1. Solid Waste Policies Background
   Documents:  SOLID WASTE POLICIES BACKGROUND.PDF

2. Draft Goals And Objectives
   Documents:  DRAFT GOALS AND OBJECTIVES.PDF

3. Estimated Recovery Rate Of Recyclables
   Documents:  ESTIMATED RECOVERY RATE OF RECYCLABLES.PDF

4. Europe Finds Cleaner Energy
   EUROPE FINDS CLEANER ENERGY

5. Iswm Vs Zero Waste
   Documents:  ISWM VS ZERO WASTE.PDF
Existing Solid Waste Management Policies and Infrastructure

Report to the Solid Waste Task Force
3/25/2010
Department of Public Services
Michael Bobinsky, Director
Troy Moon, Solid Waste Manager
Policy Overview
State Policy and Goals

- See 38 MRSA, Chapter 13 -- Declaration of Policy (1989):
  - Establish statewide waste reduction, recycling and management program
  - Establish waste management hierarchy
  - Notes economic benefits of recycling
  - Notes the need for State action to assist municipalities in managing solid waste
State Waste Management Hierarchy

1. Reduce waste (both amount and toxicity)
2. Reuse
3. Recycle
4. Compost
5. Reduce volume (Waste to Energy)
6. Landfill
State Goal

- Recycle 50% of the waste generated in the State of Maine by 2009
  - Goal established in 1989
  - Recycling rate is currently about 35%
  - Municipalities not required to achieve 50% but must demonstrate progress
Mandatory Recycling

- MRSA Title 38, Chapter 24, Subchapter 3:

  Businesses with 15 or more employees in a single location are required to recycle office paper and cardboard
Producer Responsibility

- Manufacturers help manage and pay for recycling of products
- Maine is the national leader in promoting producer responsibility
- Laws cover fluorescent bulbs, electronic waste, thermostats, mercury switches, batteries
The law has been very effective for TVs and CRTs – the DEP estimates that 50% are now being recycled.

- Decreases costs to municipalities so they can offer recycling to their residents
- The State is exploring expanding PR to other difficult to manage products.
City Policies

- Climate Goals
  - Reduce GHG emissions to 10% below 1990 levels by 2020
  - Will calculate GHG impact of current efforts with EPA’s Waste Reduction Model (WaRM) software for future meeting
Existing Solid Waste Infrastructure
Landfills

Landfills (Commercial):
- Crossroads, Norridgewock
- Juniper Ridge, Old Town
- Pine Tree, Hampden (now closed)

Major Landfills (Municipal)
- Bath
- Brunswick
- Hatch Hill (Augusta)
- Tri-Community (Fort Fairfield)
- Presque Isle
- Lewiston

WTE:
- ecomaine, Portland (170K tpy)
- ME Energy, Biddeford (310K tpy)
- MMWAC, Auburn (70K tpy)
- PERC, Orrington (304K tpy)

WTE handles 32% of Maine’s waste
Private Transfer Stations

- Plan-It, Gorham
- Troiano, South Portland
- BBI, Old Orchard Beach
- Oceanside, Wells
Future of Disposal

- The State has banned development of new disposal facilities
- The State owns Carpenter Ridge near Lincoln that will become the site of a future landfill when needed
- Existing disposal capacity sufficient for now with additional capacity to be permitted.
ecomaine Communities

21  Owner Communities
7   Associate Member Communities
10  Contract Communities

ecomaine serves a population of more than 250,000 people
ecomaine Facilities

- Waste to Energy
- Single Stream MRF
- Landfill / Ashfill
Riverside Recycling

- Owned by City
- Managed by CPRC
- Used by:
  - City crews
  - Portland residents
  - Businesses
  - Regional
Riverside Recycling

- Up to 60,000 tons per year
- 50% is C&D/Mix to landfill
- 50% recycled:
  - Wood (demo and clean)
  - Metals
  - Drywall
  - Asphalt Shingles
  - Yard waste
  - Electronics
  - Mercury containing items
  - Brick, block, concrete, soils
  - Glass
Downtown Trash Barrels

150 trash barrels emptied at least 1 x daily
Public Trash Barrels
City of Portland, Maine
March 2018

- Portland Downtown District Barrels
- Parks Summer Barrels
- Parks Winter Barrels

X Year round  X Summer only 150 downtown
• Somerset Street location has 8 “Silver Bullets”
• Open 24/7, gate closed in the evening to prevent vehicular access
• Available for use by anyone, used by small businesses with limited options
• Very heavily used
• Need to find permanent location for them
• Riverside Recycling has 1 “Silver Bullet” for use during open hours
Data
State Waste Management Plan

- State Planning Office prepares reports on waste generation and disposal capacity as well as progress toward goals.
- State data that follows derives from these documents.
- [http://www.state.me.us/spo/recycle/publications.htm](http://www.state.me.us/spo/recycle/publications.htm)
State Waste Generation

Figure 1: Maine Waste Generation, 1993-2007
Source: State Planning Office
State Recycling Rate

Figure 4: Maine Recycling Rates, 1993-2007
Source: State Planning Office
Figure 5: Maine Solid Waste Disposed vs. Recycling, 1993-2007
Source: State Planning Office
# Estimated Recovery Rate of Recyclables

State Planning Office

## Table 2: Recovery Rates of Selected Recyclable Materials

<table>
<thead>
<tr>
<th>Waste type</th>
<th>Amount generated</th>
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<th>% recovered</th>
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<td>571,910</td>
<td>286,164</td>
<td>50%</td>
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<td>Yard waste</td>
<td>223,867</td>
<td>29,948</td>
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<td>15,181</td>
<td>7%</td>
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<td>143,415</td>
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<td>**</td>
<td></td>
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<tr>
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<td>92,695</td>
<td>49,520</td>
<td>53.4%</td>
</tr>
</tbody>
</table>

* includes white goods  ** no corresponding definition
Deliveries to ecomaine FY 09

- Residential Recycling: 24,676 tons
- Commercial Recycling: 6,029 tons
- Residential Waste: 61,844 tons
- ecomaine Commercial Waste: 6,556 tons
- Out of Area Waste: 37,176 tons
Recycling Highlights

- Original recycling plant opened in 1991 and recycled less than 5,000 tons per year
- Portland adopts curbside recycling in 1999
- Single Stream MRF opened in 2007, enabling several towns including Scarborough and Falmouth adopt curbside recycling
- In FY09 ecomaine recycled more than 30,000 tons of recyclables
Recycling Processed by Percentage

- Newspaper: 61%
- Cardboard: 23%
- PET: 1%
- #3-7PLASTIC: 1%
- GLASS: 1%
- LOOSE METAL: 1%
- STEEL CANS: 4%
- STEEL CANS: 4%
- Mixed Paper: 1%
- Residue: 1%
# ecomaine Recycling

**Handout 2**

## ecomaine Neighborhood Recycling Year to Date Totals For
**July 1, 2008 Through June 30, 2009**

<table>
<thead>
<tr>
<th>Town</th>
<th>Tons-MSW To Date</th>
<th>Tons-Rec Drop off To Date</th>
<th>Tons-Rec Curb To Date</th>
<th>Tons-Rec Total To Date</th>
<th>Tons-Rec MSW+Rec To Date</th>
<th>% Rec To Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridgton</td>
<td>1226.00</td>
<td>376.30</td>
<td>0.00</td>
<td>376.30</td>
<td>1702.20</td>
<td>22.11%</td>
</tr>
<tr>
<td>Cape Elizabeth</td>
<td>2956.90</td>
<td>1148.85</td>
<td>0.00</td>
<td>1148.85</td>
<td>4003.75</td>
<td>28.64%</td>
</tr>
<tr>
<td>Casco</td>
<td>920.71</td>
<td>224.24</td>
<td>0.00</td>
<td>224.24</td>
<td>1144.90</td>
<td>19.09%</td>
</tr>
<tr>
<td>Cumberland</td>
<td>1700.88</td>
<td>0.00</td>
<td>723.61</td>
<td>723.61</td>
<td>2433.37</td>
<td>20.73%</td>
</tr>
<tr>
<td>Falmouth</td>
<td>2180.27</td>
<td>1175.37</td>
<td>735.14</td>
<td>1910.51</td>
<td>4080.78</td>
<td>40.53%</td>
</tr>
<tr>
<td>Freeport</td>
<td>1970.48</td>
<td>478.32</td>
<td>0.00</td>
<td>478.32</td>
<td>2448.79</td>
<td>19.47%</td>
</tr>
<tr>
<td>Gorham</td>
<td>2192.45</td>
<td>281.63</td>
<td>1060.12</td>
<td>1361.75</td>
<td>2947.23</td>
<td>38.19%</td>
</tr>
<tr>
<td>Harrison</td>
<td>1049.19</td>
<td>104.39</td>
<td>0.00</td>
<td>104.39</td>
<td>1213.53</td>
<td>13.55%</td>
</tr>
<tr>
<td>Hollis</td>
<td>861.57</td>
<td>0.00</td>
<td>342.59</td>
<td>342.59</td>
<td>1304.18</td>
<td>28.27%</td>
</tr>
<tr>
<td>Limington</td>
<td>1905.77</td>
<td>73.23</td>
<td>0.00</td>
<td>73.23</td>
<td>2039.00</td>
<td>3.59%</td>
</tr>
<tr>
<td>Lyman</td>
<td>1180.71</td>
<td>200.94</td>
<td>0.00</td>
<td>200.94</td>
<td>1381.66</td>
<td>14.48%</td>
</tr>
<tr>
<td>Naples</td>
<td>1123.30</td>
<td>274.03</td>
<td>0.00</td>
<td>274.03</td>
<td>1397.40</td>
<td>10.81%</td>
</tr>
<tr>
<td>No. Yarmouth</td>
<td>790.81</td>
<td>222.57</td>
<td>201.03</td>
<td>484.25</td>
<td>1271.00</td>
<td>38.10%</td>
</tr>
<tr>
<td>Ogunquit</td>
<td>888.60</td>
<td>118.65</td>
<td>0.00</td>
<td>118.65</td>
<td>897.15</td>
<td>15.00%</td>
</tr>
<tr>
<td>Parsonsfield</td>
<td>1013.15</td>
<td>0.00</td>
<td>94.35</td>
<td>94.35</td>
<td>1097.50</td>
<td>7.69%</td>
</tr>
<tr>
<td>Portland</td>
<td>1024.04</td>
<td>1162.21</td>
<td>3822.88</td>
<td>5014.77</td>
<td>6359.81</td>
<td>32.85%</td>
</tr>
<tr>
<td>Pownal</td>
<td>338.93</td>
<td>132.23</td>
<td>0.00</td>
<td>132.23</td>
<td>460.13</td>
<td>28.18%</td>
</tr>
<tr>
<td>Saco</td>
<td>4909.57</td>
<td>179.03</td>
<td>1010.31</td>
<td>1799.34</td>
<td>6748.91</td>
<td>20.51%</td>
</tr>
<tr>
<td>Scarborough</td>
<td>5407.00</td>
<td>658.65</td>
<td>2121.13</td>
<td>2792.78</td>
<td>8387.77</td>
<td>35.53%</td>
</tr>
<tr>
<td>S. Portland</td>
<td>6548.24</td>
<td>309.29</td>
<td>2118.42</td>
<td>2427.71</td>
<td>6373.65</td>
<td>25.00%</td>
</tr>
<tr>
<td>Standish</td>
<td>3020.67</td>
<td>606.20</td>
<td>0.00</td>
<td>606.20</td>
<td>3626.87</td>
<td>10.11%</td>
</tr>
<tr>
<td>Tri-Town</td>
<td>1703.73</td>
<td>114.85</td>
<td>0.00</td>
<td>114.85</td>
<td>1818.58</td>
<td>8.32%</td>
</tr>
<tr>
<td>Waterboro</td>
<td>2540.50</td>
<td>477.81</td>
<td>0.00</td>
<td>477.81</td>
<td>3018.31</td>
<td>15.79%</td>
</tr>
<tr>
<td>Windham</td>
<td>2210.50</td>
<td>117.77</td>
<td>1457.44</td>
<td>1575.21</td>
<td>3785.71</td>
<td>41.81%</td>
</tr>
<tr>
<td>Yarmouth</td>
<td>2459.16</td>
<td>946.13</td>
<td>0.00</td>
<td>946.13</td>
<td>3405.29</td>
<td>27.76%</td>
</tr>
</tbody>
</table>

Total: 61,862.58, 9,711.72, 14,370.25, 24,061.97, 65,944.55, 20.02%
Portland Trash vs. Recycling

- **Tons MSW**
- **Tons Recycle**

Yearly data from FY97 to FY09.
Buildings Receiving Solid Waste Service
City of Portland, Maine
March 2019

Legend
- Single Family - 11551 accounts
- Two - Four Family - 2971 accounts
- Five - Ten Family - 376 accounts
- Eleven Family Plus - 16 accounts
- Residential Condo - 90 accounts
- Non-Residential Government - 25 accounts
- Residential and Commercial Mut-use and Industrial - 96 accounts
- Miscellaneous - 3 accounts

Solid Waste Service Areas

Map prepared for the City of Portland’s Department of Public Services
City Services

- Single Family Homes: 11,081
- Apts with 2-4 units: 2,571
- Apts with 5–10 units: 370
- Apts with 11–20 units: 26
- Condos: 983
- Misc. units: 123

About 15,000 buildings served weekly
City of Portland

- Who Provides Service?
  - City serves residential properties
    - Single family homes
    - Apartment buildings with up to 9 units
    - Condominiums who opt in and sign a release
    - Apartment building with up to 19 units who opt in
  - Private haulers serve commercial properties
    - Most condos
    - Large apartment buildings,
    - Businesses & industry
Leaf Collection

- Annual leaf and yard waste collection
  - Last week in October – Thanksgiving
  - Curbside pick up of bagged leaves
  - No limit on amount of bags at curb
  - 750 tons collected annually
Island Services

- Curbside collection of trash and recycling provided weekly on Peaks, GDI, LDI and Cliff
- 3 “Silver Bullets” located at the Peaks Island transfer station
- Annual HHW collection for all islands
- Bulky item collection on GDI, LDI & Cliff
- Peaks Island residents bring bulky items to transfer station
<table>
<thead>
<tr>
<th></th>
<th>Bulky Waste</th>
<th>Construction Debris</th>
<th>Yard Waste</th>
<th>Brush</th>
<th>Universal Waste</th>
<th>HHW</th>
<th>Multi-family allowance</th>
<th>Pay per bag?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Falmouth</strong></td>
<td>Purchase permit sticker $5, $5-$10 each item</td>
<td>Bring to RRF, pay posted fee</td>
<td>Purchase permit sticker $5, $10 per pick-up load at transfer station. Free curbside collection spring and fall</td>
<td>Purchase permit sticker $5, $10 per pick-up load</td>
<td>Purchase permit sticker $5, Oil Paint accepted free, other items to RRF, pay fee</td>
<td>none</td>
<td>33gal &amp; 20gal</td>
<td>$2.08 / $1.46 ea</td>
</tr>
<tr>
<td><strong>Windham</strong></td>
<td>Bring to RRF or Plan-It, pay posted fee</td>
<td>Bring to RRF or Plan-It, pay posted fee</td>
<td>Free drop of for homeowners, 3 weeks in spring &amp; fall</td>
<td>Free drop of for homeowners, 3 weeks in spring &amp; fall</td>
<td>Bring to RRF, pay fee</td>
<td>Bring to RRF, pay fee</td>
<td>none</td>
<td>30gal &amp; 13gal</td>
</tr>
<tr>
<td><strong>Scarborough</strong></td>
<td>Bring to RRF or Community Recycling, pay posted fee</td>
<td>Bring to RRF or Community Recycling, pay posted fee</td>
<td>Household quantities accepted free at Community Recycling</td>
<td>Bring to RRF or Community Recycling, pay posted fee</td>
<td>Bring to RRF or Pine Tree Waste, pay fee</td>
<td>3 Annual collection events in conjunction with Biddeford &amp; Saco</td>
<td>none</td>
<td>no</td>
</tr>
<tr>
<td><strong>Saco</strong></td>
<td>Up to 3 cubic yards of bulky and/or debris free annually with permit</td>
<td>up to 3 cubic yards of bulky and/or debris free annually with permit</td>
<td>free with permit</td>
<td>Free up to 3 cubic yards - $6 per additional cy with permit</td>
<td>Fee per item</td>
<td>3 Annual collection events in conjunction with Biddeford &amp; Scarborough</td>
<td>none</td>
<td>no</td>
</tr>
<tr>
<td><strong>Gorham</strong></td>
<td>Burnables only - $5 - $10 each at curb, all other items to RRF, or Plan-It for posted fee</td>
<td>Bring to RRF or Plan-It, pay posted fee</td>
<td>Free drop of for homeowners, April - November</td>
<td>Free drop of for homeowners, 2 Saturdays each spring &amp; fall</td>
<td>Bring to RRF or Plan-It, pay fee</td>
<td>Motor oil accepted free. Other items bring to RRF, pay fee</td>
<td>none</td>
<td>30gal &amp; 15gal</td>
</tr>
<tr>
<td><strong>Brunswick</strong></td>
<td>Bring to landfill, pay $60 - $80/ton, other material bring to RRF for posted fee</td>
<td>Bring to landfill, pay $80/ton</td>
<td>$5 dump permit Free from homes with permit</td>
<td>$5 dump permit Free from homes permit</td>
<td>$5 dump permit Accepted for free</td>
<td>1 Annual HHW drop off (usually Oct) otherwise to Lewiston, pay fee</td>
<td>none</td>
<td>33gal &amp; 15gal</td>
</tr>
<tr>
<td><strong>Portland</strong></td>
<td>Up to 10 items free annually with E-card</td>
<td>Bring to RRF, pay posted fee</td>
<td>Each cubic yard counts as 1 bulky item, charge in 1/2 cubic yard increments -- curbside collection for free each fall</td>
<td>Each cubic yard counts as 1 bulky item, charged in 1/2 cubic yard increments</td>
<td>Accepted for free with E-card</td>
<td>Up to 10 gallons free. Collection events 1st &amp; 3rd Saturday, April - November</td>
<td>Multi-family buildings get free up to 10 Bulk items free annually with E-card</td>
<td>30gal &amp; 15gal</td>
</tr>
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</table>
Solid Waste Task Force
Draft Goals and Objectives – April 22, 2010

Goal: Achieve [amount – how measured: %; absolute tons?] waste diversion by 2020

Objective steps to achieve goal:

- **Reduce** – eliminate [amount] from waste stream by 2020 by “upstream” reduction
  - Lead by Example (City/Schools)
    - Example: Pilot a zero waste building (City and School side) to develop BMPs
  - City Programs
  - Voluntary, Education and Incentives
  - Rules, Regulation and Advocacy (inc. ecomaine)

- **Reuse** - eliminate [amount] from waste stream by 2020 by reusing materials previously recycled or waste
  - Lead by Example (City/Schools)
  - City Programs
    - Example: Establish swap shop / reuse center
  - Voluntary, Education and Incentives
  - Rules, Regulation and Advocacy (inc. ecomaine)

- **Recycle** - eliminate [amount] from waste stream by 2020 by recycling materials previously waste
  - Lead by Example (City/Schools)
  - City Programs
    - Example: Implement larger container sizes for residential program.
    - Example: Allow small business participation in City curbside program
  - Voluntary, Education and Incentives
    - Example: Educate employers about state law setting minimum paper/cardboard recycling requirements for business of > 15 employees
  - Rules, Regulation and Advocacy (inc. ecomaine)
    - Example: Promote source separation to facilitate recycling (pricing at facility and/or building permit requirements)

- **Compost** - eliminate [amount] from waste stream by 2020 by composting materials previously waste
  - Lead by Example (City/Schools)
- City Programs
  - Example: Curbside food waste collection
- Voluntary, Education and Incentives
- Rules, Regulation and Advocacy (inc. ecomaine)
    - Lead by Example (City/Schools)
    - City Programs
    - Voluntary, Education and Incentives
    - Rules, Regulation and Advocacy (inc. ecomaine)
## Estimated Recovery Rate of Recyclables

State Planning Office

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<td>1146.85</td>
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<td>28.04%</td>
</tr>
<tr>
<td>Casco</td>
<td>620.71</td>
<td>224.24</td>
<td>0.00</td>
<td>224.24</td>
<td>1144.65</td>
<td>19.56%</td>
</tr>
<tr>
<td>Cumberland</td>
<td>1709.89</td>
<td>723.51</td>
<td>723.51</td>
<td>1010.51</td>
<td>4086.78</td>
<td>45.03%</td>
</tr>
<tr>
<td>Falmouth</td>
<td>2188.27</td>
<td>1175.37</td>
<td>725.14</td>
<td>1900.51</td>
<td>4086.78</td>
<td>45.03%</td>
</tr>
<tr>
<td>Freeport</td>
<td>1670.40</td>
<td>478.32</td>
<td>0.00</td>
<td>478.32</td>
<td>2148.72</td>
<td>19.47%</td>
</tr>
<tr>
<td>Gorham</td>
<td>2162.45</td>
<td>261.63</td>
<td>1801.23</td>
<td>3062.43</td>
<td>3547.20</td>
<td>38.19%</td>
</tr>
<tr>
<td>Harrison</td>
<td>1040.19</td>
<td>184.39</td>
<td>0.00</td>
<td>184.39</td>
<td>1213.58</td>
<td>13.50%</td>
</tr>
<tr>
<td>Hollis</td>
<td>661.57</td>
<td>342.59</td>
<td>342.59</td>
<td>342.59</td>
<td>1304.16</td>
<td>25.27%</td>
</tr>
<tr>
<td>Limington</td>
<td>1665.77</td>
<td>73.28</td>
<td>0.00</td>
<td>73.28</td>
<td>2039.05</td>
<td>3.56%</td>
</tr>
<tr>
<td>Lyman</td>
<td>1188.71</td>
<td>208.94</td>
<td>0.00</td>
<td>208.94</td>
<td>1387.65</td>
<td>14.46%</td>
</tr>
<tr>
<td>Naples</td>
<td>1123.39</td>
<td>274.02</td>
<td>0.00</td>
<td>274.02</td>
<td>1397.41</td>
<td>19.01%</td>
</tr>
<tr>
<td>No. Yarmouth</td>
<td>786.81</td>
<td>222.57</td>
<td>261.68</td>
<td>484.25</td>
<td>1271.06</td>
<td>38.10%</td>
</tr>
<tr>
<td>Ogunquit</td>
<td>668.60</td>
<td>118.55</td>
<td>0.00</td>
<td>118.55</td>
<td>787.15</td>
<td>15.06%</td>
</tr>
<tr>
<td>Parsonsfield</td>
<td>1013.15</td>
<td>0.00</td>
<td>84.35</td>
<td>84.35</td>
<td>1097.50</td>
<td>7.50%</td>
</tr>
<tr>
<td>Portland</td>
<td>1034.94</td>
<td>112.21</td>
<td>3822.56</td>
<td>5014.77</td>
<td>16359.91</td>
<td>32.92%</td>
</tr>
<tr>
<td>Pownal</td>
<td>338.95</td>
<td>132.23</td>
<td>0.00</td>
<td>132.23</td>
<td>469.18</td>
<td>28.18%</td>
</tr>
<tr>
<td>Saco</td>
<td>4050.57</td>
<td>179.03</td>
<td>1810.31</td>
<td>1780.34</td>
<td>6748.01</td>
<td>25.51%</td>
</tr>
<tr>
<td>Scarborough</td>
<td>5407.99</td>
<td>658.85</td>
<td>2121.13</td>
<td>2780.78</td>
<td>8387.77</td>
<td>35.53%</td>
</tr>
<tr>
<td>S. Portland</td>
<td>4946.24</td>
<td>308.29</td>
<td>2118.42</td>
<td>2427.71</td>
<td>9373.95</td>
<td>25.00%</td>
</tr>
<tr>
<td>Standish</td>
<td>3028.87</td>
<td>666.20</td>
<td>0.00</td>
<td>666.20</td>
<td>3694.07</td>
<td>18.11%</td>
</tr>
<tr>
<td>Tri-Town</td>
<td>1763.73</td>
<td>114.85</td>
<td>0.00</td>
<td>114.85</td>
<td>1818.58</td>
<td>5.32%</td>
</tr>
<tr>
<td>Waterboro</td>
<td>2248.80</td>
<td>477.81</td>
<td>0.00</td>
<td>477.81</td>
<td>3026.71</td>
<td>15.79%</td>
</tr>
<tr>
<td>Windham</td>
<td>2210.50</td>
<td>117.77</td>
<td>1457.44</td>
<td>1575.21</td>
<td>3785.71</td>
<td>41.01%</td>
</tr>
<tr>
<td>Yarmouth</td>
<td>2450.16</td>
<td>648.13</td>
<td>0.00</td>
<td>648.13</td>
<td>3408.29</td>
<td>27.78%</td>
</tr>
</tbody>
</table>

81,862.98 9,711.72 14,370.25 24,081.97 85,944.55 28.02%
Integrated Solid Waste Management vs. Zero Waste

Integrated Solid Waste Management:

Follows the following waste reduction hierarchy: source reduction, reuse, recycling, composting, energy recovery, landfilling.

Waste material should be handled in the most environmentally friendly manner available.

This approach feels that there will be at least a small portion of the waste stream remaining after following the steps on the hierarchy.

Zero Waste:

Follows similar waste handling hierarchy as ISWM but stops at composting.

This approach suggests that all waste can be eliminated by redesigning products to be reusable or repairable thereby eliminating the need for incineration or landfilling.

This approach sees waste management as a closed loop system, any waste product should be the feed stock for another product.