1. History Of RRF Pmts Since 2005
   Documents: HISTORY OF RRF PMTS SINCE 2005.PDF

2. Ecard Usage FY10
   Documents: ECARD USAGE FY10.PDF

3. Bulky Waste Collection Options
   Documents: BULKY WASTE COLLECTION OPTIONS.PDF

4. HIP Rules March 2006
   Documents: HIP RULES MARCH 2006.PDF

5. City Of Dover, NH
   Documents: CITY OF DOVER NH.PDF

6. Solid Waste Issues
   Documents: SOLID WASTE ISSUES.PDF

7. RRF City And Ecard
   Documents: RRF CITY AND ECARD.PDF

8. Recycling By Day Of Week
   Documents: RECYCLING BY DAY OF WEEK.PDF

9. Worcester Bulky Waste
   Documents: WORCESTER BULKY WASTE.PDF

10. Towns Incentives
    Documents: TOWNS INCENTIVES.PDF
<table>
<thead>
<tr>
<th>City of Portland</th>
<th>Solid Waste Costs</th>
<th>FY05 to FY11 est</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY05</td>
<td>FY06</td>
</tr>
<tr>
<td>Wages</td>
<td>634,321</td>
<td>724,661</td>
</tr>
<tr>
<td>OT</td>
<td>67,025</td>
<td>82,770</td>
</tr>
<tr>
<td>Temporary Services</td>
<td>18,112</td>
<td>30,833</td>
</tr>
<tr>
<td>Apparel</td>
<td>7,940</td>
<td>8,978</td>
</tr>
<tr>
<td>Misc Expenses</td>
<td>9,759</td>
<td>5,754</td>
</tr>
<tr>
<td>Equipment Rental</td>
<td>3,688</td>
<td>3,100</td>
</tr>
<tr>
<td>RRF Fees - Higgins</td>
<td>903,000</td>
<td>500,727</td>
</tr>
<tr>
<td>RRF Fees - CPRC</td>
<td>3,999,490</td>
<td>3,231,024</td>
</tr>
<tr>
<td>Disposal</td>
<td>2,060,111</td>
<td>2,003,915</td>
</tr>
<tr>
<td>HazMat Disposal</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Supplies</td>
<td>213,998</td>
<td>244,176</td>
</tr>
<tr>
<td>Maintenance of Packers</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>Telephone</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>Total</td>
<td>3,919,154</td>
<td>7,605,604</td>
</tr>
<tr>
<td>Trash Packer*</td>
<td>75,136</td>
<td>75,136</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>245,471</td>
<td>299,072</td>
</tr>
<tr>
<td>Maintenance of Packers</td>
<td>45,000</td>
<td>45,900</td>
</tr>
<tr>
<td>Gasoline</td>
<td>48,000</td>
<td>62,720</td>
</tr>
<tr>
<td>Total Cost</td>
<td>4,332,761</td>
<td>8,088,432</td>
</tr>
<tr>
<td>HazMat Fee Revenue</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bag Revenue</td>
<td>(1,233,133)</td>
<td>(1,689,826)</td>
</tr>
<tr>
<td>RRF Revenue</td>
<td>(126,103)</td>
<td>(1,772,562)</td>
</tr>
<tr>
<td>Total Revenue</td>
<td>(1,359,236)</td>
<td>(3,462,388)</td>
</tr>
<tr>
<td>Net Cost</td>
<td>2,973,525</td>
<td>4,626,044</td>
</tr>
</tbody>
</table>
## E-Card Usage

**FY10**

<table>
<thead>
<tr>
<th>Used this many times</th>
<th># of cards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1484</td>
</tr>
<tr>
<td>2</td>
<td>1189</td>
</tr>
<tr>
<td>3</td>
<td>949</td>
</tr>
<tr>
<td>4</td>
<td>765</td>
</tr>
<tr>
<td>5</td>
<td>600</td>
</tr>
<tr>
<td>6</td>
<td>489</td>
</tr>
<tr>
<td>7</td>
<td>410</td>
</tr>
<tr>
<td>8</td>
<td>288</td>
</tr>
<tr>
<td>9</td>
<td>219</td>
</tr>
<tr>
<td>10</td>
<td>479</td>
</tr>
</tbody>
</table>

- **6872** cards used at least once
- **8326** cards not used at all
- **15198** total e-cards in circulation
Bulky Waste Collection Options:

Annual Curbside Collection (example: the old Heavy Item Pick-Up program)

This is the program employed in Portland prior to E-Cards. Residents in each City Council District were assigned a collection week. Eligible residents in each area placed acceptable items out prior to their assigned week. City crews went through each neighborhood to collect the materials and deliver them to Riverside Recycling. *(See attached rules for the program.)*

Weekly Curbside Collection – Bulky Item Tags  (example: Dover, NH)

Residents purchase special bulky item tags at participating retailers. Acceptable items placed at the curb for collection must have a bulky item tag affixed. Collection crews only collect items with an appropriate tag.

Collection by Appointment (example: Worcester, MA)

Residents contact the service provider to request a bulky item collection. The resident describes the items to be collected and pays the appropriate fee. A collection crew arrives and collects the items that the resident arranged to have collected. Additional items that were not described (or paid for) are not collected.

Bulky Item Drop Off Program (example: current program in Portland)

Residents deliver bulky items to a designated facility. Many communities do not provide curbside collection and rely solely on a drop off program. Other communities augment a curbside program with a drop off program to accommodate difficult to collect items, to provide service for businesses (or others not eligible for curbside collection) or to provide convenience.

“Swap Shop”

Some communities maintain a facility to store unwanted but still useful items such as wooden or metal furniture, bicycles, toys, appliances or power equipment (for example). Some communities include items such as paint for exchange. The facility is open periodically for residents to look for items they have a need for. In some cases, the facility requests a donation to help defray operating costs.
Spring 2006 Bulky Waste Collection

Eligibility: Residents in buildings served by City of Portland trash collection crews may place acceptable items out for curbside bulky waste collection as directed by a published schedule.

Schedule:

District 1: May 15 – May 19
District 2: May 22 – May 26
District 3: May 30 – June 2
District 4: June 5 – June 9
District 5: June 12 – June 16

Residents wishing to participate may set out acceptable items no earlier than the weekend prior to the scheduled date. Once collection crews have passed by an address they will not return to collect late set-outs.

Acceptable materials:

- Mattresses and box springs
- Furniture
- Refrigerators
- Air conditioners
- Stoves/ovens
- Large toys
- Washers/dryers
- Rolled carpets
- Hot water heaters
- Televisions/large musical equipment
- Computer monitors
- Cabinets
- Toilets, sinks, tubs
- Large metal products

Unacceptable materials:

- Construction materials or debris
- Cardboard
- Brush
- Paper products
- Tree waste
- Household trash
- Liquid waste
- Hazardous waste
- Items in plastic bags
- Clothes and textiles
- Propane tanks
- Tires
- Other items deemed inappropriate by the Director of Public Works or designee

Unacceptable items and material set out improperly during curbside collection will not be collected and must be removed and properly disposed of by the property owner.

Preparation: Items placed out during a scheduled curbside collection must be sorted into the following categories: wood, metal, TVs and Computer Monitors and miscellaneous. Crews will not collect items unless they are properly sorted. Doors should be removed from any appliances such as refrigerators and freezers.

Quantity allowed: During a designated period of curbside collection residents in each eligible housing unit may place out up to six (6) items from the list of acceptable materials.
### BAG AND TAG PROGRAM

Bag & Tag Information

ALL TRASH & RECYCLING MUST BE CURBSIDE BY 7:00 AM ON THE DAY OF YOUR PICKUP

New Bag & Tag Prices (effective 10/1/08)

**Bag and Tag Price Information:**

- 15 gallon bags $1.45 each
- 30 gallon bags $2.15 each
- Bulky item tags $5.00 (available at * stores)

Bags (and tags*) are available at the following locations:

- Crowley's Variety and Grill*
- Care Pharmacy*
- City Hall Market*
- DiCicco's Market
- Dover Discount Beverage*
- Dover Natural Food Market*
- Dover Shell (Long Hill Road)*
- Dover Travel Stop*
- Duston's Market*
- Exit 7 Shell*
- Handy Hardware*
- Hannaford (Central Avenue)*
- Hannaford (Grapevine Drive)*
- Janets Market*
- Market Basket (Somersworth)
- Middleton Building Supply*
- Mr. Mike's*
- Rocky's Ace Hardware*
- Shaw's*
- Simply Green Bio-Fuel*
- Store 24 (Back River Road)*
- Store 24 (Central Avenue)*

Bulky Item Tags: Use on furniture, toilets, mattresses, box springs, carpets (rolled/folded/tied in 3’ lengths), couches, chairs, & large non-metal items.
Municipal Solid Waste Program

Topics / Issues Identified to Date – For Discussion at July 29, 2010 Meeting

• Outstanding Data Requests (to be distributed in advance of meeting):
  o Solid Waste Budget
  o Compare recycling rates in ecomaine towns
  o E-card usage
  o Recycling rate by day of week
  o City & e-card usage at Riverside by material
  o Bulky item programs in other places

• Composting
  o Leaves from City operations
  o Resident leaves and yard waste
  o Food waste

• Recycling
  o Add small businesses in R & B1 zones? (e.g., Laundromats, daycares, etc.)
  o Larger containers (carts?)
  o Contribution to litter during curbside collection
  o Automated service
    ▪ Q: Does it increase recycling? (compare to other ecomaine towns)
  o Silver Bullets
    ▪ Permanent Location / Site improvements

• Trash Collection
  o Animals / birds breaking bags (litter)
  o Alternative containers (carts)
  o Holiday pickup
• Automated service

• Public Waste Receptacles
  o Litter
  o Recycling co-located with bins

• Bulky Waste and remodeling debris
  o Swap shop for reusable items
  o Fire Safety (are people accumulating items?)
  o Convenience

• Riverside Recycling Policies and Programs
  o Pricing and Strategy
  o Equity and Usage

• Regulatory
  o Site Plan Review to encourage recycling
  o Plastic bag ban/fee
  o Bottled water ban
  o Recycling at public events
## Riverside Recycling City and E-Card Tons

<table>
<thead>
<tr>
<th>Material</th>
<th>FY08 City Tonnage</th>
<th>FY08 E-Card Tonnage</th>
<th>FY09 City Tonnage</th>
<th>FY09 E-Card Tonnage</th>
<th>FY10 City Tonnage</th>
<th>FY10 E-Card Tonnage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Wood</td>
<td>1,074</td>
<td>1,851</td>
<td>927</td>
<td>1,224</td>
<td>933</td>
<td>419</td>
</tr>
<tr>
<td>Demo Wood</td>
<td>16</td>
<td>672</td>
<td>22</td>
<td>582</td>
<td>21</td>
<td>0</td>
</tr>
<tr>
<td>Yard Waste</td>
<td>651</td>
<td>5,056</td>
<td>898</td>
<td>2,701</td>
<td>761</td>
<td>1,676</td>
</tr>
<tr>
<td>Drywall</td>
<td>8</td>
<td>74</td>
<td>0</td>
<td>75</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Shingles</td>
<td>330</td>
<td>132</td>
<td>314</td>
<td>93</td>
<td>16</td>
<td>107</td>
</tr>
<tr>
<td>Metals</td>
<td>3,498</td>
<td>776</td>
<td>1,685</td>
<td>528</td>
<td>3,217</td>
<td>0</td>
</tr>
<tr>
<td>Inert Materials</td>
<td>137</td>
<td>0</td>
<td>50</td>
<td>0</td>
<td>80</td>
<td>0</td>
</tr>
<tr>
<td>Stumps</td>
<td>9</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tires</td>
<td>8,359</td>
<td>5,676</td>
<td>10,394</td>
<td>5,209</td>
<td>6,398</td>
<td>606</td>
</tr>
<tr>
<td>Total Tons</td>
<td>14,083</td>
<td>14,468</td>
<td>14,291</td>
<td>10,621</td>
<td>11,440</td>
<td>2,808</td>
</tr>
</tbody>
</table>

**Key:**
- **Green Wood** is tree waste including brush
- **Demo Wood** is construction scrap including dimensional lumber
- **Inert Materials** include gravel, sand, bricks, concrete, etc.
- **Landfill** is non-recyclable material that was sent to a landfill for disposal including stree
sweepings
City of Portland
Recycling Percentage by Day of Week
Random Sample Weeks

<table>
<thead>
<tr>
<th>Week</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/29/2010</td>
<td>30.7</td>
<td>34.2</td>
<td>30.9</td>
<td>31.3</td>
<td>33.3</td>
</tr>
<tr>
<td>1/15/2010</td>
<td>28.2</td>
<td>32.3</td>
<td>28.7</td>
<td>29.6</td>
<td>37.9</td>
</tr>
<tr>
<td>6/20/2009</td>
<td>32.2</td>
<td>36.3</td>
<td>33.7</td>
<td>31.0</td>
<td>37.1</td>
</tr>
<tr>
<td>4/11/2009</td>
<td>29.2</td>
<td>32.7</td>
<td>33.6</td>
<td>30.6</td>
<td>34.0</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>30.1</strong></td>
<td><strong>33.9</strong></td>
<td><strong>31.7</strong></td>
<td><strong>30.6</strong></td>
<td><strong>35.6</strong></td>
</tr>
</tbody>
</table>
Bulk Waste Pick-Up

- There is a per-item fee for curbside bulk waste pick-up.
- The City's recycling contractor, Casella Waste Management of Massachusetts, Inc., is the curbside bulk waste collector.
- The City has obtained preferred rates from Casella for bulk waste pick-up. Residents must contact Casella directly by calling (508) 832-2349.
- Residents can have an unlimited number of items collected per appointment.
- Residents must pay for bulk collection when the appointment is made. Payment can be by credit card (VISA, MasterCard and AMEX) or check.
- Fee Schedule - Per-Item (general)
  - $15.75 Burnables (couch, mattress, furniture, rug, car tires, etc.)
  - $26.25 White Goods-Freon (refrigerator, air conditioner, dehumidifier, etc.)
  - $15.75 Metals-Other (lawn mower, washing machine, stove, etc.)
  - $31.50 CRT's (TVs, computer monitor, etc.)
  - $63.00 Large CRT's
  - $31.50 Sleeper Sofa, Sectional Couch
  - $47.25 Sectional Couch with Sleeper
- The per item fee is not refundable without a 24-hour notice for cancellation.
- Bulk items must be on the curb by 7:00 AM on your scheduled collection day.
- Residents also have the option of making an appointment to drop their bulk waste off at the DPW Drop-Off Center, where the fees are lower, or contacting a private licensed hauler.

© 2010 | Copyright City of Worcester, MA | All Rights Reserved.
### Municipal Recycling Incentives

<table>
<thead>
<tr>
<th>Town</th>
<th>Pay per Bag</th>
<th>Curbside Recycling</th>
<th>Mandatory Recycling</th>
<th>Recycling %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridgton</td>
<td>Yes (b)</td>
<td>Yes</td>
<td>Yes</td>
<td>21.03%</td>
</tr>
<tr>
<td>Casco</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>31.02%</td>
</tr>
<tr>
<td>Cumber</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>17.50%</td>
</tr>
<tr>
<td>Falmouth</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>28.66%</td>
</tr>
<tr>
<td>Freeport</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>45.1%</td>
</tr>
<tr>
<td>Gorham</td>
<td>Yes (a)</td>
<td>Yes</td>
<td>(c)</td>
<td>N/A</td>
</tr>
<tr>
<td>Gray</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>17.30%</td>
</tr>
<tr>
<td>Harrison</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>25.17%</td>
</tr>
<tr>
<td>Hollis</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>48.02%</td>
</tr>
<tr>
<td>Limington</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>10.96%</td>
</tr>
<tr>
<td>Lyman</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>33.13%</td>
</tr>
<tr>
<td>Ogunquit</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>34.71%</td>
</tr>
<tr>
<td>Portland</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>27.24%</td>
</tr>
<tr>
<td>Pownal</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>16.42%</td>
</tr>
<tr>
<td>Scarborough</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>42.23%</td>
</tr>
<tr>
<td>South Portland</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>29.46%</td>
</tr>
<tr>
<td>Waterboro</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>12.00%</td>
</tr>
<tr>
<td>Windham</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>35.00%</td>
</tr>
<tr>
<td>Yarmouth</td>
<td>Yes</td>
<td>Yes</td>
<td>(c)</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

### Results for towns by # of incentives:

#### None

- Bridgton: 21.03%
- Casco: 17.50%
- Harrison: 17.30%
- Limington: 6.44%
- Lyman: 17.59%
- Ogunquit: 10.96%
- Waterboro: 16.42%
- Yarmouth: 29.46%

Average: 17.07%

#### One

- Cape Elizabeth: 31.02%
- Freeport: 20.84%
- Cumberland: 28.66%

Average: 25.43%

#### Two

- Falmouth: 45.10%
- Gorham: 37.56%
- Hollis: 25.17%
- North Yarmouth: 48.02%
- Scarborough: 34.71%
- South Portland: 27.24%
- Windham: 42.23%

Average: 36.08%

#### Three

- Portland: 33.13%
- Pownal: 41.14%

Average: 37.13%

### Results From the Use of Incentives

- Number of incentives employed: 1, 2, 3, 4
- Percentage increase in recycling:
  - 17.08%
  - 25.93%
  - 36.08%
  - 37.13%

Compiled by ecomaine 7/13/10

www.ecomaine.org
Printed on 100% post-consumer recycled paper.

Percentages are based on total tonnage of waste and recyclables as received by ecomaine.