EPA Region 2 Sustainable Schools Webinar Series

Reducing Waste in Schools

Reducing Waste in Schools: Cafeteria Waste Stations

We'll take a look at what 3 innovative school cafeterias in NYC are doing to minimize waste



NYC Kids stacking polystyrene trays

PANELISTS



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New York, New Jersey, Puerto Rico, & USVI



ALISON HAZUT PRINCIPAL

THE EARTH SCHOOL

In East Village, Manhattan 347 Students



MATTHEW SHEEHAN SUSTAINBILITY COORDINATOR

BROOKLYN NEW SCHOOL

In Carroll Gardens, Brooklyn 347 Students



JOHANNA ESTERAS PARAPROFESSIONAL



PAMELA SCOTT SUSTAINBILITY COORDINATOR

IS 52

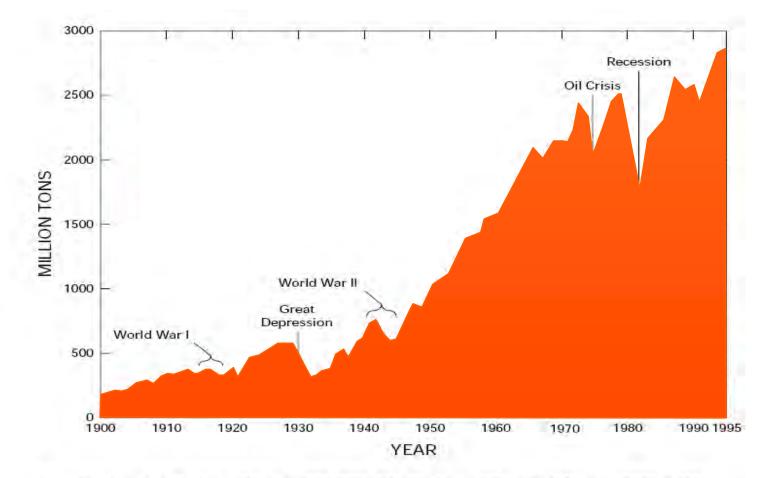
In Inwood, Manhattan 780 Students



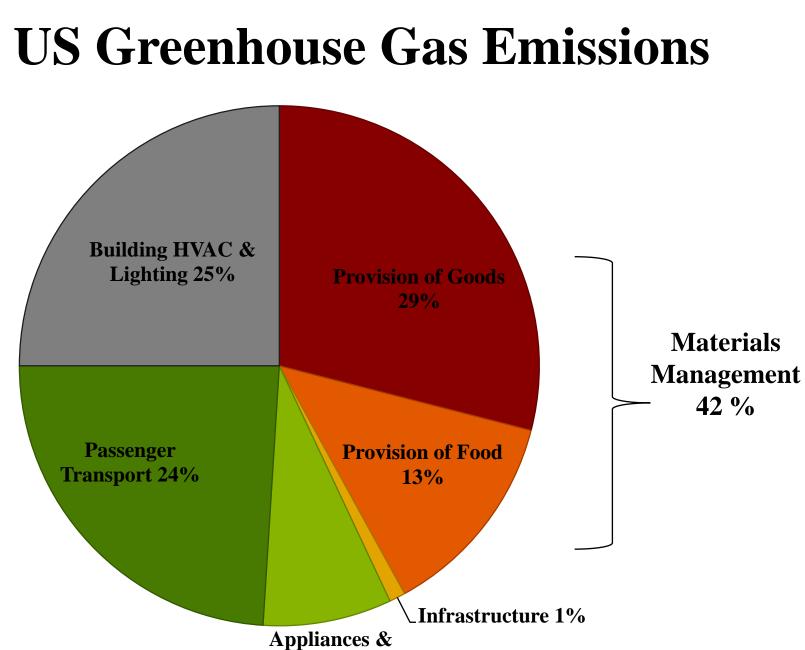
Sustainable Materials Management

Rachel Chaput, US EPA Region 2

Materials Use in the United States



Use of materials in the United States, 1900-1995. Modified from Matos and Wagner, 1998, p. 110.



Devices 8%

39 million cars off the road

22 million homes heated/ year

50 power plants avoided

400 million barrels of oil conserved

Impacts from Recycling Rate (33%)

www.epa.gov/wastewise



http://www.epa.gov/epawaste/partnerships/wastewise/index,htm Print As-Is

Last updated on Thursday, April 19, 2012

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EPA Disclaimer

Notice

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Video "How to Reduce Cafeteria Waste"

Filmed and edited by Atsuko Quirk, a videographer and parent at the Earth School who runs the school's nutrition committee.

Please follow our link to: http://vimeo.com/41960276



Video "How to Reduce Cafeteria Waste"

A little organization can make a big difference!





Waste Station Set-up

The Earth School



A table for stacking trays,
Blue recycling bin with a cut-out lid,
A slop bucket with a strainer (placed on top of a milk crate for the perfect height)



LESSONS LEARNED!

- We failed without having monitors at the beginning, trays were all falling!
- We started with 2 stations, which was hard to control, and created more work for custodians.
- -Having one station is much easier to manage.

Video "How to Reduce Cafeteria Waste"

A little organization can make a big difference!



Part 2: Brooklyn New School

Waste Station Set-up

Brooklyn New School



1 tray stacking tower, (hand-made!),3 grey g1 orange slop bucket with a colander,1 can for(both are on a low table - gives a perfect height),1 green compost bucket,1 grey bin with green cut-out lid for paper and cardboard

3 grey **garbage bins**, **1 can** for juice pouches (kid-designed!)

1 blue recycling bin with a lid,



LESSONS LEARNED!

- Students put garbage into recycling bins without the cut-out lids
- The cut-out lids with color and big letters helped students put things in the right bin.

Video "How to Reduce Cafeteria Waste"

A little organization can make a big difference!



Part 3: IS 52

Waste Station Set-up



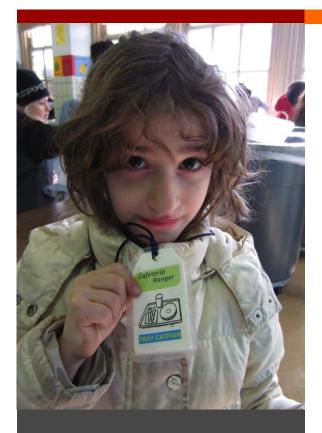


table for stacking trays,
 slop bucket,
 grey bin for milk cartons,

4 grey garbage bins1 table for the slop bucket,1 blue can for cans and bottles



Student Monitoring System Getting students involved is a key to success!



The Earth School "Cafeteria Ranger" system

- 13 positions in each lunch period
- Each class will have 1 turn of 4 weeks in a year
- Weekly or biweekly shift
- 3rd to 5th grade classes have a management position on top of the 13, to carry the list of the monitors, distribute gloves, and check if all the supplies are there.
- The monitors need to finish eating 3 to 4 minutes earlier than other students. The teachers send kids to the cafeteria right on time to let them be the first on the service line.

LESSONS LEARNED!

We had 2 monitors from each class last school year, but it was hard to keep track of who is on duty. Letting one whole class be in charge as a team works much better. Students find their own ways to help each other, and develop a sense of responsibility.



Brooklyn New School Lunch Monitor

- 3 students in one of the 3rd to 5th grade classes for the entire 2 lunch periods (they miss recess)
- Each class will have 1 or 2 turns of 2 weeks in a school year
- **7** Daily shift
- **3** monitors take care of:
- organizing stacking,
- cutting and cleaning all the juice pouches,
- checking contaminations of garbage and the recycling bin,
- taking the compost out to their composting site.



IS 52 Recycling Club

- 8th grade recycling club members monitor 6th and 7th graders periodically
- The hours of monitoring at the cafeteria for the recycling club students are counted as community service hours
- Mr. Benitez (the school's Dean) observes and guides the procedure everyday with all the grades at the cafeteria

Time Management

Do students need to add extra time for stacking and recycling?

Lunch Time Schedule & number of students in the cafeteria

	The Earth School	Brooklyn New School	IS52 (no out to lunch in all grades)
Period 1	12:00 – 12:25 3 rd , 4 th and 5 th graders 140 students	11:30 – 12:00 2 nd through 5 th graders 380 students	10:25 – 11:05 6 th graders 240 students
Period 2	12:25 – 12:50 1 st and 2 nd graders 90 students	12:00 – 12:30 K and 1 st graders 120 students	11:10 – 11:55 7 th graders 240 students
Period 3	Pre-K & K classes eat lunch in the classroom		12:00 – 12:45 8 th graders 230 students

Training Students

The Earth School



- Lunch lesson in the cafeteria to go over the procedure
- Town meeting to talk about "why recycle?"
- Morning meetings in the classroom for rangers

Brooklyn New School



- Lunch training for kindergarteners in the beginning of the school year
- Monitor training for 3rd graders
- Train monitors while they are on the job

IS 52



- 8th grade recycling club members monitor 6th and 7th graders
- The school Dean goes through the procedure everyday with all the grades at the cafeteria

Training Teachers and Staff

The Earth School

- Lunch lessons, town meetings, and classroom meetings are all teaching kids and adults at the same time
- Recycling reminder e-mails of recycling procedure from the principal
- Staff meeting

LESSONS LEARNED

 Training adults took some work at the beginning, on top of e-mails and staff meetings, talking to them in person was helpful for some staff.

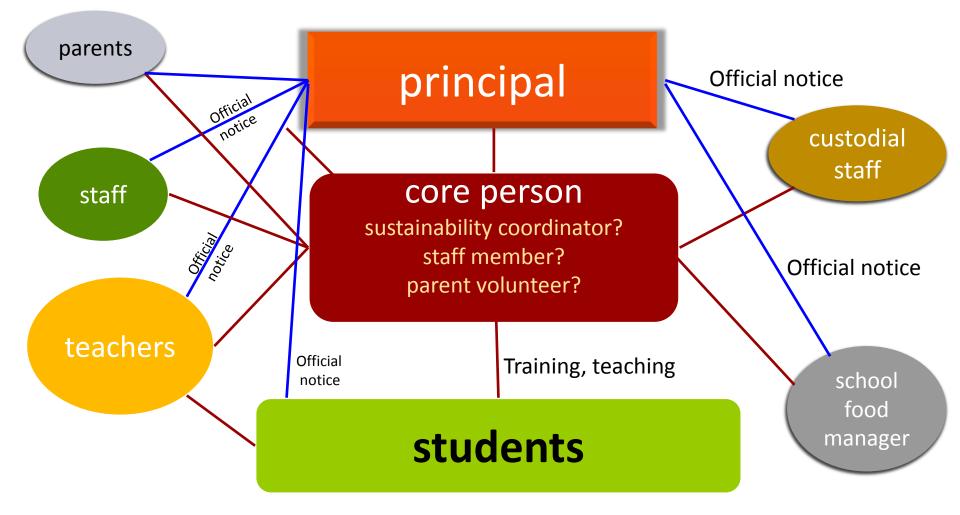
Brooklyn New School

No specific training is done

IS 52

- Recycling has been the school's philosophy since the 80's.
- Reminder about recycling at staff meetings

Communication



What's challenging?

BEING CONSISTENT!

REINFORCE! REINFORCE! REINFORCE!

NOT ENOUGH TIME!



Key Elements

Flip, Tap and Stack



Reduce the number of garbage bags we use

Carton Recycling



Reduce the weight and the volume of the garbage, Save trees by recycling

Number of garbage bags



Before

stacking trays and recycling

and recycling



After stacking trays a day

4 bags a day

6 bags a day

Benefits



Cost savings for garbage bags

39 cents a bag x 20 bags a day, 100 bags a week = \$39 a week! Imagine if all 1300 school buildings in NYC can save that amount!

Saving work hours for custodial staff

Less changing bags, fewer bags to carry

Fewer plasticLess idlingbags going totime forlandfillstrucks

AND MORE

Students take home the practice, make a connection to help the environment!

Steps

Observation of the current situation

(#of bags, bins, operation, etc.)

Principal approval, let him/her appoint a core person, talk to custodians, establish a **monitoring system**,

Get supplies, make signs,

decide the waste station set-up layout

Announcement to teachers staff and custodians,

training students.

First day, remind the monitors about the job,

Announcement at the cafeteria

Related Links



Link to the video "How to Reduce Cafeteria Waste" http://www.cafeteriawastereduction.com



"Carton Recycling in Schools" by The Carton Council <u>http://www.recyclecartons.com/resources</u> /schools_updated.pdf



About "Trayless Tuesdays" in NYC public schools http://schools.nyc.gov/Offices/mediarelation s/NewsandSpeeches/2009-2010/trayless031610.htm



Recycling juice pouches by TerraCycle <u>http://www.terracycle.net/en-US/how-</u> terracycle-works.html



EPA Eco Student Blog "Trayless Tuesdays" http://blog.epa.gov/students/2012/02/tra yless-tuesdays-in-nyc-schools-inspired-bya-7-year-old/



How to order sugar cane (bagasse) trays in NYC public schools

http://www.cafeteriaculture.org/trays-toorder.html



DSNY Info For Schools

www.nyc.gov/wasteless/schools



DSNY Golden Apple Awards www.nyc.gov/wasteless/goldenapple

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