



# Report to Faculty Senate 1/20/2011

Julio Stephens

SustainABILITY Coordinator

[wrstephe@radford.edu](mailto:wrstephe@radford.edu)

X7206

[www.radford.edu/rugreen](http://www.radford.edu/rugreen)



RU sustainABILITY



# sustainABILITY

- “meeting the needs of the present without compromising the ability of future generations to meet their own needs”
- Long range view, environmentally friendly, or being “greener”
- Equity, Environment, & Economy
- We all have the ABILITY to make a difference



# RU Administration

- Board of Visitors- Sustainability Resolution 11/2009
- Presidents' Climate Commitment Signatory
  - Commit to being carbon neutral
  - GHG Inventory, Climate Action Plan
  - Almost 700 universities & colleges
- SustainABILITY Steering Committee
  - Working Groups (Operations, Purchasing, etc.)
  - Ideas for Policies, Procedures, & Actions







# Curriculum

- Working Group
  - University 100, Related Course Listing
  - Certificate- Sustainability & Environmental Studies
- Research
  - Transportation, Green Space, Carbon Sequestration, etc.
  - Geography, Sociology (Ctr Social & Cultural Res), Biology, Academic Engagement & Comm. Part.



# Energy & Water

- Conservation-
  - Occ./CO2 Sensors, retrofits-T8s & LED exit signs, Shower Head/Aerators, Vending Misers
  - YHTA!- simple, practical tips to make better decisions
- Management-
  - Energy Star, BAS setbacks, cycling, ice storage, load shedding





# Energy & Water

- Campus Conservation Nationals 2010-
  - Energy & Water Reduction, over 40 campuses
  - November 1<sup>st</sup> – 19<sup>th</sup>
  - Commitment Pledges/ Prizes
  - Electricity- Trinkle 32% reduction
  - Water- Pocahontas 8% reduction
  - Saved over 50,000 kWh & over 60,000 lbs of CO<sub>2</sub>





## Buildings

- LEED-Silver minimum for new & remodeled
- Energy Star-
  - Product purchases (computers, vending, etc.)
  - Buildings- 30% more efficient & 30% less GHGs
  - Floyd & Norwood certified & 4 more submitted
- Paper Purchases- 30% recycled content
- Green Seal-Certified Cleaning Products-
  - All Res. Halls & Academic Bldgs



## Dining Services

- Dining-
  - Trayless Dining
  - Composting- Fall '09- over 700 lbs /day
  - MSC-certified seafood
  - Cage-free eggs
  - Growth hormone-free milk
  - 20% local purchases
  - Discount on reusable mugs







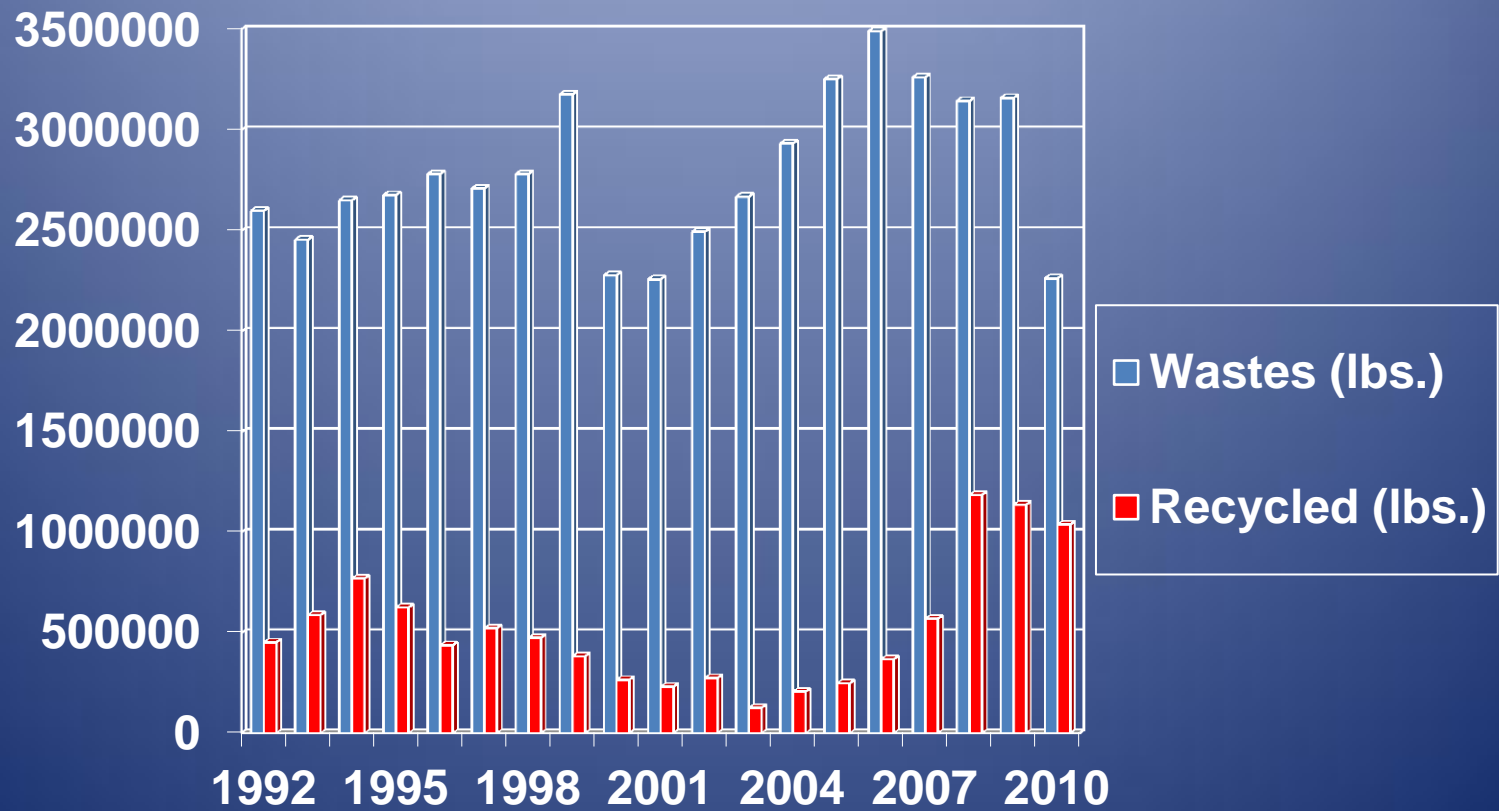
# Recycling

- Where? Every bldg on campus
- Common- Mixed Paper, Cardboard, Containers
- Includes- Electronic Wastes, Batteries, Toner, Tires, Oil, & more
- Programs- RecycleMania Competition, Y-Toss?, Move-in, Composting



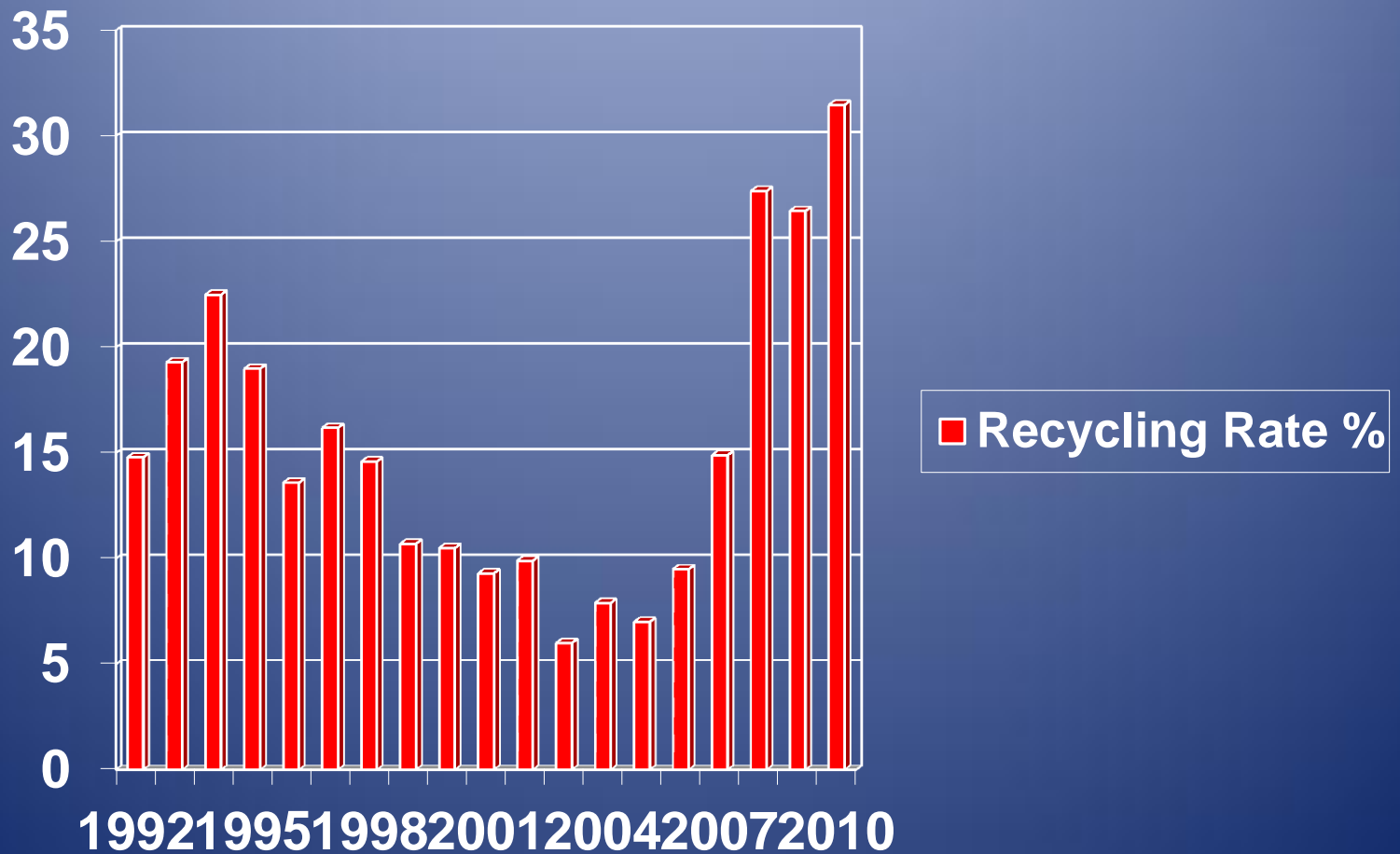


# Recycling





# Recycling







# Greenhouse Gas Inventory

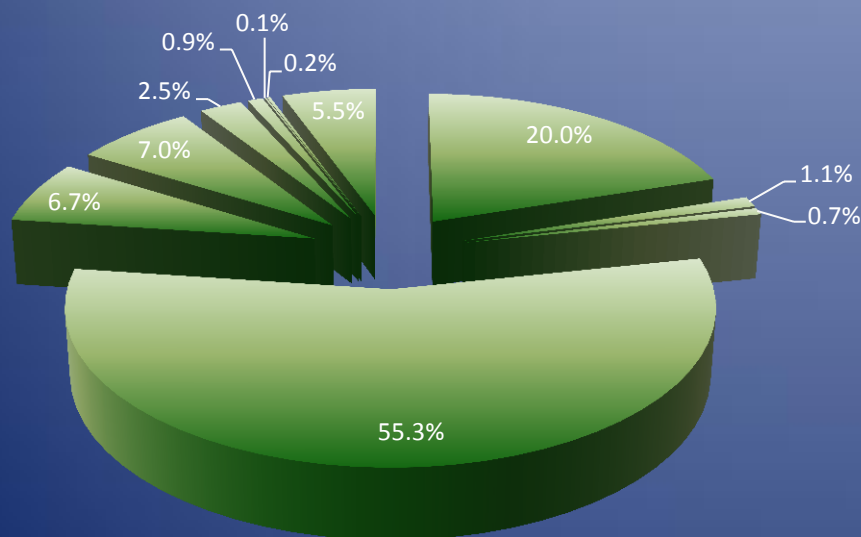
- Baseline- FY 2010
  - GHG Inventory submitted 1/15/2011
  - Foundation for the CAP
  - CAP due 1/15/2012
- Net Emissions- 37,749 metrics tons CO<sub>2</sub>e
  - What's involved?
  - What can we do to reduce our footprint?





# Greenhouse Gas Inventory

*Percentage GHG Emissions by Source*



*Percentage GHG Emissions by Source*

<b>Scope 1</b>	<b>21.9%</b>
Natural Gas	20.0%
Fleet Fuel	1.1%
Refrigerant & Chemicals	0.7%
Agriculture	0.1%
<b>Scope 2</b>	<b>55.3%</b>
Purchased Electricity	55.3%
<b>Scope 3</b>	<b>22.8%</b>
Faculty/Staff Commuting	6.7%
Student Commuting	7.0%
Air Travel	2.5%
Solid Waste	0.9%
Wastewater	0.1%
General Purpose/Copier Paper	0.2%
Transmission & Distribution Losses	5.5%



# Climate Action Plan

- Major Components
  - Climate Neutrality Target Date
    - Interim Dates
  - Mitigation- identification & feasibility
  - Education- classroom & campus
  - Research- projects & collaboration
  - Outreach- community awareness efforts







# Student Involvement

- Quest
- Residential Life
- Earth Day
- Work Study & Interns
- Clubs, Volunteer, & Competitions
- “Light bulbs to leaders”





# Campus Involvement

- Campus SustainABILITY Day & Earth Day
- Climate Action Plan
  - Suggestions, Input, Ideas
  - Education- incentives, partnerships, & resources
  - Research- communication projects, & collaboration





