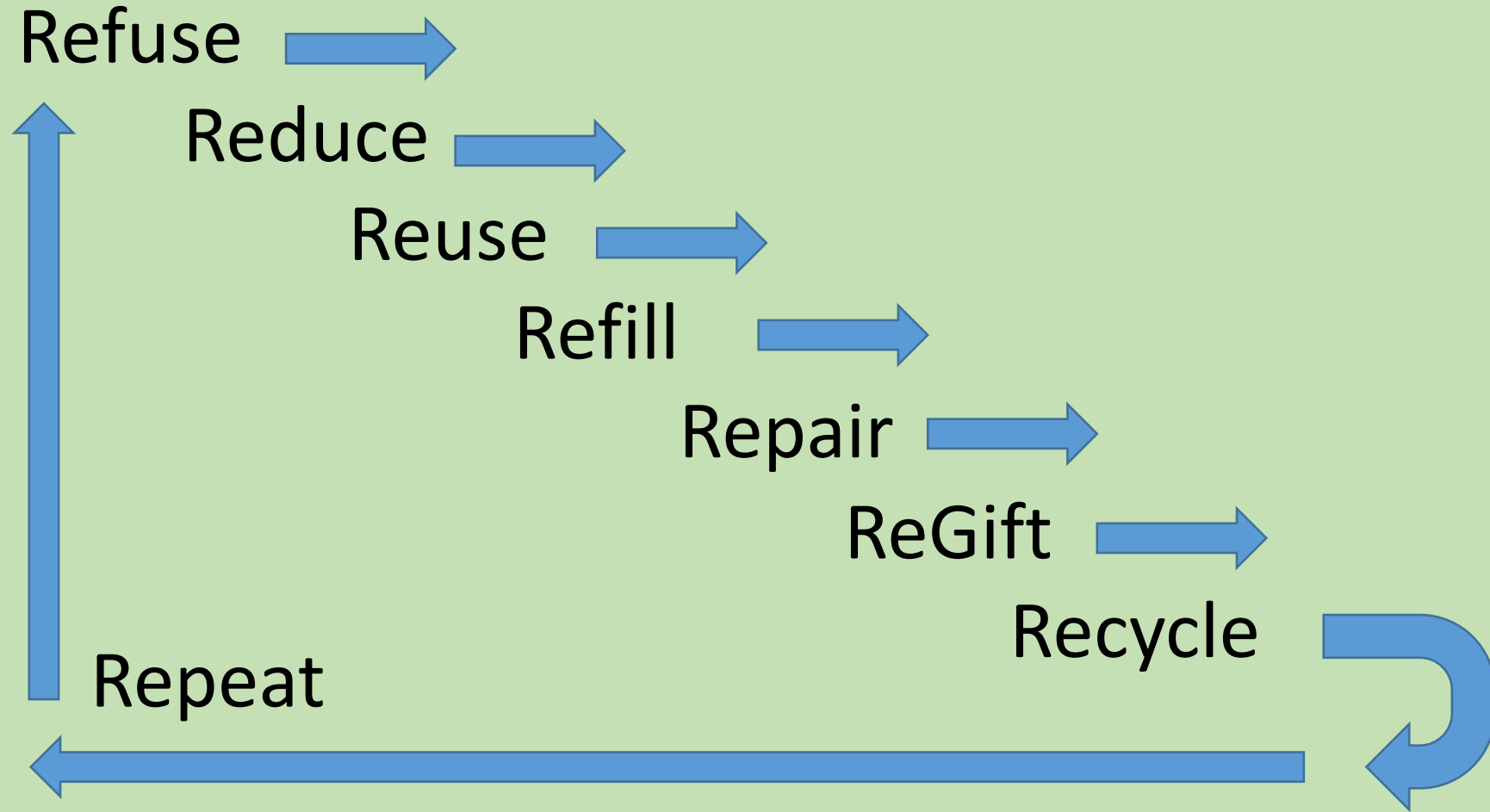


# 8 R's



## Local organic foods

Bought 150 sets of utensils at goodwill and borrowed 150 plates and napkins. Now a traveling party box

We bought stainless steel mugs as a gift from steelys in SF, because they practice sustainability  
Talented friends to give large quantity homemade gifts like PB, knitted cup sleeves, and honey instead of gifts.

Because we made all the food from scratch, we didn't have much waste.

No individually wrapped snacks. Opted for nuts, dried fruit, and pop corn, since it comes in bulk bags (less wrapping).

We took compost home and organized recycling right away.

We got kegs of beer and wine instead of bottles/boxes/cans.

We used salvaged wood for signs, and salvaged material for the homemade prayer flags.

We bought water bottles from goodwill for 50 cents each to give out to people who didn't have any.

Natural soaps, decomposable sponges, and homemade sunscreen and bug spray....

**By the way, we are still enjoying your peanut butter!**



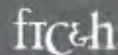




# ECONOMIC IMPACT POTENTIAL

AND CHARACTERIZATION OF MUNICIPAL SOLID WASTE IN MICHIGAN

2016



WMSBF.ORG



KENT COUNTY  
DEPARTMENT OF  
PUBLIC WORKS



**REPUBLIC**  
SERVICES



PADNOS

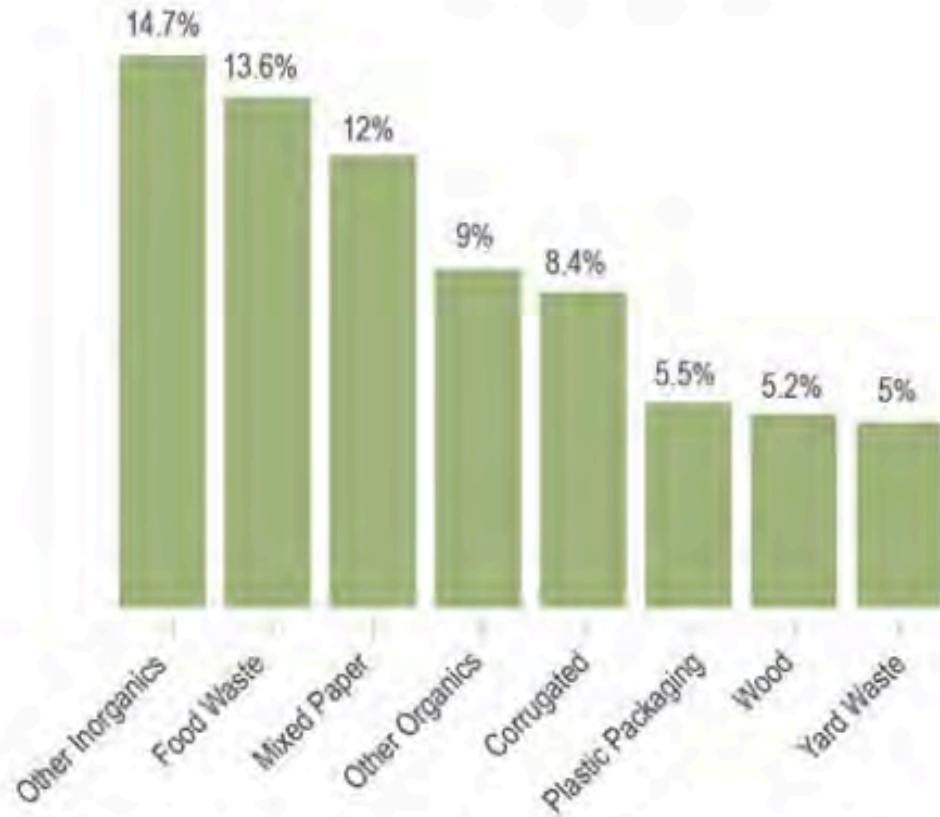


**RAPID**  
GREEN GROUP

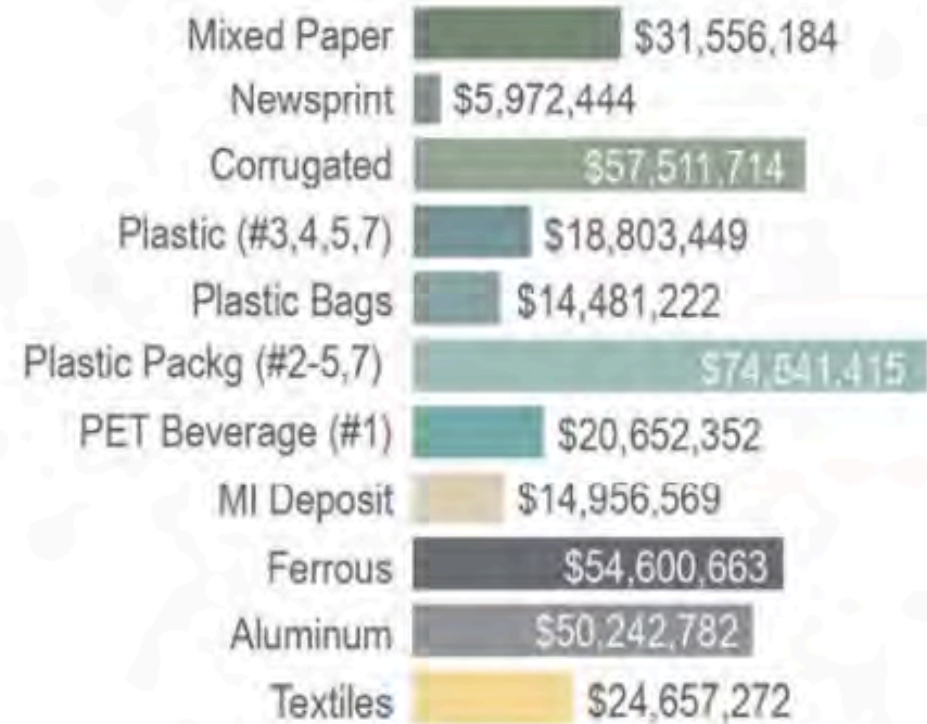


## Top Materials in Michigan MSW Composition

(mean % by weight - 5% or greater)



## Total Value of Michigan MSW Commodities Disposed (\$)



We estimate total material value of Michigan MSW disposed in landfills and incinerators of as much as **\$368 million per year**. If all of this material was recovered and sold to the market it would have an estimated **total economic impact of up to \$399 million per year**, and employment impact of up to **2,619 jobs**.



## Office and household electronics

- Air cleaners humidifiers
- Answering machines
- Blenders, kitchen electronic items
- Vacuum Cleaners
- Curling irons/hair dryers
- Calculators
- Cellular telephones
- Copiers\*
- DVD players
- Fax machines
- Gaming systems
- Ipods, MP3 players
- Microwaves
- Small refrigerators
- Window air conditioners
- Dehumidifiers
- Power tools (electric only)
- Various media (floppy disks, CDs, memory sticks)
- Radios, stereos and CD players
- Telephone Systems
- Televisions\*
- Typewriters
- VCRs

(We do not take large appliances.)

## Computer components and accessories

- APC Battery back-ups
- Circuit boards
- Docking stations, routers
- Internal, external disk drives
- Keyboards and mice
- Laptops, MACs, PCs
- Modems
- Monitors\*
- Networking equipment
- PDAs (Blackberrys, Palm Pilots, iPhones)
- Power cords, cables
- Printers, scanners
- Servers, server racks
- Speakers
- Tape back-ups

**\*There is a recycling fee for:**

•**CRTs (Cathode Ray Tube) televisions and monitors**

*This fee is based on weight and size. [Click here](#) for pricing.*

•**Copiers (requested donation of \$50.00 per unit)**

•**Small items with refrigerants (flat fee of \$15)**

•**House hold batteries (\$1/per pound)**





## ACCEPTED ITEMS



Aluminum Cans/Foil



Catalogs



Glass Bottles/ Jars



Junk Mail / Envelopes



Metal Cans



Newspaper & Inserts



Phone Books



Plastic Containers  
(#1-#7)



Office Paper

## NOT ACCEPTED ITEMS



Electronics



Film Plastics  
(Wrap, Tarps, Sheets)



Food



Hazardous  
Material



Ink Cartridges



Styrofoam

## Accepted Items:

Aluminum cans/Foil

Catalogs

Glass Bottles/Jars

Junk Mail/Envelopes

Metal Cans

Newspapers & Inserts

Office Paper

Phone Books

Plastic Container 1 through 7

# ARROWCYCLE



by

ARROWWASTE  
INC.



green  
MICHIGAN.org

## Recycling

Material	Examples	Accepted Materials	Materials Not Accepted
Glass Bottles & Jars		<ul style="list-style-type: none"> <li>clear &amp; colored food or beverage glass</li> <li>wash clean</li> <li>remove lids &amp; recycle (if metal)</li> <li>labels are OK</li> </ul>	<ul style="list-style-type: none"> <li>dishes</li> <li>ceramics</li> <li>light bulbs</li> <li>mirrors</li> <li>window panes</li> <li>auto glass</li> <li>other non-food or non-beverage glass</li> </ul>
Paperboard		<ul style="list-style-type: none"> <li>flattened</li> <li>no plastic-coated paperboard that held liquid (e.g. milk cartons)</li> <li>remove from plastic bags</li> </ul>	<ul style="list-style-type: none"> <li>milk or juice cartons</li> <li>paper plates</li> </ul>
Cardboard		<ul style="list-style-type: none"> <li>flatten boxes</li> <li>remove large staples &amp; plastic wrap</li> <li>tape &amp; labels are OK</li> <li>must be clean</li> <li>DO NOT bundle or tie together</li> </ul>	<ul style="list-style-type: none"> <li>boxes with glued-in foam or plastic packing</li> <li>boxes with heavy staples</li> <li>boxes with metal or plastic strapping</li> </ul>
Newspaper & Phonebook		<ul style="list-style-type: none"> <li>remove plastic strapping, rubber bands and plastic bags</li> </ul>	<ul style="list-style-type: none"> <li>remove plastic bags &amp; rubber bands</li> </ul>

Magazines & Catalogs		<ul style="list-style-type: none"> <li>remove from plastic bags</li> </ul>	<ul style="list-style-type: none"> <li>bound books</li> <li>magazines wrapped in plastic bags</li> </ul>
Type 2 & 4 Plastic Shopping Bags		<ul style="list-style-type: none"> <li>must be empty, clean &amp; dry</li> <li>must be stamped: 2 or 4</li> <li>This is the only type of bag we are able to recycle.</li> </ul>	<ul style="list-style-type: none"> <li>Do not include any other type of bag that is not stamped with: 2 or 4</li> </ul>
Mail & Office Paper		<ul style="list-style-type: none"> <li>put shredded paper in a clear plastic bag</li> <li>staples are OK</li> <li>plastic windows in envelopes are OK</li> </ul>	<ul style="list-style-type: none"> <li>pet food bags</li> <li>wrapping paper</li> <li>tissue paper</li> <li>tissue, napkins</li> <li>paper towels</li> <li>waxed paper</li> <li>food-coated or wet paper</li> </ul>
Type 1 thru 7 Plastics		<ul style="list-style-type: none"> <li>must be stamped: 1 thru 7 located on or near the bottom of the plastic item</li> <li>NO STYROFOAM</li> <li>wash clean; labels are OK</li> <li>throw away caps &amp; lids</li> </ul>	<ul style="list-style-type: none"> <li>bottles containing auto fluids or hazardous materials</li> <li>styrofoam or any type of foam (cups, plates, packing peanuts, packing materials, insulation)</li> <li>plastic film and other non-rigid plastic (no garbage bags, zip bags, dry cleaner bags, etc.)</li> <li>no bulky plastics (no pools or pool covers, no toys, no piping, no tarps or sheets of plastic)</li> </ul>
Metal Cans & Foil		<ul style="list-style-type: none"> <li>wash clean</li> <li>labels are OK</li> <li>aerosol cans must be empty – throw away cap &amp; nozzle</li> </ul>	<ul style="list-style-type: none"> <li>bakeware, utensils, pots &amp; pans</li> <li>hanger</li> <li>car parts</li> <li>scrap metal</li> <li>fencing</li> <li>propane cylinders or any other compressed gas cylinder</li> <li>foil backed paper, gum wrappers, foil wrapping paper</li> <li>lawn furniture</li> <li>siding, window/door frames or any construction material</li> </ul>



# Allegan County Recycling Sites

- Appliances accepted:  
Refrigerators, Air Conditioners, Microwaves, Freezers, Washing Machines and Dryers, Dehumidifiers, and Dishwashers. **Water Softeners, Humidifiers are not accepted.**
- Tires (Each household is limited to 4 car tires or 1 semi tire each year, due to costs. Cards will be punched at the site.)
- Household batteries, all types (No vehicle batteries)
- Junk Mail
- Phone Books, Magazines and Catalogs
- Corrugated cardboard and boxboard (such as cereal or cracker boxes)
- Polystyrene (Styrofoam cups, meat trays, egg cartons, packing material, etc.)





Compost  
**YES!**

**YES!**

Candy & Chip Wrappers  
**YES!**

Recycle: Plastic, Cans, & Bottles  
**YES!**

COMPOST ONLY

PAPER ONLY

CANDY & CHIP WRAPPERS ONLY

CANS & BOTTLES ONLY

RECYCLABLE  
PAPER

[www.greenmichigan.org](http://www.greenmichigan.org)

[www.earth911.org](http://www.earth911.org)

[www.ottawafood.org](http://www.ottawafood.org)

[www.heifer.org](http://www.heifer.org)

[www.haitipoverty.org](http://www.haitipoverty.org)

[www.comprenew.org](http://www.comprenew.org)

[www.terracycle.com](http://www.terracycle.com)

[www.recyclenation.com](http://www.recyclenation.com)

[www.call2recycle.org](http://www.call2recycle.org)

[www.pinterest.com](http://www.pinterest.com)

Search for recycling resources

Search for recycling resources

Ottawa County Food Policy Council

Ending Hunger and Poverty

Products from recycled materials

Electronic Recycling

100's of ways to recycle materials

Search for recycling resources

Battery Recycling

DIY on Steroids

ken@greenmichigan.org

