

Best Practices for Diverting, Preventing & Managing Wasted Food

Missy Hall, Food Waste Diversion Program Manager February 12, 2020





Missy Hall

Program Manager: Food Waste Diversion mahp2i@rit.edu | 585-475-6413

- Leads NYSP2I's Food Waste Diversion
- Background in lean manufacturing and sustainability
- Assists companies on process assessments and recommendations for P2 improvements





NYS Pollution Prevention Institute

- HQ at RIT
- Established in 2008
- \$3.9M in annual NYS funding administered through the NYS Department of Environmental Conservation
- Focus areas include:
 - Sustainable Manufacturing Assessments
 - Supply Chain Sustainability
 - Technology Commercialization
 - Food Waste Diversion
 - Outreach & Education
 - Research & Development
 - Emerging Contaminants



Impact of Wasted Food



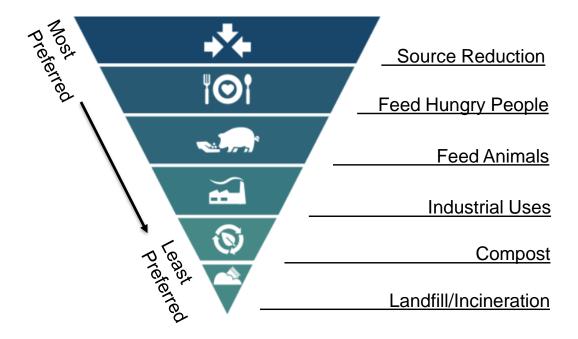








Food Recovery Hierarchy





Alternative Use Opportunities and Nutritional Assessment for Spent Grain Flour

Challenge:

Identify use opportunities for spent grain flour from Rise Products

Solution:

- Conducted product testing
- Performed analysis of lab results and consumer trends

Results:

- Flours were high in protein and fiber, and low in carbohydrates, while staying whole grain
- Flours aligned with many of the trends observed, e.g. clean labeling





Restaurant Food Waste Diversion Pilot

Challenge:

Expand food waste management efforts at Outback restaurants

Solution:

- Conducted food waste diversion trial
- Created improvement plan
- Developed a diversion program for future store locations

Results:

- Pilot store ready to scale up efforts
- Other locations can leverage tools developed to replicate





Municipal Food Waste Composting Pilot



Challenge:

 Reduce community landfill waste through composting in the Village of Clifton Springs

Solution:

- Developed an implementation plan for scale up
- Collaborated with Cornell Waste Management Institute to conduct a food waste composting trial

Results:

- Approximately 2,000 lb. of food waste collected each month from three local businesses
- Community has the plans available for future upgrades



How to get started (part 1)

Set goals



Connect with local partners



Estimate food waste



Characterize waste stream



How to get started (part 2)

Consider options



Train and pilot process



Reflect and grow





Step 1: Organizing your **Food Waste** Management Plan

Step 2: Defining your Plan and Establishing Objectives

Step 3: Implementing the Plan



Food Waste Prevention – Best Practices



Creative use and reuse of ingredients

Empower staff and track progress

Update and refine menu

Offer/display smaller portions

Tackle opportunities one at a time





Wegmans

Wegmans is a family-owned, regional supermarket chain founded in 1916 by the Wegman family. Wegmans, currently one of the largest private companies in the United States (2017 annual sales of \$8.7 billion), operates 95 stores and employs 48,000 people. Wegmans stores





The Red Fern is an entirely vegan eatery in Rochester that was founded upon principals of health, ethics, environment, and social consciousness. The restaurant creates meals from scratch, using locally-sourced and organic ingredients when possible. Menu offerings include entrees, sandwiches, salads





Genesee Brewing Company in Rochester is home to New York State's oldest brewery, founded in 1878, and an affiliated pub-style restaurant with approximately 140 employees, called the Genesee Brew House.

Success **Food Waste**

ANCOLIE

the epicurean cantine

Ancolie is a sustainably operated restaurant located in the heart of Greenwich Village which sources local and seasonal ingredients to serve delicious and nutritious meals in reusable glass jars.



Food Waste Essentials e-book

Understanding Sources

Managing the **System**

Prevention **Opportunities** **Donation Best Practices**

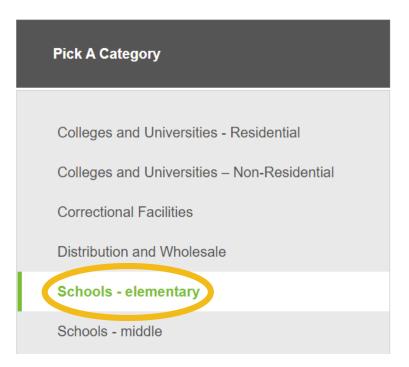
Recycling Basics

Available at nysp2i.rit.edu/resources



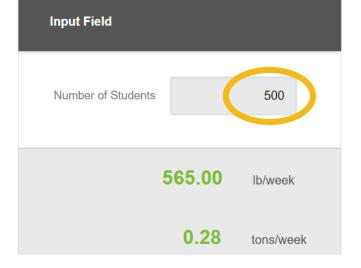


Food Waste Estimator



Available at nysp2i.rit.edu/resources

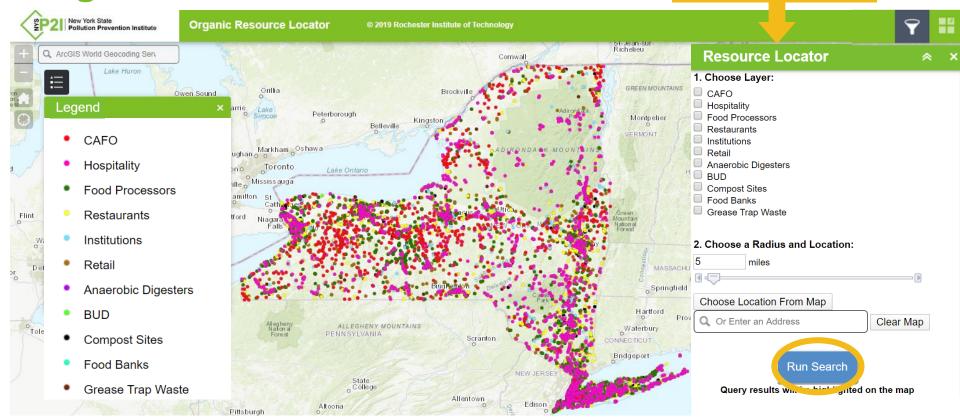






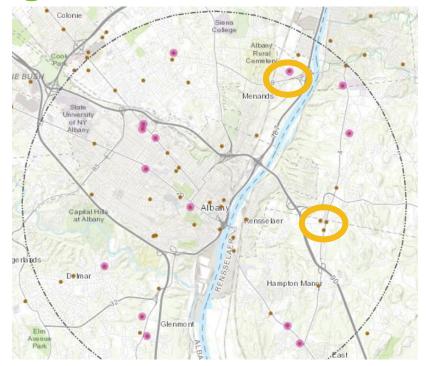
Organic Resource Locator

Input Criteria

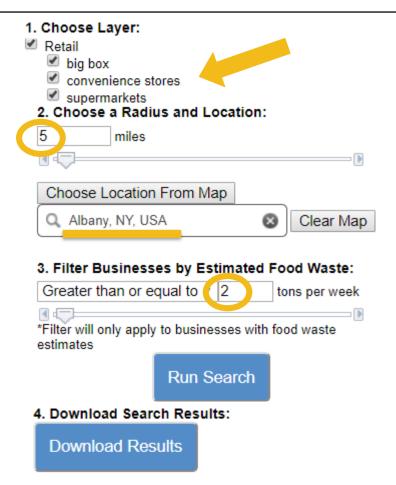




Organic Resource Locator



Available at nysp2i.rit.edu/resources





Assistance for NYS Companies, Municipalities & Non-Profits

- Must be NY-based
- Typical project cost range is \$15-\$50k
- NYSP2I funding offsets most of the project cost to the organization
 - Expenses are non-capital expenses
 - RIT's engineering, technical and project management services
- Post-project reporting
- Typical project takes about 2-6 months





Food Waste Program Projects

Clients: Restaurants, haulers, municipalities, organics processors, start-ups, institutions, etc.

We Offer:

- Food waste strategy development and implementation
- Technology assessment and validation
- Guidance on improved food recovery and food waste management practices
- Customized education and training



Food Waste Reduction & Diversion Reimbursement

NEW YORK
STATE OF OPPORTUNITY.

Development



Program





- Empire State Development selected RIT in 2018 to administer a grant program aimed at reducing food waste in landfills
- \$4M available over a 2-year period or until funding runs out
- Reimbursement up to 44% of eligible equipment expenses
- Eligible projects must divert food waste from landfills or incinerators
- More info available at: https://www.rit.edu/affiliate/nysp2i/collaborations



EPA Food Recovery Challenge

Who Should Participate

Why Get Involved

How to Join





NYS Food Donation and Food Scraps Recycling Law – Effective January 1, 2022

Receive law announcements and other news: surveymonkey.com/r/D67Z23J

Learn more about the law: dec.ny.gov/chemical/114499.html

Submit your questions via email: FoodScrapsLaw@dec.ny.gov



Thank You

Rochester Institute of Technology

111 Lomb Memorial Drive, Bldg. 78-2000 Rochester, NY 14623

Phone: (585) 475-2512

Email: nysp2i@rit.edu

Web: www.rit.edu/affiliate/nysp2i











Funding provided by the State of New York. ©2019 Rochester Institute of Technology. Any opinions, findings, conclusions, or recommendations expressed are those of Rochester Institute of Technology and its NYS Pollution Prevention Institute and do not necessarily reflect the views of New York State.