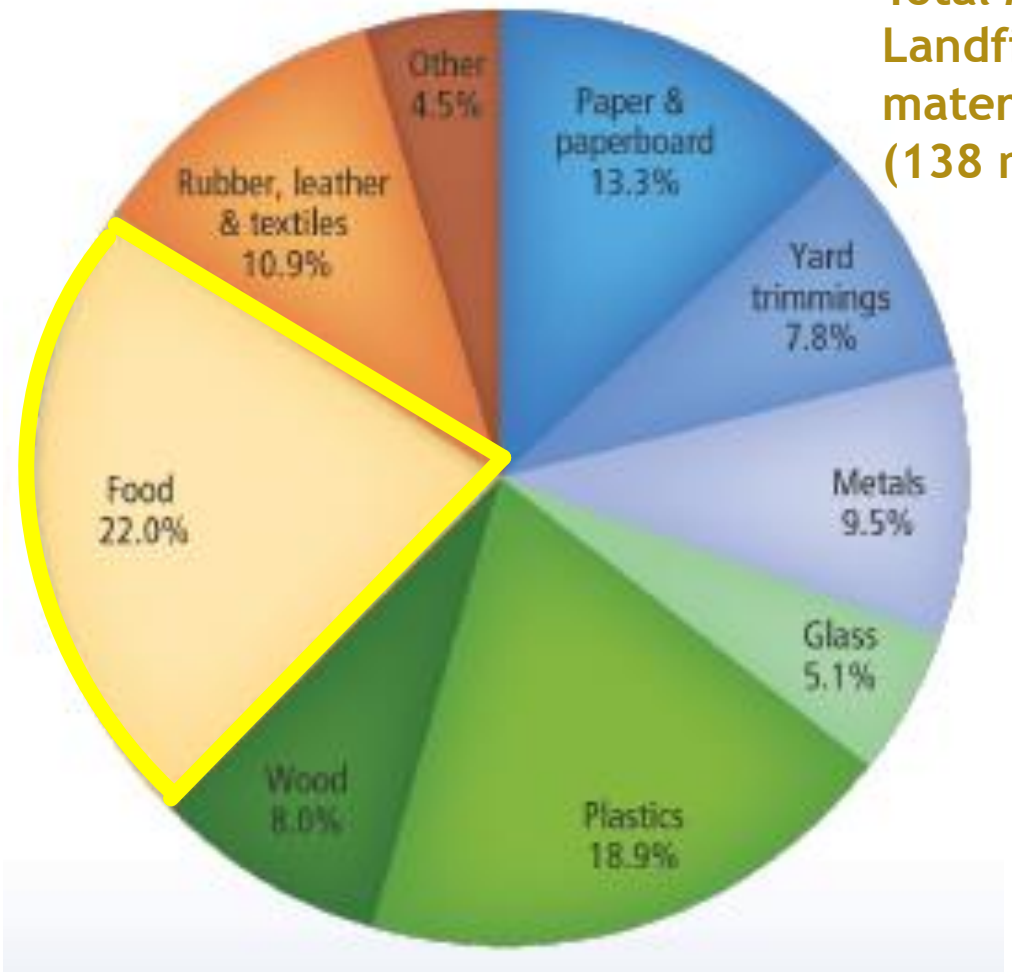


https://www.epa.gov/warm


EPA
#NoWastedFood
Our country has a goal:
Cut wasted food in half by 2030
Learn how to do your part: www.epa.gov/foodrecovery

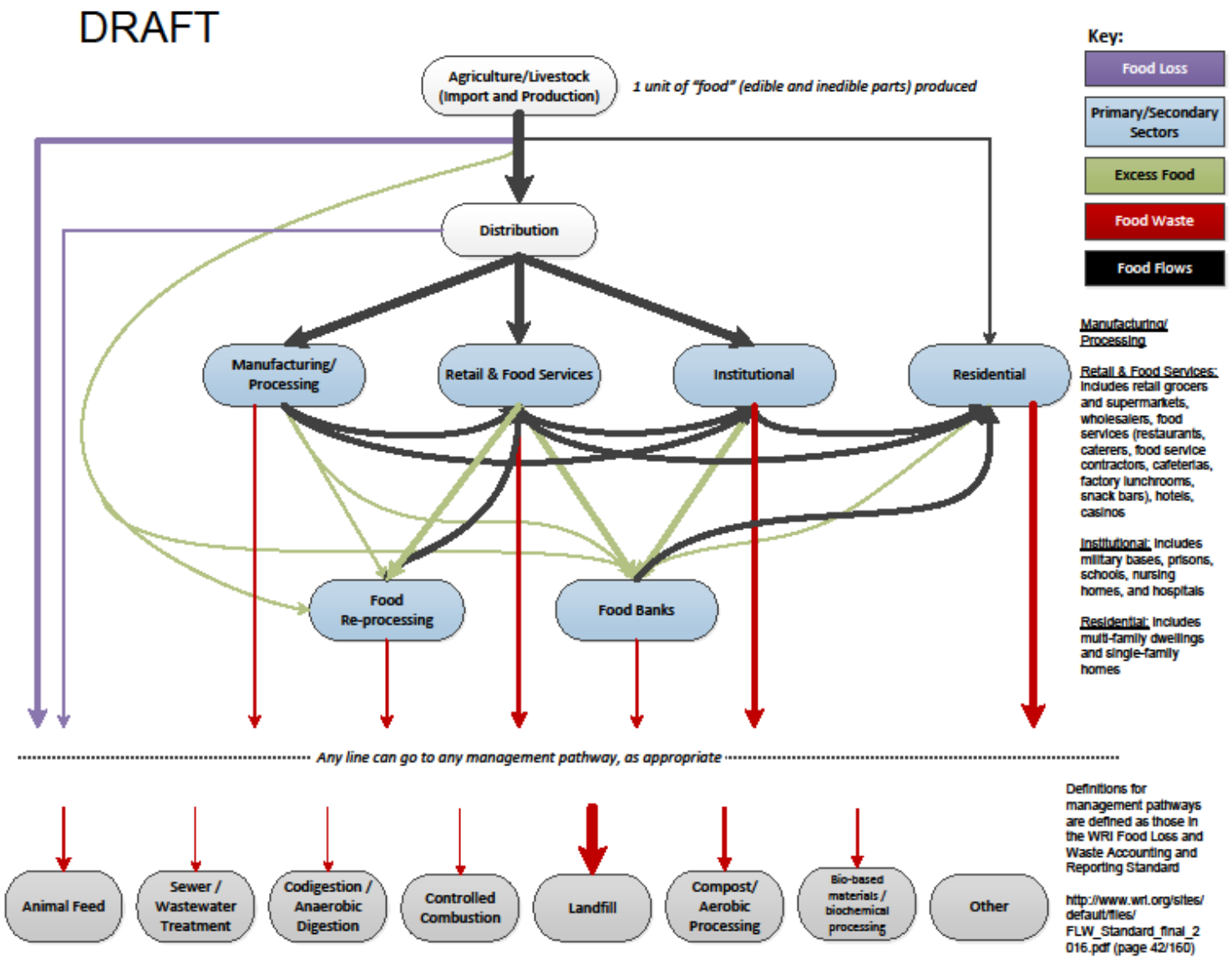
EPA's Facts and Figures Food Waste Estimates

Total MSW Landfilled (by material), 2015 (138 million tons)

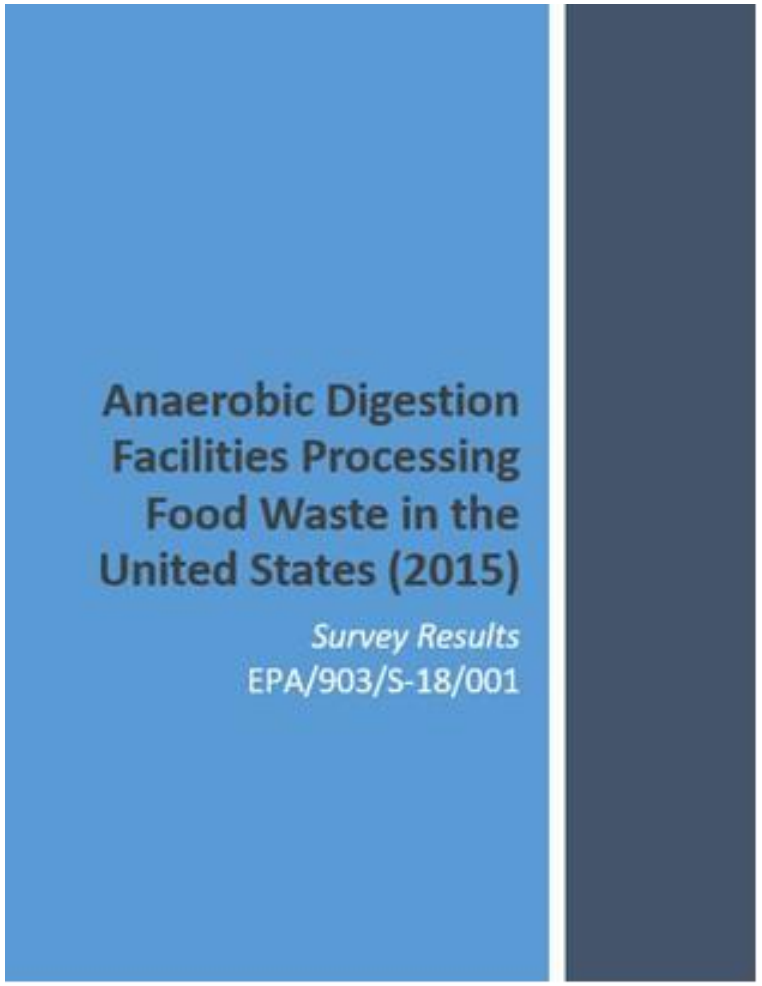


https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/food-material-specific-data

SMF Measurement Improvement



Anaerobic Digestion Data Collection Project



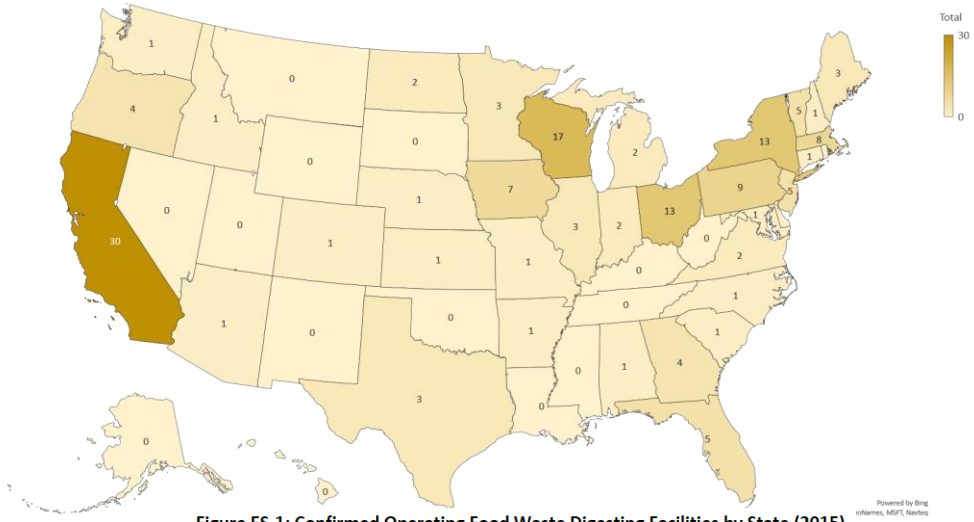


Figure ES-1: Confirmed Operating Food Waste Digesting Facilities by State (2015)

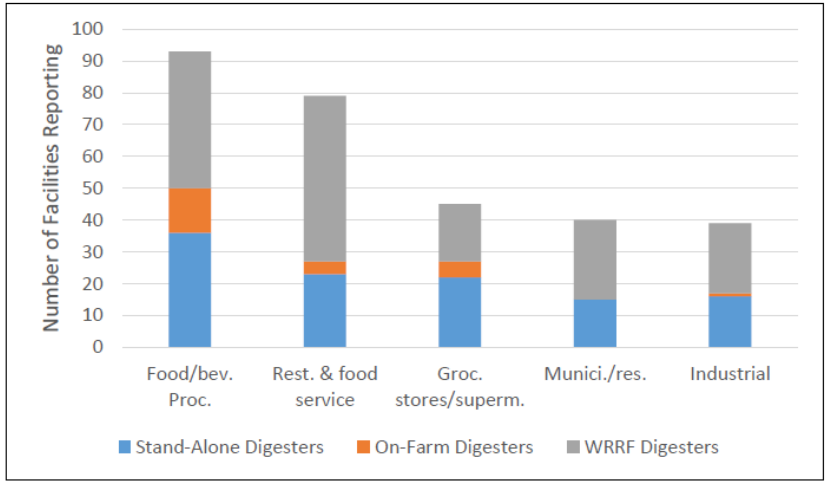
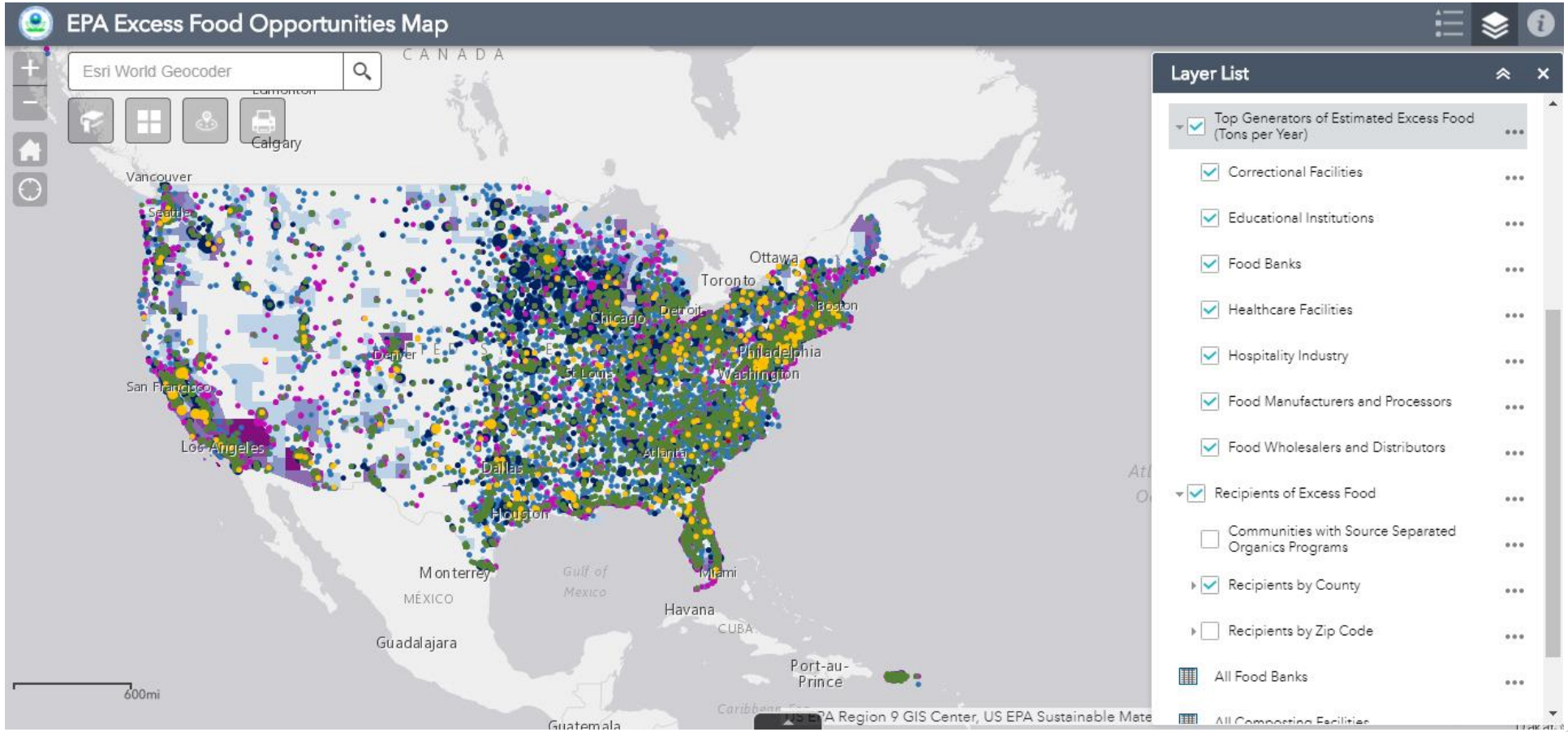


Figure ES-3: Top Five Sources of Digester Feedstock by Digester Type (2015)

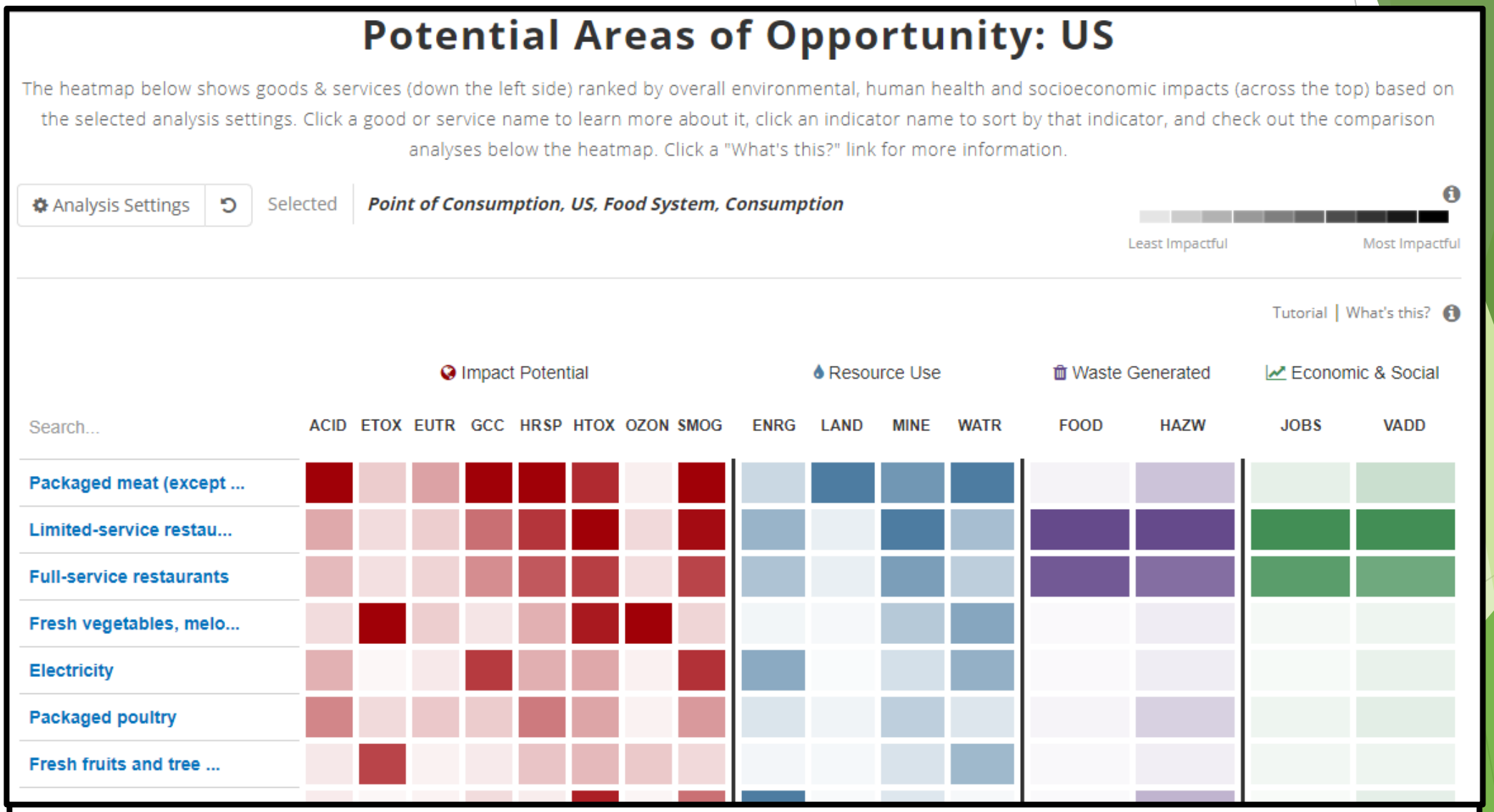
https://www.epa.gov/anaerobic-digestion

Excess Food Opportunities Map



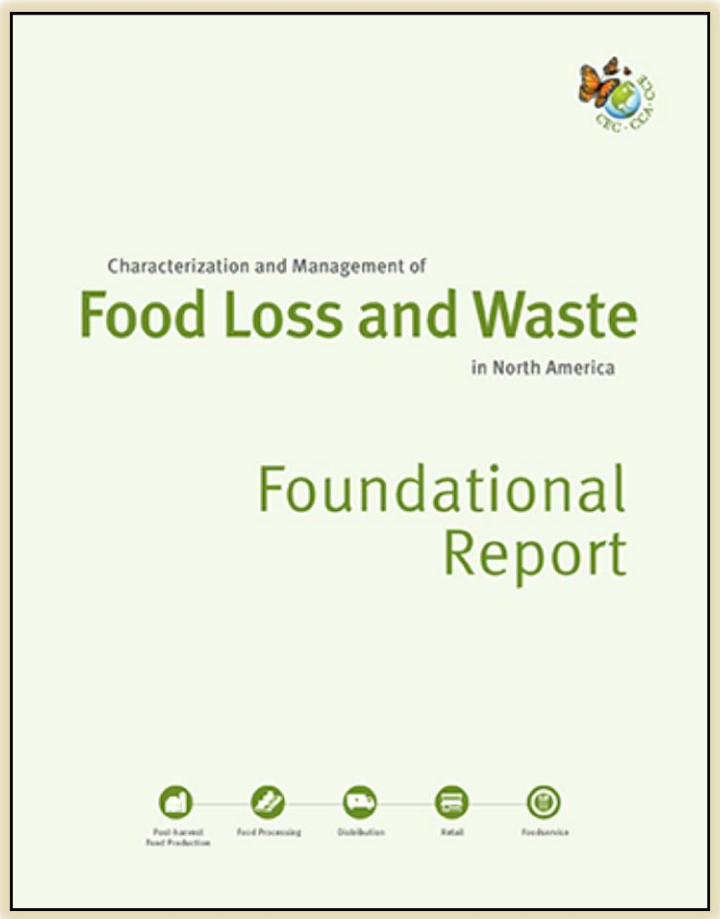
https://www.epa.gov/foodmap

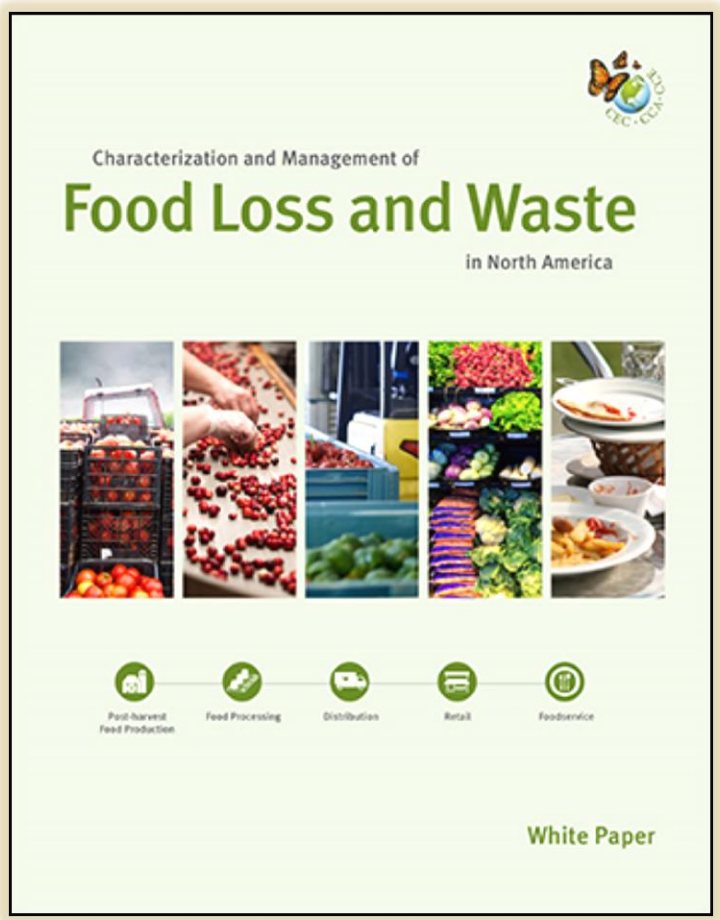
SMM Prioritization Tool Suite



Screenshot: Food System Results from National SMM Prioritization Tool

CEC Food Loss & Waste Projects





www.cec.org

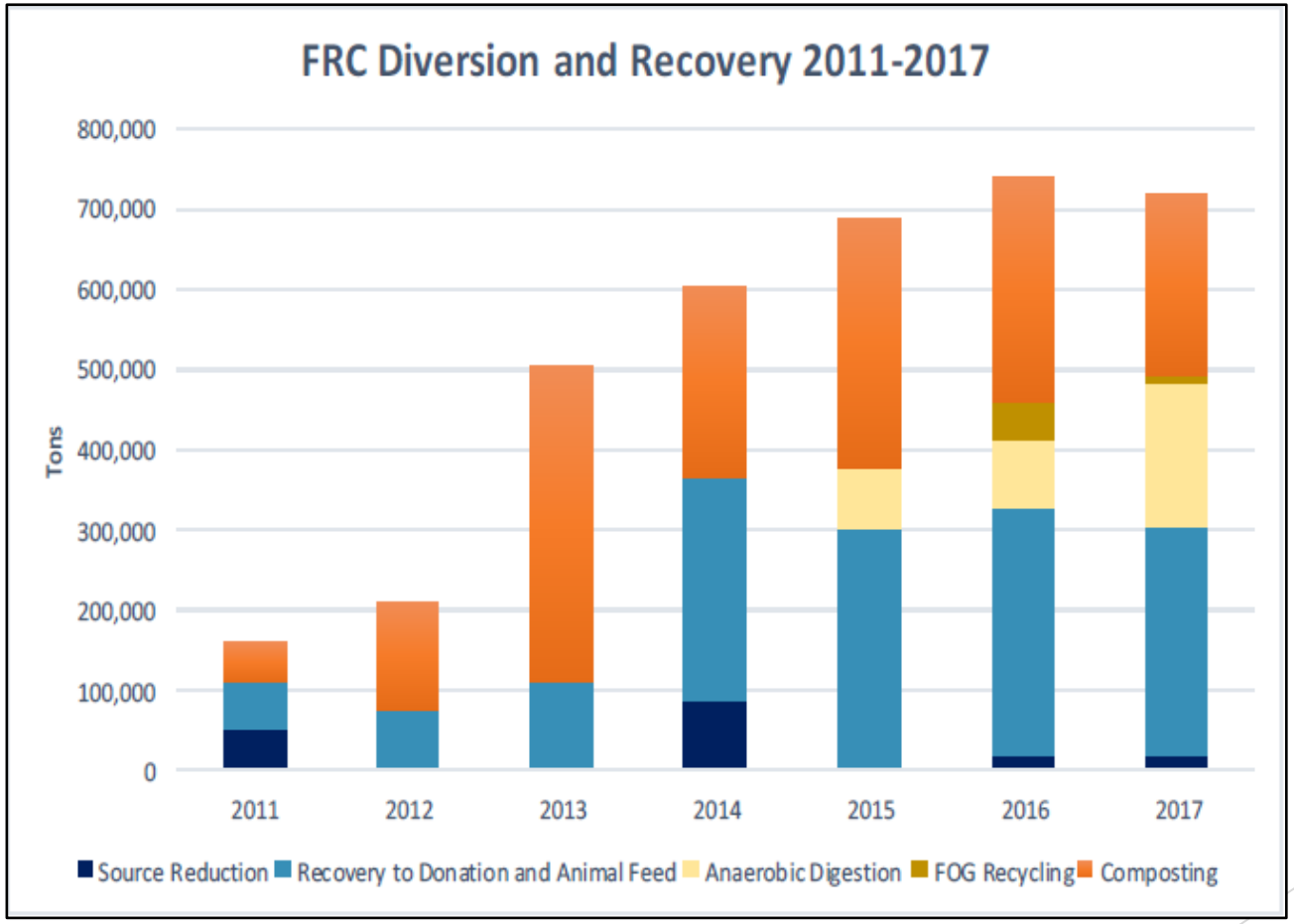
Food Recovery Challenge

2017 Results:

719,000 tons
of food waste prevented and diverted

Composted	Recovered
225,000 tons of food	286,000 tons of food
Anaerobically di-gested	**Reduced**
179,000 tons of food	18,000 tons of food at the source

FRC participants saved up to
$36.4 Million
in avoided tipping fees



https://www.epa.gov/sustainable-management-food/food-recovery-challenge-frc

U.S. Food Loss and Waste 2030 Champions

https://www.epa.gov/sustainable-management-food/united-states-food-loss-and-waste-2030-champions

Thank you!

Please visit our website:

https://www.epa.gov/sustainable-management-food

Follow us **@EPAland** using **#nowastedfood**

Join the Food Recovery Challenge

https://www.epa.gov/sustainable-management-food/food-recovery-challenge-frc

FURTHER WITH FOOD
Center for Food Loss and Waste Solutions

https://furtherwithfood.org