

MRF Material Flow Study



Michigan Recycling
Coalition
Annual Conference
Thursday, May 5, 2016



Regional Synergies: Hub and Spoke



Our Regional MRF receives recyclables from rural drop-sites



Residential Curbside Recycling



Commercial Recycling Collection

- 80%+ of residents using Recycling Program
- Over 300 businesses using Curbside Recycling service



Dual-stream expansion 2010



2 Categories



Paper, Boxes and Bags



Mixed Containers



Comprehensive

Recycle more, sort less Drop Site and Curbside

Mixed Containers

Juice boxes, milk cartons and paper cups

- Please rinse and flatten.
- NO juice pouches or straws

Plastic bottles, jugs and jars

- All numbers: #1, #2, #3, #4, #5, #6, and #7
- NO Styrofoam
- NO motor oil jugs
- Please rinse and flatten. *There's no need to remove labels.*
- NO toys, buckets, or durable dishes
- NO "biodegradable" or corn-based plastics (PLA)
- NO plastic bags. They belong with your Paper, Boxes and Bags.

Plastic tubs, trays and cups

- All numbers: #1, #2, #3, #4, #5, #6, and #7
- NO Styrofoam
- Please rinse and flatten. *There's no need to remove labels.*
- NO durable dishes, wash tubs, buckets, etc.
- NO "biodegradable" or corn-based plastics (PLA)
- NO plastic bags. They belong with your Paper, Boxes and Bags.

Metal cans, foil and trays

- Metal lids are okay.
- Aluminum, steel and tin
- Please rinse and flatten.
- NO aerosol cans or propane tanks

Glass bottles and jars

- Clear, green, brown, and blue
- Please rinse.
- *There's no need to remove labels.*
- NO light bulbs, window glass, or glass dishes



Paper, Boxes and Bags

Cardboard and paper bags

- Boxes from frozen and refrigerated foods are okay.
- Bookboard—like cereal boxes and paper towel cores—is okay.
- Please remove packing materials and flatten.
- NO Styrofoam
- NO pet food bags
- Accepted at all drop sites.
- Curbside Only: Cardboard must fit entirely in your green tote.
- NO loose plastic bags. Please stuff all plastic bags into one bag and tie it shut.

Plastic grocery and bread bags

- Stretchy bags only
- Clean, dry bags only
- Please put all of the bags into one bag and tie it shut.
- Shrink wrap—like around rolls of paper towels and cases of water bottles—is okay.
- NO shrink wrap *(sand in wrap, food and cover dishes)*
- NO cereal box liners
- NO "crunchy" plastics—cellophane, prezel bag, potato chip bags, etc.



Stuff all of your plastic bags into one bag and tie it shut.

Newspapers and inserts

- NO newspapers which have gotten wet and/or yellowed

Magazines, catalogs and books

- Hardcover, paperback, and phone books are okay.

Office paper

- Accepted at all drop sites
- Junk mail and envelopes
- Copy paper, writing paper, and file folders
- Shredded paper, too
- *Please put it in a newspaper bag.*
- NO construction paper or dark or bright copy paper
- NO padded, plastic, or Kraft (gold paper) envelopes
- *There's no need to remove:*
 - paper clips
 - plastic windows from envelopes
 - stickers
 - sticky notes
 - mailing labels
 - staples
 - tags

Still not sure if it's recyclable?

Visit us at www.EmmetRecycling.org or call 231-348-0640



Recycle even more—at the Drop-off Center

Clothing and bedding

- Clean and dry only, please.
- FREE



Shoes and work boots

- Please rubber band in pairs.
- FREE



Small appliances

(also see Electronics)

- Please throw away removable parts not made of plastic or metal—vacuum cleaner bags, glass carafes, wicks, microwave turntables, etc.
- FREE



Large appliances

(also see Electronics)

- \$5 per arm handling fee
- Refrigerator, freezer, air conditioner or dehumidifier: If not tagged by a certified technician—as required by law before recycling or disposal—add \$25.



Electronics

ALL FREE* ALL THE TIME!

- All electronics from households and businesses with under ten employees are now accepted for FREE! Limit seven items per day.



* Businesses with over ten employees, please call for fee information.

Drop-off Center (continued)

Batteries

- All kinds of vehicle and household batteries are accepted at the Drop-off Center.
- Household batteries may also be dropped off during business hours at:

Anson—EWC Furniture & Son

Harbor Springs—Meyer Hardware & Deans Fisher Building Center

Mackinaw City—Coffman Hardware and the Village Hall

Pellston—Cook Hardware

Petoskey—Fischmann's CarQuest, Meyer Ace Hardware, and Radio Shack

- Batteries from home use FREE
- Businesses \$1 per pound



Fluorescent light bulbs

- Compact fluorescent bulbs okay
- NO broken bulbs
- NO incandescent (ordinary) or halogen bulbs
- Bulbs from home use FREE
- Businesses: please call 231-348-0640 for rates.



Tires

- On the rim is okay.
- 12" each for car and light truck tires
- Bike tires 4 for \$2.50
- Call for other tire prices.



Motor oil plus

- Hydraulic fluid, fuel oil, automatic transmission fluid, lube oils, and diesel fuel are okay.
- NO gasoline or contaminated oil (e.g., oil with gas or water) to dispose of these call the Household Chemical Drop-off Program at 231-348-0640.
- FREE



Antifreeze

- Both ethylene and propylene glycol-based products
- FREE



Asphalt shingles

- Can include nails, tar paper, and felt
- Shingles must be from a home, if from apartments or condominiums there must be 4 units or fewer in the building.
- Accepted seasonally from April 1 to November 1
- NO cedar shakes, roll roofing, roofing tiles or drip edge
- SAVE! \$10/cubic yard to recycle, \$22 to landfill



Rubble and ceramic fixtures

- Rocks, bricks, concrete, asphalt, ceramics and porcelain including toilets, sinks and bathtubs
- Rebar and wire mesh are okay.
- Please remove seats, faucets, etc. from plumbing fixtures.
- NO lead paint or asbestos
- SAVE! \$10/cubic yard to recycle, \$22 to landfill



Wood

- NO treated wood, plywood, or particle board
- Nails are okay.
- SAVE! \$10/cubic yard to recycle, \$22 to landfill



Scrap metal

- Steel, aluminum, copper, cast iron, and other metals
- NO propane tanks
- NO vehicle tanks
- FREE











































Paper Cartons & Poly-coated Cups



Sorted Cartons



Unloading Mobile Carts on to Conveyor



Carton Bales







Emmet County Recycling

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