

Environmental Value of Recycling













- Saving Natural Resources
- Saving Energy
- Reducing GHG

CT's Recycling Saved Valuable Resources

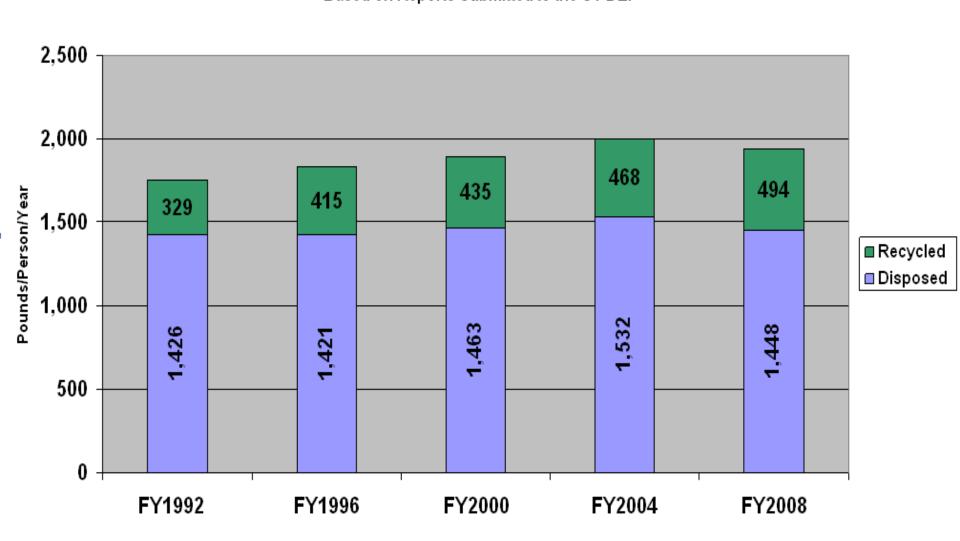
865,418 tons of materials recycled:

- Saved total of 7,767,053 million BTUs of energy
 - (= to 6.5% energy used in CT in one year = to 62,517,484 gallons of gasoline).
- Reduced greenhouse gas emissions by 398,938 metric tons of carbon equivalents (MTCE).

- e 61,071.09 tons of scrap metal and glass recycled in 2008 means CT conserved natural resources, including:
 - 6,893 tons of limestone.
 - 45,293 tons of iron ore.
 - 25,364 tons of coal.
 - Recycling 461,734.82 tons of newspapers, phone books, office paper, textbooks, magazines and cardboard is carbon sequestration benefit equal to:
 - 25,230,758 tree seedlings growing for ten years.

Collected Recyclables = Local Sources of Raw Materials

Pounds/Person/Year (PPY) MSW Estimated Disposed & Recycled Based on Reports Submitted to the CT DEP



Jobs Created for Every 10,000 tons waste generated (annually)

Activity	# Jobs
• Reuse — (wooden pallet repair to computer reuse)	28-296
 Recycling-based manufacturers 	25
• MRF [IPC]	10
• Composting	4
 Landfilling and incineration 	1
Source:	

Recycling Means Business, 2006 Institute for Local Self Reliance www.ilsr.org/recycling/recyclingmeansbusiness.htm

Creates Jobs & Revenues

	Northeast
Recycling and Reuse Establishments	13,000
People Employed	206,000
Annual Payroll	\$6.8 billion
Annual Revenues	\$44 billion

Source: Recycling Economic Information Study, June 2000, NERC

www.nerc.org/recycling_makes_sen\$e.html

Estimates of Direct Economic Activity

(Source: U.S. Recycling Economic Information Study, US FPA, 2002)

Processing

12,051

160,865

3,826,360

41,753,902

191,082

Collection

9,247

32,010

956,875

1,974,516

191,082

Establishments

Employment

Annual Payroll

Estimated

Estimated

Throughput¹

manufacturing stages.

Receipts

Recycling	Recycling	Recycling	Reuse and	Indi
`	, ,	are in \$1,000. Throug	hput is in Thousands o	of Tons.

Manufacturing

8,047

759,746

29,181,749

178,390,423

157,545

¹ Throughput is amount of recovered material recycled and includes manufacturing scrap sent for recycling. It excludes materials prepared for fuel use and in-

house process scrap returned to the manufacturing process. Throughput estimates are summed to avoid triple counting at collection, processing, and

Remanufacturing

26,716

169,183

2,747,498

14,182,531

N/A

Total

56,061

1,121,804

36,712,482

236,301,371

N/A

Data Type	Recycling	Recycling	Recycling	Reuse and	Indu
AH	nual Payroll and Es	stimated Receipt		ighput is in Thousands of	1 10115.

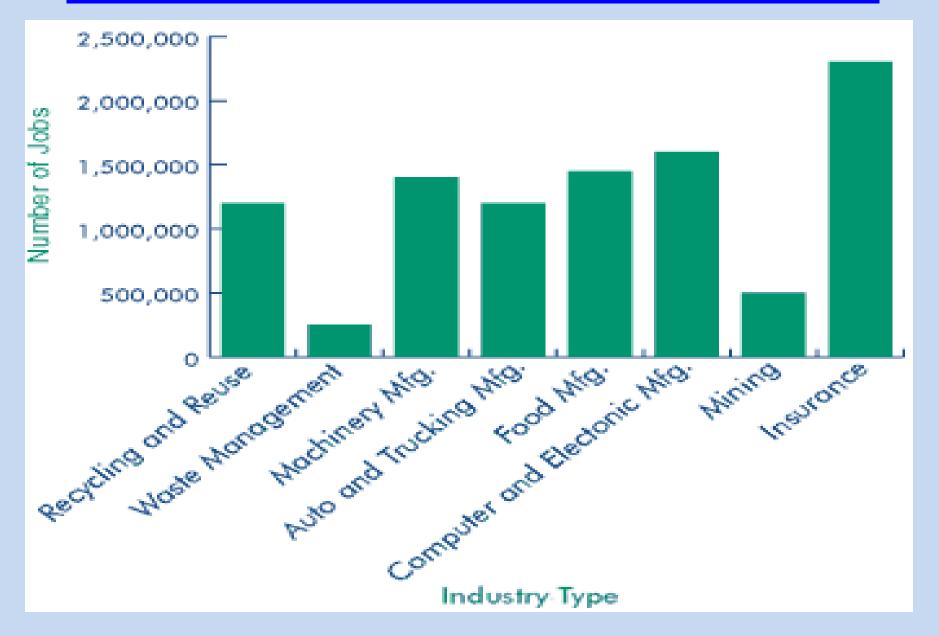
Anr	nual Payroll and Es	stimated Receipts	are in \$1,000. Throug	ghput is in Thousands o	of Tons.
Tyne	Recycling	Recycling	Recycling	Reuse and	Industry

Contribution of Recycling and Reuse to Government

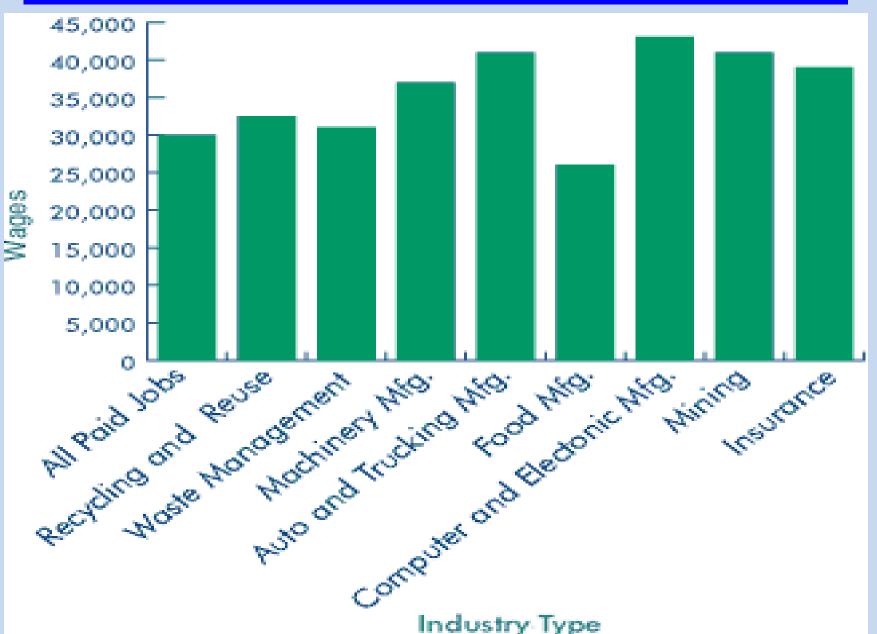
Revenues - Direct Effects Revenues (in \$ millions) -nationally (Source: EPA, 2002)

Industry Sector	Federal	State	Local	Total
Recycling Collection	200	100	100	400
Recycling Processing	700	400	300	1,400
Recycling Manufacturing	5,400	2,600	2,100	10,000
Reuse/ Remanufacturing	600	300	200	1,200
Total	6,900	3,400	2,600	12,900

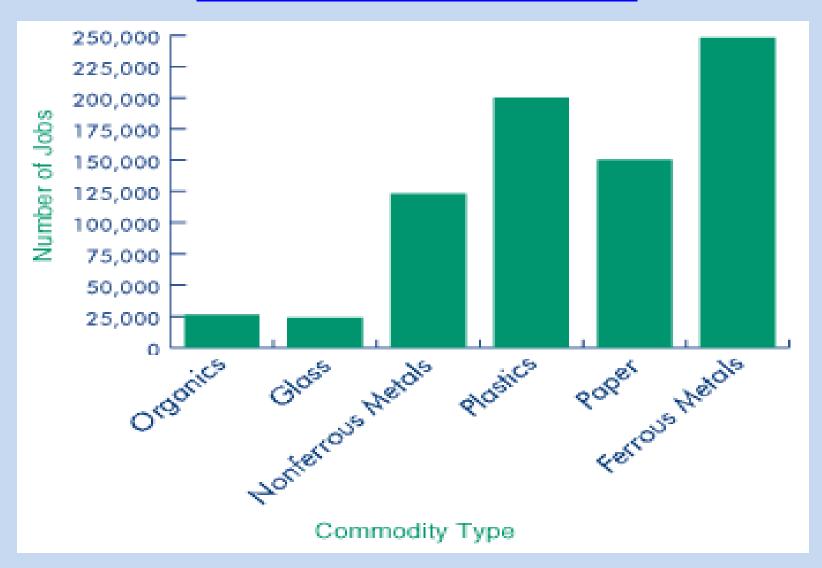
Comparison of Industry Employment



Comparison of Annual Wages per Job



Recycling Manufacturing Industry Employment by Major Material Group



Analysis of Economic Activity

for the Reuse Industry	Nationally (source: EPA, 2002)
Establishments	26,716

Employment 169,183

Annual Payroll \$2,747,498,000

Estimated Revenue \$14,182,531,000

Bottom Line

Recycling and Reuse = environmental value and economic opportunity

Waste-Based Businesses

Why Not In Connecticut?









- Residential metal cans, foil
- Residential glass bottles
- Residential plastics
- Paper
- Cardboard
- Scrap Metal
- Wood reused, recycled
- Lumber reclaimed/reused
- Electronics –reused/recycled
- Art from scrap metal,
 sweaters, broken dishes
- Furniture repair

- Pallets refurbished and chipped for mulch
- ·Tools
- Billboards purses
- Architectural salvage
- Clothing reused/textiles recycled
- •Yellow grease biofuels
- Manure plant pots
- Asphalt Roofing Shingles
- •Mattresses soon?

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HAPPENING IN CONNECTICUT

POTENTIAL IN CONNECTICUT

- Carpet, pads, rugs
- Processed asphalt roofing shingles
- Plastic, Plastic
 - Child Safety Seats
 - Agricultural Plastic
 - Bottles
 - Tubs, Buckets
 - Vinyl siding
- Gypsum wallboard
 - New construction
 - Decon/Demo
- Glass cullet
 - Asstd Colors
 - Mixed
- Wood & Lumber
- Furniture, HH goods

- Single-paned windows
- Doors, doors
- Scrap metals
- Bicycles
- ·Cardboard
- Textiles
 - Clothing for reuse
 - Textiles for recycling,
 repurposing
- Mixed paper
- •High grade whi paper?
- •?
- .?
- .?
- •?