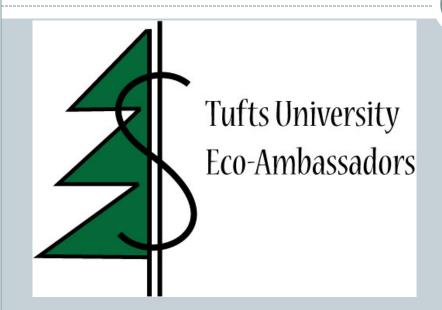
Celebrating Environmental Action at Tufts

STUDENTS AND STAFF MAKING A DIFFERENCE

Agenda

- 12:00 Lunch buffet
- 12:15 Welcome
- 12:25 Larry Bacow
- **12:30** Remembrance of Eco-Ambassador Susan Storm
- 12:35 Student Projects
- **1:00** Eco-Ambassador Projects
- 1:45 Group pictures

Welcome



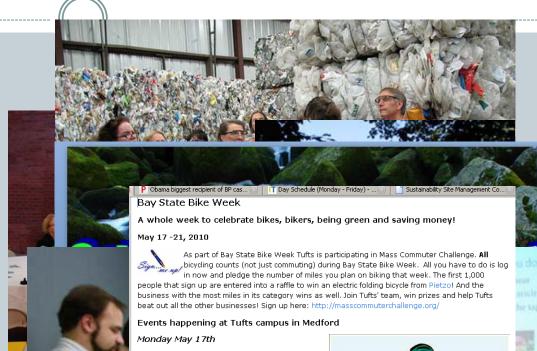
EXP-0046-S: Environmental Action: Shifting from Saying to Doing

1.0 credit, Letter-graded, Call#03937 Tuesday, 6:00-8:30 PM, Braker 226



Eco-Ambassadors 2009-2010

- Recycling
- Green Events
- Energy
- Social Marketing
- Green Purchasing
- Water
- Commuting



Going green just got easier.

Click to see some of the many eco-friendly products available.



Sign Up

Bay State Bike Week Kickoff breakfast Campus Center Lower Patio 8-10 AM (also on Monday)

Get to know fellow bikers over coffee and doughnuts. Register for the Mass Commuter Challenge. FREE bike check-ups!

Tufts University Police Department will also be on hand to help you register your bike at Tufts, a practice that helps prevent theft.

Commuting Safely Tuesday May 18th Time and Location TBD



We are what we repeatedly do. Excellence, therefore, is not an act but a habit.

Aristotle

In Remembrance



Student Initiatives

designsmartfortufts

tufts goes trayless

pilot program MARCH 28-APRIL 29

Trayless Dining

• Exp 46: Environmental Action: Shifting from Saying to Doing. Fall 2009

- Research
- Promotion
- Strategy
- Design Smart for Tufts. Spring 2010
 - Collaboration
 - Trial
 - Data Collection
 - Report poster presentation

Simple and Smart Designs Save: Dining Hall Trays Affect Energy Consumption

Callie Kolbe,¹ Alex Freedman,¹ Alice Pang,¹ Frances Wilburn,¹ Alex Shapiro,¹ Tina Woolston,² Dallase Scott,² Negin R. Toosi,¹ Patti Klos,³ Robyn Gittleman⁴

College of Arts and Science,¹ Office of Sustainability,² Dining Services,³ and Experimental College⁴ at Tufts University

Rationale

• In 2009:

- Carmichael Dining produced 24.28 tons of food waste
- Used 365,520 KWH of electricity
- Consumed 450 gallons of water per day for dishwashing

• Trayless dining initiatives at other universities have:

- lowered resource consumption rates
- Increased student awareness of environmental issues

Collaboration

• Dining

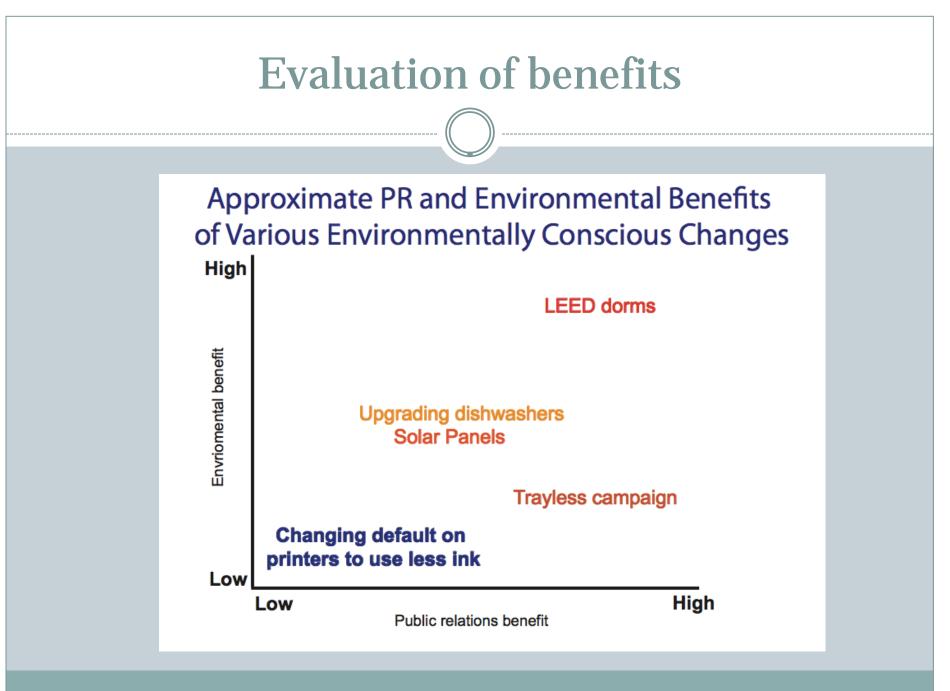
- **o** Dave Kelly
- o Rob Stefanik
- Peter Kourafalos
- o Norman Yee
- Patty Klos
- TUDS staff
- Energy Manager
 - o Betsy Isenstein

• Students

- o Tufts Mountain Club
- o Jumbo Janitors Alliance
- TCU Senate
- Exp 46 Class

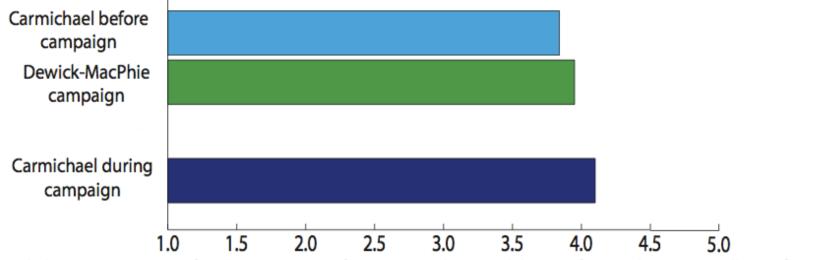
Trial

- Two weeks march 28 April 9
- Energy consumption and food waste evaluated weekly
- Patron counts recorded
- Student perceptions surveyed



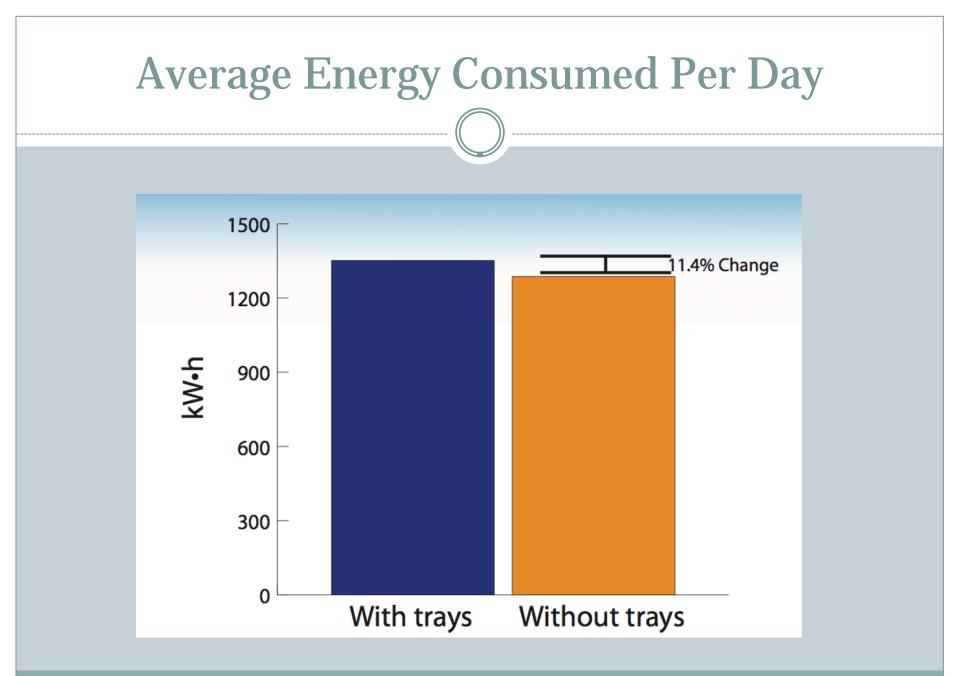
Attitudes

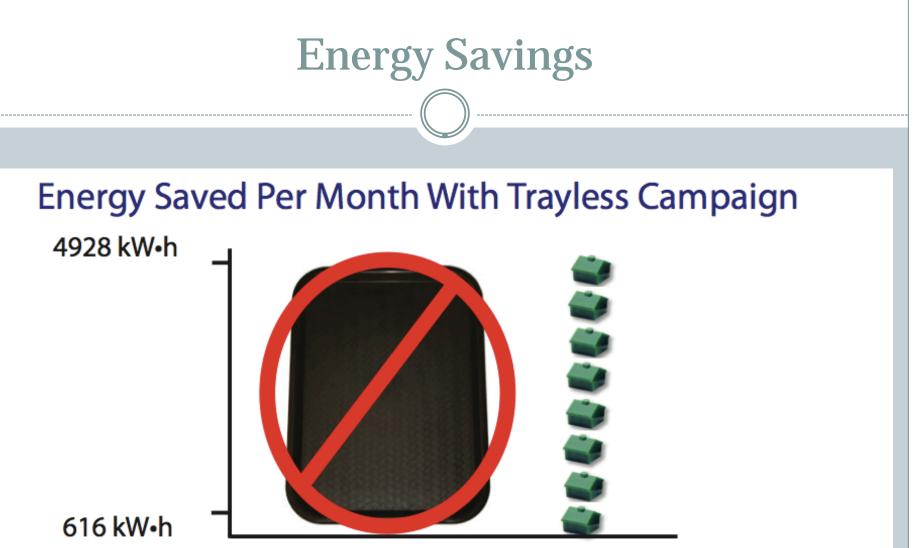
Question: Is Tufts Environmentally Friendly?



Graph showing comparison of student perception of environmental responsibility at Tufts. Trends are marginally significant between Carmichael before and during and Carmichael before and Dewick-MacPhie during, t(161)=2.32, p=.02 and t(198)=1.73, p=.09 respectively.







In one month the energy saved by trayless dining could power the average home in MA for 8 months. (Avg. home in MA requires 616 KwH). (DoE)

Challenges

- Administrative vs. Academic schedules
- Time constraints
- Source of energy for hot water
- Precision
- Water metering
- Deliberate skewing of data

Student Initiatives

Exp. 46 Environmental Action: Shifting from Saying to Doing

Zero Waste Challenge

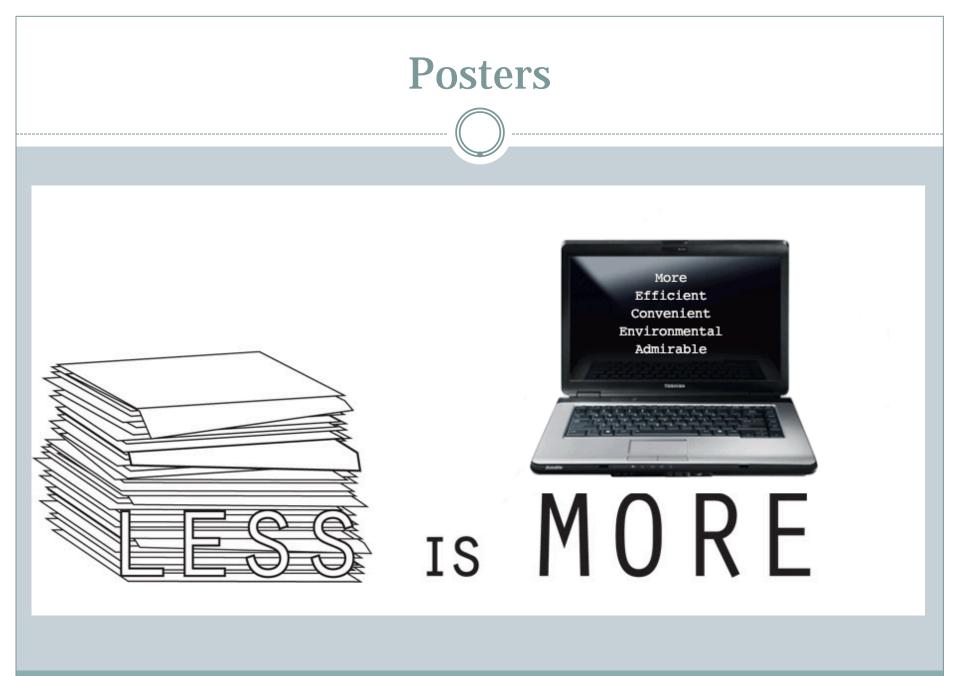


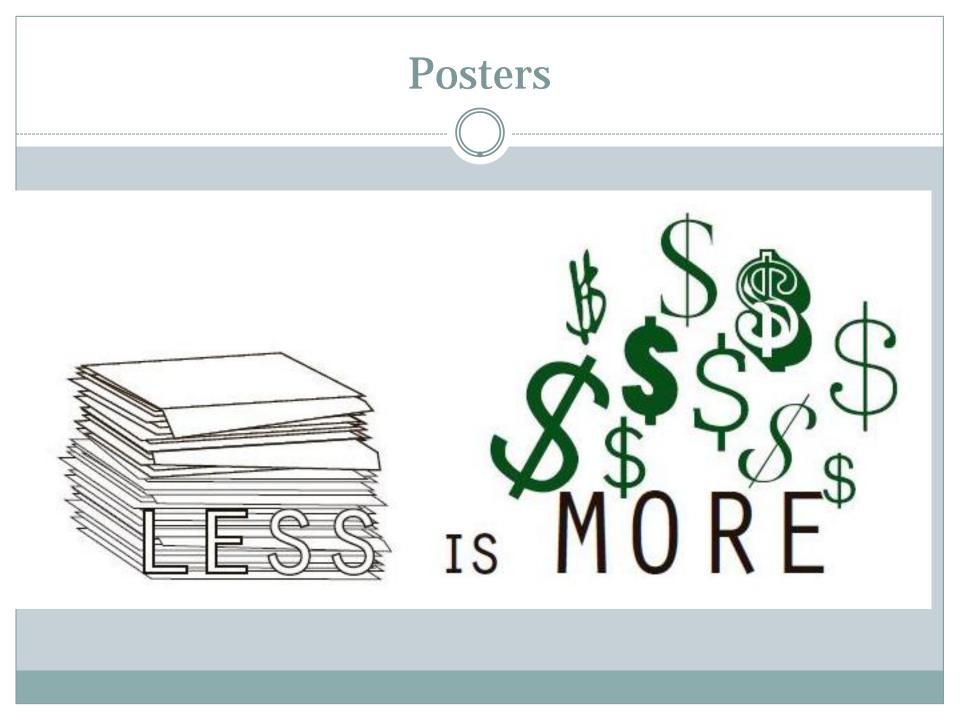
Paper Campaign

• **Campaign mission:** To reduce paper use at Tufts.

Campaign objectives:

- To set printers in major printing centers to default double sided.
- To encourage professors to accept and grade assignments electronically or to request doublesided printing.





On-line Pledge

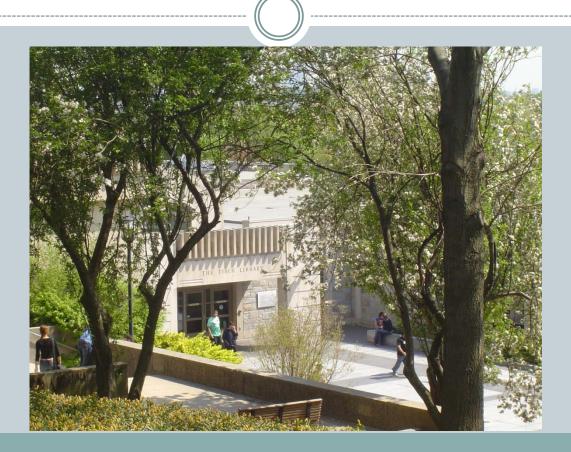
| r Pledge |
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| ble-sided. |
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| my course syllabi. |
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Unless someone like you cares a whole awful lot, nothing is going to get better.

It's not.



The Tisch Library Sustainability Team Jess Warner, Laurie Sabol, Kris Thompson & Connie Reik



B.Y.O.P Bring Your Own Place Setting

- We have encouraged staff to B.Y.O.P to all work events!
- Participation has steadily increased.
- Staff went from reusing plastic forks to bringing actual utensils, plates and mugs!

H20

After many meetings, tastings, e-mails, blood, sweat & tears...

• Bottled Poland Springs water will be replaced with filtered tap this spring.

• We will continue to display signage encouraging reusable beverage containers at all dispensers.

Compost Bin

Downhill location



- Tisch Library is now host to the 2nd Community Compost Bin on campus!
- It is located on the loading dock at the back of the Library.
- TST members follow a monthly schedule for bin maintenance and weekly consolidation of our smaller kitchen bucket.

Earth Day Celebration Spring Event

- Our work inspired the Tisch Special Events Team to celebrate Earth Day as our Spring Event!
- TST conducted a recycling survey of staff and presented it at the event.
- We also gave a presentation on Recycling Myths and organized an Eco-Challenge with full participation.

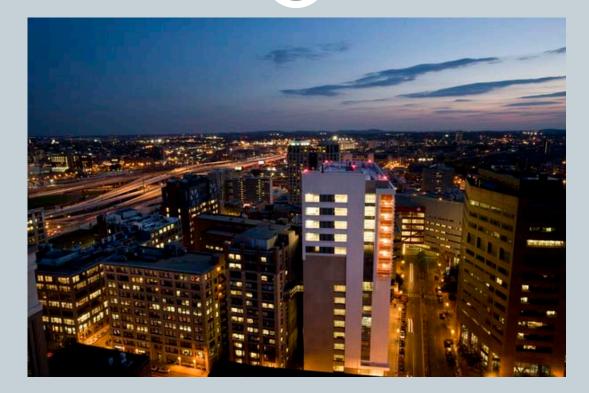
Created a Wiki Page

to post info, updates, and green recommendations for Staff

https://wikis.uit.tufts.edu/confluence/display /sustain/home



Boston Campus



LIC HEALTH NUTRION HIRSH HEALTH SCIENCES LIBRARY RUBIOLOGY ORTHOPEDICS BIO **IISTRY HEALTH COMMUNICATION** RCH EVIDENCE-BASED

 $\begin{array}{l} LEED \ Silver \ Certification \ in \ progress \ for \ Sackler \\ Center - 4^{th} \ floor \ renovated \ 2008 \end{array}$



Rapidly renewable bamboo

Lights automatically react to brightness levels in the room

glue!

Modular carpeting – no

Natural linoleum – Linseed oil and wood flour or cork dust











Your rigid plastic plates and utensils can be recycled at Tufts!

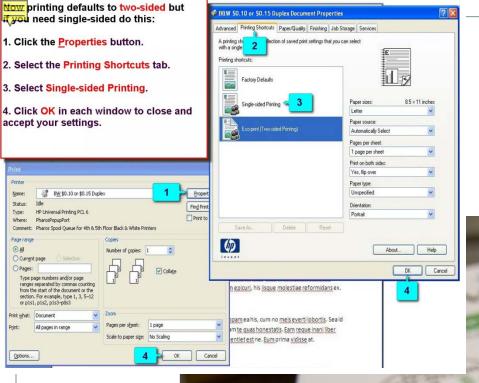
Clear extra food from your plate into the trash and then toss your plastic fork, knife, spoon, and plate into the plastic/glass/metal recycling bins. Every piece matters!











21 448

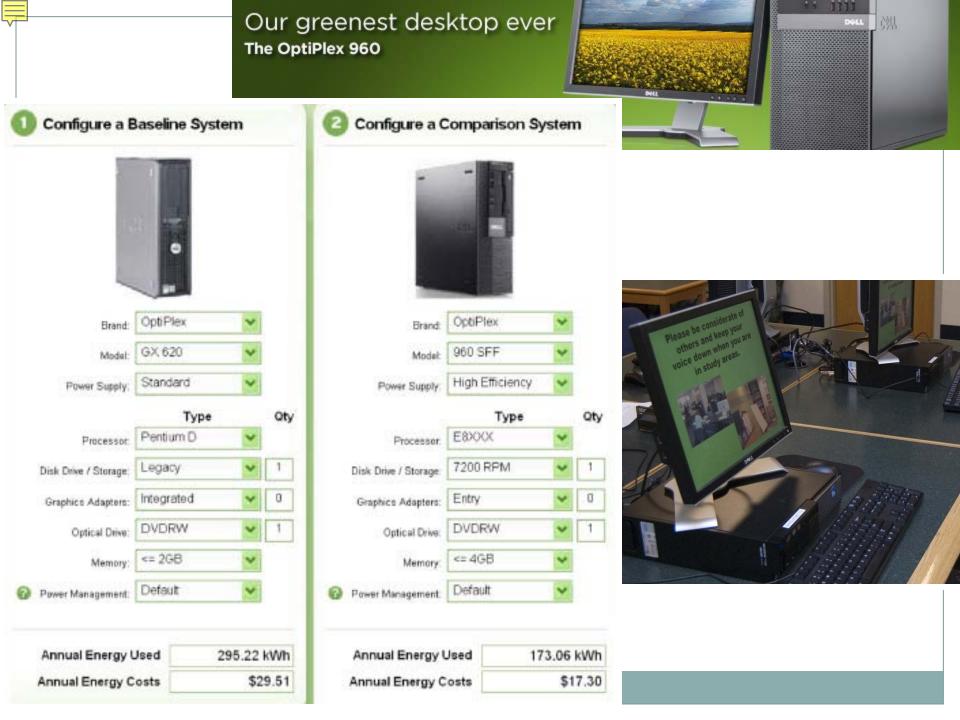


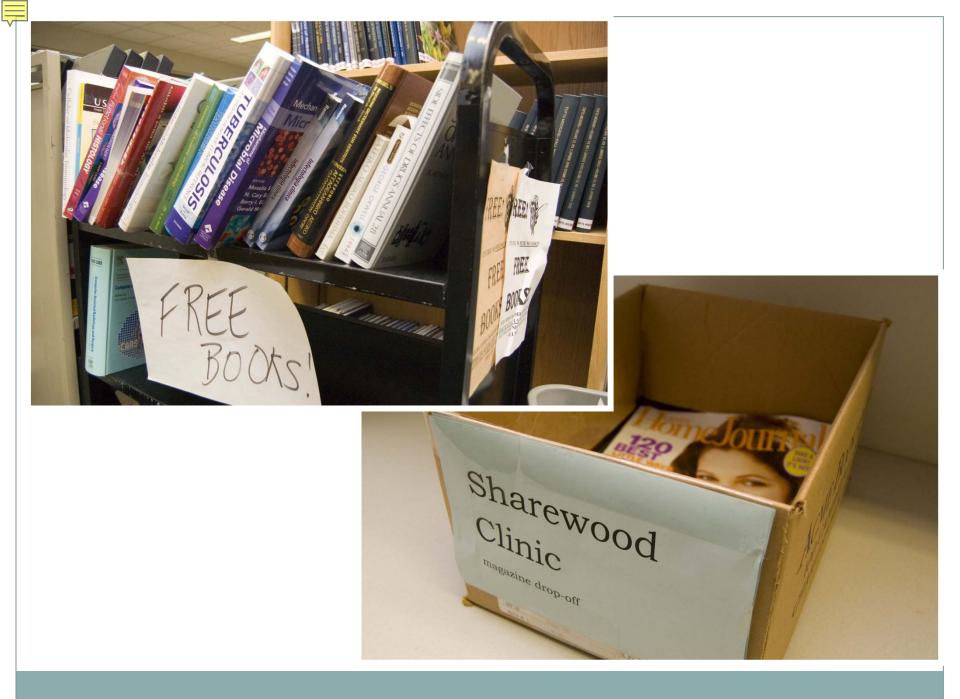
ADVANCED FORMULA 30% POST-CONSUMER CONTENT

SUPER WHITE WHITENESS CIE 159 BRIGHTNESS GE 95

COPIER LASER INKJET









PS Bottled Water vs PS Filtered Water vs Multi-Pure Filtered Water









Dishes with everything needed to wash and dry them

Reusable "My K-Cup" coffee filter for individual-serving coffee makers

Coffee from an eco-conscious New England company

Grafton Campus Recycling Awareness Project

This display was created to show members of the community what can be recycled at Tufts





Grafton Campus

- Recycling survey in 17 buildings
- Assigned staff to monitor the energy use in Admin bldg and "turn off" as needed
- Attractive display of recyclable items in Admin bldg
- Green Event for new students (Admissions)
- Encouraged greener practices in the Cafeteria
- Worked with Facilities to improve energy efficiency in Wildlife Bldg



Tufts Veterinary Emergency and Treatment Specialties going Green



New 15,000-ft² pet health care center.

525 South Street Walpole MA

Tufts V.E.T.S.

- Improved sorting of recyclables with additional bins
- Re-negotiated waste disposal contract to include recycling (\$860.00 annual savings)
- Corrected undersized hot water coil in heating system
- Improved efficiency of heating with less fuel
- Propane savings YTD 2010 vs. 2009 = \$14,600.00

"I long to accomplish great and noble tasks, but it is my chief duty to accomplish humble tasks as though they were great and noble. The world is moved along, not only by the mighty shoves of its heroes, but also by the aggregate of the tiny pushes of each honest worker."

Helen Keller



Thank you Eco-Ambassadors!



Guided tour of LEED Gold East Hall, WPI Recycling plant tour – auburn! Wind turbine tour