Why Act 148?
Waste Matters More Than you Think

Charen Fegard & John King for Sustainable Woodstock
Why Act 148?

- 1/3 recycling rate stall
- Increased waste stream
- We toss valuable *Resources*
- Over 1/3 earth’s resources used since 1970
- Technology
Compostable Materials make up 31% of the garbage produced by the average household.
Recyclables make up another 56% of the garbage produced by the average household.
If we compost and recycle, we can reduce our waste by 87%!
Waste Redux Strategies

• **Prevention:** Waste never created!!!!!
  – Purchasing decisions (upstream)

• **Reduction:** Sending materials to appropriate outlets (downstream/diversion)
  – Reuse
  – Composting & Recycling
  – Landfill
Waste Redux Impacts

- Virgin resources conservation
- Energy conservation
- Pollution prevention
- Saves landfill space
- Prevents landfill Methane emissions
- Prevents more incinerators
Greenhouse Gases (GHGs)

- Contribute to climate change
- Methane CH4 > 20x worse than CO₂*
- Methane from *Organic* landfill waste = 3% GHG
What’s the Link?

Energy & GHG emission savings from reduced:

• Extraction
• Transporting
• Manufacturing
• Incineration*
• Landfilling
The Impact of Recycling

In 2006 the U.S.
• Recycled 32.5 % of its trash
• Prevented emissions of 55 million tons of CO$_2$
• Saved 1.3 quadrillion BTUs ~10% of US residential electricity consumption, preventing ~50 new power plants
# Recycling Saves Energy & GHGs

<table>
<thead>
<tr>
<th>US Family Recycles Annually</th>
<th>BTU E’ Saved = Gal of Gasoline</th>
<th>GHG Avoided Lbs in CO₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newspaper - 187 lbs</td>
<td>26</td>
<td>804</td>
</tr>
<tr>
<td>Aluminum - 900 cans</td>
<td>22</td>
<td>429</td>
</tr>
<tr>
<td>Steel - 210 cans</td>
<td>4</td>
<td>33</td>
</tr>
<tr>
<td>(PET) Plastic - 240 bottles</td>
<td>4</td>
<td>44</td>
</tr>
<tr>
<td>Glass - 113 bottles</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Total savings</td>
<td>57</td>
<td>1,315</td>
</tr>
</tbody>
</table>
Buying Recycled Saves Energy

- Recycled aluminum - 95% less energy
- Recycled plastic - 66% less energy
- Recycling 1 glass bottle saves enough energy to use a CFL bulb for 13 hours
- The EU requires >75% of auto content be recycled & recyclable
- Recycling 5 plastic bottles generates enough fill for one insulated jacket
The Impact of Composting

- Organics = ¼ municipal solid waste
  - 38% yard waste is land-filled
  - 98% food waste is land-filled
  - 48% paper is land-filled or incinerated
- Prevented Methane*
- Carbon sinks
- E’ saved by displacing chemical fertilizers
- Improved topsoil, crops and plant nutrition
- Erosion abatement
- Replaces Peat Moss use
<table>
<thead>
<tr>
<th>Activity</th>
<th>Jobs over land-filling or incineration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recycling</td>
<td>10X</td>
</tr>
<tr>
<td>Manufacturing recycled content</td>
<td>12X</td>
</tr>
<tr>
<td>Composting</td>
<td>4X</td>
</tr>
</tbody>
</table>
## BANNED FROM VT LANDFILLS

### SOLID WASTE (HAULER MANDATED) RECYCLABLES

**GLASS:** bottles & jars from food & beverages

**METAL:**
- aluminum and steel cans (deposit & other)
- foils & pie pans

**PAPER:**
- white & colored cardstock
- newspaper
- corrugated cardboard
- paper bags
- softcover books
- magazines, catalogs

**PLASTIC:** PET & HDPE containers, bottles and jugs

**COMPOST**
- food waste *see ANR Universal Recycling Timeline*
- yard waste *see ANR Universal Recycling Timeline*

**PAINT**
- *latex okay if dried*
- stripper
- thinner
- varnish

**BATTERIES**
- button cell
- lead acid
- rechargeable: Lithium-ion, NiCad, Nickel-metal-hydride

### HAZARDOUS & DANGEROUS

- aerosol cans (not emptied)
- acids
- ammunition
- Cleaning chemicals: drain cleaner, oven cleaner, toilet bowl cleaner, chlorine bleach, ammonia based cleaners, metal and furniture polishes, spot cleaners, disinfectants, etc.
- explosives
- fertilizer
- firework
- flares
- gasoline
- hot ashes
- pesticides
- pool chemicals
- propane cylinders & other gas cylinders
- unprotected “sharps”

### MERCURY

- barometers
- CFL bulbs
- fluorescent tubes
- thermometers & thermostats

### ELECTRONICS

- chargers
- computers
- digital converter boxes
- DVD players
- monitors
- PDAs
- personal music players
- phones
- printers
- stereos
- TVs
- VCRs
- video game consoles

### MEDICAL

- Regulated Medical Waste or “Infectious waste”

### TIRES

### OIL

- Oil, used oil & used oil filters

### WHITE GOODS

- dishwashers
- dryers
- freezers
- refrigerators
- stoves
- washers

### ARCHITECTURAL

- asphalt shingles
- drywall
- metal
- wood: clean wood, and plywood, and oriented strand board
  *
  - If > 40 cu/yards & within 20 miles of C&D recycling facility

see:
  
  www.anr.state.vt.us/dec/wastediv/HHW/HHWProducts.htm
### Serving the Woodstock Area

<table>
<thead>
<tr>
<th>HAULER/FAC NAME</th>
<th>ABLE WASTE</th>
<th>CASELLA/NE WASTE SERVICES/ WOODSTOCK RECYCLING &amp; REFUSE</th>
<th>HARTFORD COMM. CTR FOR RECYCLING &amp; WASTE MNGMT</th>
<th>GUYSWMD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>(802) 672-3569</td>
<td>(802) 295-2660/457-1807</td>
<td>(802) 295-5740</td>
<td>(802) 296-3688</td>
</tr>
<tr>
<td>Website</td>
<td>ablewastemanagementvt.com</td>
<td>casella.com/northeast/index.html</td>
<td>hartford-vt.org/content/recycling/</td>
<td>guyswd.org</td>
</tr>
<tr>
<td>Office/Yard Hours</td>
<td>Bridgewater Town Garage Sat. 8am-11am. Yard-Plymouth residents only.</td>
<td>None</td>
<td>M-Sat: 8 am-4 pm</td>
<td>M-Th: 8:30 - 4:00</td>
</tr>
<tr>
<td>Things to know</td>
<td>Wed. pickup - $3.50/bag. Fuel surcharge $1 for 2 pickups/mo. $2 for 3+. See website for Fast Trash fees.</td>
<td>$34/mo for 32 gal. trash and recycling cans. $36 for 64 gallons. Two pickups/mo. Other options available.</td>
<td>$20 annual car sticker ($14 for a 2nd per household). $4.20/bag of trash, recycling free</td>
<td>Sells permits and coupons for Hartford</td>
</tr>
</tbody>
</table>

### STANDARD RECYCLING

<table>
<thead>
<tr>
<th>Curbside</th>
<th>Yes</th>
<th>Yes</th>
<th>No</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop Off</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Single Stream</td>
<td>Yes</td>
<td>Yes</td>
<td>Source separated</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Materials Accepted

| Materials Accepted | Boxes: cereal, pizza, pasta, shoe/ Paper: newspaper, mail, envelopes, catalogs, soft cover books, tele books, brown bags, magazines; Plastic: #1-#7/ Glass: bottles and containers/ Cans: aluminum, tin, steel, (pie plates, trays, foil) | Boxes: cereal, pizza, pasta, shoe/ Paper: newspaper, junkmail, envelopes, catalogs, soft cover books, tele books, brown bags, magazines; Plastic: #1-#7/ Glass: bottles and containers/ Cans: aluminum, tin, steel, (pie plates, trays, foil) | Paper; Phone books; Box board; Cardboard; Plastic containers #1-7 & pallet bags; Glass containers & windows; Ceramics; Cans: Tin, Steel, Aluminum; Pie plates, trays, foil | N/A |

### Materials Rejected


### ELECTRONICS

<table>
<thead>
<tr>
<th>ELECTRONICS</th>
<th>Yes - Bridgewater F/T</th>
<th>in Lebanon</th>
<th>TV's, Computers free. Stereo/VCRs cost.</th>
<th>No</th>
</tr>
</thead>
</table>

### BULKY WASTE

<table>
<thead>
<tr>
<th>BULKY WASTE</th>
<th>Yes - Bridgewater F/T</th>
<th>in Lebanon</th>
<th>No</th>
</tr>
</thead>
</table>

### TIRES

<table>
<thead>
<tr>
<th>TIRES</th>
<th>Drop off; $3 &amp; up</th>
<th>in Lebanon</th>
<th>Drop off; $3 &amp; up</th>
<th>No</th>
</tr>
</thead>
</table>

### SCRAP METAL

<table>
<thead>
<tr>
<th>SCRAP METAL</th>
<th>Yes - Bridgewater F/T</th>
<th>in Lebanon</th>
<th>Yes</th>
</tr>
</thead>
</table>

### FLUORESCENTS & MERCURIES

<table>
<thead>
<tr>
<th>FLUORESCENTS &amp; MERCURIES</th>
<th>No</th>
<th>No</th>
<th>Yes</th>
<th>Yes</th>
</tr>
</thead>
</table>

### RECHARGE BATTERIES

<table>
<thead>
<tr>
<th>RECHARGE BATTERIES</th>
<th>No</th>
<th>No</th>
<th>Yes</th>
<th>Yes</th>
</tr>
</thead>
</table>

### COMPOST

<table>
<thead>
<tr>
<th>COMPOST (Drop-off only)</th>
<th>Not at this time</th>
<th>Check in Spring 2015</th>
<th>Yes</th>
<th>Check in Summer 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accepted</td>
<td>N/A</td>
<td>Only from large generators</td>
<td>Leaf &amp; yard waste</td>
<td></td>
</tr>
</tbody>
</table>

### SOLID WASTE

<table>
<thead>
<tr>
<th>CURBSIDE</th>
<th>Yes</th>
<th>Yes</th>
<th>No</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>DROP OFF</th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

| HOUSEHOLD HAZARDOUS | 1st Sat. in June @ Hartford Com. Center for Recycling & 3rd Saturday in September (location TBA)... 9am-Noon | Contact | |

<table>
<thead>
<tr>
<th>GUYSWMD</th>
<th></th>
</tr>
</thead>
</table>

---
# Where to Recycle the Odd Things

<table>
<thead>
<tr>
<th>RECYCLABLE</th>
<th>LOCAL OPTION(S)</th>
<th>CONTACT DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appliances (working)</td>
<td>ReCover Store</td>
<td>158 South Main St WRJ</td>
</tr>
<tr>
<td>Batteries (Button Cell)</td>
<td>Woodstock Pharmacy</td>
<td>19 Central St Woodstock</td>
</tr>
<tr>
<td>Batteries (Rechargeable)</td>
<td>Woodstock Home &amp; Hardware</td>
<td>452 Woodstock Rd Woodstock</td>
</tr>
<tr>
<td>Bedding (old, ragged, stained, but clean)</td>
<td>Plymouth Drop off &amp; Recycling</td>
<td>68 Town Office Road Plymouth</td>
</tr>
<tr>
<td>Building Materials and Fixtures</td>
<td>ReCover Store</td>
<td>158 South Main St WRJ</td>
</tr>
<tr>
<td>Cell Phones</td>
<td>Change the World Kids</td>
<td><a href="mailto:changetheworldkids@gmail.com">changetheworldkids@gmail.com</a></td>
</tr>
<tr>
<td>Clothing (in good condition)</td>
<td>Bridgewater Thrift Store</td>
<td>Bridgewater Mill Mall Bridgewater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>42 Maple Street, White River Junction, VT 05001</td>
</tr>
<tr>
<td>Clothing (in good condition)</td>
<td>Glad Rags (event)</td>
<td><a href="http://www.gladrags.org">www.gladrags.org</a></td>
</tr>
<tr>
<td>Clothing (ragged, stained but clean)</td>
<td>Heritage Weaving Studio</td>
<td>Bridgewater Mill Mall Bridgewater</td>
</tr>
<tr>
<td>Clothing (ragged, stained but clean)</td>
<td>Plymouth Drop off &amp; Recycling</td>
<td>68 Town Office Road Plymouth</td>
</tr>
<tr>
<td>Clothing (vintage ~ pre 1980s)</td>
<td>Who Is Sylvia</td>
<td>26 Central St Woodstock</td>
</tr>
<tr>
<td>Computers &amp; other electronics (usable)</td>
<td>WinCycle</td>
<td>59 Main St Windsor</td>
</tr>
<tr>
<td>Egg Cartons</td>
<td>The Food Shelf</td>
<td>217 Maxham Meadow Way Woodstock</td>
</tr>
<tr>
<td>Everything Reusable</td>
<td>Free Cycle in NH &amp; VT</td>
<td>Craig’s List</td>
</tr>
<tr>
<td>Fluorescent Light Bulbs</td>
<td>Woodstock Home &amp; Hardware</td>
<td>452 Woodstock Rd</td>
</tr>
<tr>
<td>Fluorescent Light Bulbs</td>
<td>Welch’s True Value</td>
<td>2517 W Woodstock Rd Woodstock</td>
</tr>
<tr>
<td>Furniture (in good condition)</td>
<td>Ellaway’s Attic</td>
<td>14 Central St Woodstock</td>
</tr>
<tr>
<td>Furniture (intact)</td>
<td>ReCover Store</td>
<td>158 South Main St WRJ</td>
</tr>
<tr>
<td>Ink Cartridges</td>
<td>Change the World Kids</td>
<td><a href="mailto:changetheworldkids@gmail.com">changetheworldkids@gmail.com</a></td>
</tr>
<tr>
<td>Luggage (worn out)</td>
<td>Plymouth Drop off &amp; Recycling</td>
<td>68 Town Office Road Plymouth</td>
</tr>
<tr>
<td>Mercury Thermometers</td>
<td>Welch’s True Value</td>
<td>2517 W Woodstock Rd Woodstock</td>
</tr>
<tr>
<td>Paint</td>
<td>Small volume drop off or Large Volume Pick Up</td>
<td><a href="http://www.paintcare.org">www.paintcare.org</a></td>
</tr>
<tr>
<td>Shoes (worn out)</td>
<td>Plymouth Drop off &amp; Recycling</td>
<td>68 Town Office Road Plymouth</td>
</tr>
<tr>
<td>Stuffed toys (ragged, stained but clean and dry)</td>
<td>Plymouth Drop off &amp; Recycling</td>
<td>68 Town Office Road Plymouth</td>
</tr>
<tr>
<td>Wine Corks</td>
<td>Coop Food Store</td>
<td>209 Maple St WRJ</td>
</tr>
</tbody>
</table>
JULY 1 2014

» Transfer stations/Drop-off Facilities must accept residential recyclables at no extra charge

» Food scrap generators of 104 tons/year (2 tons/week) must divert material to any certified facility within 20 miles

JULY 1 2015

» Statewide unit based pricing takes effect, requiring residential trash charges be based on volume or weight

» Recyclables are banned from the landfill

» Transfer stations/Drop-off Facilities must accept leaf and yard debris

» Haulers must offer residential recycling collection at no extra charge

» Public buildings must provide recycling containers alongside all trash containers in public spaces (exception for restrooms)

» Food scrap generators of 52 tons/year (1 ton/week) must divert material to any certified facility within 20 miles
**JULY 1 2016**

- Leaf, yard, and clean wood debris are banned from the landfill
- Haulers must offer leaf and yard debris collection
- Food scrap generators of 26 tons/year (1/2 ton/week) must divert material to any certified facility within 20 miles

**JULY 1 2017**

- Transfer stations/Drop-off Facilities must accept food scraps
- Haulers must offer food scrap collection
- Food scrap generators of 18 tons/year (1/3 ton/week) must divert material to any certified facility within 20 miles

**JULY 1 2020**

- Food scraps are banned from the landfill
What can YOU do?

• Evaluate your waste output.
• Game plan for purchasing & diversion.
• Re-evaluate & take note.
• Collaborate!
Presentation brought to you by Sustainable Woodstock!

WE CAN DO BETTER!!!
The Power of Three™ is a closed loop paper recycling program created by Casella, Johnston Paper and SCA that turns the paper that our customers don’t want back into paper products that they do.
Woodstock Village Recycling containers 2015?