

# Tackling Food Waste In New Jersey Schools

May 5, 2023

IG: Sustainable\_Jersey | Twitter: @SJ\_Program and @SJ\_Schools | FB: @SustainableJersey | LinkedIn: sustainable-jersey



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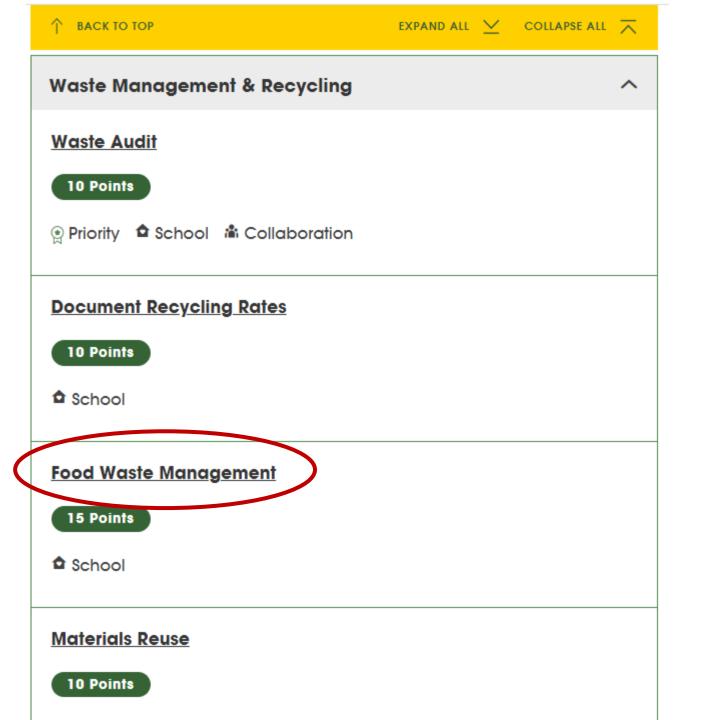
Director of Community Schools, Newton Public Schools

# Agenda

- Introduction Véronique
- Overview of food waste problem and strategies for reducing food waste in schools – Jen
- Leonia's food waste story Julie
- Long Branch: George L. Catrambone School's experience with food waste reduction Kelly
- Newton: Halsted Middle School's experience with food waste reduction – Elysia
- Q&A

**Sustainable** Jersey for Schools Waste Actions

New actions focused on food waste are currently under development – funded by DEP



# Food Waste: Background and School Solutions

Jennifer Shukaitis Assistant Professor Department of Family & Community Health Sciences Rutgers Cooperative Extension

### Background on Food Waste



20 pounds of food per month

### 80 billion pounds each year

Enough-to fill the Empire State Building 1,000 times.

Waste 360 Lets talk Turkey... And Food Waste Beyond the Thanksgiving Table (Retrieved May 13, 2020) <u>https://www.waste360.com/marketing-and-public-relations/let-s-talk-turkey-and-food-waste-beyond-thanksgiving-table/gallery?slide=1</u> How Can We Support Affordable, Nutritious Diets? Reduce Wasted Food USDA (Retrieved May 13, 2020) <u>https://www.usda.gov/media/blog/2015/10/20/how-can-we-support-affordable-nutritious-diets-reduce-wasted-food</u>

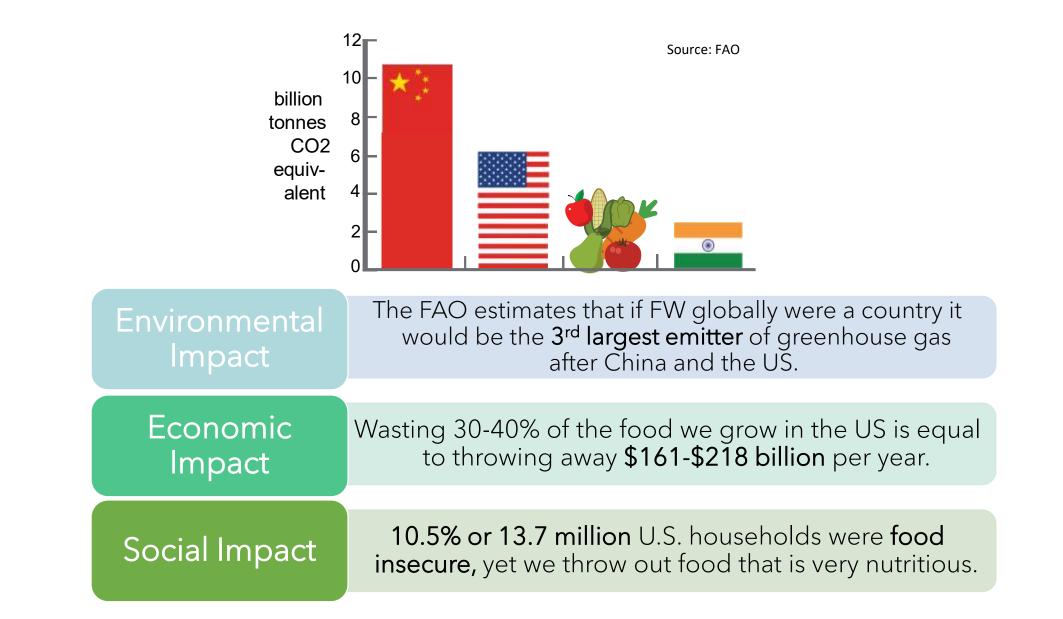
### Where Does Food Loss & Food Waste Happen?

#### \*Percentages calculated collectively for USA, Canada, Australia, and New Zealand. GRAIN PRODUCTS SEAFOOD 11% PRODUCTION 2 **FRUITS & VEGETABLES** 20% LOSSES MEAT 35 MILK GRAIN PRODUCTS POSTHARVEST. SEAFOOD 55 HANDLING AND FRUITS & VEGETABLES STORAGE LOSSES MEAT MILK .25% **GRAIN PRODUCTS** 10% PROCESSING SEAF000 AND PACKAGING FRUITS & VEGETABLES LOSSES MEA: MILK .5% GRAIN PRODUCTS 2% DISTRUBUTION SEAFOOD 9.5% AND RETAIL FRUITS & VEGETABLES 125 LOSSES MEAT 411 MILK 25% **GRAIN PRODUCTS** 27% SEAFOOD a CONSUMER FRUITS & VEGETABLES 28% LOSSES\*\* MEAT 12% \*Includes out-of-home consumption MILK 17% Source: Food and Agriculture Organization 2011

Food and Agriculture Organization of the United Nations-Sustainability Pathways http://www.fao.org/nr/sustainability/food-loss-and-waste/en/

#### NORTH AMERICAN\* FOOD LOSSES AT EACH STEP IN THE SUPPLY CHAIN

### Why Food Waste Matters



### National & State Food Waste Reduction Goals



On September 16, 2015, the first-ever national food loss and waste goal in the United States was launched, calling for a 50% reduction by 2030.



In August 2017, the first Food Waste legislation in New Jersey was passed. Bill S3027 establishes that NJ will reduce its Municipal Solid Food Waste by 50% come 2030

# Focus on: School food waste

### Focus on School Food Waste



#### The State of New Jersey School Food Waste Guidelines



#### **K-12 Schools Edition**

#### November 2019



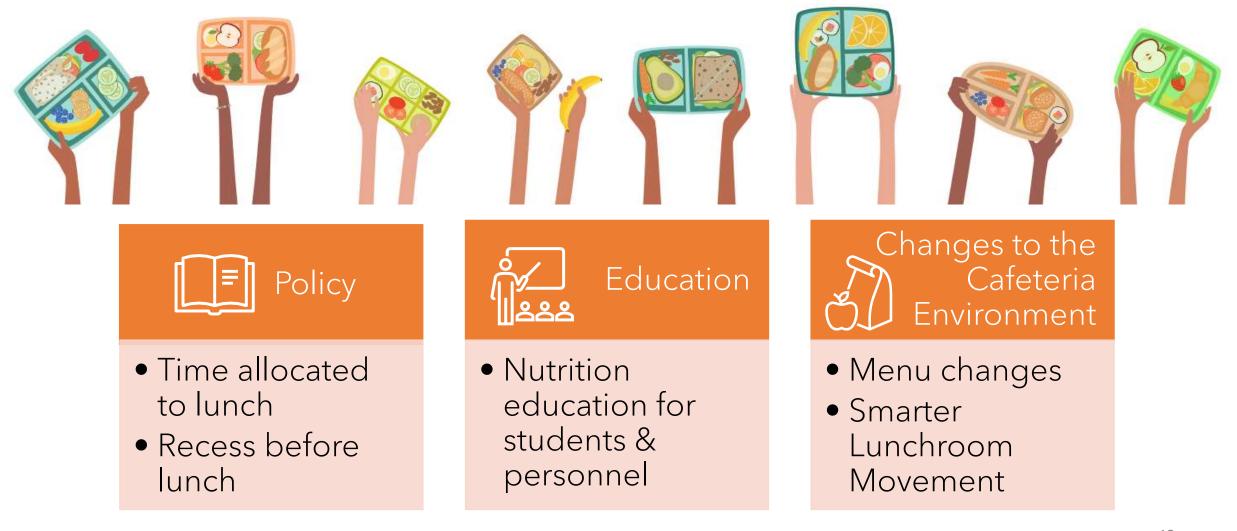
New Jersey Department of Environmental Protection New Jersey Department of Agriculture New Jersey Department of Education New Jersey Department of Health New Jersey Office of the Secretary of Higher Education





# School solutions to food waste

### School Food Waste Literature: Interventions





# School Solutions: Smarter Lunchroom Movement

### Smarter Lunchroom Movement

- The Cornell Behavioral Economics Center researches how behavioral economics influences students' food choices.
- Make healthy choices <u>visible</u>, <u>convenient</u>, and <u>appealing</u> to students
- Students select, eat, and enjoy healthy school food



### Smarter Lunchroom Movement (cont'd)

- In the language of *behavioral economics*, these factors are called *Visibility* and *Convenience*, and they influence consumers' choices of everything from snacks to cars to political candidates.
  - Choices influenced by environment
  - Most choices are so subliminal they seem automatic
  - Very hard to "out-think" this tendency, even if you are aware of it
- Change your environment = change your habits.

Smarter Lunchroom Movement Strategies



#### Focus on Fruit



Vary the Vegetables



Highlight the Salad



Move More White Milk



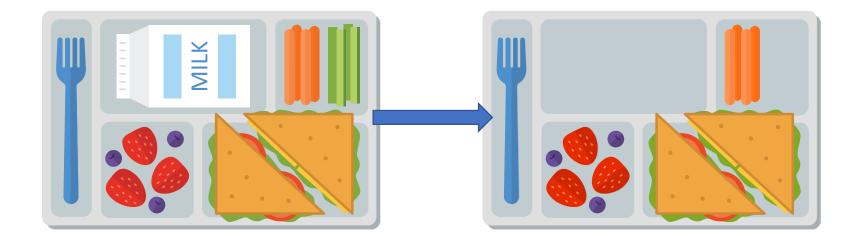
Welcoming Lunchroom Atmosphere



School Solutions: Offer vs. Serve

## USDA's Offer versus Serve Guidelines

- Offer versus Serve (OvS) Guidelines
  - Allows students to DECLINE some of the food offered in a reimbursable lunch or breakfast.
  - Does not affect the unit price for Breakfast or Lunch
- School is reimbursed for a meal if a student takes:
  - 3 or 4 of the 5 food components offered for lunch
  - As long as, there is at least a 1 cup of the fruit or vegetable component.





School Solutions: Share Tables

### Share Tables

- Designated place in cafeteria where students place uneaten food
- Share Table food may be used to address the second most desirable way to reduce food waste (feed hungry people) by re-using food in schools OR donating outside the school



# Share Tables

- Only non-perishable, pre-packaged foods are allowed on share tables.
- Fruits and Vegetables that are wrapped or have a thick skin are allowed
- Milk, cheese, cut fruit and any other temperature-controlled foods need to be put in an ice bath or refrigerator.



### Food Waste Legislation

- Laws protect those who donate food in good faith
- Federal and State laws exist to protect and encourage food donations
  - Good Samaritan Act
  - New Jersey food waste legislation





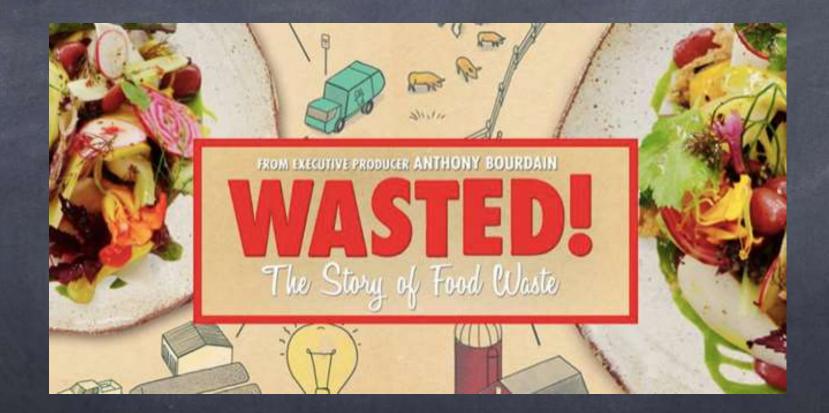
### Summary

- We throw out 30% 40% of the food that is produced in this country
- Food waste has implications for food security and the environment
- Schools can address food waste in their cafeterias
- Potential school solutions:
  - Education for students & personnel
  - Increase time for lunch
  - Have recess before lunch
  - Smarter Lunchroom Strategies
  - Offer vs. Serve
  - Share Tables

# Sustainability in the Leonia Public School District

Julie E. Ulbrich 5/5/23

## Hometown Hero: Anthony Bourdain



10 bags of garbage to 2 bags daily!



WE DID IT!



10 bags of cafeteria waste a day to only 2! How? The Green Team's food waste dehydrator and recycling initiatives.

#### Composting Food Waste in the Cafeteria

Over 100 pounds of food waste is separated by the children and dehydrated into compost every day. Compost is used to nourish the plants on our school grounds.

#### Recycling Milk & Juice Cartons

Children separate milk and juice cartons from the trash at funch and add them to the paper recycling stream.

#### Paper Lunch Trays Instead of Styrofoam

Dirty paper trays are composted and clean paper trays are added to the paper recycling stream.

#### **Check out ZeroWasteLeonia.org to learn more!**

Join us in celebrating Earth Day

#### Friday, April 21, 2023 at Dismissal - All ACS and LMS Exits

The Leonia District Green Team and Leonia Shade Tree Commission will be handing out FREE bags of cafeteria compost and FREE tree saplings!



# Food Waste Separation





# Simpler separation = quicker lines



# EcoVim and Biomass



# food for school





Earth Day Tree sapling and biomass distribution community





### George I. Catrambone Elementary school Long Branch Public Schools Long branch, nj





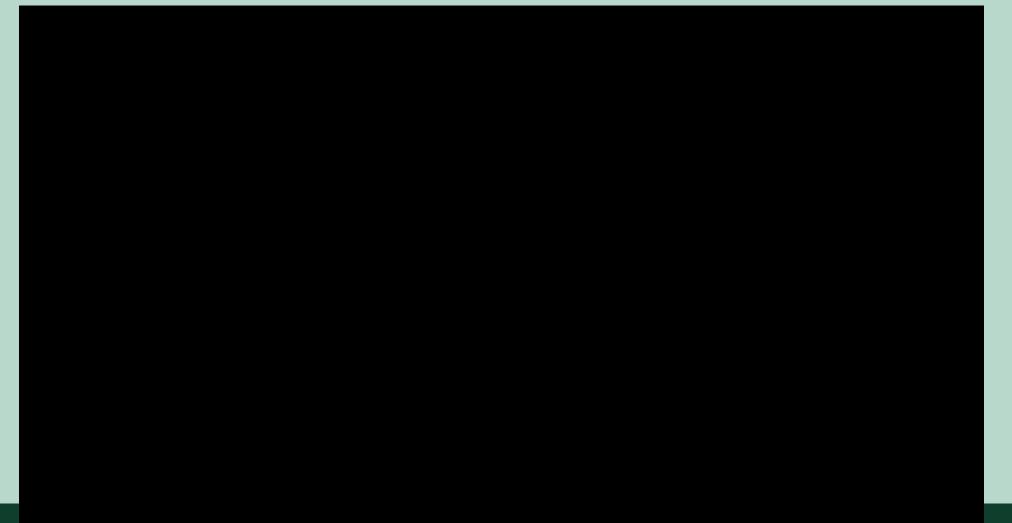
### **Our Journey Food Waste to Compost**





### Long Branch Public Schools

"Together We Can, Juntos Nós Podemos, Juntos Podemos"





"Together We Can, Juntos Nós Podemos, Juntos Podemos"

### **GLC Waste Warriors**













































# Newton Public Schools and Food Waste Reduction with our Community

Elysia Caraballo, Director of Community Schools

# Food Waste Reduction and the Students

Our Food Waste Warriors created a video on the importance of food waste reduction and how they could help.



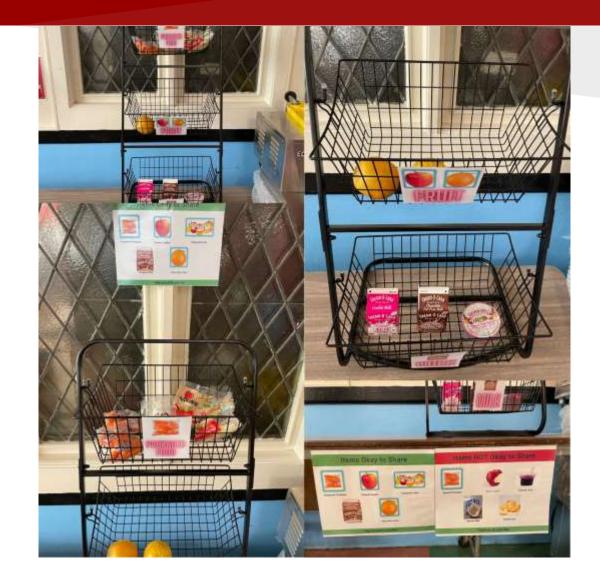


- Students know that if they take a vegetable or fruit they do not need to take milk
- Milk was the most
  wasted product in our
  cafeteria

# Food Waste Reduction and the Students

# **Share Table**

- Run by students, monitored by staff
- Custodians refrigerate any leftovers
- After School students distribute during the after school program



# Family Involvement



- Our food waste efforts were shared with families in our district newsletter including how the Share Table functions
- We are also in the process of working with the Town of Newton to educate families on food waste at home

# Staff Involvement

# Garden Maintenance

- Students demonstrated for staff how to use the food compost in the school gardens
- Then everyone worked together to prepare the rain garden for the spring
- After the garden demonstration a compost sign up was created for staff





# Community Involvement

- We partnered with the Sussex County Hunger Coalition and Local Share to bring the food waste experience full circle
- Students at the middle school participated in a gleaning at Circle Brook Farms in Andover, NJ



# Community Involvement



- The harvested eggplant was brought to a free pop up produce market and the SNAP nutrition educator provided families with eggplant recipes.
- We have another gleaning and market for August

# **Community Partnership**



#### **Ag Choice-Capsule Connections Program**

Students with special needs in our high school transition program work with AgChoice. AgChoice is commercial food waste composter. They offer a variety of jobs that help students with transferable skills, fine motor skills, teamwork, independence and responsibility, organization and sorting, communication, problem-solving to achieve goals that will not only help the environment, but could prepare them for their future career. Ag Choice is also partnering with the Town of Newton on town wide food composting through a Department of Agriculture Grant.

#### Sustainable Jersey for Schools program actions: <u>https://www.sustainablejerseyschools.com/actions/</u>

Actions related to food waste reduction:

- Waste Audit
- Food Waste Management (Composting)
- <u>Recycling Non-Mandated Materials</u> (e.g. juice pouches, chip bags)
- Healthy Food Choices Beyond the Cafeteria
- Promote Locally Grown Foods
- <u>School Gardens</u>

Sustainable Jersey municipal program actions: <a href="https://www.sustainablejersey.com/actions/">https://www.sustainablejersey.com/actions/</a>

### **Rutgers Resources:**

- Rutgers Food Waste at Schools webpage: <u>https://sites.rutgers.edu/food-waste/food-waste-at-schools/</u>
- School Food Waste Reduction Toolkit: <u>https://njaes.rutgers.edu/school-food-waste/food-waste-summit-toolkit.pdf</u>
- Rutgers guidance on share tables: <u>https://njaes.rutgers.edu/fs1352/</u>

### **Upcoming Events and Opportunities**

#### FREE ENERGY TECHNICAL ASSISTANCE FOR SCHOOLS AND MUNICIPALITIES IN ELIZABETHTOWN GAS, NEW JERSEY NATURAL GAS, AND SOUTH JERSEY GAS SERVICE TERRITORIES

Free technical assistance to identify and apply for utility incentives and New Jersey's Clean Energy Program (NJCEP) incentives for energy efficiency audits and facility upgrades. This technical assistance is funded by Elizabethtown Gas, New Jersey Natural Gas, and South Jersey Gas.

For more information please visit: <u>bit.ly/EnergyTAforMunisandSchools</u>

#### 2023 MUNICIPAL CERTIFICATION CYCLE

The next deadline to apply for certification is **May 12, 2023**. The final application deadline is **July 27, 2023**. View the full cycle timeline on the 2023 Certification Cycle page.

For more information please visit: <a href="https://www.bit.ly/MuniCertCycle">bit.ly/MuniCertCycle</a>

#### 2023 SUSTAINABLE COMMUNITIES GRANT PROGRAM

Atlantic City Electric and Sustainable Jersey are pleased to offer **\$50,000** to support municipal environmental stewardship and resiliency projects in Atlantic City Electric's service territory. Municipalities are encouraged to work with local organizations on applications, which are due **June 29, 2023**. An informational webinar will be held on **May 15, 2023 from 1:00pm - 2:00pm**.

For more information please visit: http://www.bit.ly/SustainableCommunitiesGrantProgram

#### TRI-COUNTY SUSTAINABILITY GENERAL MEETINGS

This Sustainable Jersey Regional Hub will host virtual meetings on a variety of sustainability topics throughout the year. The next meeting is **May 31, 2023 from 7:00pm - 8:00pm**.

For more information please visit: http://www.bit.ly/Tri-CountySustainability

#### 2023 SCHOOL CERTIFICATION CYCLE

The final deadline to apply for certification and Digital Schools Star Recognition is **June 15, 2023**. View the full cycle timeline on the 2023 Certification Cycle page.

For more information please visit: http://www.bit.ly/SchoolsCertCycle

#### TREES FOR SCHOOLS PROGRAM, TREE-PLANTING GRANTS FOR NJ PUBLIC SCHOOLS, COLLEGES AND UNIVERSITIES

The Trees for Schools program will provide **\$2.5 million** in grants to New Jersey public school districts, county colleges and state colleges and universities to fund the planting of trees on campuses across New Jersey. Competitive grants of **\$10,000 to \$500,000** will fund costs associated with planning, site preparation, trees, planting, watering, monitoring and related expenses over a three-year period. Applications are due on **July 13, 2023**, for spring 2024 plantings. An informational webinar will be held on **May 18, 2023 from 3:00pm - 4:30pm**. The Trees for Schools program is a collaboration of the New Jersey Department of Environmental Protection, The College of New Jersey and Sustainable Jersey.

For more information please visit: <u>bit.ly/TreesforSchools</u>

### **Sustainable Jersey Underwriters and Sponsors**



\*Digital Schools Sponsor



# Thank You

Session slides will be available on sustainablejersey.com by 5/12.

# SUSTAINABILITY SUSTAINABILITY

