

Manistee-Missaukee-Wexford Multi-County Materials Management Planning Committee

Date: June 25, 2025
Time: 10:00 a.m. – 12:00 p.m.
Location: Missaukee County Annex Building
105 South Canal Street
Lake City, MI 49651

PROPOSED AGENDA

- I. Call to Order**
- II. Public Comment**
- III. Approval of Agenda**
- IV. Approval of May 28, 2025 Meeting Minutes**
- V. Materials Management Planning**
 - a. Survey Update**
 - b. Process Update**
 - c. County Demographics**
 - d. Previous Planning Efforts**
 - e. Community Engagement Thoughts**
- VI. Committee Member Comments**
- VII. Public Comment**
- VIII. Adjourn**

Posted: _____

Signature: _____

**Manistee-Missaukee-Wexford Multi-County
Materials Management Planning Committee Minutes
May 28, 2025 at 10:00 AM
Manistee County Government Center
415 3rd St, Manistee, MI 49660**

MMPC Member Attendance			
Chris Gee, GFL <i>rep. of a solid waste disposal facility</i>	P	Nikki Koons, Manistee County <i>elected official of the county</i>	P
Todd Harland, Republic Services <i>rep. of a hauler</i>	P	Larry Paquette, Cedar Creek Township <i>elected official of a township</i>	E
<i>To be appointed as alternate</i> Luke Mattison, Ms. Green <i>rep. of a materials recovery facility</i>	A	Joe Gryzbowski, City of Manton <i>elected official of a city or village</i>	P
Jason Murphy, Waste Management <i>rep. of a composting facility</i>	P	Cory Brown, Northern Disposal <i>business rep. generating material</i>	P
Karla Kasten-Smith, BARC <i>rep. of a diversion, reuse, or reduction</i>	P	Mike Szokola, Networks Northwest <i>rep. of the regional planning area</i>	P
Renee Mallison, Manistee Conservation District <i>rep. of an environmental interest group</i>	E	Sherry Blaszak, Missaukee County Planning Commission <i>Member of General Public</i>	P
Jason Baughan, Wexford County <i>multi-county appointment</i>	E		
TO BE APPOINTED <i>Multi-County Elected Official (Wexford)</i>	-	<i>Attendance Key:</i> <i>A – Absent</i>	<i>P – Present</i> <i>E - Excused Absence</i>
Staff in Attendance: Lisa Sagala (Manistee County), Mathew Cooke (DPA Representative)			

1. Call to Order

Larry Paquette, MMPC Chair, called the meeting to order at 10:05 a.m.

2. Public Comment

None.

3. Review Proposed Agenda

Motion by Karla Kasten-Smith, supported by Jason Murphy, to approve the May 29, 2025 MMPC agenda as presented. Motion carried unanimously.

4. Approval of April 23, 2025 Meeting Minutes

Motion by Chris Gee, supported by Sherry Blaszk, to approve the April 23, 2025 MMPC Meeting Minutes as presented. Motion carried unanimously.

5. EGLE Materials Management Planning Presentation

Tracy Tomazsewski, EGLE Recycling Specialist, provided a Materials Management Planning presentation (attached).

6. Materials Management Planning

Survey

The MMPC reviewed the draft surveys and offered the following comments:

Resident Survey

- Change municipality to township, city, or village
- Asking if residents know how much/if they pay for recycling
 - Millage, taxes, PA 59, etc.
- Asking if residents would pay more for increased services
 - Would you participate, pay to participate, pay more to participate
 - pay for recycling services, organics, none, etc.

Local Units of Government Survey

- Add non-existent to Q6 options
- Add Quarterly, Multiple times per year to Q10 answers
- Add question: If they do not recycle, why?

Business Survey

- Question about business food waste
- Styrofoam and to-go containers - how are they handled?

7. Public Comment

None.

8. Committee Comments

None.

9. Adjourn

Mathew Cooke mentioned the next meeting is planned for June 25th at 10:00am at the Missaukee County Annex Building in Lake City.

Motion by Mike Szokola, supported by Joe Gryzabowski, to adjourn the May 28, 2025 MMPC meeting at 11:26 am. Motion carries unanimously.

MMP Resident Survey

Start of Block: Demographics

INTRO Michigan is updating its Materials Management Plans (formerly Solid Waste Plans) by July 2027 to prioritize sustainable practices like recycling and composting, as required by updated state law. This survey will assist the respective Materials Management Planning Committees with updating the plans to ensure proper management of all non-hazardous materials, establish guidelines for facility locations, document existing and future infrastructure needs, and define community goals for a more sustainable approach to materials management; more information is available at nwm.org/mmp. Responses to the 25 question MMP Resident Survey are confidential and anonymous, and should take about 8 to 10 minutes to complete. If you leave your email to be entered to win 1 of 5 \$50 Gift Cards, it will only be used for that purpose. If there are any questions, you would like a paper copy of the survey, or need any additional assistance, please contact Mathew Cooke, Community Planner at Networks Northwest by email at mathew.cooke@networksnorthwest.org or phone at (231) 929-5056.

Q1 Are you a permanent resident, seasonal resident, or visitor in the Northwest Lower Michigan region? This includes Antrim County, Benzie County, Charlevoix County, Emmet County, Grand Traverse County, Kalkaska County, Leelanau County, Manistee County, Missaukee County, and Wexford County

- ☐ Permanent Resident (1)
 - ☐ Seasonal Resident (2)
 - ☐ Visitor (3)
-

Display this question:

If Q1 = Permanent Resident

And Q1 = Seasonal Resident

Q2 What is your County of residence, permanent or seasonal?

- ☐ Antrim County (7)
- ☐ Benzie County (8)
- ☐ Charlevoix County (9)
- ☐ Emmet County (10)
- ☐ Grand Traverse County (11)
- ☐ Kalkaska County (12)
- ☐ Leelanau County (13)
- ☐ Manistee County (14)
- ☐ Missaukee County (15)
- ☐ Wexford County (16)
- ☐ Other - please list (17) _____

Display this question:

If Q1 = Visitor

Q3 Which counties do you visit most often for business, recreation, or otherwise? Select all that apply.

- ☐ Antrim County (7)
- ☐ Benzie County (8)
- ☐ Charlevoix County (9)
- ☐ Emmet County (10)
- ☐ Grand Traverse County (11)
- ☐ Kalkaska County (12)
- ☐ Leelanau County (13)
- ☐ Manistee County (14)
- ☐ Missaukee County (15)
- ☐ Wexford County (16)
- ☐ Other - please list (17) _____

Display this question:

If Q2 = Antrim County

Q2A Which Antrim County municipality (Township, City, or Village) do you reside in?

▼ Banks Township (1) ... Unsure (21)

Display this question:

If Q2 = Charlevoix County

Q2B What Charlevoix County municipality (Township, City, or Village) do you reside in?

▼ Bay Township (1) ... Unsure (20)

Display this question:

If Q2 = Manistee County

Q2C What Manistee County municipality (Township, City, or Village) do you reside in?

▼ Arcadia Township (1) ... Unsure (21)

Display this question:

If Q2 = Missaukee County

Q2D What Missaukee County municipality (Township, City, or Village) do you reside in?

▼ Aetna Township (1) ... Unsure (18)

Display this question:

If Q2 = Wexford County

Q2E What Wexford County municipality (Township, City, or Village) do you reside in?

▼ Antioch Township (1) ... Unsure (22)

Q4 How long have you lived at your primary residence?

- ☐ Less than 1 year (1)
 - ☐ 1 to 3 years (2)
 - ☐ 3 to 5 years (3)
 - ☐ 5 to 10 years (4)
 - ☐ 10 plus years (5)
-

Q5 How important do you believe recycling is for our communities, environment, and natural resources?

- ☐ Not at all important (1)
 - ☐ Slightly important (2)
 - ☐ Moderately important (3)
 - ☐ Very important (4)
 - ☐ Extremely important (5)
-

Q6 How important is it for our community to reduce the amount of waste going into landfills?

- ☐ Not at all important (1)
- ☐ Slightly important (2)
- ☐ Moderately important (3)
- ☐ Very important (4)
- ☐ Extremely important (5)

End of Block: Demographics

Start of Block: Block 1

Q7 How do you pay for material management (Trash, Recycling, Organics, etc.) services?
Select all that apply.

- ☐ County Millage (1)
- ☐ Public Act 69 (Taxes) (2)
- ☐ Property Taxes (7)
- ☐ Private Hauler (3)
- ☐ Subscription Service (4)
- ☐ Other - Please list (5) _____
- ☐ I am not sure (6)

Display this question:

If Q2 = Charlevoix County

Q7A Are you aware of the Charlevoix County Recycling Millage?

- ☐ Yes (1)
- ☐ No (2)

Q8 Does your household currently participate in recycling?

- ☐ Yes (1)
- ☐ No (2)

Skip To: Q9 If Q8 = No

Display this question:

If Q8 = Yes

Q8A If yes, what types of materials do you typically recycle at home? Select all that apply.

- ☐ Paper (1)
- ☐ Cardboard (2)
- ☐ Plastic Bottles & Jugs (3)
- ☐ Plastic Tubs & Containers (4)
- ☐ Glass Bottles & Jars (5)
- ☐ Metal cans (6)
- ☐ Food Scraps (7)
- ☐ Yard Waste (8)
- ☐ Textiles (9)
- ☐ Electronic Waste (10)
- ☐ White Goods (such as appliances) (11)
- ☐ Bulk Waste (such as furniture, mattresses) (12)
- ☐ Other - Please list (13) _____

Display this question:

If Q8 = Yes

Q8B How is your recycling collected? Select all that apply.

- ☐ Curbside pick-up (1)
- ☐ Drop-off Center (2)
- ☐ Private Service (3)
- ☐ Subscription Service (4)
- ☐ Other (please list) (5) _____

Display this question:

If Q8 = Yes

Q8C What are your main reasons for recycling? Select all that apply.

- ☐ Environmental Responsibility (1)
- ☐ Reducing Pollution (2)
- ☐ Cost Savings (3)
- ☐ Promote Sustainability (4)
- ☐ Other (please specify) (5) _____

Q9 If you don't recycle, would you be interested in increased recycling availability?

- ☐ Yes (1)
 - ☐ Maybe (2)
 - ☐ No (3)
-

Q10 Are there barriers that prevent you from recycling? Select all that apply.

- ☐ Costs (1)
 - ☐ Lack of curbside recycling (2)
 - ☐ Location of drop-off sites (3)
 - ☐ Don't believe there is value (4)
 - ☐ Too difficult (5)
 - ☐ Other - please list (6) _____
-

Q11 What information or resources about recycling and waste reduction would you find helpful? Select all that apply.

- ☐ Clearer Guidelines (1)
 - ☐ Online Resources (2)
 - ☐ Workshops (3)
 - ☐ Community Recycling Events (4)
 - ☐ Other - please list (5) _____
-

Q12 How does your household typically dispose of trash (i.e. non-recyclable waste)? Select all that apply.

☐ Private hauler curbside pickup (1)

☐ Tax paid curbside pickup (2)

☐ Drop-off site (3)

☐ Private - Pay to throw (4)

☐ Other - Please list (5) _____

Page Break

Q13 Do you participate in composting?

☐ Yes (1)

☐ No (2)

Display this question:

If Q13 = Yes

Q13A How do you compost? Select all that apply.

☐ Compost at home (1)

☐ Community compost program (2)

☐ Local farm compost (3)

☐ Compost Subscription Service (4)

☐ Other - Please list (5) _____

Display this question:

If Q13 = No

Q13B If you do not utilize compost programs, what would encourage you to participate in composting? Select all that apply.

- ☐ Affordability (1)
 - ☐ Access (2)
 - ☐ Educational Programs (3)
 - ☐ Increased Information (4)
 - ☐ Access to composting equipment (5)
 - ☐ Other - Please list (6) _____
-

Q14 Are the rules and guidelines clear for recycling in your community clear?

- ☐ Yes (1)
 - ☐ No (2)
 - ☐ I am unsure of my community's guidelines (3)
-

Q15 Do you know what recycling items are not accepted by your local program?

- ☐ Yes (1)
 - ☐ No (2)
 - ☐ Unsure (3)
-

Q16 Are there any specific types of waste or materials that you find particularly difficult to recycle or dispose of properly? Please list all.

Q17 What ways could our communities be doing a better job of managing waste and resources? Select all that apply.

- ☐ Reducing waste (1)
- ☐ Reusing items (2)
- ☐ Composting more (3)
- ☐ Other - Please list (4) _____

Q18 What services would you like to see offered in your community? Select all that apply.

- ☐ Subscription Compost Program (1)
- ☐ Increased recycling access (2)
- ☐ Bulk Waste Pick-up (3)
- ☐ Green Waste Pick-up (4)
- ☐ Electornic Waste Drop-Off (5)
- ☐ More Household Hazardous Waste Collection (6)
- ☐ Other - Please list (7) _____

Q19 How interested are you in learning more about waste reduction and management, recycling, and organics in your community?

- ☐ Not interested at all (1)
 - ☐ Slightly interested (2)
 - ☐ Moderately interested (3)
 - ☐ Very interested (4)
 - ☐ Extremely interested (5)
-

Q20 Are you willing to pay for increased service and access? Select all that apply.

- ☐ I would pay more to increase access to recycling services (1)
 - ☐ I would pay more to increase access to organic services (2)
 - ☐ I would pay more to increase access to household hazardous waste services (3)
 - ☐ I would pay more to increase access to mattress, furniture, appliance recycling (4)
 - ☐ I would not pay for increased services (5)
-

Q21 Are there any other considerations in regards to materials management (trash, recycling, organics, etc.) planning that should be considered or examined by the respective Materials Management Planning Committees?

Page Break

Q22 What age range do you fall into?

- ☐ Under 18 (1)
 - ☐ 18 - 24 (2)
 - ☐ 25 - 34 (3)
 - ☐ 35 - 44 (4)
 - ☐ 45 - 54 (5)
 - ☐ 55 - 64 (6)
 - ☐ 65 - 74 (7)
 - ☐ 75 - 84 (8)
 - ☐ 85 or older (9)
 - ☐ Prefer not to say (10)
-

Q23 Which of the following describes the number of people, including yourself, living in your household?

- ☐ 1 (1)
 - ☐ 2 (2)
 - ☐ 3 (3)
 - ☐ 4 (4)
 - ☐ 5 (5)
 - ☐ 6 or more (6)
-

Q24 Which of the following best describes your total annual household income?

- ☐ Under \$30,000 (1)
- ☐ \$30,000 to \$49,999 (2)
- ☐ \$50,000 to \$69,999 (3)
- ☐ \$70,000 to \$89,999 (4)
- ☐ \$90,000 to \$109,999 (5)
- ☐ \$110,000 to \$129,999 (6)
- ☐ \$130,000 to \$149,999 (7)
- ☐ \$150,000 and over (8)
- ☐ Prefer not to answer (12)

Q25 Please leave your email if you would like to be entered to win 1 of 5 \$50 Gift Cards.

End of Block: Block 1

MMP LUGs Survey

Start of Block: Default Question Block

Intro Michigan is updating its Materials Management Plans (formerly Solid Waste Plans) by July 2027 to prioritize sustainable practices like recycling and composting, as required by updated state law. This survey will assist the respective Materials Management Planning Committees with updating the plans to ensure proper management of all non-hazardous materials, establish guidelines for facility locations, document existing and future infrastructure needs, and define our community's goals for a more sustainable approach to materials management; more information is available at nwm.org/mmp Responses to the MMP Local Units of Government Survey are confidential and anonymous, and should take about 8 to 10 minutes to complete. If you supply an email, it will only be used for the purpose of the response. If there are any questions, you would like a paper copy of the survey, or need any additional assistance, please contact Mathew Cooke, Community Planner at Networks Northwest by email at mathew.cooke@networksnorthwest.org or phone at (231) 929-5056.

End of Block: Default Question Block

Start of Block: Block 1

Q1 What County is your municipality (Township, City, Village, or County itself) located in?

- ☐ Antrim County (11)
- ☐ Benzie County (12)
- ☐ Charlevoix County (13)
- ☐ Emmet County (14)
- ☐ Grand Traverse County (15)
- ☐ Kalkaska County (16)
- ☐ Leelanau County (17)
- ☐ Manistee County (18)
- ☐ Missaukee County (19)
- ☐ Wexford County (20)
- ☐ Other - Please list (21) _____

Display this question:

If Q1 = Antrim County

Q1A Which Antrim municipality do you represent?

▼ Banks Township (1) ... Antrim County (21)

Display this question:

If Q1 = Charlevoix County

Q1B Which Charlevoix municipality do you represent?

▼ Bay Township (1) ... Charlevoix County (20)

Display this question:

If Q1 = Manistee County

Q1C Which Manistee municipality do you represent?

▼ Arcadia Township (1) ... Manistee County (21)

Display this question:

If Q1 = Missaukee County

Q1D Which Missaukee municipality do you represent?

▼ Aetna Township (1) ... Missaukee County (18)

Display this question:

If Q1 = Wexford County

Q1E Which Wexford municipality do you represent?

▼ Antioch Township (1) ... Wexford County (22)

Q2 What best describes your role with your community?

- ☐ Supervisor (1)
- ☐ Mayor (2)
- ☐ Clerk (3)
- ☐ Other Elected Official (4)
- ☐ Administrator (5)
- ☐ Resource Recovery/Recycling Director, or the like (8)
- ☐ Other - Please list (7) _____

Q3 What types of materials management programs or services are currently implemented or supported by your community? Select all that apply.

- ☐ Curbside recycling (1)
- ☐ Recycling drop-off center (2)
- ☐ Composting (3)
- ☐ Household Hazardous Waste (HHW) Collection (4)
- ☐ Public education events (5)
- ☐ Other - Please list (6) _____

Display this question:

If Q3 != Curbside recycling

And Q3 = Recycling drop-off center

And Q3 = Composting

And Q3 = Household Hazardous Waste (HHW) Collection

Q3A If you do not offer recycling, household hazardous waste, or composting, why? Select all that apply.

- ☐ Costs (1)
- ☐ Funding (2)
- ☐ Access (3)
- ☐ No Community Interest (4)
- ☐ County offers services (5)
- ☐ Private services are available (6)
- ☐ Other - Please list (7) _____

Q4 How would you rate the effectiveness of the current materials management infrastructure and services within your community?

- ☐ Extremely effective (1)
 - ☐ Very effective (2)
 - ☐ Moderately effective (3)
 - ☐ Slightly effective (4)
 - ☐ Not effective at all (5)
-

Q5 What do you believe are the biggest materials management challenges facing your community? Select all that apply.

- ☐ Infrastructure (1)
 - ☐ Limited landfill capacities (2)
 - ☐ Recycling contamination (3)
 - ☐ Educational awareness (4)
 - ☐ Public participation (5)
 - ☐ Lack of end markets (6)
 - ☐ State and local regulations (7)
 - ☐ Other - Please list (8) _____
-

Q6 How well are different types of materials currently managed within your county?

	Excellent (1)	Good (2)	Average (3)	Poor (4)	Terrible (5)	Non- Existent (6)
Paper (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plastics (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Glass (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Metals (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Construction Debris (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electronic Waste (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Matresses (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tires (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Household Hazardous Waste (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
White Goods (appliances) (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bulky Waste (furniture, mattresses) (12)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Yard Waste (13)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prescription Drugs (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Display this question:

If Q6 = Terrible

And Q6 = Poor

And Q6 = Non-Existent

Q6A If you answered poor, terrible, or non-existent, please briefly explain why? Feel free to offer ideas to increase how materials can be managed better.

Q7 What should be the primary focus of the updated County Materials Management Plan from your community's perspective? An example could be increased recycling participation and access within the community or launching a compost option in the community.



Q8 Which of the following areas should receive the most attention in the updated County plan to best support your community's materials management efforts? Select your top three.

- ☐ Funding for infrastructure development in your county (1)
 - ☐ State-level public education and outreach resources (2)
 - ☐ Clearer State policies and regulations (3)
 - ☐ Market development initiatives for recycled materials relevant to your county (4)
 - ☐ Guidance and resources for prevention and waste reduction programs (5)
 - ☐ Support for reducing contamination in recycling in your county (6)
 - ☐ Other - Please list (7) _____
-

Q9 What types of infrastructure investments are most needed in your county to improve materials management? Select all that apply.

- ☐ Funding for local recycling facilities (1)
 - ☐ Click to write Choice 7 (2)
 - ☐ Composting sites (3)
 - ☐ Collection equipment (4)
 - ☐ Transfer stations (5)
 - ☐ Landfill (6)
 - ☐ Other - Please list (7) _____
-

Q10 Do you see value in pursuing the opportunity for region-wide collection of household hazardous waste year round, waste authority, or a single regional contract for collection events? Select all that apply.

- ☐ Both year round collection and single contract (1)
 - ☐ Year round collection (2)
 - ☐ Quarterly collection (3)
 - ☐ Collection multiple times per year (4)
 - ☐ Regional HHW Contract (5)
 - ☐ Multi-County HHW Contract (6)
 - ☐ Both year round collection and single contract (7)
 - ☐ Waste Authority (10)
 - ☐ None of the above (8)
 - ☐ Other - Please list (9) _____
-

Q11 What are the most effective ways to educate the public within your county about proper recycling and waste reduction practices? Select all that apply.

- ☐ Providing standardized materials (1)
 - ☐ Funding local campaigns (2)
 - ☐ Increased community recycling events (3)
 - ☐ Other - Please list (4) _____
-

Q12 What are the biggest barriers to increasing recycling rates for materials in your community?

- ☐ Funding (1)
 - ☐ Access (2)
 - ☐ Education (3)
 - ☐ Other - Please list (4) _____
-

Q13 After your communities recycling is collected, do you know where it goes to?

- ☐ Yes (1)
 - ☐ No (2)
 - ☐ Unsure (3)
-

Display this question:

If Q13 = Yes

Q13A If yes, could you please list where they end up? (such as a recycling end-market organization or Emmet County Materials Recovery Facility (MRF))

Q14 How does your community currently pay for recycling? Select all that apply.

- ☐ Recycling Millage (1)
 - ☐ PA 69 Funding (2)
 - ☐ Property Taxes (3)
 - ☐ County Funding (4)
 - ☐ Other - please list (5) _____
-

Q15 What costs are associated with your communities recycling programs and services funding? Select all that apply.

- ☐ Recycling drop-off site host (1)
 - ☐ HHW collection (2)
 - ☐ Composting (3)
 - ☐ Trash pick-up (4)
 - ☐ Education (5)
 - ☐ Other - Please list (6) _____
-

Q16 Could you provide an estimate of how much your community expends on material management services and programs? Please use a \$XXX,XXX format.

Q17 Is there anything else you would like us to know about materials management and your community?

End of Block: Block 1

MMP Business Survey

Start of Block: Default Question Block

INTRO Michigan is updating its Materials Management Plans (formerly Solid Waste Plans) by July 2027 to prioritize sustainable practices like recycling and composting, as required by updated state law. This business survey will assist the respective Materials Management Planning Committees with updating the plans to ensure proper management of all non-hazardous materials, establish guidelines for facility locations, document existing and future infrastructure needs, and define our community's goals for a more sustainable approach to materials management; more information is available at nwm.org/mmp Responses to the MMP Business Survey are confidential and anonymous, and should take about 8 to 10 minutes to complete. If there are any questions, you would like a paper copy of the survey, or need any additional assistance, please contact Mathew Cooke, Community Planner at Networks Northwest by email at mathew.cooke@networksnorthwest.org or phone at (231) 929-5056.

Q1 What County does your business primarily operate in?

- ☐ Antrim County (1)
- ☐ Benzie County (2)
- ☐ Charlevoix County (3)
- ☐ Emmet County (4)
- ☐ Grand Traverse County (5)
- ☐ Kalkaska County (6)
- ☐ Leelanau County (7)
- ☐ Manistee County (8)
- ☐ Missaukee County (9)
- ☐ Wexford County (10)
- ☐ Other - Please list (11) _____

Q2 What sector best describes your primary business activity?

- ☐ Retail (1)
- ☐ Manufacturing (2)
- ☐ Service Industry (e.g., hospitality, healthcare, professional services) (3)
- ☐ Food Service (4)
- ☐ Construction (5)
- ☐ Agriculture (6)
- ☐ Education (7)
- ☐ Other - Please list (8) _____
-

Q3 Approximately how much total non-hazardous waste (trash, recycling, etc.) does your business generate on average per week?

- ☐ Less than 50 lbs (1)
- ☐ 50 - 200 lbs (2)
- ☐ 201 - 500 lbs (3)
- ☐ 501 - 1000 lbs (4)
- ☐ More than 1000 lbs (5)
- ☐ Unsure (6)
-

Q4 Could you estimate your business recycling to waste rate? (i.e. 50% recycling to 50% trash)

0 100

Estimated Recycling to Waste Rate ()



Q5 How does your business recycle?

- ☐ Single stream recycling (all of your recycling goes into one container) (1)
- ☐ We separate recycling (2)
- ☐ Send recycling to end market (3)
- ☐ We do not currently recycling (4)

Display this question:

If Q5 = We separate recycling

Q5A Which of the following materials does your business currently separate for recycling?
Select all that apply.

- ☐ Cardboard (1)
- ☐ Paper (mixed, office, newspaper) (2)
- ☐ Plastics (bottles, containers, film) (3)
- ☐ Glass (4)
- ☐ Metals (aluminum, steel) (5)
- ☐ Food Waste (6)
- ☐ Other - Please list (7) _____

Display this question:

If Q5 = Send recycling to end market

Q5B What materials are you sending to an end market? Please feel free to share what end market you work with.

Display this question:

If Q5 = We do not currently recycling

Q5C If you do not recycle, why?

Q6 Does your business currently participate in any composting or organic waste diversion programs?

- ☐ Yes (1)
- ☐ No (2)
- ☐ We are exploring or considering options (3)
-

Q7 How do you currently handle your food waste collection? Select all that apply.

- ☐ Private Service (1)
 - ☐ Local Farm (2)
 - ☐ Food Rescue (3)
 - ☐ Food Bank (4)
 - ☐ On Site Composting (7)
 - ☐ Not Applicable (5)
 - ☐ Other - Please list (6) _____
-

Q8 How is your business non-hazardous waste recycling picked up? Select all that apply.

- ☐ Collection by private hauler (1)
 - ☐ Paid services to business who manage recycled materials (2)
 - ☐ Drop-off at transfer station (3)
 - ☐ Household Hazardous Waste Collection Events (4)
 - ☐ We do not recycle Household Hazardous Waste (5)
-

Display this question:

If Q2 = Food Service

Q9 If your business offers take-away, what materials do you utilize for to-go orders? Select all that apply

- ☐ Styrofoam (1)
 - ☐ Plastic (2)
 - ☐ Compostable Materials (3)
 - ☐ Other - Please list (4) _____
-

Q10 What are the primary methods your business currently uses for the disposal of non-recyclable/non-compostable waste? Select all that apply.

- ☐ Collection by a private waste hauler (1)
 - ☐ Drop-off at a transfer station or landfill (2)
 - ☐ Other - Please list (3) _____
 - ☐ Unsure (4)
-

Q11 Does your business currently have any specific goals or initiatives related to reducing waste generation or increasing recycling/composting rates?

- ☐ Yes - Please list (1) _____
 - ☐ No (2)
 - ☐ We are considering setting goals in the future. (3)
-

Q12 What are the biggest challenges your business faces in implementing or expanding sustainable materials management practices (e.g., recycling, composting)? Select all that apply.

- ☐ Cost of implementation or service fees (1)
 - ☐ Lack of space for storage or sorting (2)
 - ☐ Insufficient information or resources (3)
 - ☐ Lack of employee engagement or training (4)
 - ☐ Logistical challenges with collection or processing (5)
 - ☐ Other - Please list (6) _____
 - ☐ We do not currently face significant challenges. (7)
-

Q13 Is your business interested in learning more about or participating in local programs or initiatives that support business recycling, composting, or waste reduction?

- ☐ Yes, very interested (1)
 - ☐ Yes, somewhat interested (2)
 - ☐ Not currently interested (3)
 - ☐ Unsure (4)
-

Q14 Does your business anticipate any significant changes in the types or volumes of materials it generates in the next 3-5 years?

- ☐ Yes (1)
 - ☐ No (2)
 - ☐ Unsure (3)
-

Display this question:

If Q14 = Yes

Q14A If yes, what types of waste do you expect to increase in the next 3-5 years?

Q15 Does your business produce a material (by-product or otherwise) that could be recycled, but you do not have an end-user or alternative use for?

☐ Yes (1)

☐ No (2)

Display this question:

If Q15 = Yes

Q15A If yes, what materials could be recycled but need an end user or alternative use for?

Q16 Does your business purchase recycled materials for use?

- ☐ Yes (1)
- ☐ No (2)
- ☐ Unsure (3)
- ☐ We would if available (4)

Display this question:

If Q16 = Yes

Q16A If yes, what typed of recycled materials do you purchase? Select all that apply.

- ☐ Recycled Plastics (1)
- ☐ Recycled Metals (2)
- ☐ Recycled Paper & Cardboard (3)
- ☐ Recycled Glass (4)
- ☐ Recycled Textiles (5)
- ☐ Recycled Rubber (6)
- ☐ Recycled Wood (7)
- ☐ Recycled Electronics (8)
- ☐ Recycled Concrete & Aggregates (9)
- ☐ Recycled Organics (Compost) (10)
- ☐ Recycled Oil (11)
- ☐ Other - Please list (12) _____

Display this question:

If Q16 = We would if available

Q16B What recycled materials could your business purchase to utilize if they were available?

Q17 How could businesses better engage with the circular economy through re-use of recycled materials? Select all that apply.

- ☐ Use recycled plastic in packaging (1)
- ☐ Design products that can be easily disassembled and their parts reused or recycled (2)
- ☐ Offer take-back programs for their products so the materials can be used again (3)
- ☐ Partner with companies that specialize in processing recycle materials for new applications (4)
- ☐ Incorporate recycled fabrics into clothing or textiles (5)
- ☐ Utilize crushed recycled glass in construction materials (6)
- ☐ Refurbish and resell returned or used products (7)
- ☐ Use recycled paper and cardboard for office supplies and packaging (8)
- ☐ Other - Please list (9) _____

Q18 Optional: Please provide the name of your business and a contact person/email if you are willing to be contacted for further information or discussion of materials management planning.

☐ Business Name (1) _____

☐ Contact Person (2) _____

☐ Contact Email (3) _____

End of Block: Default Question Block

POPULATION AND HOUSING



542.3 SQ. MILES
AREA



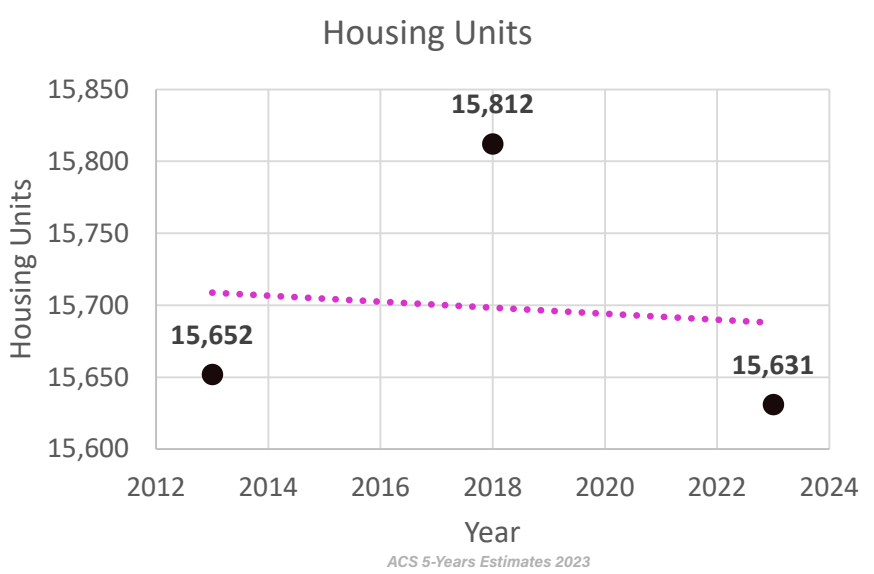
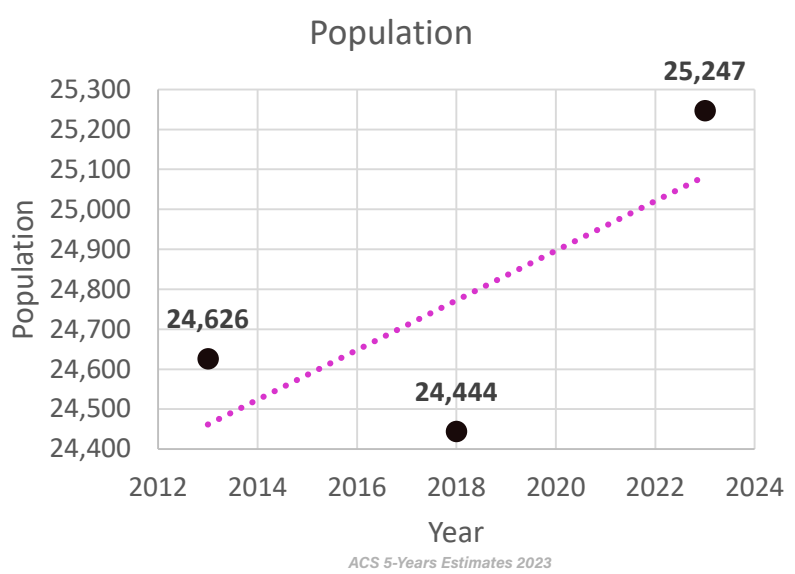
46.56 PEOPLE/SQ. MILES
POPULATION DENSITY



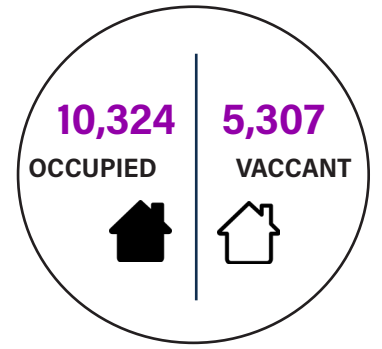
25,247
TOTAL POPULATION
ACS 5-Years Estimates 2023



AGE	2025
Total	25782
0 To 4	984
5 To 9	1169
10 To 14	1195
15 To 19	1243
20 To 24	1364
25 To 29	1473
30 To 34	1417
35 To 39	1332
40 To 44	1414
45 To 49	1283
50 To 54	1359
55 To 59	1645
60 To 64	2079
65 To 69	2331
70 To 74	2145
75 To 79	1603
80 To 84	935
85+	811



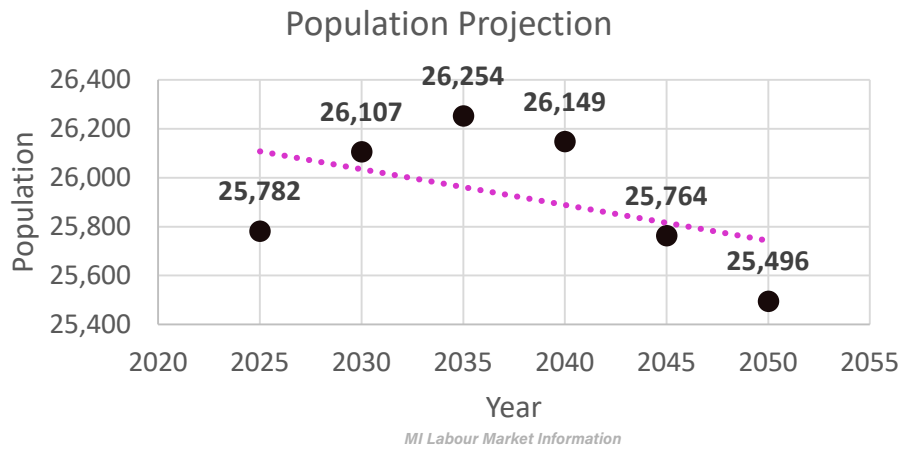
15,631
HOUSING UNITS



2.30
AVERAGE HH SIZE



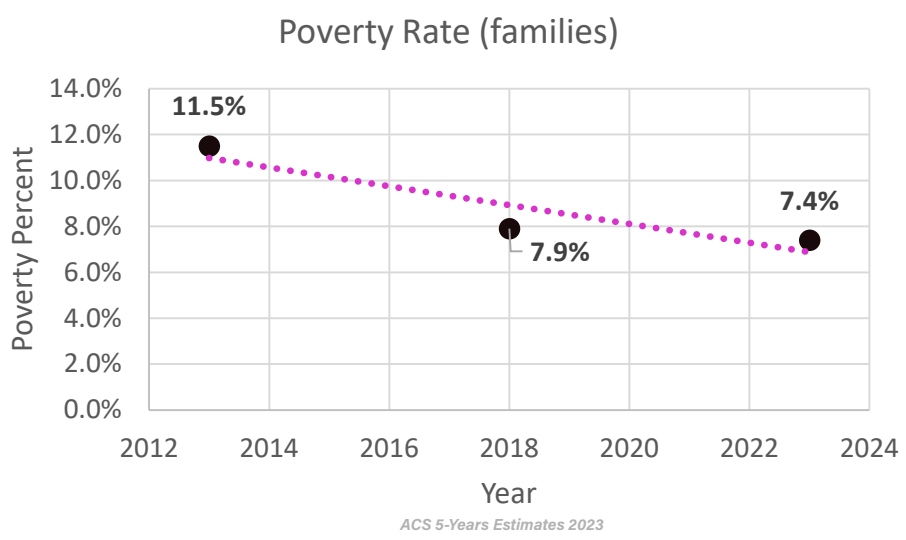
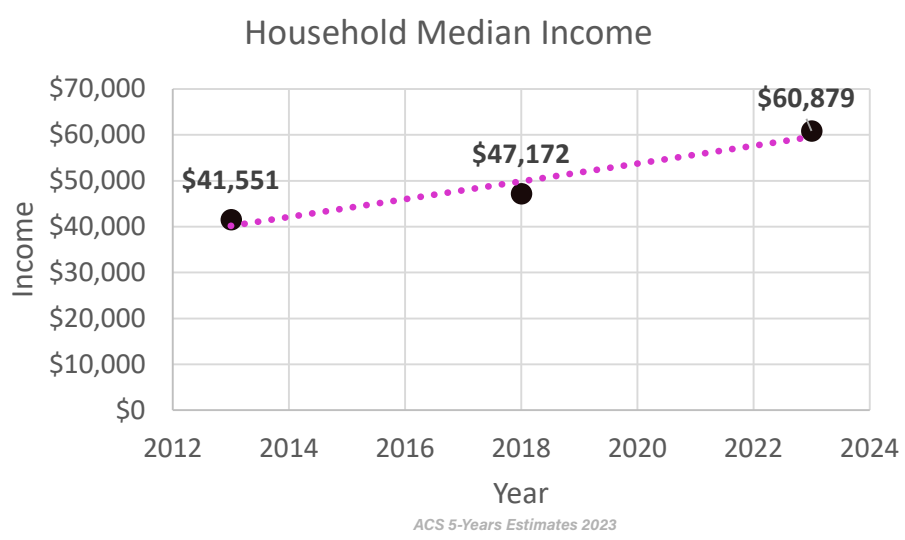
ESTIMATED POPULATION PROJECTION



MUNICIPALITY	2020 CENSUS POPULATION
Arcadia Township	657
Bear Lake Township	1831
Brown Township	704
Cleon Township	1063
Dickson Township	980
Filer Township	2318
Manistee Township	4022
Maple Grove Township	1342
Marilla Township	398
Norman Township	1567
Onkama Township	1338

MUNICIPALITY	2020 CENSUS POPULATION
Pleasanton Township	870
Springdale Township	849
Stronach Township	834
City of Manistee	6259
Village of Bear Lake	342
Village of Copenish	195
Village of East Lake	415
Village of Kaleva	507
Village of Onkema	399
Manistee County	25032

INCOME AND POVERTY



INDUSTRY AND EMPLOYMENT



TOTAL NUMBER OF ESTABLISHMENTS
606



TOTAL NUMBER OF JOBS
4,213



TOP 5 INDUSTRIES

- » Retail and Trade
- » Manufacturing
- » Accomodation and Food Services
- » Construction
- » Other services (except public administration)

POPULATION AND HOUSING



564.9 SQ. MILES
AREA



26.8 PEOPLE/SQ. MILES
POPULATION DENSITY



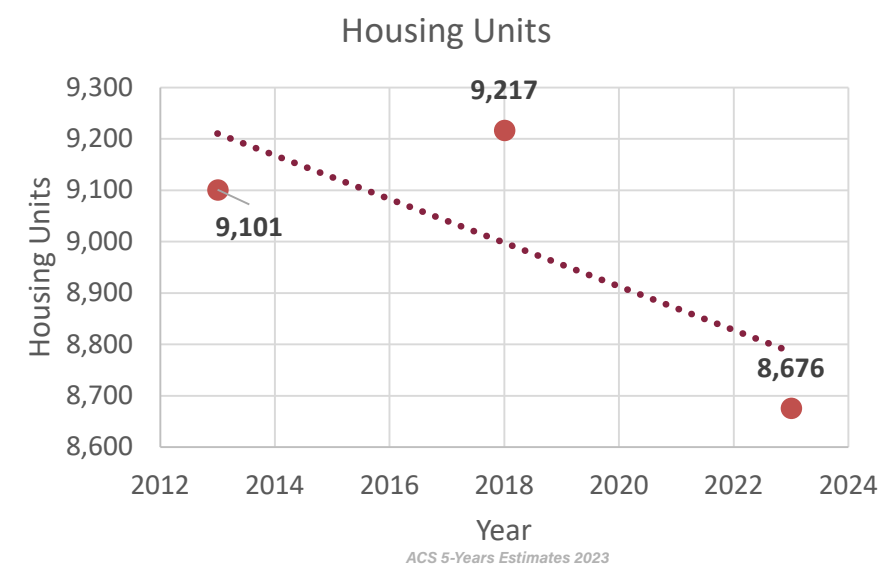
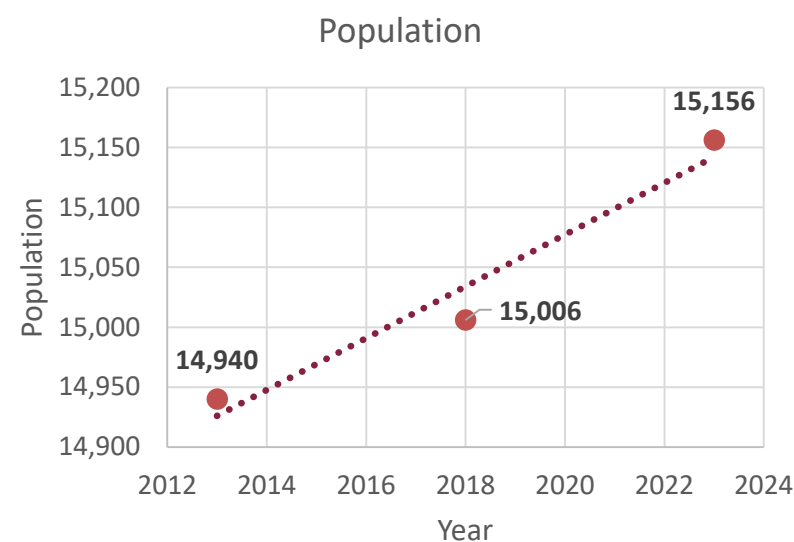
15,156
TOTAL POPULATION

ACS 5-Years Estimates 2023

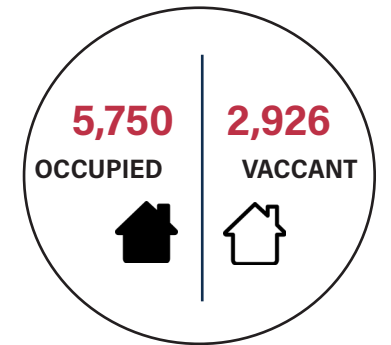


MI Labour
Market Information

AGE	2025
Total	15427
0 To 4	842
5 To 9	925
10 To 14	975
15 To 19	868
20 To 24	728
25 To 29	871
30 To 34	940
35 To 39	889
40 To 44	900
45 To 49	768
50 To 54	804
55 To 59	958
60 To 64	1280
65 To 69	1149
70 To 74	962
75 To 79	756
80 To 84	465
85+	347



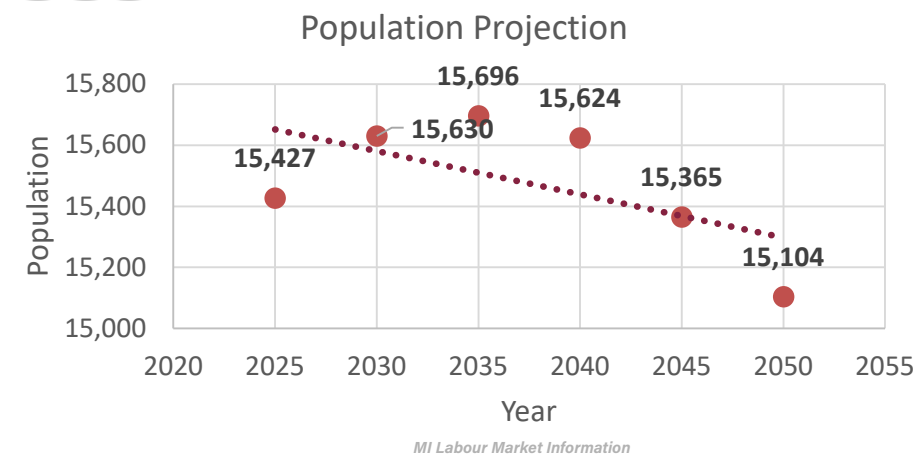
8,676
HOUSING UNITS



2.61
AVERAGE HH SIZE



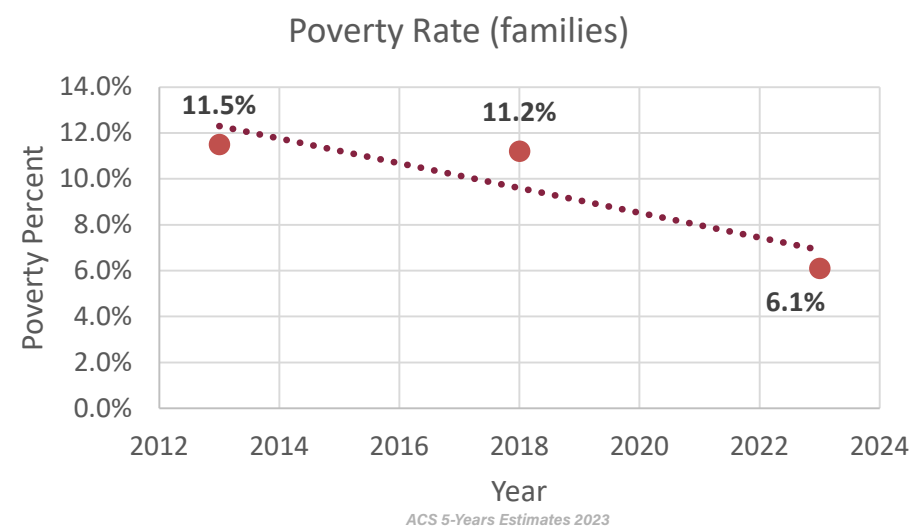
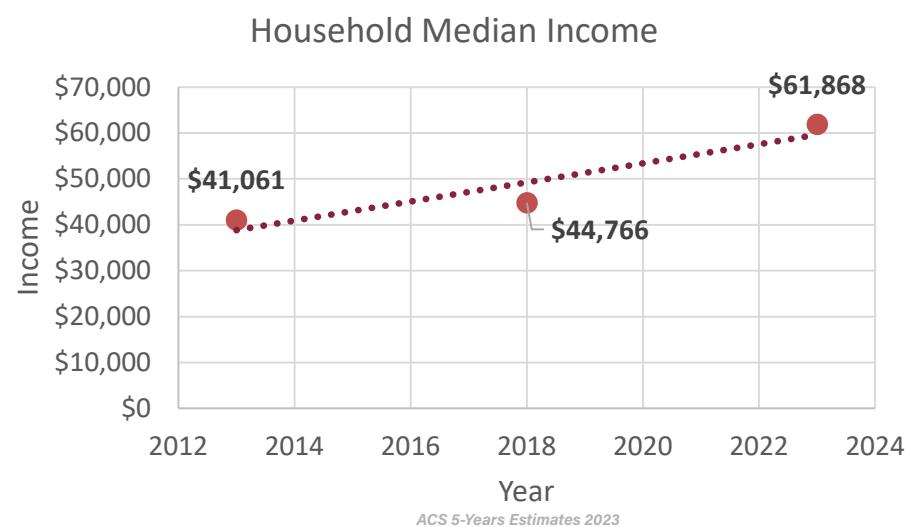
ESTIMATED POPULATION PROJECTION



MUNICIPALITY	2020 CENSUS POPULATION
Aetna Township	429
Bloomfield Township	574
Butterfield Township	473
Caldwell Township	1394
Clam Union Township	907
Enterprise Township	174
Forest Township	1184
Holland Township	221
Lake Township	2827

MUNICIPALITY	2020 CENSUS POPULATION
Norwich Township	631
Pioneer Township	508
Reeder Township	1199
Richland Township	1489
Riverside Township	1124
West Branch Township	452
City of McBain	637
City of Lake City	829
Missaukee County	15052

INCOME AND POVERTY



INDUSTRY AND EMPLOYMENT



TOTAL NUMBER OF ESTABLISHMENTS
393



TOTAL NUMBER OF JOBS
2,992



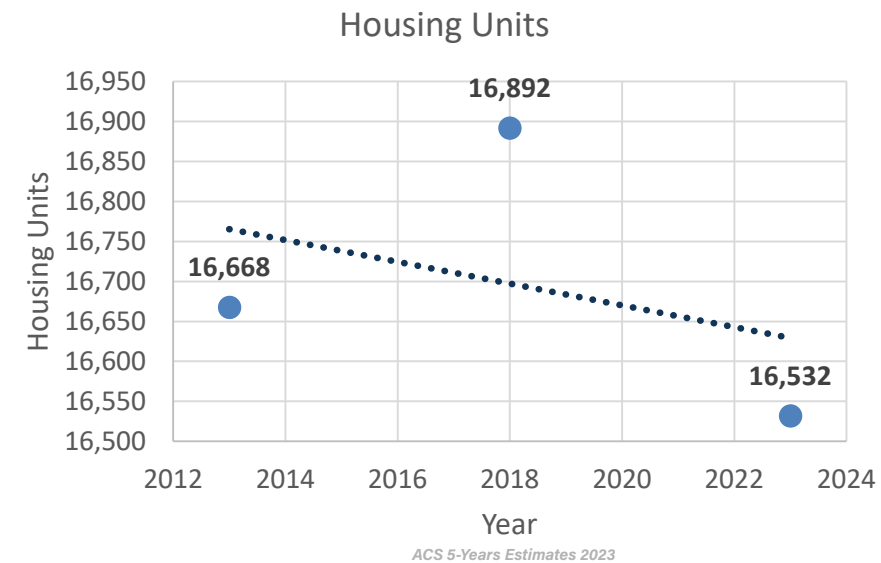
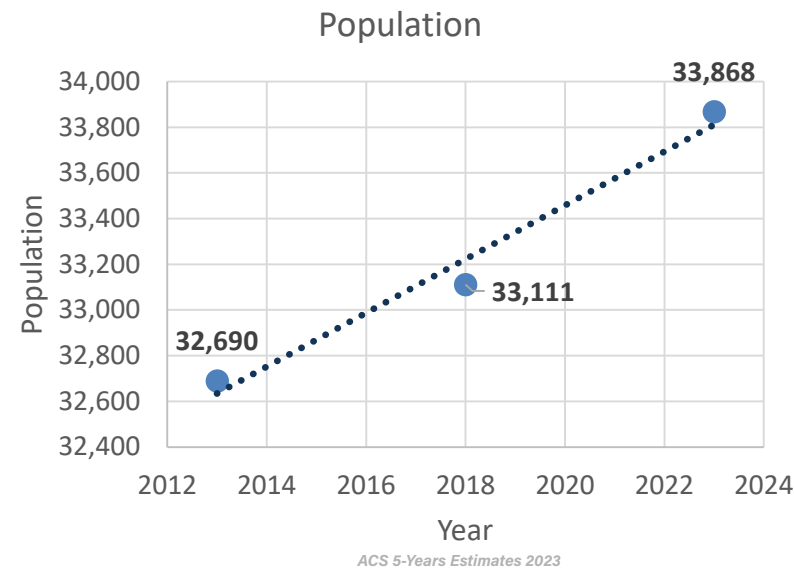
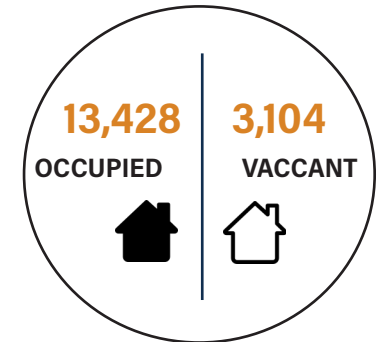
TOP 5 INDUSTRIES

- » Agriculture, forestry, fishing and hunting
- » Manufacturing
- » Retail and Trade
- » Construction
- » Accommodation and Food Services

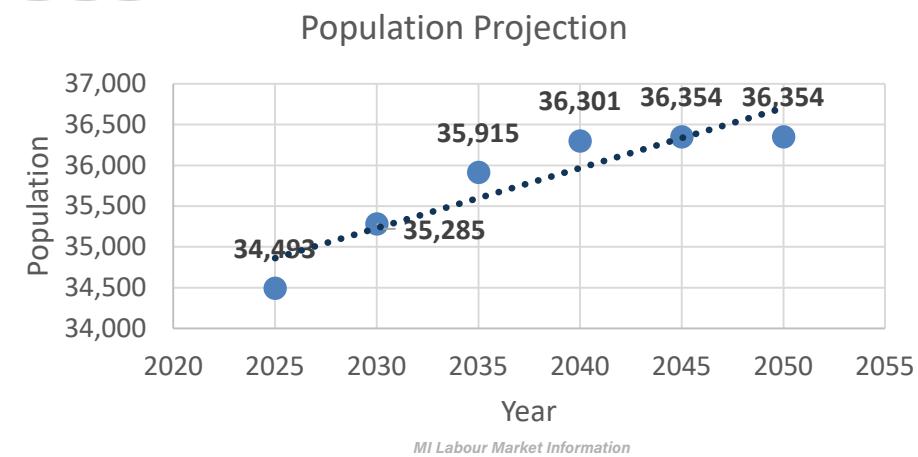
POPULATION AND HOUSING

**564.9** sq. MILES
AREA**59.9** PEOPLE/SQ. MILES
POPULATION DENSITY**33,868**
TOTAL POPULATION
ACS 5-Years Estimates 2023MI Labour
Market Information

AGE	2025
Total	34,493
0 To 4	1,764
5 To 9	2,127
10 To 14	2,180
15 To 19	2,185
20 To 24	1,794
25 To 29	1,931
30 To 34	2,135
35 To 39	2,029
40 To 44	2,180
45 To 49	1,903
50 To 54	1,925
55 To 59	2,119
60 To 64	2,473
65 To 69	2,484
70 To 74	2,055
75 To 79	1,503
80 To 84	902
85+	805

**16,532**
HOUSING UNITS**2.49**
AVERAGE HH SIZE

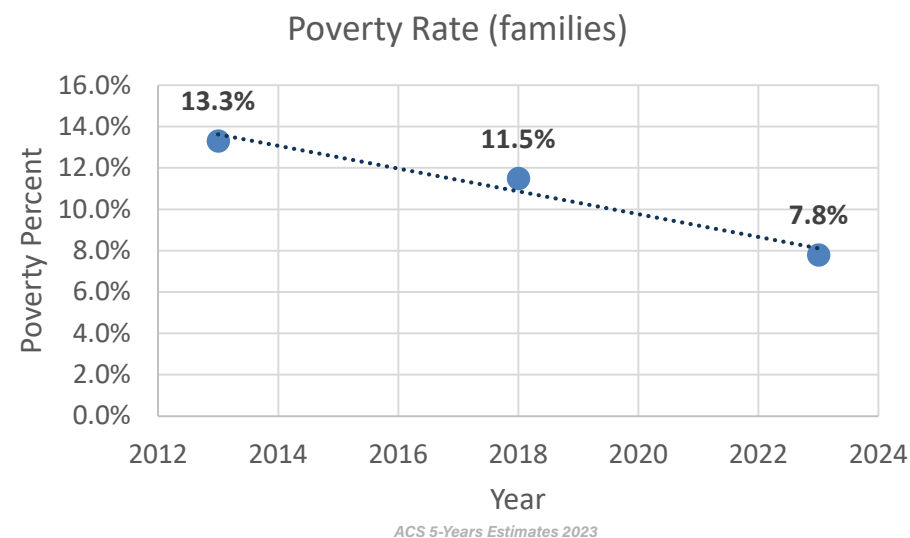
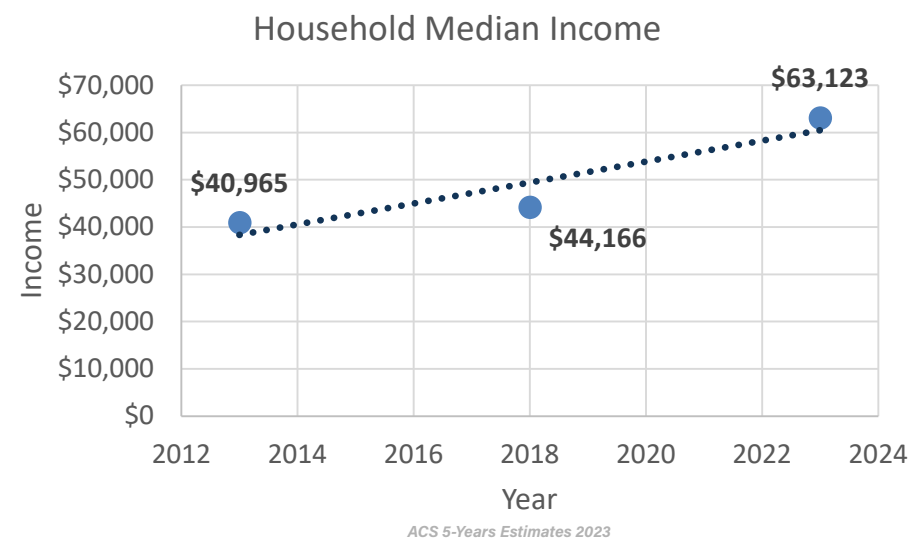
ESTIMATED POPULATION PROJECTION



MUNICIPALITY	2020 CENSUS POPULATION
Antioch Township	900
Boon Township	650
Cedar Creek Township	1855
Cherry Grove Township	2421
Clam Lake Township	2325
Colfax Township	897
Greenwood Township	633
Hanover Township	1698
Haring Township	3556
Henderson Township	183
Liberty Township	936

MUNICIPALITY	2020 CENSUS POPULATION
Selma Township	2233
Slagle Township	509
South Branch Township	348
Springville Township	1739
Wexford Township	1161
City of Cadillac	10371
City of Manton	1258
Village of Mesick	397
Village of Harrietta	151
Village of Buckley	775
Wexford County	33673

INCOME AND POVERTY



INDUSTRY AND EMPLOYMENT

**TOTAL NUMBER OF ESTABLISHMENTS**
920**TOTAL NUMBER OF JOBS**
11,212

TOP 5 INDUSTRIES

- » Manufacturing
- » Retail and Trade
- » Health Care and Social Assistance
- » Accommodation and Food Services
- » Transportation and Warehousing



Supplement: **Manistee County** **Materials Management** **County Engagement**

March 1, 2023

PREPARED BY:

RRS  | recycle.com

COMMISSIONED BY:

 **Networks
Northwest**
Talent / Business / Community

EXECUTIVE SUMMARY

Working together with Networks Northwest and member communities, RRS completed a comprehensive set of tasks that fulfills the objectives of Michigan Department of Environment, Great Lakes, and Energy (EGLE) Materials Management Community Engagement (MMCE) grant and lays the groundwork for regional collaboration in materials management planning among member communities.

The MMCE grant process is intended to help counties in the transition to materials management and begin to identify partnership within regions and counties, understand current materials management deficiencies and opportunities, highlight future changes to the planning process, and outline steps that can occur now at the county and regional levels to assist with the development of future materials management programs and infrastructure.

Key improvements and recommendations for counties within Networks Northwest are found in the respective sections in the report. RRS identified forty (40) recommendations that are categorized into seven areas which form the basis for a robust materials management system:

- Community Access
- Facilities and Infrastructure
- Robust Markets, including Materials of Focus
- Public/Private Partnerships
- Supportive Policy
- Education and Outreach
- Regional Planning

Specific to Manistee County and as required by the EGLE grant, RRS identified the top five needs and the top three materials management projects that Manistee County should consider.

TOP FIVE NEEDS:

1. Sustainable funding
2. Consistent education and outreach
3. At least one Center for Hard to Recycle Materials (CHaRM)
4. Hub-and-spoke collections for key materials, particularly yard and food waste
5. More frequent household hazardous waste collection opportunities

TOP THREE MATERIALS MANAGEMENT PROJECTS:

Based on the top five needs above, RRS recommends Manistee County focus on three projects that could have significant impact on accessibility, awareness, and sustainable funding for programs and services.

1. Engage County and municipal leaders in conversations about materials management solutions in light of changes in state law.
2. Evaluate the funding and infrastructure needed to regularly or periodically collect additional materials, including more frequent household hazardous waste events, mattresses, food waste, and other difficult to recycling items.
3. Develop consistent recycling outreach materials in partnership with the hauler, the processor, the mills, and, as appropriate, the region.

STAKEHOLDERS

A stakeholder list was developed in collaboration with each county recycling contact to determine priority county, municipal, and other invested stakeholders. Perspectives were sought from either direct interview (in person or via phone) or through a set of questions distributed via email. Emails were sent at least twice seeking feedback.

First	Last	Organization	Primary Stakeholder Type	Contact Type
Meg	Batzer	Manistee County	county official	Email
Karla	Smith-Kasten	BARC	recycling coordinator	Email, call
Frank	Beaver	Little River Band (Manistee)	tribal	Email
Sarna	Salzman	SEEDS	community organization	In-person
Ann	Rogers	Northern Michigan Environmental Action Council	community organization	Email
Renee	Mallison	Manistee Conservation District	community organization	
Mark	Bevelhymmer	GFL/American Waste	hauler	In-person
Todd	Harland	Republic Services	hauler	Email
Jill	Reynolds	Waste Management	hauler	Email
Jeff	Dontz	Manistee County	county official	Email
Karen	Goodman	Manistee County	county official	Email
Pauline	Jaquish	Manistee County	county official	Email
Richard	Schmidt	Manistee County	county official	Email
Nikki	Koons	Manistee County	county official	Email
Eric	Gustad	Manistee County	county official	Email
Margaret	Batzer	Manistee County	county official	Email
Janice	McCraner	Arcadia Township	municipal official	Email
Jeff	Harthun	Bear Lake Township	municipal official	Email
Shelly	Lynnes	Village of Bear Lake	municipal official	Email
Paul	Adamski	Brown Township	municipal official	Email
David	Myers	Cleon Township	municipal official	Email
Patrick	Milliron	Village of Copemish	municipal official	Email
Sharon	Buning	Dickson Township	municipal official	Email
Terry	Walker	Filer Township	municipal official	Email
Dennis	Bjorkquist	Manistee Township	municipal official	Email
Wendy	Banicki	East Lake Village	municipal official	Email
H. Wayne	Beldo	Maple Grove Township	municipal official	Email
Dan	Holtz	Village of Kaleva	municipal official	Email
Douglas	Glick	Marilla Township	municipal official	Email
Richard	Mobley	Norman Township	municipal official	Email



David	Meister	Onekama Township	municipal official	Email
Roger	Burger	Village of Onekama	municipal official	Email
Carol	Merrill	Pleasanton Township	municipal official	Email
Brian	Moore	Springdale Township	municipal official	Email
Phil	Vadeboncoeur	Stronach Township	municipal official	Email
William	Gambill	City of Manistee	municipal official	Email

MANISTEE COUNTY - GAPS



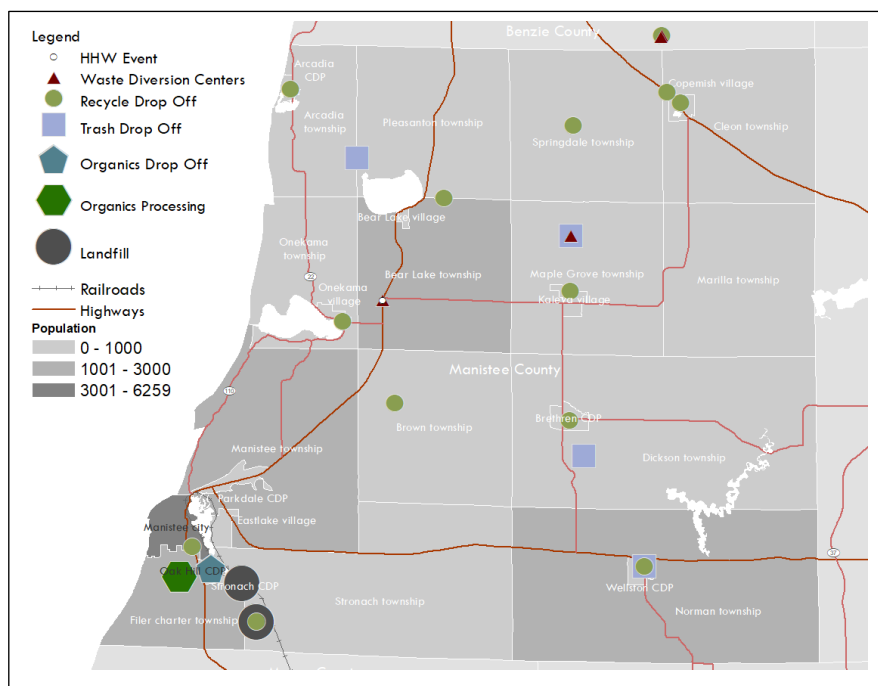
Population:	25,032
Square Miles of Land Area:	542.3
Households:	9,701
Employer Establishments:	558
Countywide Curbside Trash:	NO
Countywide Curbside Recycling:	NO
Countywide Curbside Organics:	NO
Countywide Drop-off Trash:	NO
Countywide Drop-off Recycling:	YES
Countywide Drop-off Organics:	NO
Countywide Drop-off HHW:	YES


Community Access: Every household and business in a community needs convenient access to effective programs. This access can be through curbside collection, drop-off site locations, or a combination of the two. Material diversion and recovery needs to be as convenient as waste disposal as a first step sustainable materials management.

- Manistee County offers recycling drop-off stations at 9 locations.
- Several townships, City of Manistee, and Republic Services have programs that operate independently and provide different recycling guidelines based on the recycling processor.

Processing Facilities: The material collected at the home and business needs to be processed before reaching the end market. It is crucial for the County to own or have access to processing facilities conveniently located, technologically advanced, and with enough capacity to handle the population's current and future material streams. These facilities act as the "middleman" between the local government and the end market.

- Manistee County does not own or operate any recycling processing facilities but does contract for solid waste and recycling.
- There is a secondary processor in the county: Packaging Corporation of America (PCA – Filer City.)
- There is one organic processing facility that accepts yard waste.





Robust Markets: The success of end markets that receive the recyclables that are collected leads to success in growing a sustainable circular economy that ultimately allows material to be diverted from landfills over the long term. By increasing demand, Networks Northwest creates a ‘pull’ for additional materials that in turn, drives supply.

- Within Manistee County there is one identified market for recovered materials: Packaging Corporation of America (PCA-Filer City).

Public/Private Partnerships: The business community and Networks Northwest will need to work closely together to find success. These partnerships can be found through funding opportunities with private companies, shared owner/operator agreements for MRFs and composting facilities, marketing and educational campaigns, and everything in between. Many retailers and packaging companies are realizing that local governments are responsible for the end of life for their products, thus leading to the sustainability of their product. Therefore, the benefits of public/private partnerships are becoming more apparent and accessible.

- Manistee County partners with local organizations to host recycling drop-off stations.

Supportive Policy: To reach high landfill diversion goals, policy will need to be crafted to ensure responsible recovery of material is the standard practice throughout the community, not just the best practice. A variety of policy approaches can be explored for Networks Northwest that have found success in other parts of the country and the globe.

- Manistee County utilizes PA 69 to fund current programs.

Education and Outreach: Once a strong infrastructure is in place, all citizens and businesses will need to know how to handle material in their home and at work. Recycling systems continue to evolve as material composition changes and technologies change. Thus, information needs to be put in front of the citizens of your community on a regular basis in many different ways to feed MRFs and end markets with good quality material, while continuing to decrease the material buried in landfills.

- There does not appear to be a consistent message about recycling locations and materials across the county.
- City of Manistee uses a Waste Advisor (ReCollect) ‘app’ on the city’s website to help direct people to recycling and disposal outlets.

SURVEY

Over 1,650 individuals across the Networks Northwest region took the survey that included questions about current participation in recycling-related activities as well as future needs and demographic information to inform trends. 98 people from Manistee County participated in the survey.

This survey was not intended to meet statistical minimums. Rather, it was intended to be a snapshot to inform the current usage and future needs of the region. The set of questions that were asked was purposefully restricted to reduce the chance of survey fatigue, wherein participants close the survey prior to completing it.

The survey was intended to take no more than 10 minutes to complete, with participants being told in the introduction that it should take no more than 5-8 minutes. The survey was distributed by community recycling coordinators and Networks Northwest via social media and press release. Survey logic was built into the flow of questions to ensure that the appropriate type of question was asked based on previous responses. As such, participation rates in each question varied. The majority of survey respondents are current recyclers and is the result of the way the survey was distributed. Further studies to understand reasons for non-participation may be needed.

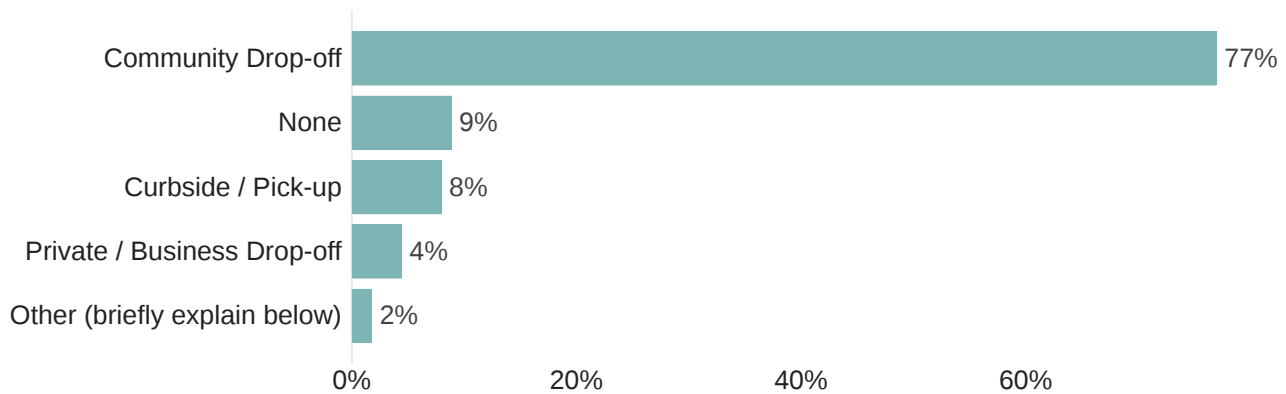
The full survey results for Manistee County are on the following pages.

MMCE Networks Northwest Survey Results Summary (Manistee County)

Q1 - What recycling services are available in your area? (select all that apply)

SUMMARY - Community Drop-off is the predominate recycling service type offered across the studied counties. While 9% express not having access to any form of recycling service.

98 Responses



Q1 - "Other" text responses

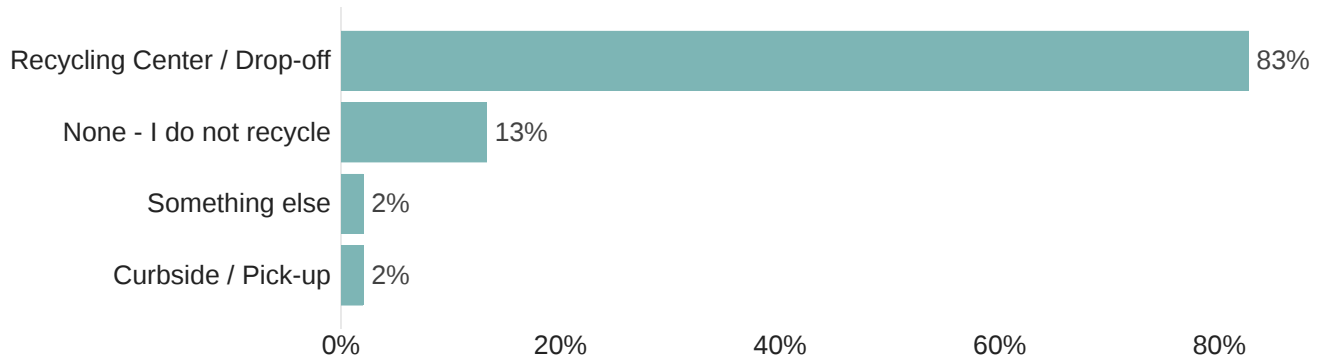
2 Responses

limited
disappointing
yard curbside waste
inadequate
pickup

Q2 - What type of recycling services do you most often use, not including bottle returns?

SUMMARY - Given the stated availability of recycling services, it is unsurprising that Drop-off services are most often used. 13% do not recycle at all.

98 Responses



Q2 - What type of recycling services do you most often use, not including bottle returns? Text responses

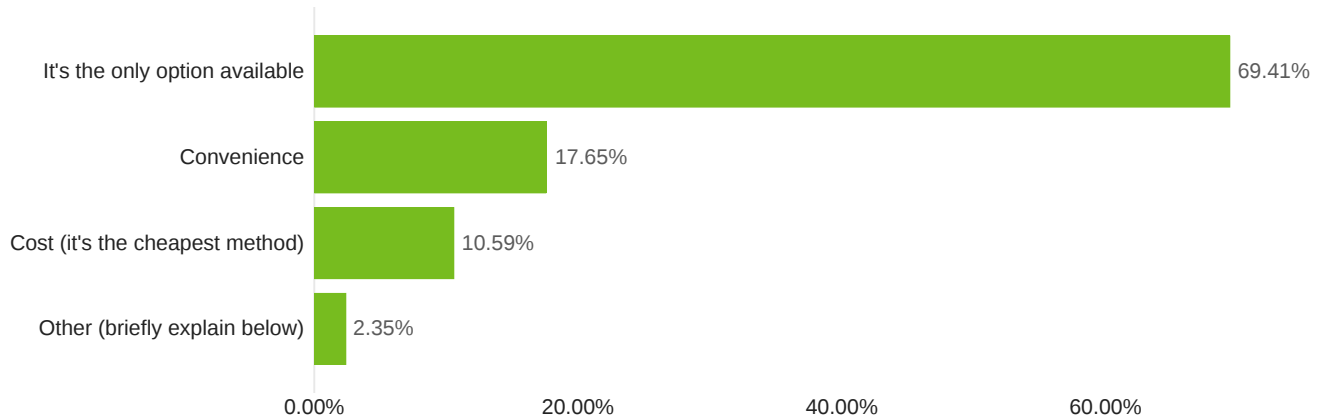
2 Responses

adjacent
community
drop illegal

Q3 - What is the most important reason you choose to recycle this way?

SUMMARY - Nearly 70% chose their method of recycling because it is the only option offered.

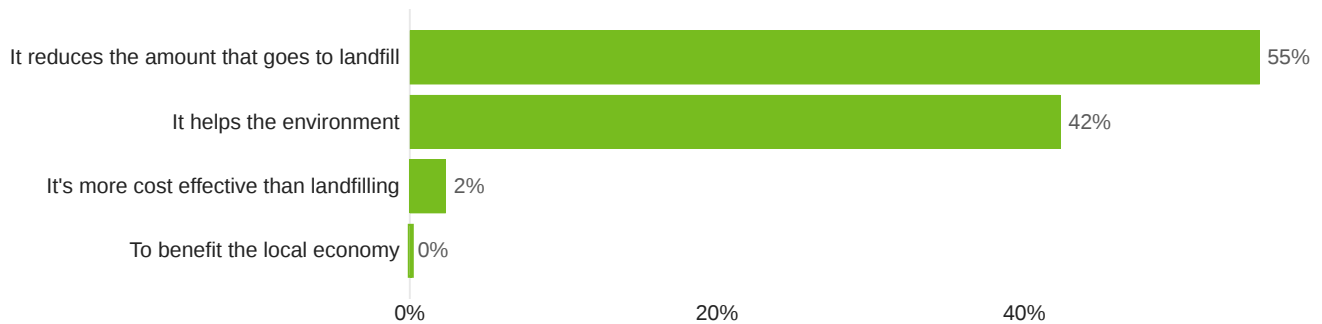
85 Responses



Q4 - Why do you recycle?

SUMMARY - 55% recycle as a means to reduce the amount of waste headed to landfills. 42% do so for environmental reasons.

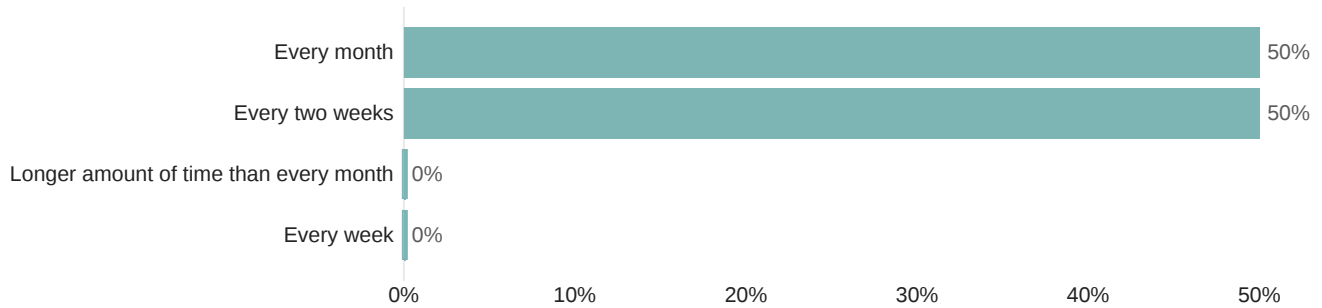
85 Responses



Q5 - How often do you recycle using curbside / pick-up?

SUMMARY - Of those who are offered Curbside Pick-up services, one uses curbside every other week and the other uses the service monthly.

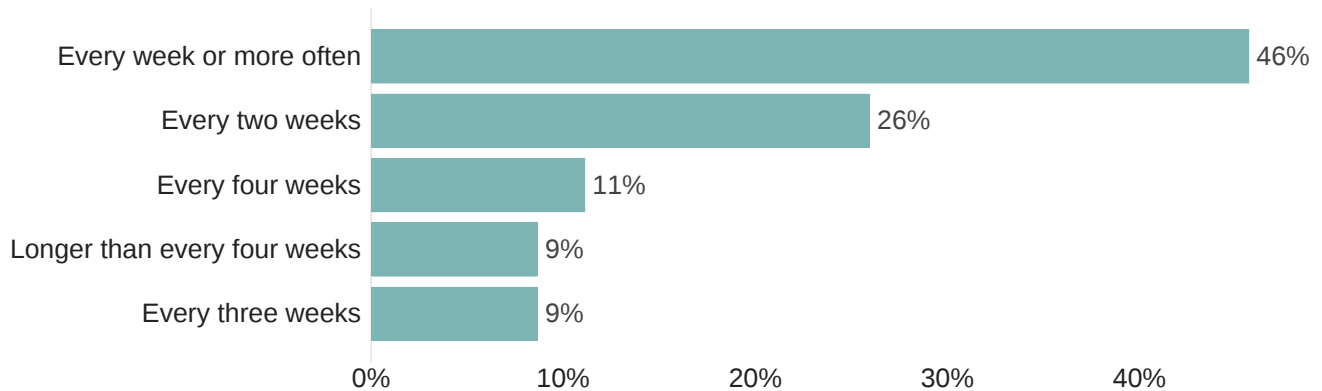
2 Responses



Q6 - How often do you recycle using a Recycling Center or drop-off?

SUMMARY - Those with access to Drop-off recycling services to are likely to use the service either every week or every other week.

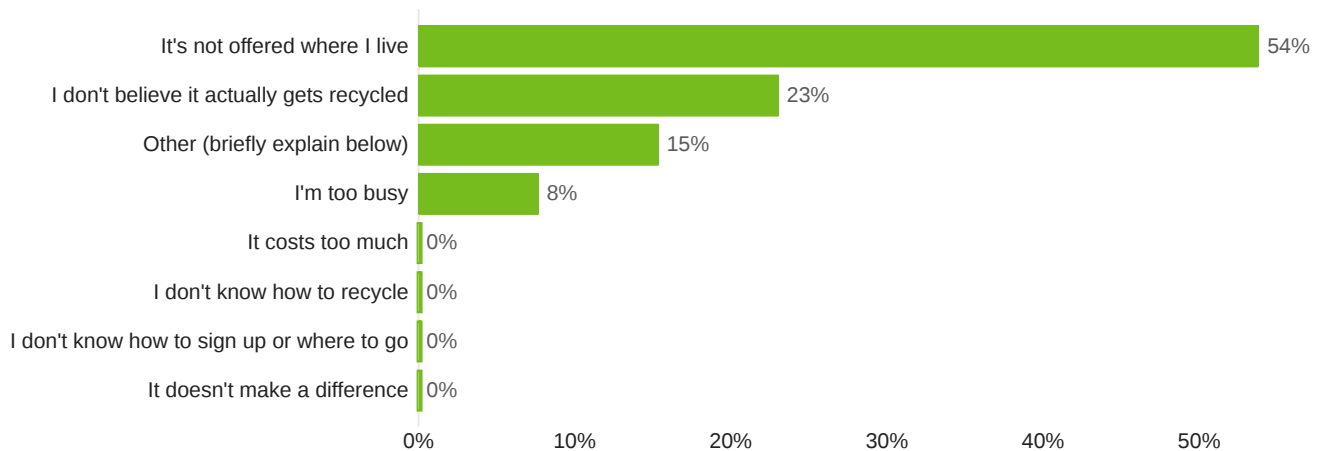
81 Responses



Q7 - What is the most significant reason you do not recycle?

SUMMARY - Of those who do not recycle, 54% say that recycling services are not offered near where they live. Another 23% believes that the materials do not actually get recycled.

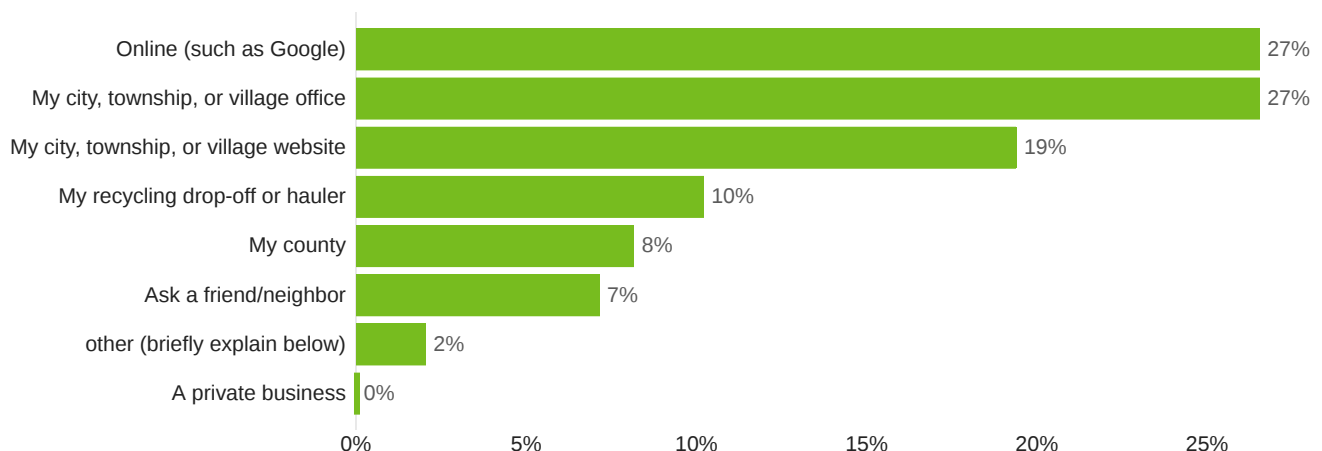
13 Responses



Q8 - If you had questions about recycling, where would you first seek out information?

SUMMARY - 64% first look towards their municipality and recycling providers to answer questions about recycling. 34% seek information from Google and friends.

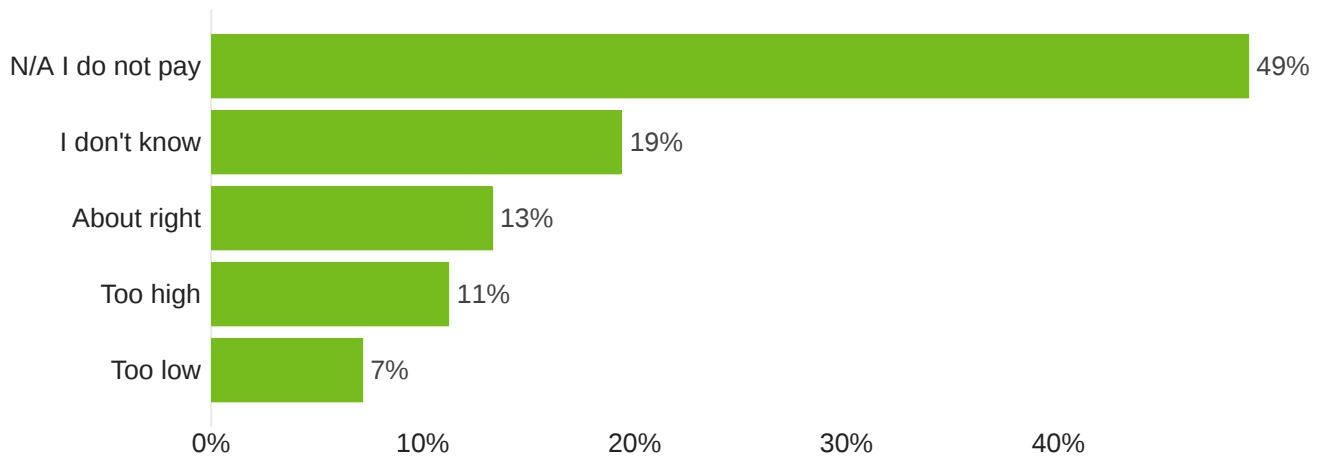
98 Responses



Q9 - Do you think the cost of recycling is too high, about right or too low?
Please respond even if you do not recycle.

SUMMARY - 49% do not pay for recycling. While 19% feel that the price of recycling is about right. NOTE: One potential problem with this question, is that the survey did not capture whether the respondent knows if the cost of recycling is bundled into the cost of their trash pickup.

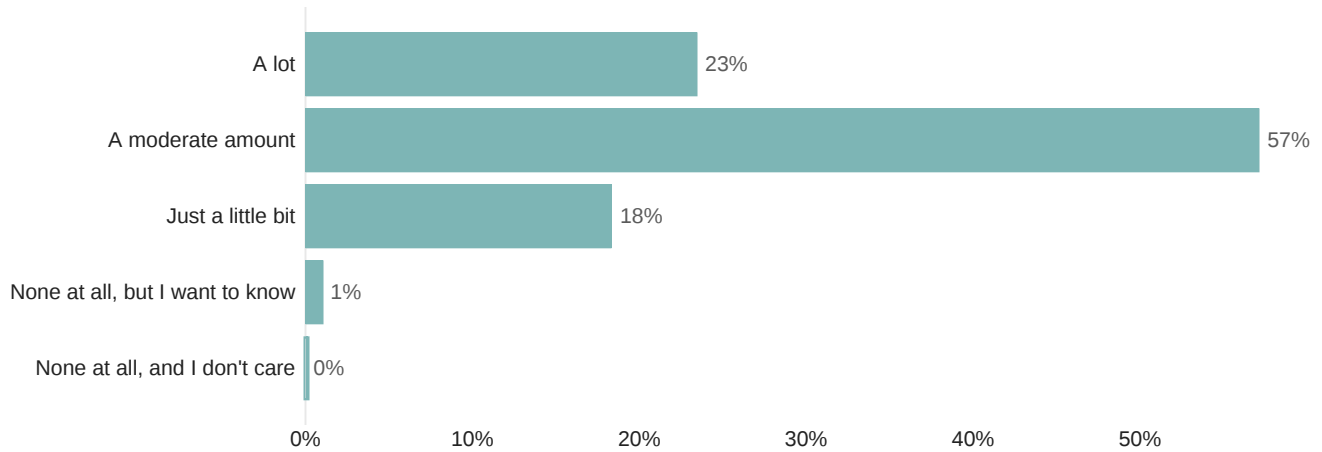
98 Responses



Q10 - How much do you know about recycling, generally speaking?

SUMMARY - A majority feels they know a moderate amount about recycling. Whereas only 23% feels that they know a lot.

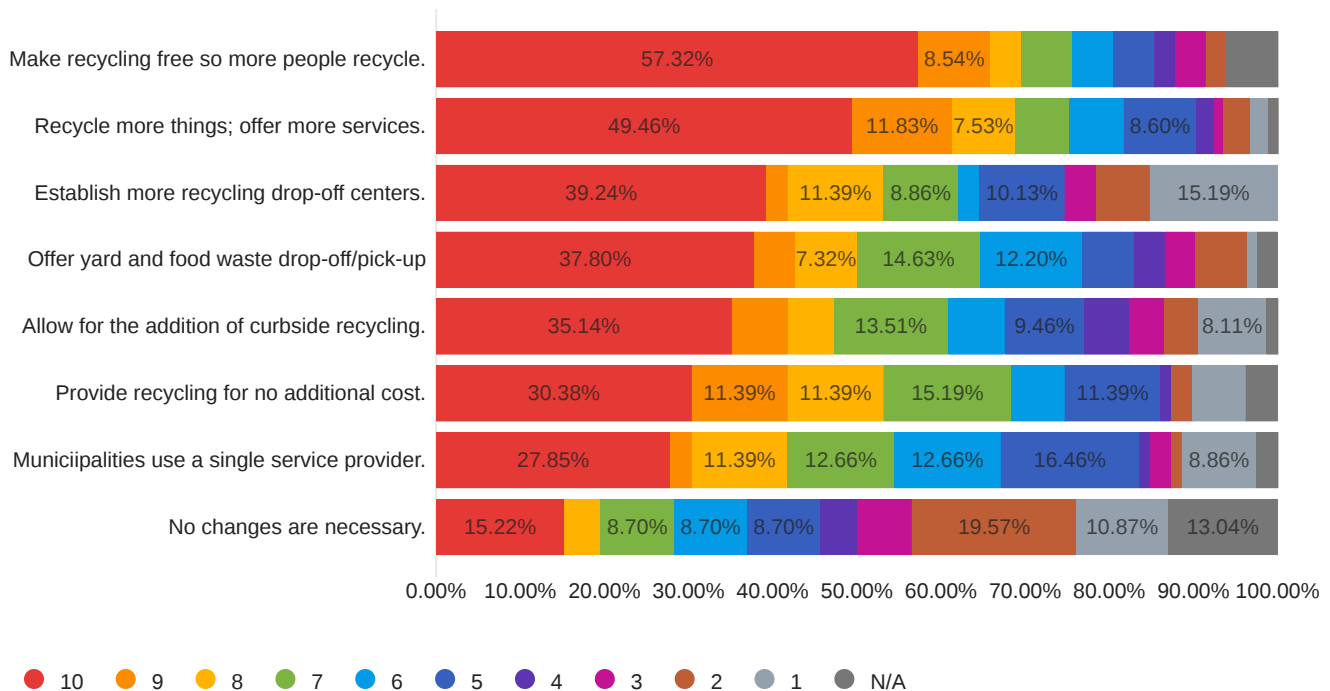
98 Responses



Q11 - Leaders in Northwest Michigan are exploring ways to improve recycling and other waste management services offered to residents and businesses. On a scale of 1-10, with 10 being VERY IMPORTANT and 0 being NOT AT ALL IMPORTANT, how important are each of the following potential improvements to you? If you already have access to an option, select 'not applicable'

SUMMARY - Although residents who currently recycle feel that recycling costs either the right amount or little to nothing for them, they express an importance for recycling to be completely free to allow for greater accessibility and participation from more people. As well, residents would like to see more recycling services to support the recovery of items not currently recycled in their areas.

97 Responses

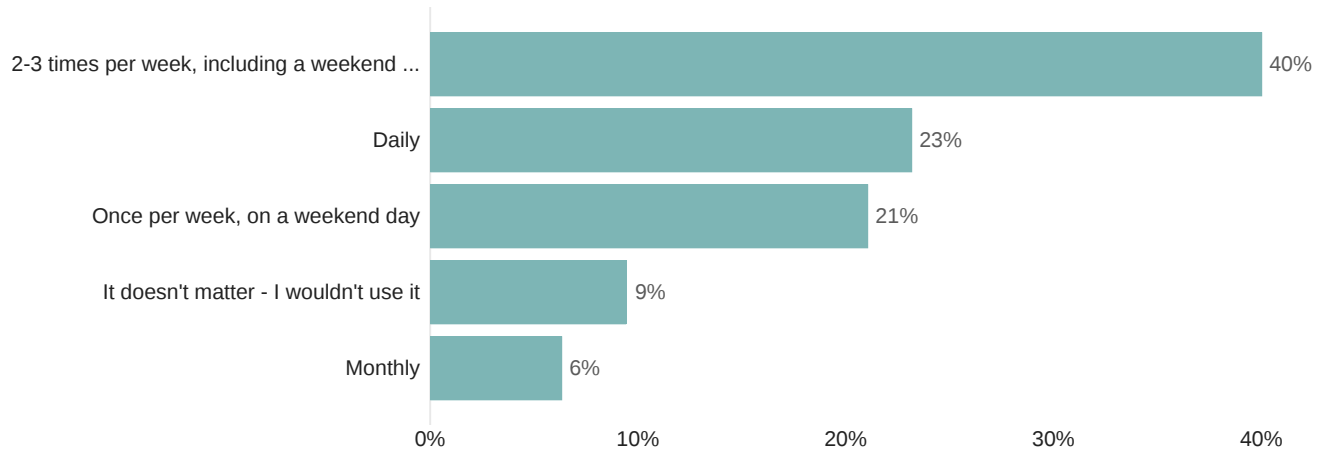


Select a field

Q12 - If a convenient recycling or food waste drop-off site were available close to where you live, how often would you want it open?

SUMMARY - 61% of people would like a Drop-off site open at least once per week on the weekend day. About a quarter would like Drop-off sites open daily.

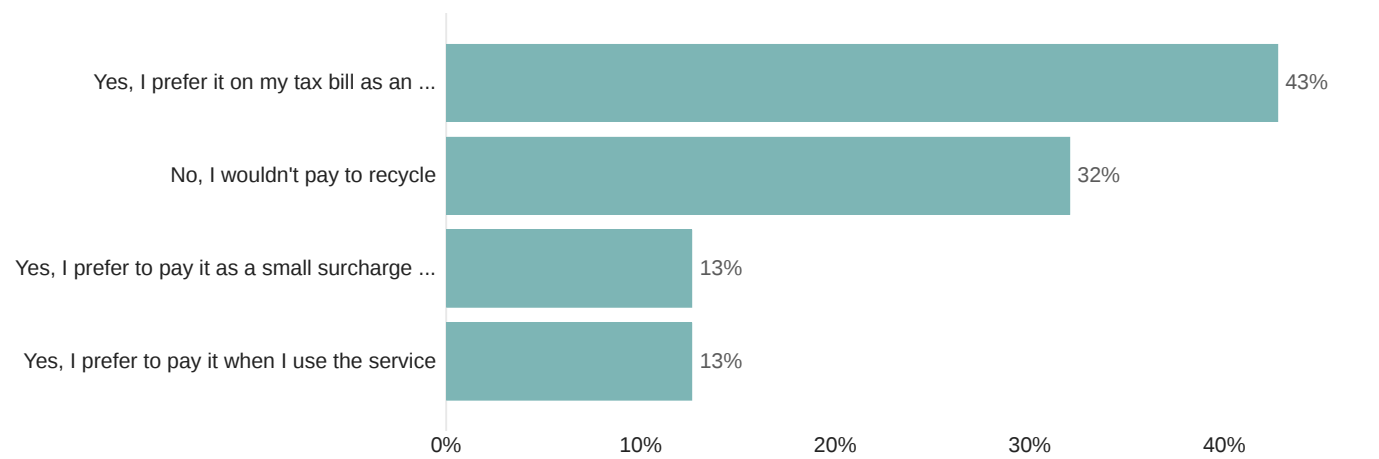
95 Responses



Q13 - Would you be willing to pay a small fee to have convenient access to recycling or food waste collection?

SUMMARY - Residents primarily prefer to pay for recycling or food waste collection through an assessment or fee on their tax bill. 32% do not want to pay anything for recycling or food waste collection services.

98 Responses

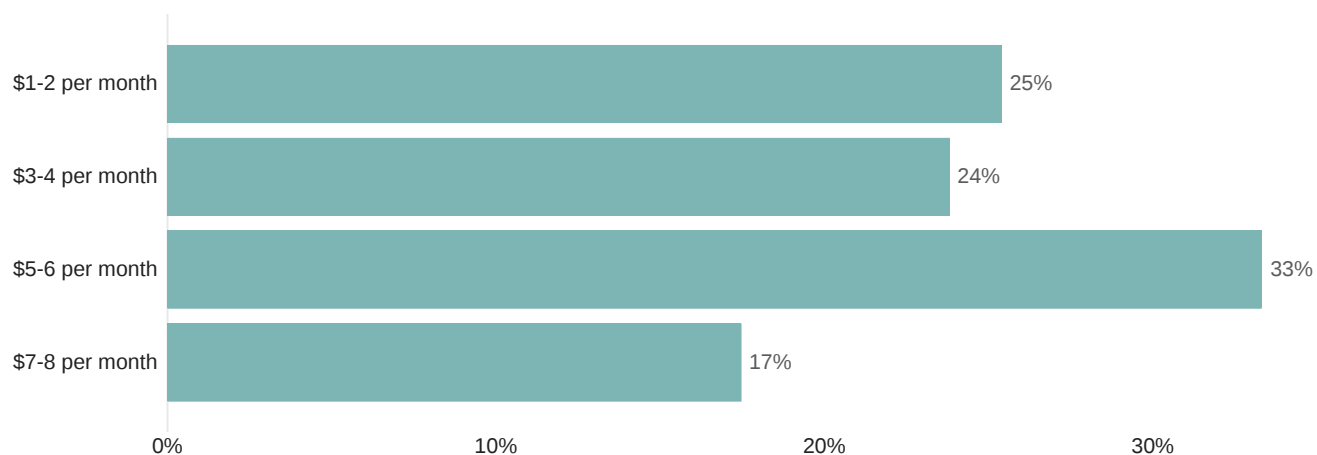


Q14 - What would you be willing to spend to get convenient access to recycling or food waste collection?

SUMMARY - A sizeable fraction of respondents (32%) would not pay anything for convenient access to recycling or food waste collection. Of those willing to pay for recycling or food waste collection, 82% want to pay \$6 or less a month for recycling or food waste collection; \$5-6 per month is most preferred.

Note: 32% of respondents would not pay anything.

63 Responses



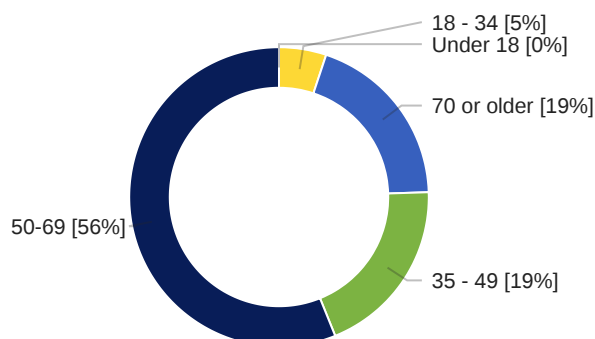
Demographics and Background of Respondents

SUMMARY:

- Respondents are primarily 50 years of age or older. Though, one-fifth is between ages 35-49.
- Respondents are predominately female.
- 92% have some college education or higher.
- 95% of respondents own the home that they live in.
- 95% live in Manistee County year around.
- Unsurprisingly, because of the higher age range of our respondents, 81% do not have children living at home who are school age or younger.
- 92% of respondents are white with little representation of other racial or ethnic groups.
- Median yearly household income falls around \$50,000 - \$75,000 per year.
- Of those who rent or lease their home, a majority does not have on-site recycling available to them, but would like to have the option. One-third have access to and use on-site recycling services.

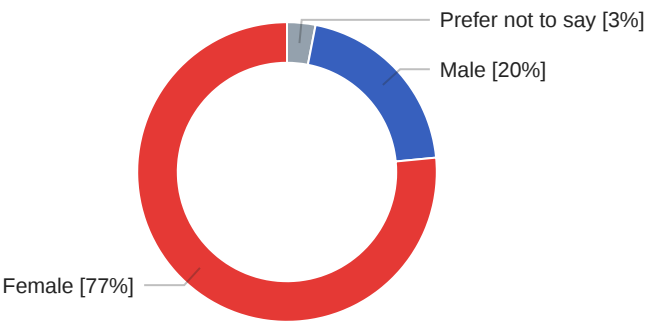
Q16 - Which of these best fits your age?

98 Responses



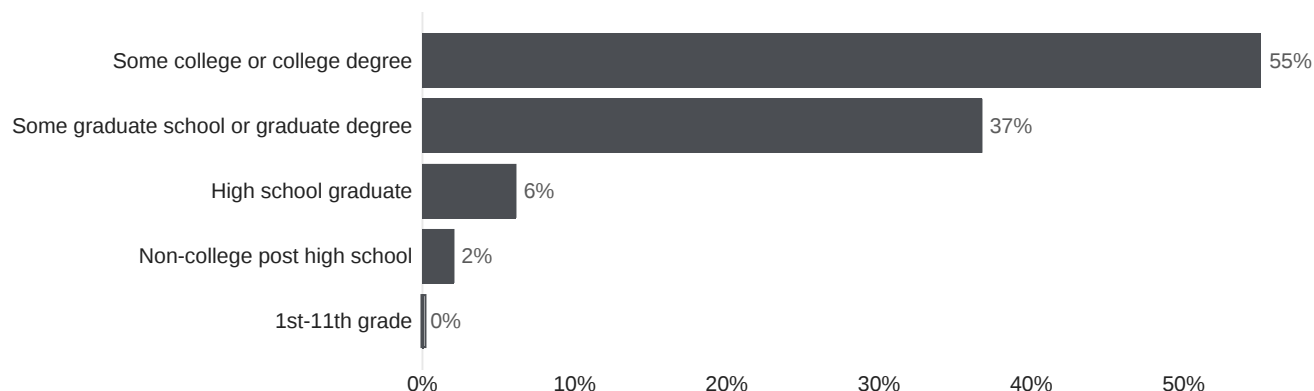
Q17 - What is your gender?

98 Responses



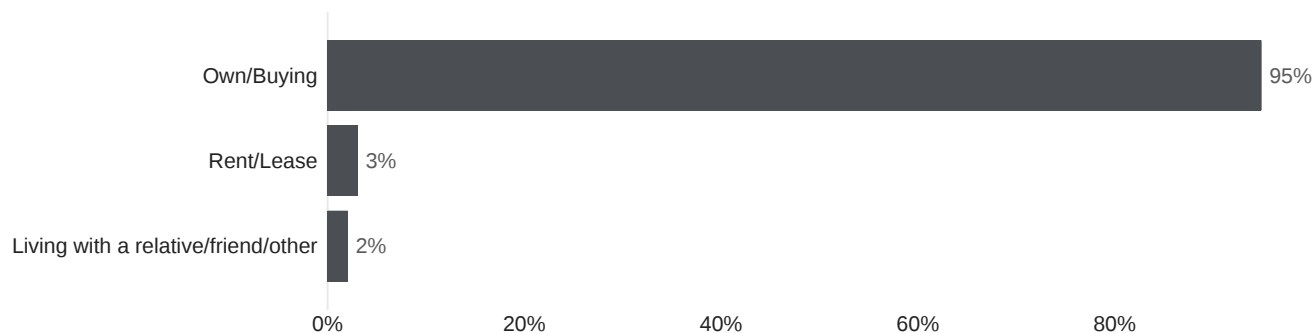
Q18 - What is the last grade or level of schooling you completed?

98 Responses



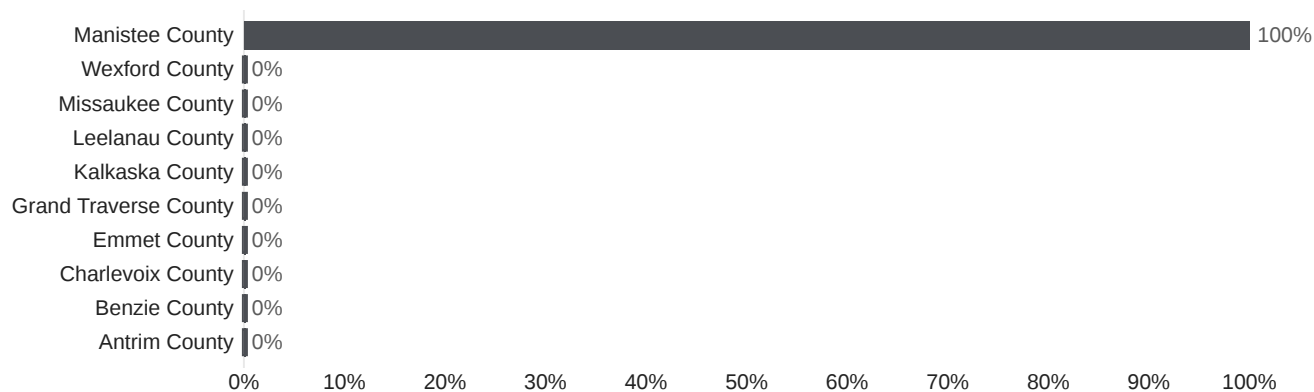
Q19 - Do you own your own home, are you buying a home, or do you lease or rent where you live?

98 Responses



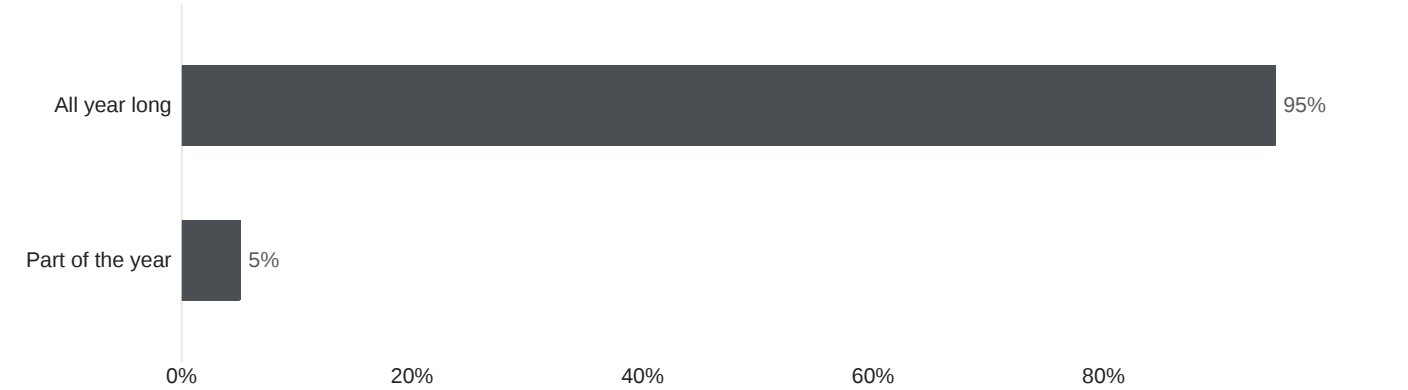
Q20 - County

98 Responses



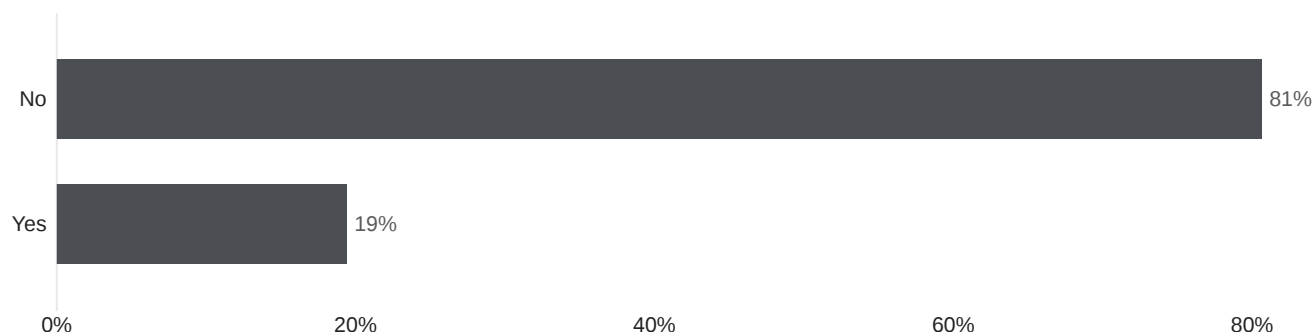
Q21 - How much of the year do you live in this county?

98 Responses



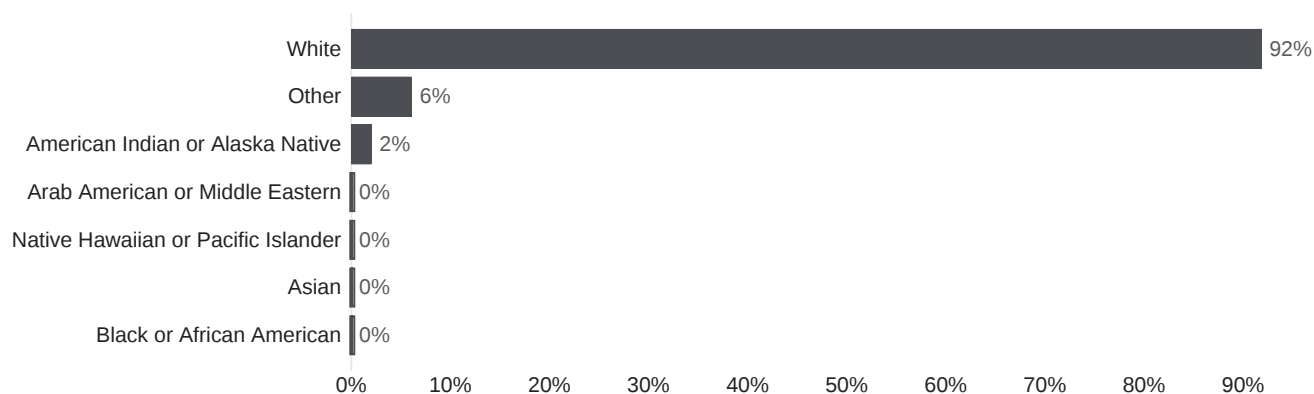
Q22 - Do you have children living in your home who are school age or younger?

98 Responses



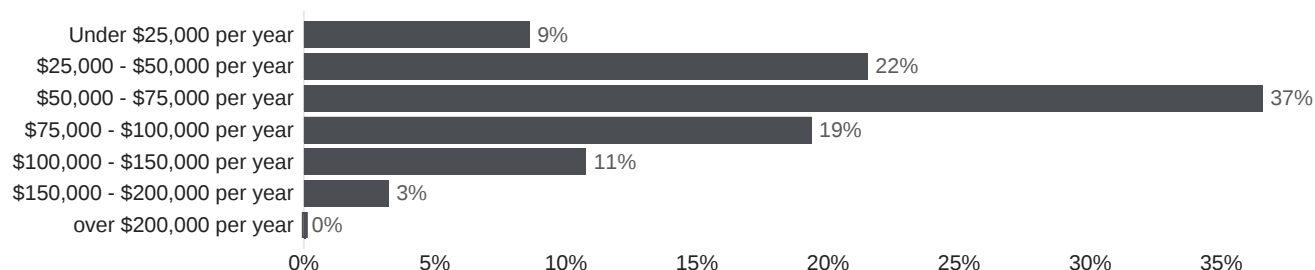
Q23 - Which racial or ethnic group best describes you?

98 Responses



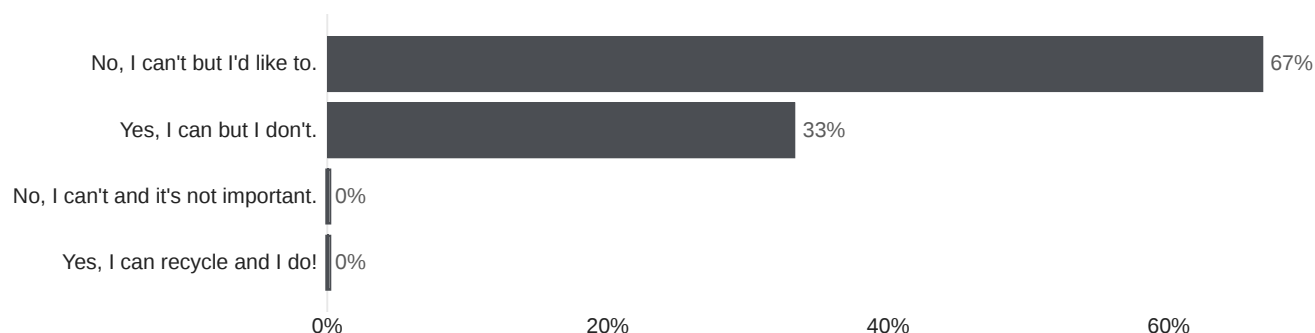
Q24 - In which of the following categories does your total yearly household income fall, including everyone in the household? If retired, please select an income category based on retirement income.


93 Responses



Q27 - As a renter/lessee, do you have recycling available on the property where you live?

3 Responses





Supplement: Missaukee County Materials Management County Engagement

March 1, 2023

PREPARED BY:



COMMISSIONED BY:



EXECUTIVE SUMMARY

Working together with Networks Northwest and member communities, RRS completed a comprehensive set of tasks that fulfills the objectives of Michigan Department of Environment, Great Lakes, and Energy (EGLE) Materials Management Community Engagement (MMCE) grant and lays the groundwork for regional collaboration in materials management planning among member communities.

The MMCE grant process is intended to help counties in the transition to materials management and begin to identify partnership within regions and counties, understand current materials management deficiencies and opportunities, highlight future changes to the planning process, and outline steps that can occur now at the county and regional levels to assist with the development of future materials management programs and infrastructure.

Key improvements and recommendations for counties within Networks Northwest are found in the respective sections in the report. RRS identified forty (40) recommendations that are categorized into seven areas which form the basis for a robust materials management system:

- Community Access
- Facilities and Infrastructure
- Robust Markets, including Materials of Focus
- Public/Private Partnerships
- Supportive Policy
- Education and Outreach
- Regional Planning

Specific to Missaukee County and as required by the EGLE grant, RRS identified the top five needs and the top three materials management projects that Missaukee County should consider.

TOP FIVE NEEDS:

1. Sustainable funding for program growth
2. Consistent education and outreach
3. At least one Center for Hard to Recycle Materials (CHaRM)
4. Hub-and-spoke collections for key materials, particularly recyclables and yard/food waste
5. More frequent household hazardous waste collection opportunities

TOP THREE MATERIALS MANAGEMENT PROJECTS:

Based on the top five needs above, RRS recommends Missaukee County focus on three projects that could have significant impact on accessibility, awareness, and sustainable funding for programs and services.

1. Engage County and municipal leaders in conversations about materials management solutions in light of changes in state law.
2. Evaluate the funding and infrastructure needed to regularly or periodically collect additional materials, including more frequent household hazardous waste events, mattresses, food waste, and other difficult to recycling items.
3. Develop consistent recycling outreach materials in partnership with the hauler, the processor, the mills, and, as appropriate, the region.

STAKEHOLDERS

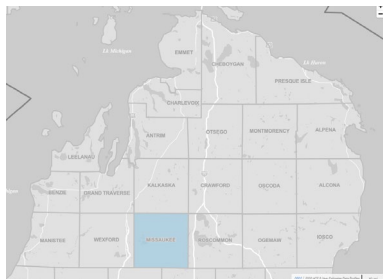
A stakeholder list was developed in collaboration with each county recycling contact to determine priority county, municipal, and other invested stakeholders. Perspectives were sought from either direct interview (in person or via phone) or through a set of questions distributed via email. Emails were sent at least twice seeking feedback.

First	Last	Organization	Primary Stakeholder Type	Contact Type
Linda	Hartshorne-Shafer	Missaukee County	Planning Administrator	Email
Elizabeth	Vogel	Missaukee County	Recycling Coordinator	Email
Mark	Bevelhymer	GFL/American Waste	hauler	In-person
Todd	Harland	Republic Services	hauler	Email
Jill	Reynolds	Waste Management	hauler	Email
Sarna	Salzman	SEEDS	community organization	In-person
Ann	Rogers	Northern Michigan Environmental Action Council	community organization	Email
Lan	Bridson	Missaukee County	county official	Contact not available
Frank	Vanderwal	Missaukee County	county official	Email
Pamela	Niebrzydowski	Missaukee County	county official	Email
Roger	Ouwinga	Missaukee County	county official	Contact not available
Dean	Smallegan	Missaukee County	county official	Email
Star	Hughston	Missaukee County	county official	Contact not available
Gary	Gladu	Missaukee County	county official	Email
Linda	Brown	Aetna Township	municipal official	Email
		Bloomfield Township	municipal official	Email
		Butterfield Township	municipal official	Email
Shelley	Sloat	Caldwell Township	municipal official	Email
		Clam Union Township	municipal official	Email
		Enterprise Township	municipal official	Email
		Forest Township	municipal official	Email
		Holland Township	municipal official	Email



		Lake Township	municipal official	Email
		Norwich Township	municipal official	Email
		Pioneer Township	municipal official	Email
		Reeder Township	municipal official	Email
		Richland Township	municipal official	Email
		Riverside Township	municipal official	Email
		West Branch Township	municipal official	Email
		City of Lake City	municipal official	Email
		City of McBain	municipal official	Email

MISSAUKEE COUNTY - GAPS



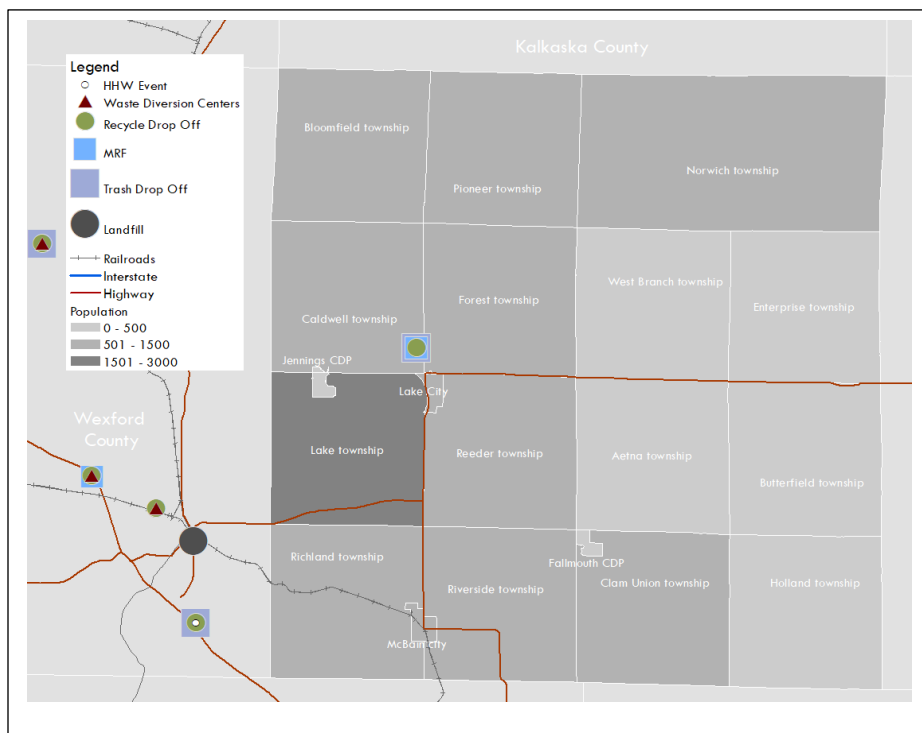
Community Access: Every household and business in a community needs convenient access to effective programs. This access can be through curbside collection, drop-off site locations, or a combination of the two. Material diversion and recovery needs to be as convenient as waste disposal as a first step sustainable materials management.


- Curbside recycling is not available in Missaukee County.
- Drop-off recycling is available at one location in the county.
- HHW services are provided through a single day event.

Processing Facilities: The material collected at the home and business needs to be processed before reaching the end market. It is crucial for the County to own or have access to processing facilities conveniently located, technologically advanced, and with enough capacity to handle the population's current and future material streams. These facilities act as the "middleman" between the local government and the end market.

- Missaukee County owns and operates a small materials recovery facility that also accepts trash and miscellaneous other recoverable items.

Population:	15,052
Square Miles of Land Area:	564.8
Households:	6,194
Employer Establishments:	299
Countywide Curbside Trash:	NO
Countywide Curbside Recycling:	NO
Countywide Curbside Organics:	NO
Countywide Drop-off Trash:	YES
Countywide Drop-off Recycling:	YES
Countywide Drop-off Organics:	NO
Countywide Drop-off HHW:	YES





Robust Markets: The success of end markets that receive the recyclables that are collected leads to success in growing a sustainable circular economy that ultimately allows material to be diverted from landfills over the long term. By increasing demand, Networks Northwest creates a ‘pull’ for additional materials that in turn, drives supply.

- There were no markets identified in Missaukee County for recovered materials.

Public/Private Partnerships: The business community and Networks Northwest will need to work closely together to find success. These partnerships can be found through funding opportunities with private companies, shared owner/operator agreements for MRFs and composting facilities, marketing and educational campaigns, and everything in between. Many retailers and packaging companies are realizing that local governments are responsible for the end of life for their products, thus leading to the sustainability of their product. Therefore, the benefits of public/private partnerships are becoming more apparent and accessible.

- There were no partnerships identified.

Supportive Policy: To reach high landfill diversion goals, policy will need to be crafted to ensure responsible recovery of material is the standard practice throughout the community, not just the best practice. A variety of policy approaches can be explored for Networks Northwest that have found success in other parts of the country and the globe.

- Missaukee County uses funding from a millage to operate the Missaukee County Recycling Center.

Education and Outreach: Once a strong infrastructure is in place, all citizens and businesses will need to know how to handle material in their home and at work. Recycling systems continue to evolve as material composition changes and technologies change. Thus, information needs to be put in front of the citizens of your community on a regular basis in many different ways to feed MRFs and end markets with good quality material, while continuing to decrease the material buried in landfills.

- There does not appear to be a consistent message about recycling locations and materials across the county.

SURVEY

Over 1,650 individuals across the Networks Northwest region took the survey that included questions about current participation in recycling-related activities as well as future needs and demographic information to inform trends. 16 people from Missaukee County participated in the survey.

This survey was not intended to meet statistical minimums. Rather, it was intended to be a snapshot to inform the current usage and future needs of the region. The set of questions that were asked was purposefully restricted to reduce the chance of survey fatigue, wherein participants close the survey prior to completing it.

The survey was intended to take no more than 10 minutes to complete, with participants being told in the introduction that it should take no more than 5-8 minutes. The survey was distributed by community recycling coordinators and Networks Northwest via social media and press release. Survey logic was built into the flow of questions to ensure that the appropriate type of question was asked based on previous responses. As such, participation rates in each question varied. The majority of survey respondents are current recyclers and is the result of the way the survey was distributed. Further studies to understand reasons for non-participation may be needed.

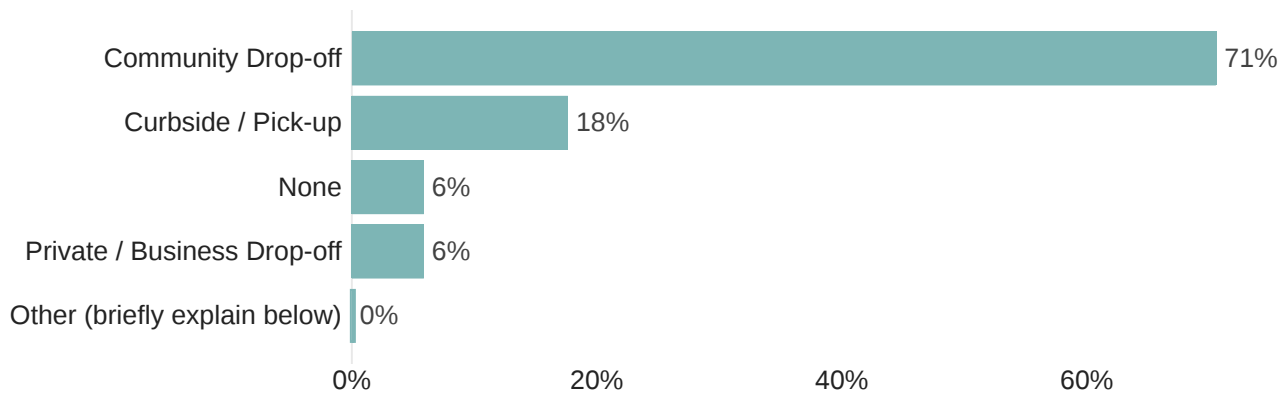
The full survey results for Missaukee County are on the following pages.

MMCE Networks Northwest Survey Results Summary (Missaukee County)*

Q1 - What recycling services are available in your area? (select all that apply)

SUMMARY - 71% of Missaukee County residents have access to Community Drop-off recycling services, and a few have access to Curbside Pick-up recycling services.

16 Responses



Q1 - "Other" text responses

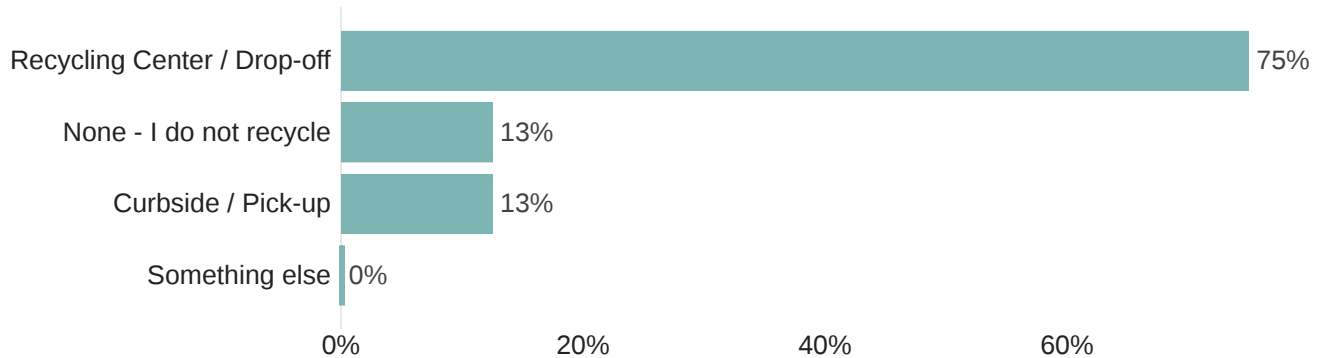
No data found - your filters may be too exclusive!

*Very low base size ($n < 30$) for county. With only 16 responses, please do not consider data representative of the county and instead use only for its qualitative insights. Grey boxes stating, "No data found - your filters may be too exclusive," indicate questions with without responses from respondents as a result of low base size and/or non-required survey questions.

Q2 - What type of recycling services do you most often use, not including bottle returns?

SUMMARY - Given the stated availability of recycling services, it is unsurprising that Drop-off services are most often used. 13% don't recycle at all and 13% use Curbside Pick-up recycling services.

16 Responses



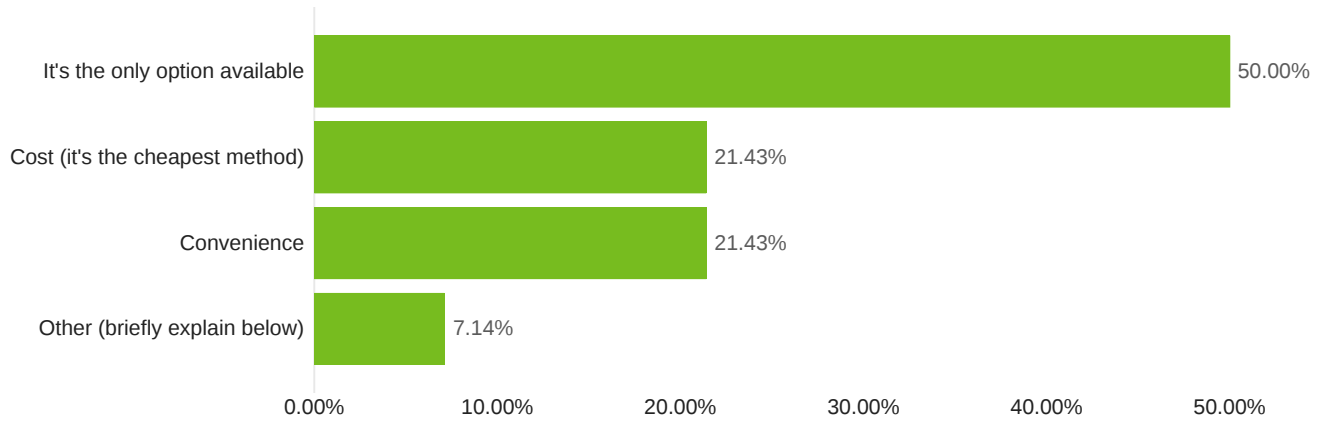
Q2 - What type of recycling services do you most often use, not including bottle returns? Text responses

No data found - your filters may be too exclusive!

Q3 - What is the most important reason you choose to recycle this way?

SUMMARY - Half of Missaukee residents chose their method of recycling because it is the only option offered.

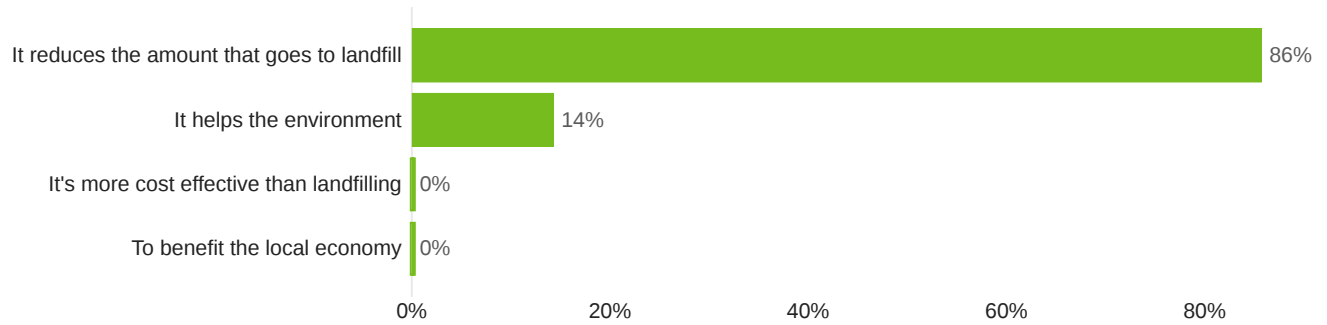
14 Responses



Q4 - Why do you recycle?

SUMMARY - 86% recycle as a means to reduce the amount of waste headed to landfills. 14% do so for environmental reasons.

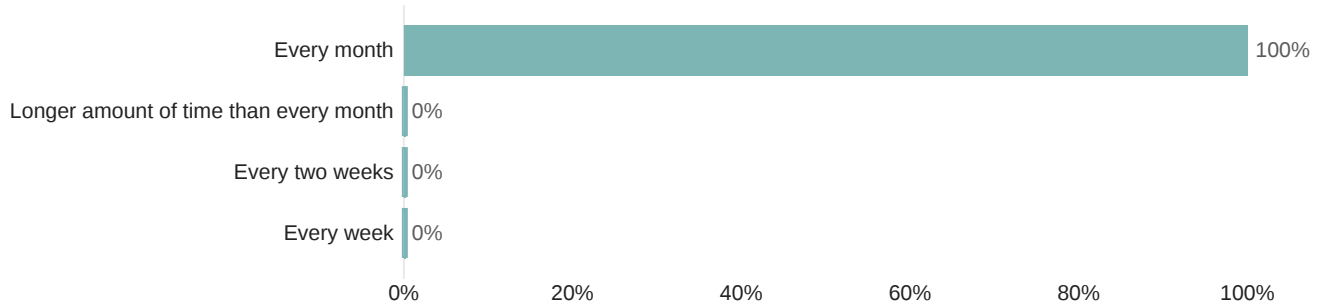
14 Responses



Q5 - How often do you recycle using curbside / pick-up?

SUMMARY - Of those who are offered Curbside Pick-up services, all use the service every month.

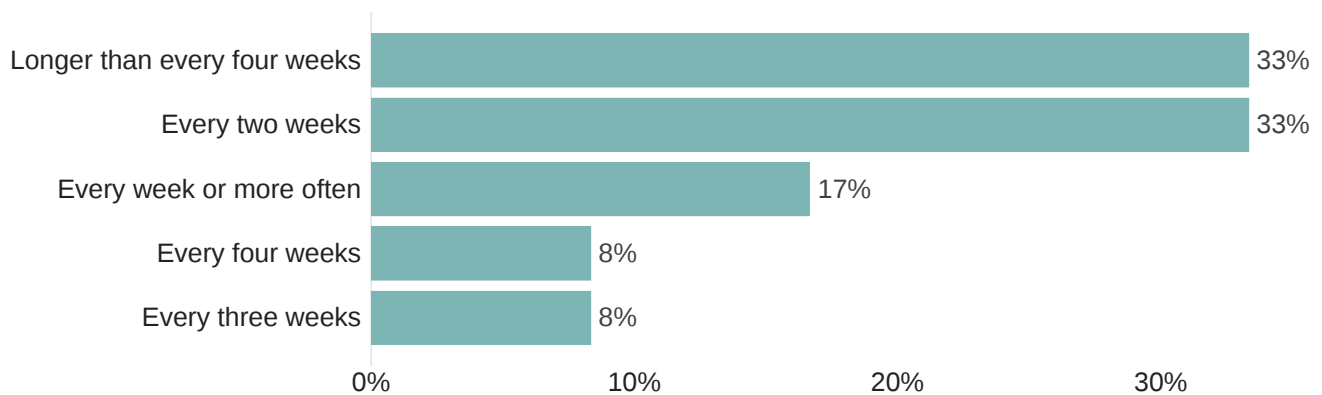
2 Responses



Q6 - How often do you recycle using a Recycling Center or drop-off?

SUMMARY - Those with access to Drop-off recycling services to are likely to use the service either every other week or longer than every month.

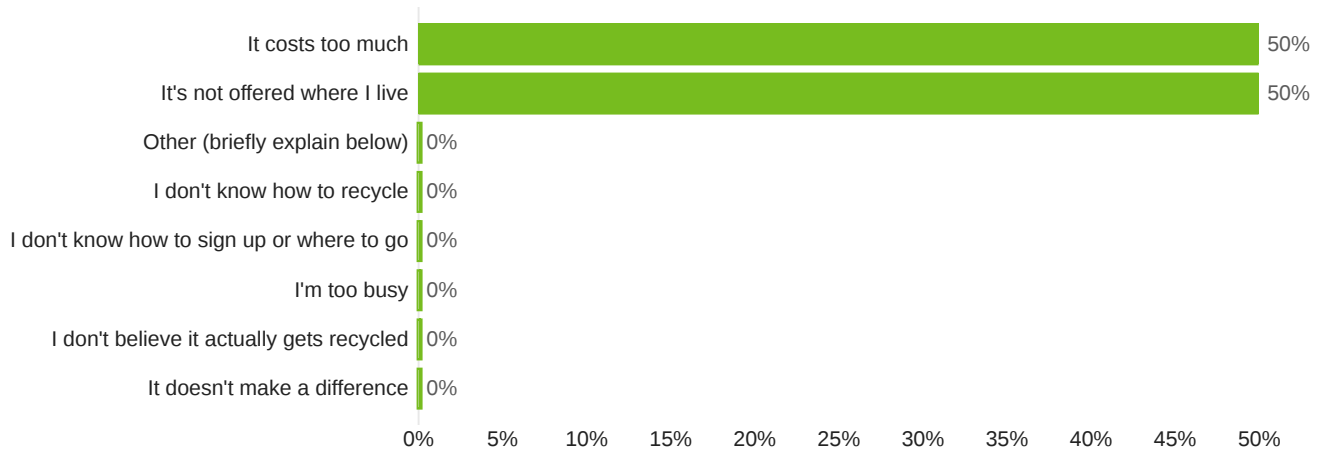
12 Responses



Q7 - What is the most significant reason you do not recycle?

SUMMARY - Cost and accessibility are the reasons that two individuals do not recycle.

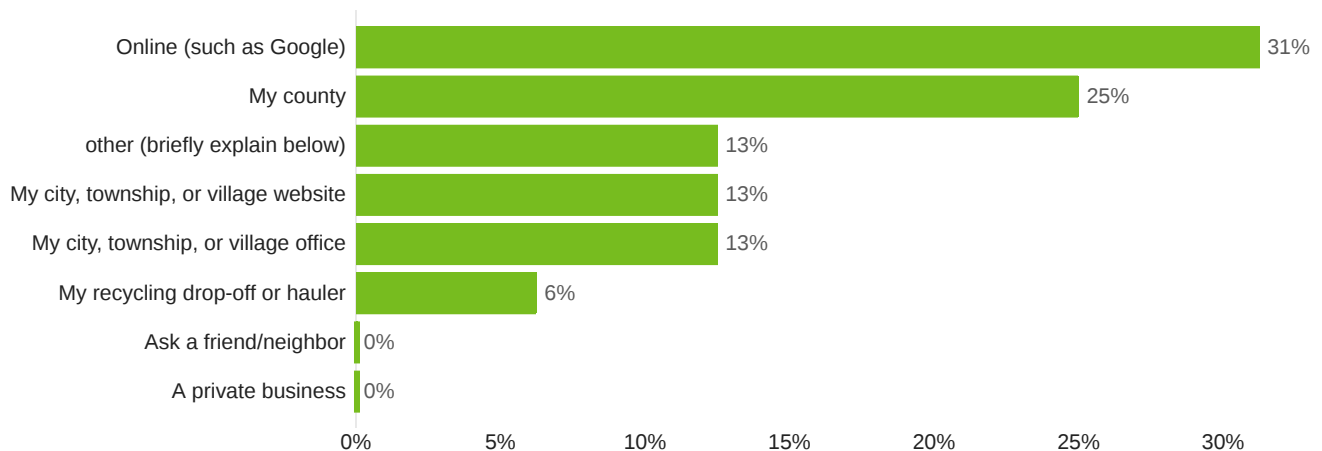
2 Responses



Q8 - If you had questions about recycling, where would you first seek out information?

SUMMARY - 57% first look towards their municipality and recycling providers to answer questions about recycling. 31% seek information from Google. And, a few others get information from Missaukee Conservation District.

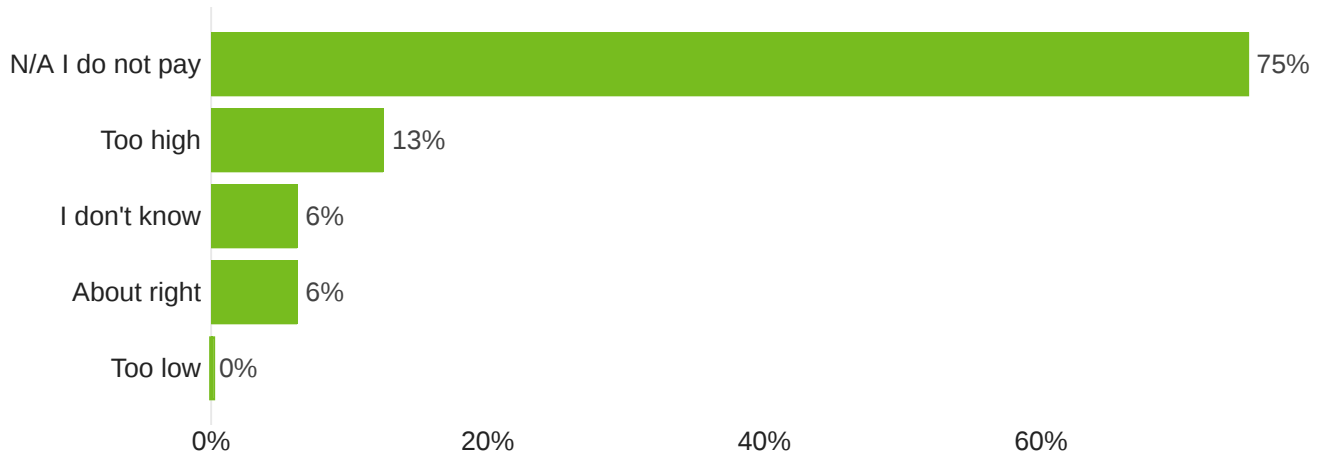
16 Responses



Q9 - Do you think the cost of recycling is too high, about right or too low?
Please respond even if you do not recycle.

SUMMARY - 75% do not pay for recycling. While 13% feel that the price of recycling is too high. NOTE: One potential problem with this question, is that the survey did not capture whether the respondent knows if the cost of recycling is bundled into the cost of their trash pickup.

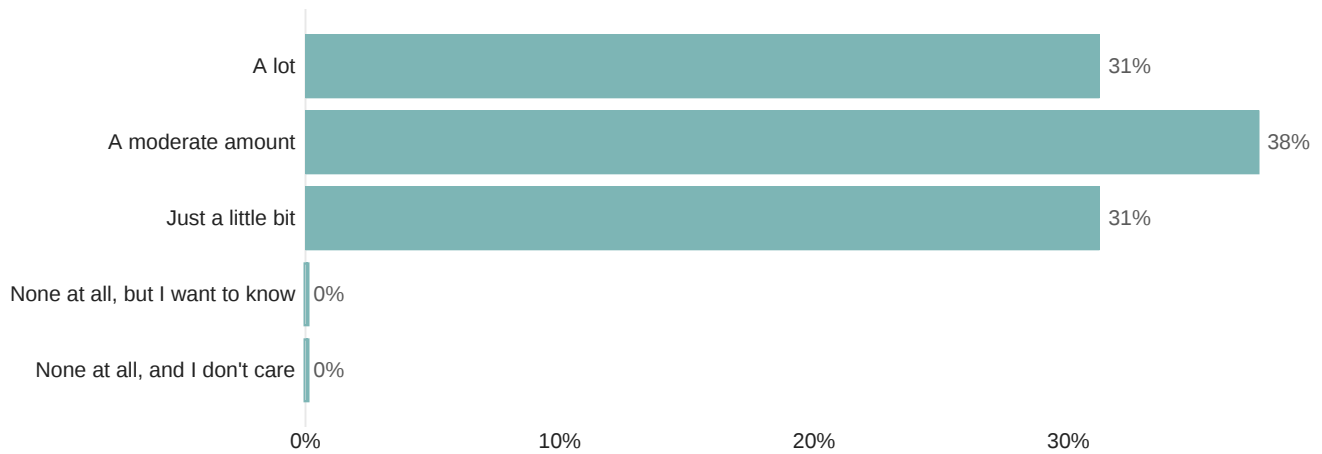
16 Responses



Q10 - How much do you know about recycling, generally speaking?

SUMMARY - Missaukee residents are about equally split between feeling that they know a lot, know a moderate amount, and know just a little bit about recycling.

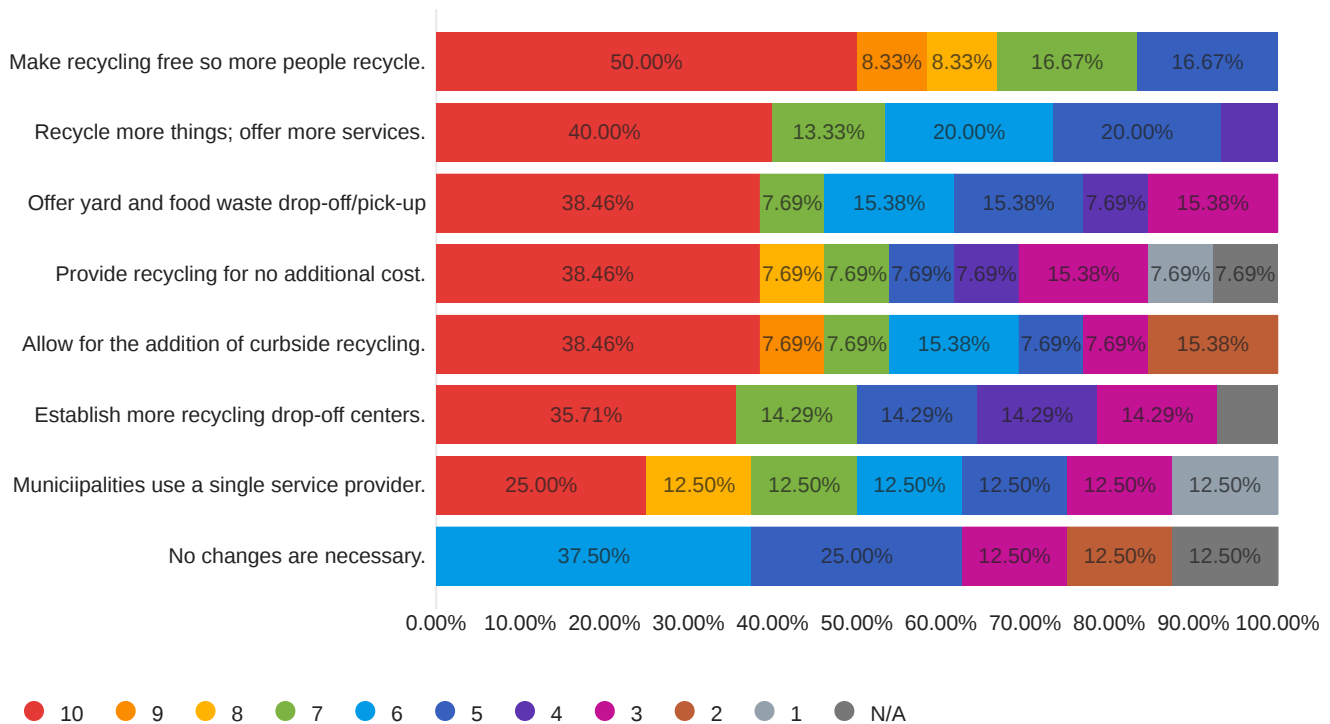
16 Responses



Q11 - Leaders in Northwest Michigan are exploring ways to improve recycling and other waste management services offered to residents and businesses. On a scale of 1-10, with 10 being VERY IMPORTANT and 0 being NOT AT ALL IMPORTANT, how important are each of the following potential improvements to you? If you already have access to an option, select 'not applicable'

SUMMARY - Although residents who currently recycle feel that recycling costs either the right amount or little to nothing for them, they express an importance for recycling to be completely free to allow for greater accessibility and participation from more people. As well, residents would like to see more recycling services to support the recovery of items not currently recycled in their areas, such as yard and food waste pick-up.

16 Responses

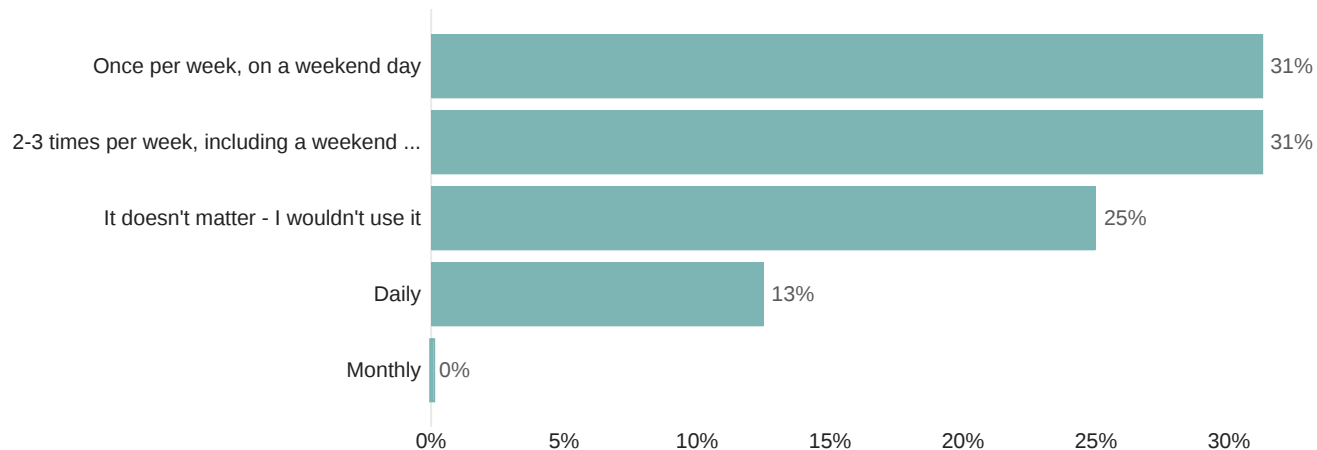


Select a field

Q12 - If a convenient recycling or food waste drop-off site were available close to where you live, how often would you want it open?

SUMMARY - 62% of people would like a Drop-off site open at least once per week on the weekend day. While a quarter would not use a drop-off site regardless of when it was open.

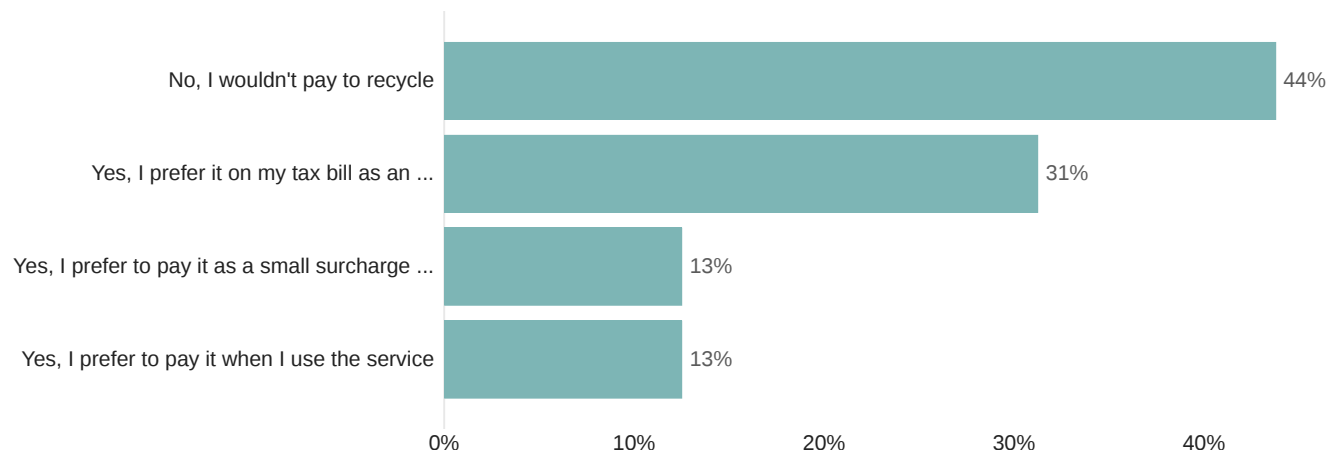
16 Responses



Q13 - Would you be willing to pay a small fee to have convenient access to recycling or food waste collection?

SUMMARY - Most residents do not want to pay for recycling or food waste collection services. But 31% prefer to pay for recycling or food waste collection services as an assessment or fee on their tax bill.

16 Responses

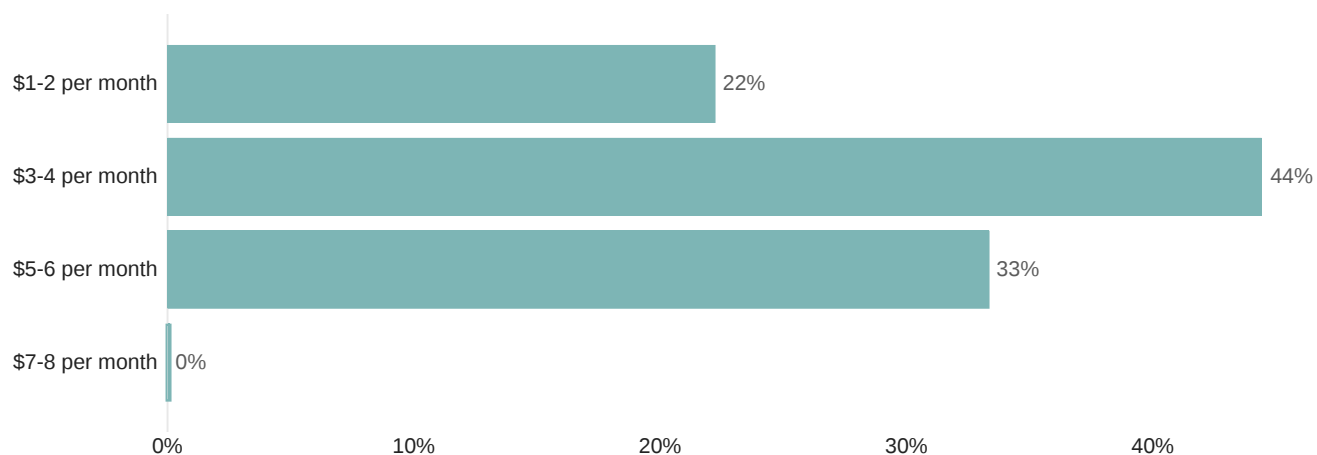


Q14 - What would you be willing to spend to get convenient access to recycling or food waste collection?

SUMMARY - A sizeable fraction of respondents (44%) would not pay anything for convenient access to recycling or food waste collection. Of those willing to pay for recycling or food waste collection, ALL want to pay \$6 or less a month for recycling or food waste collection; \$3-4 per month is most preferred.

Note: 44% of respondents would not pay anything.

9 Responses



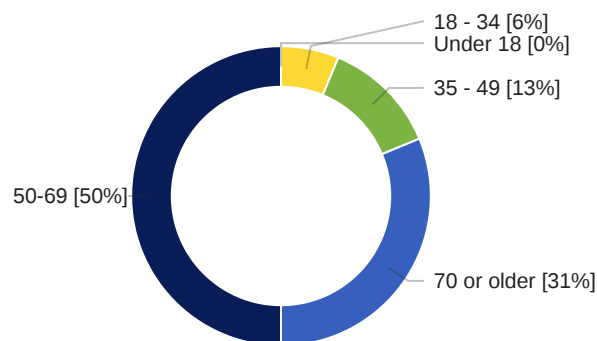
Demographics and Background of Respondents

SUMMARY:

- Respondents are primarily 50 years of age or older.
- Respondents are predominately female.
- 75% have some college education or higher.
- 100% of respondents own the home that they live in.
- 88% live in Missaukee County year around.
- Unsurprisingly, because of the higher age range of our respondents, 81% do not have children living at home who are school age or younger.
- 100% of respondents are white with no representation of other racial or ethnic groups.
- Median yearly household income falls around \$50,000 - \$75,000 per year.
- N/A - no responses.

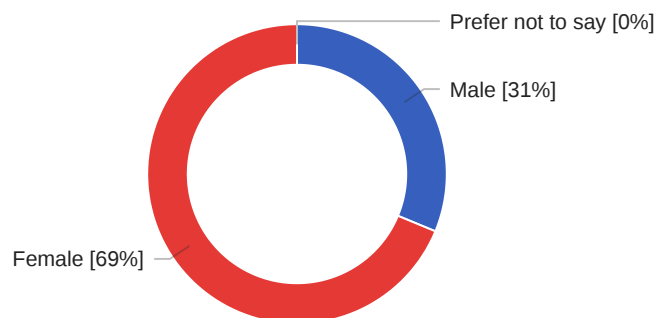
Q16 - Which of these best fits your age?

16 Responses



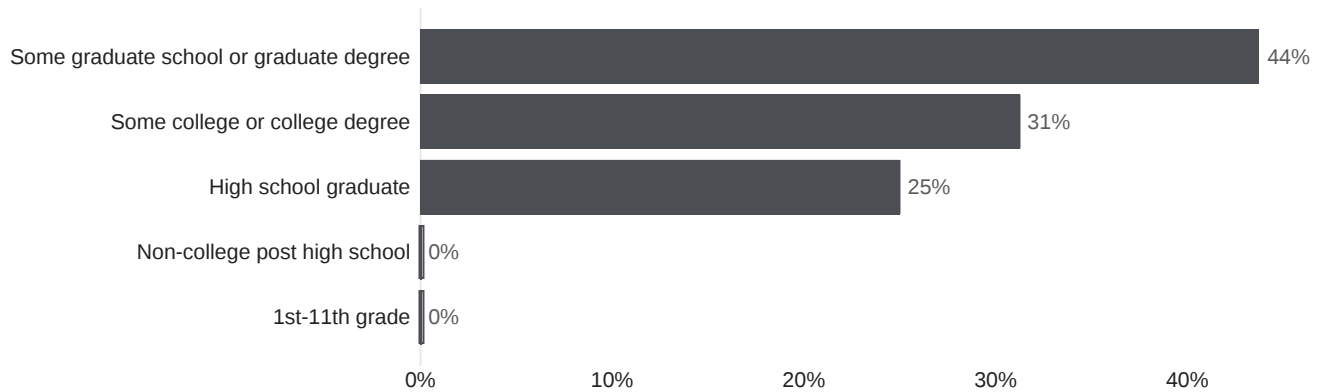
Q17 - What is your gender?

16 Responses



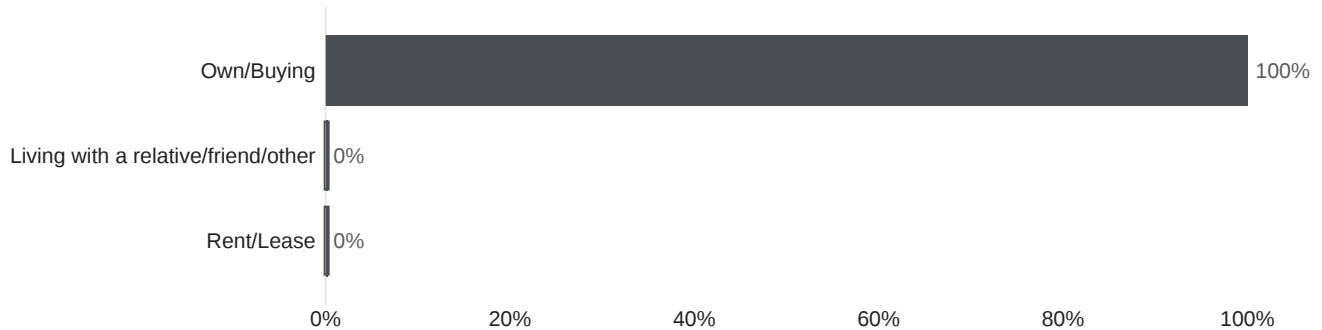
Q18 - What is the last grade or level of schooling you completed?

16 Responses



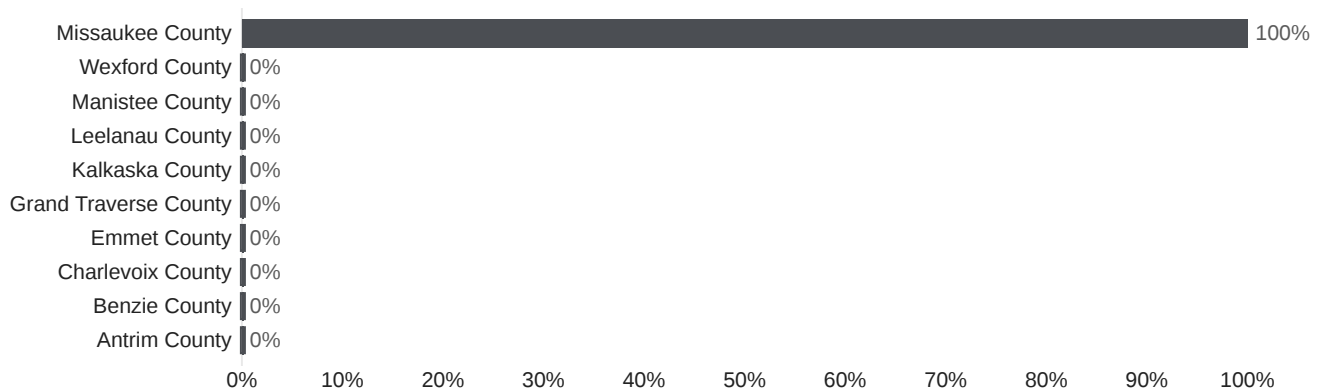
Q19 - Do you own your own home, are you buying a home, or do you lease or rent where you live?

16 Responses



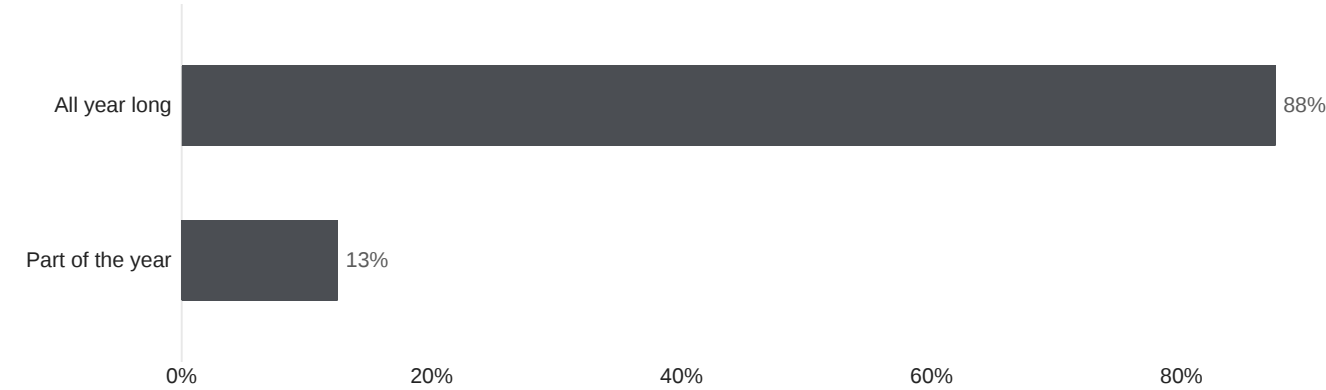
Q20 - County

16 Responses



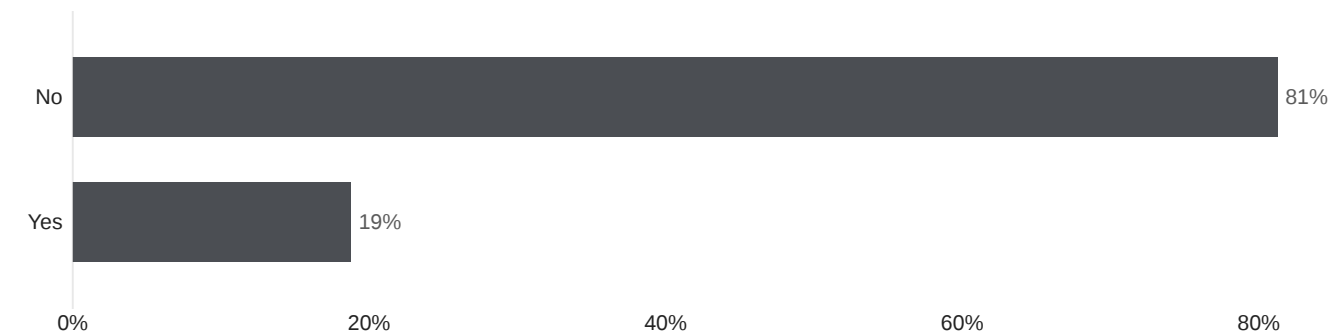
Q21 - How much of the year do you live in this county?

16 Responses



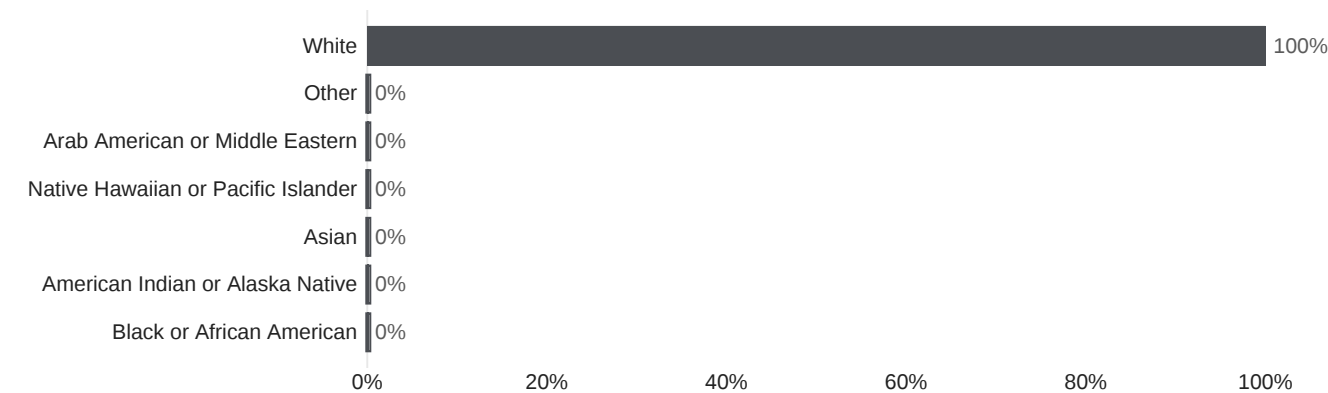
Q22 - Do you have children living in your home who are school age or younger?

16 Responses



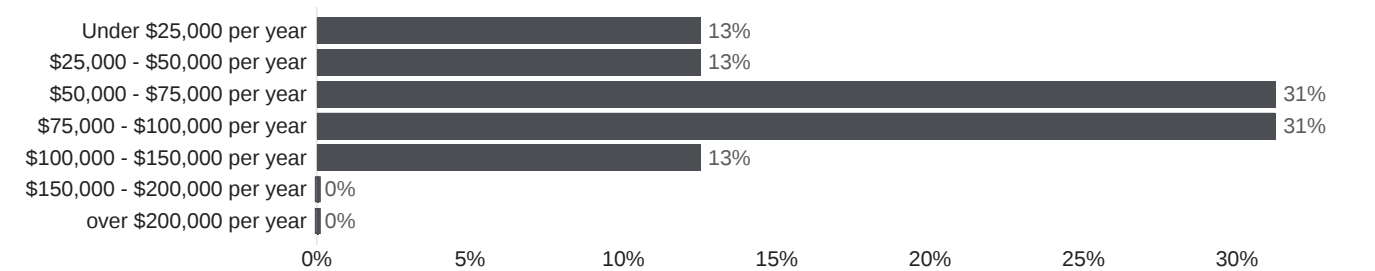
Q23 - Which racial or ethnic group best describes you?

16 Responses



Q24 - In which of the following categories does your total yearly household income fall, including everyone in the household? If retired, please select an income category based on retirement income.

16 Responses



Q27 - As a renter/lessee, do you have recycling available on the property where you live?

No data found - your filters may be too exclusive!



Supplement: **Wexford County** **Materials Management** **County Engagement**

March 1, 2023

PREPARED BY:



COMMISSIONED BY:



EXECUTIVE SUMMARY

Working together with Networks Northwest and member communities, RRS completed a comprehensive set of tasks that fulfills the objectives of Michigan Department of Environment, Great Lakes, and Energy (EGLE) Materials Management Community Engagement (MMCE) grant and lays the groundwork for regional collaboration in materials management planning among member communities.

The MMCE grant process is intended to help counties in the transition to materials management and begin to identify partnership within regions and counties, understand current materials management deficiencies and opportunities, highlight future changes to the planning process, and outline steps that can occur now at the county and regional levels to assist with the development of future materials management programs and infrastructure.

Key improvements and recommendations for counties within Networks Northwest are found in the respective sections in the report. RRS identified forty (40) recommendations that are categorized into seven areas which form the basis for a robust materials management system:

- Community Access
- Facilities and Infrastructure
- Robust Markets, including Materials of Focus
- Public/Private Partnerships
- Supportive Policy
- Education and Outreach
- Regional Planning

Specific to Wexford County and as required by the EGLE grant, RRS identified the top five needs and the top three materials management projects that Wexford County should consider.

TOP FIVE NEEDS:

1. Drop-off recycling stations + assurance of curbside recycling, where populations justify the service
2. Consistent education and outreach
3. At least one Center for Hard to Recycle Materials (CHaRM)
4. Hub-and-spoke collections for key materials
5. More frequent household hazardous waste collection opportunities

TOP THREE MATERIALS MANAGEMENT PROJECTS:

Based on the top five needs above, RRS recommends Wexford County focus on three projects that could have significant impact on accessibility, awareness, and sustainable funding for programs and services.

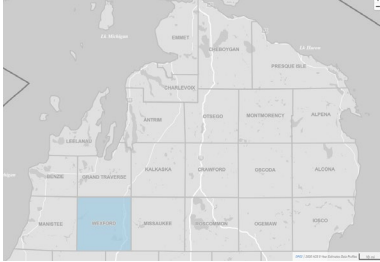
1. Engage County and municipal leaders in conversations about materials management solutions in light of changes in state law.
2. Evaluate the funding and infrastructure needed to regularly or periodically collect additional materials, including more frequent household hazardous waste events, mattresses, food waste, and other difficult to recycling items.
3. Develop consistent recycling outreach materials in partnership with the hauler, the processor, the mills, and, as appropriate, the region.

STAKEHOLDERS

A stakeholder list was developed in collaboration with each county recycling contact to determine priority county, municipal, and other invested stakeholders. Perspectives were sought from either direct interview (in person or via phone) or through a set of questions distributed via email. Emails were sent at least twice seeking feedback.

First	Last	Organization	Primary Stakeholder Type	Contact Type
Joe	Porterfield	Wexford County	County Administrator	primary
Mark	Bevelhymmer	GFL/American Waste	hauler	In-Person
Todd	Harland	Republic Services	hauler	Email
Jill	Reynolds	Waste Management	hauler	Email
Sarna	Salzman	SEEDS	community organization	In-person
Ann	Rogers	Northern Michigan Environmental Action Council	community organization	Email
Joseph	Hurlburt	Wexford County	county official	Email via County Administrative Staff
Michael	Musta	Wexford County	county official	Email via County Administrative Staff
Ben	Townsend	Wexford County	county official	Email via County Administrative Staff
Kathleen	Adams	Wexford County	county official	Email via County Administrative Staff
Michael	Bush	Wexford County	county official	Email via County Administrative Staff
Julie	Theobald	Wexford County	county official	Email via County Administrative Staff
Gary	Taylor	Wexford County	county official	Email via County Administrative Staff
Jason	Baughan	Wexford County	county official	Email via County Administrative Staff
Brian	Potter	Wexford County	county official	Email via County Administrative Staff

WEXFORD COUNTY - GAPS



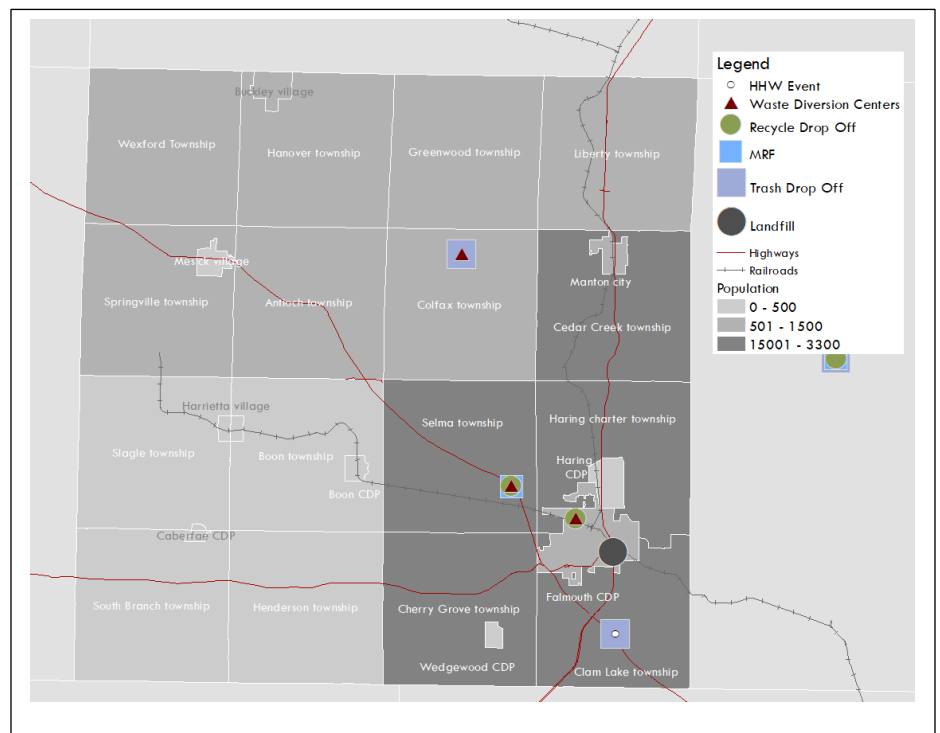
Community Access: Every household and business in a community needs convenient access to effective programs. This access can be through curbside collection, drop-off site locations, or a combination of the two. Material diversion and recovery needs to be as convenient as waste disposal as a first step sustainable materials management.


- Curbside recycling is available in the City of Cadillac through a private hauler. It is not offered in the remainder of Wexford County.
- Drop-off recycling is available at one location in the county.
- HHW services are provided through a single day event.
- There are no organics collection locations for food or yard waste.

Processing Facilities: The material collected at the home and business needs to be processed before reaching the end market. It is crucial for the County to own or have access to processing facilities conveniently located, technologically advanced, and with enough capacity to handle the population's current and future material streams. These facilities act as the "middleman" between the local government and the end market.

- Wexford County has a small, privately owned materials recovery facility with baling capacity.

Population:	33,673
Square Miles of Land Area:	565.0
Households:	13,212
Employer Establishments:	882
Countywide Curbside Trash:	NO
Countywide Curbside Recycling:	NO
Countywide Curbside Organics:	NO
Countywide Drop-off Trash:	NO
Countywide Drop-off Recycling:	NO
Countywide Drop-off Organics:	NO
Countywide Drop-off HHW:	YES





Robust Markets: The success of end markets that receive the recyclables that are collected leads to success in growing a sustainable circular economy that ultimately allows material to be diverted from landfills over the long term. By increasing demand, Networks Northwest creates a ‘pull’ for additional materials that in turn, drives supply.

- There were no markets identified in Wexford County for recovered materials.

Public/Private Partnerships: The business community and Networks Northwest will need to work closely together to find success. These partnerships can be found through funding opportunities with private companies, shared owner/operator agreements for MRFs and composting facilities, marketing and educational campaigns, and everything in between. Many retailers and packaging companies are realizing that local governments are responsible for the end of life for their products, thus leading to the sustainability of their product. Therefore, the benefits of public/private partnerships are becoming more apparent and accessible.

- There are no public/private partnerships in Wexford County.

Supportive Policy: To reach high landfill diversion goals, policy will need to be crafted to ensure responsible recovery of material is the standard practice throughout the community, not just the best practice. A variety of policy approaches can be explored for Networks Northwest that have found success in other parts of the country and the globe.

- Wexford County does not use policy to fund or ensure convenient access to programs.

Education and Outreach: Once a strong infrastructure is in place, all citizens and businesses will need to know how to handle material in their home and at work. Recycling systems continue to evolve as material composition changes and technologies change. Thus, information needs to be put in front of the citizens of your community on a regular basis in many different ways to feed MRFs and end markets with good quality material, while continuing to decrease the material buried in landfills.

- There does not appear to be a consistent message about recycling locations and materials across the county.

SURVEY

Over 1,650 individuals across the Networks Northwest region took the survey that included questions about current participation in recycling-related activities as well as future needs and demographic information to inform trends. 77 people from Wexford County participated in the survey.

This survey was not intended to meet statistical minimums. Rather, it was intended to be a snapshot to inform the current usage and future needs of the region. The set of questions that were asked was purposefully restricted to reduce the chance of survey fatigue, wherein participants close the survey prior to completing it.

The survey was intended to take no more than 10 minutes to complete, with participants being told in the introduction that it should take no more than 5-8 minutes. The survey was distributed by community recycling coordinators and Networks Northwest via social media and press release. Survey logic was built into the flow of questions to ensure that the appropriate type of question was asked based on previous responses. As such, participation rates in each question varied. The majority of survey respondents are current recyclers and is the result of the way the survey was distributed. Further studies to understand reasons for non-participation may be needed.

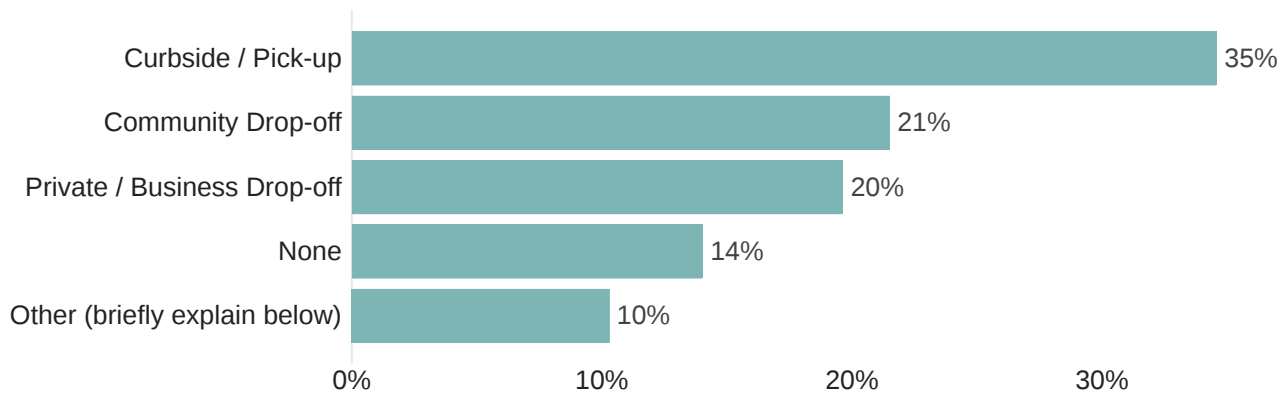
The full survey results for Wexford County are on the following pages.

MMCE Networks Northwest Survey Results Summary (Wexford County)

Q1 - What recycling services are available in your area? (select all that apply)

SUMMARY - 17% express having access to both Curbside Pick-up and Community Drop-off recycling services. Many noted that these services are offered through private businesses, such as Ms Green, for a fee.

77 Responses



Q1 - "Other" text responses

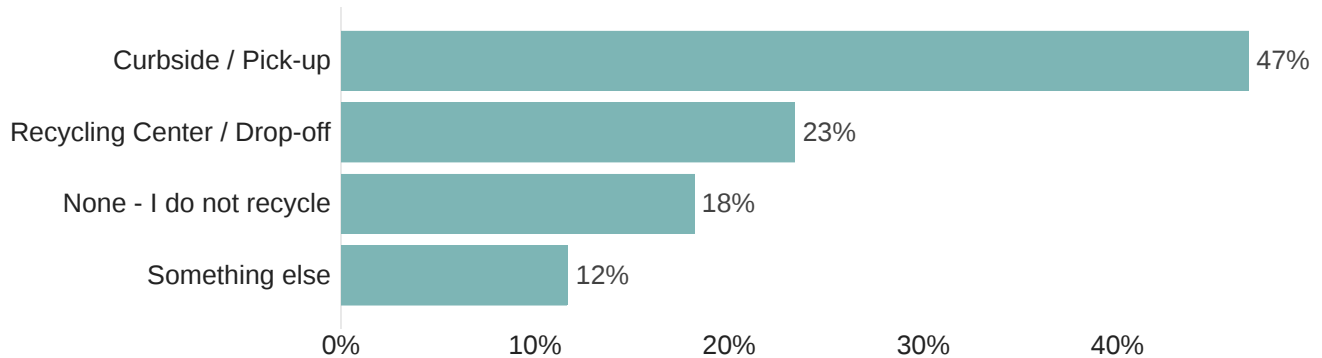
11 Responses



Q2 - What type of recycling services do you most often use, not including bottle returns?

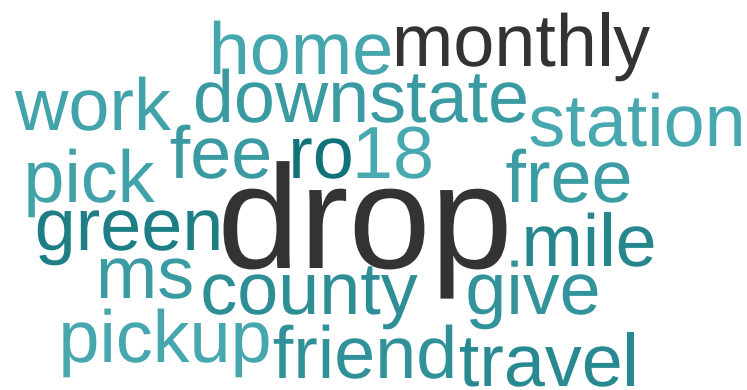
SUMMARY - Although most use Curbside Pick-up recycling services many express traveling elsewhere, to a different county, to recycle. 18% do not recycle at all.

77 Responses



Q2 - What type of recycling services do you most often use, not including bottle returns? Text responses

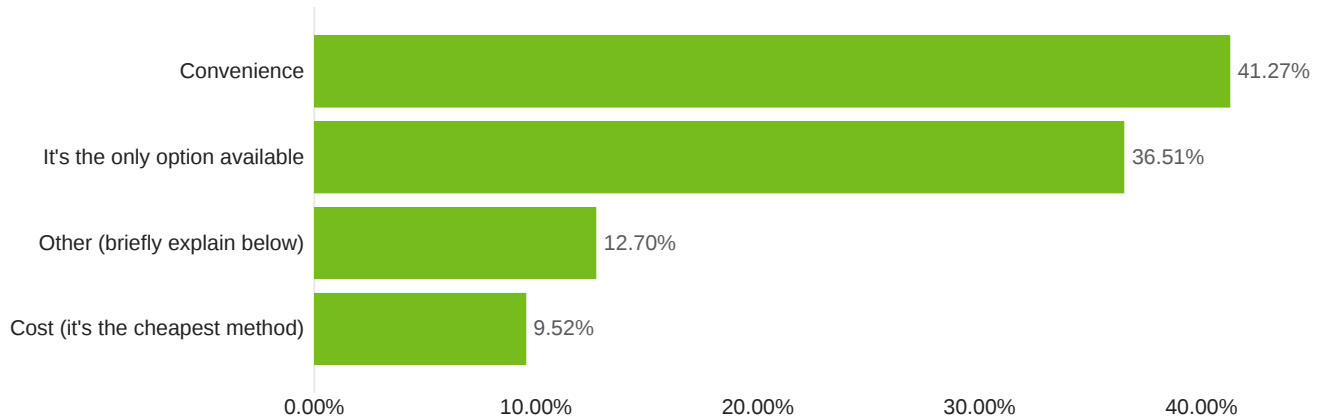
7 Responses



Q3 - What is the most important reason you choose to recycle this way?

SUMMARY - For Wexford residents, convenience is the leading reason for choosing the method of recycling.

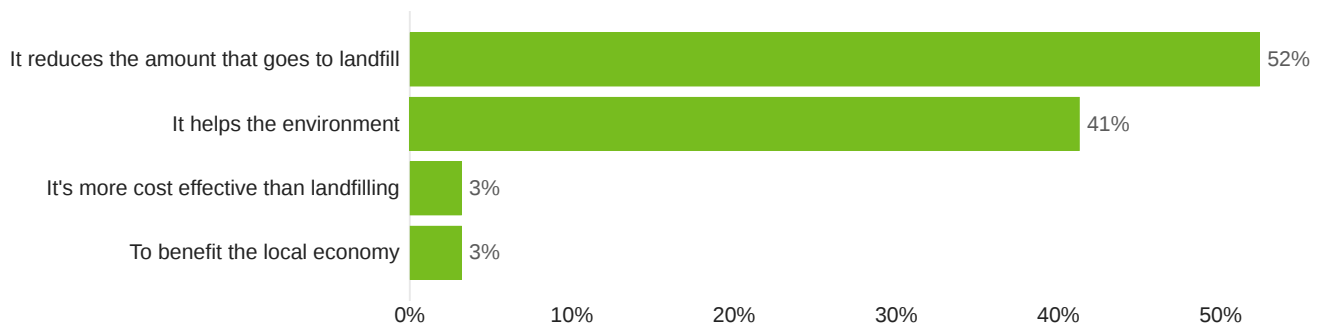
63 Responses



Q4 - Why do you recycle?

SUMMARY - 52% recycle as a means to reduce the amount of waste headed to landfills. 41% do so for environmental reasons.

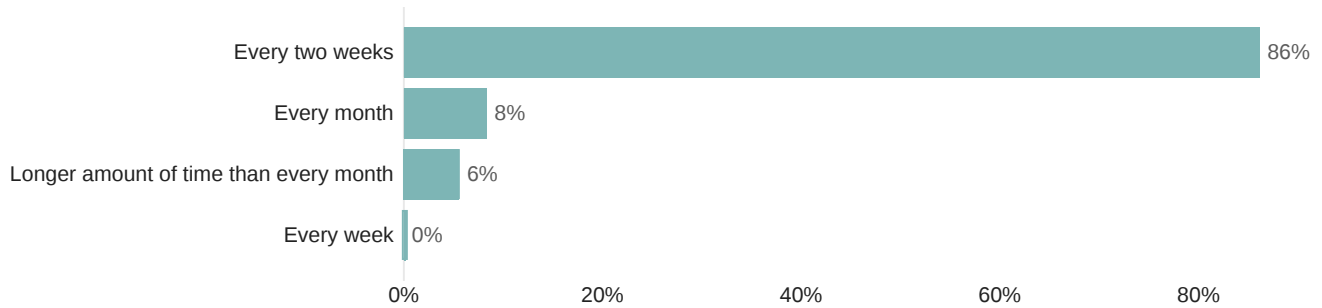
63 Responses



Q5 - How often do you recycle using curbside / pick-up?

SUMMARY - Of those who are offered Curbside Pick-up services, 86% use the service every two weeks and no one uses it weekly.

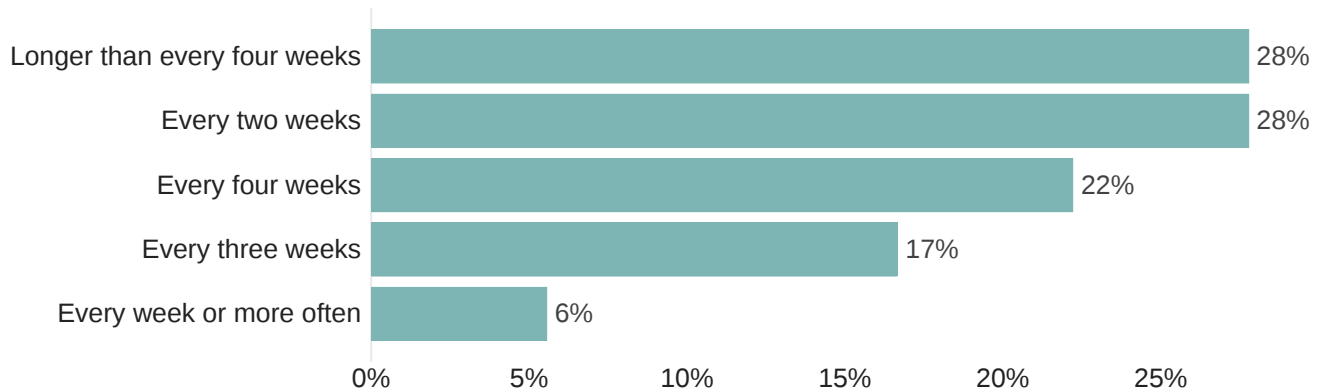
36 Responses



Q6 - How often do you recycle using a Recycling Center or drop-off?

SUMMARY - Those with access to Drop-off recycling services are likely to use the service either every other week, monthly, or longer than monthly. This is likely due to distances required to travel to the Drop-off sites.

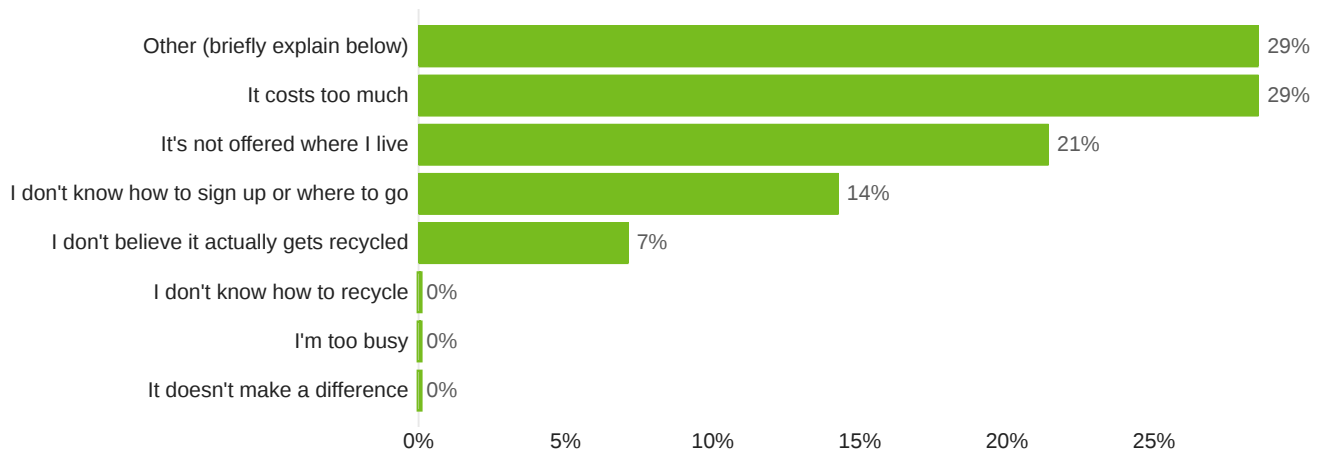
18 Responses



Q7 - What is the most significant reason you do not recycle?

SUMMARY - Of those who do not recycle, all express sentiments of inconvenience, high costs, and no curbside recycling offered.

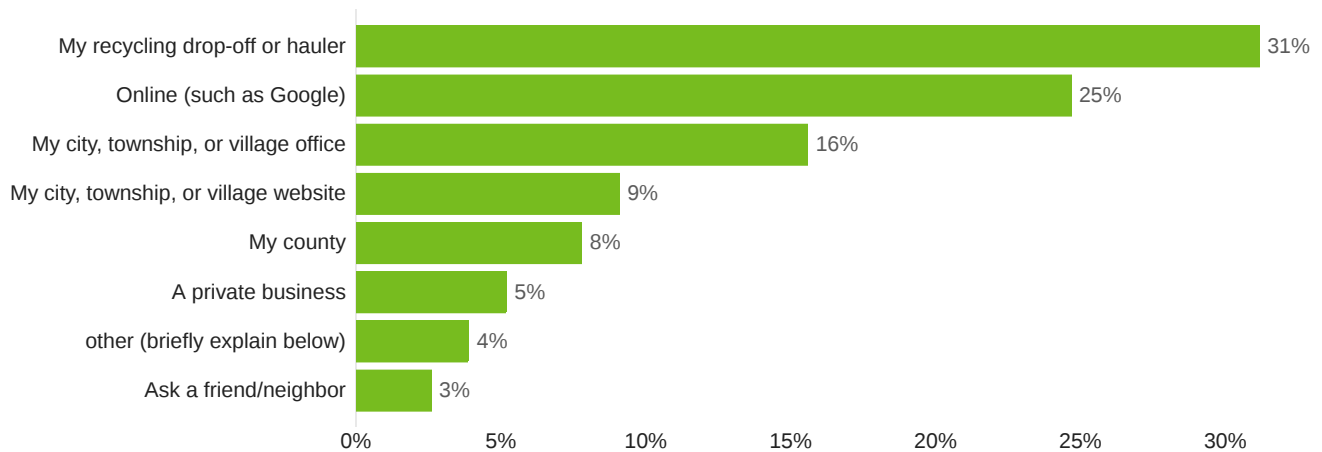
14 Responses



Q8 - If you had questions about recycling, where would you first seek out information?

SUMMARY - 64% first look towards their municipality and recycling providers to answers questions about recycling. 33% seek information from Google, friends, and private businesses. One individual expressed, "There is no help in Wexford County about recycling."

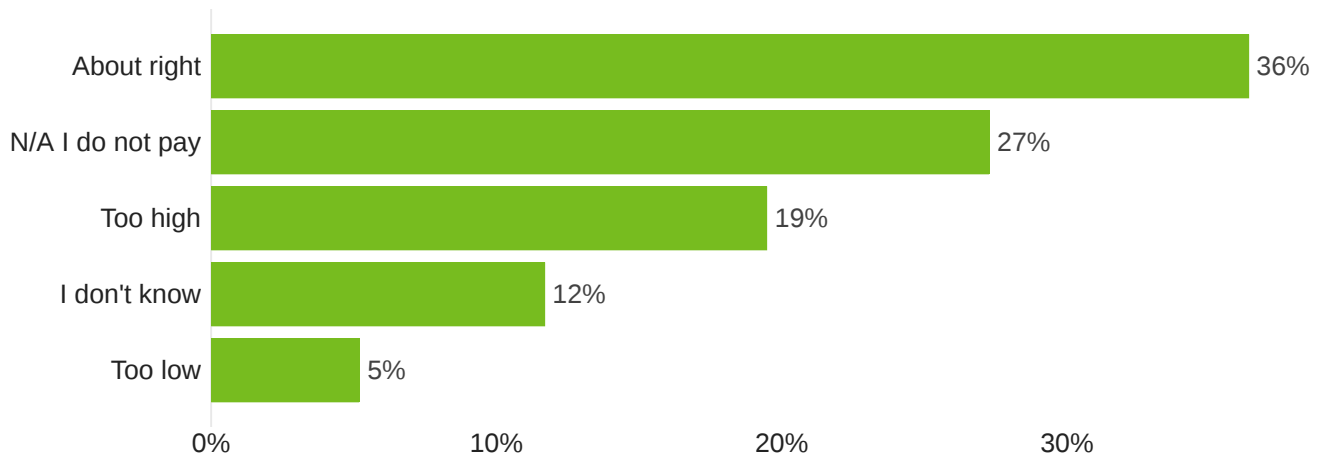
77 Responses



Q9 - Do you think the cost of recycling is too high, about right or too low?
Please respond even if you do not recycle.

SUMMARY - 27% do not pay for recycling. While 36% feel that the price of recycling is about right. NOTE: One potential problem with this question, is that the survey did not capture whether the respondent knows if the cost of recycling is bundled into the cost of their trash pickup.

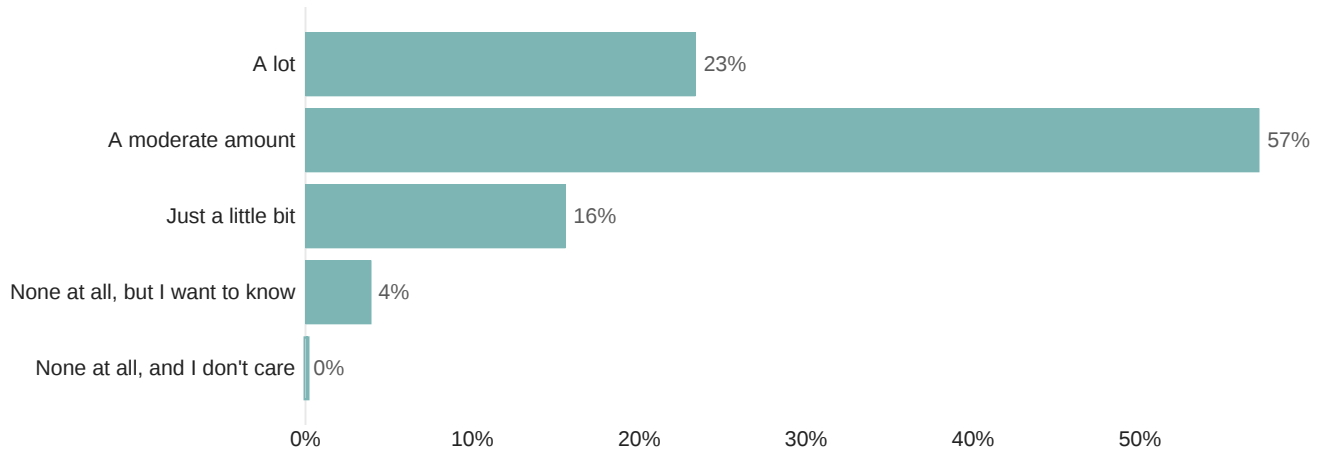
77 Responses



Q10 - How much do you know about recycling, generally speaking?

SUMMARY - A majority feels they know a moderate amount about recycling. Whereas only 23% feels that they know a lot.

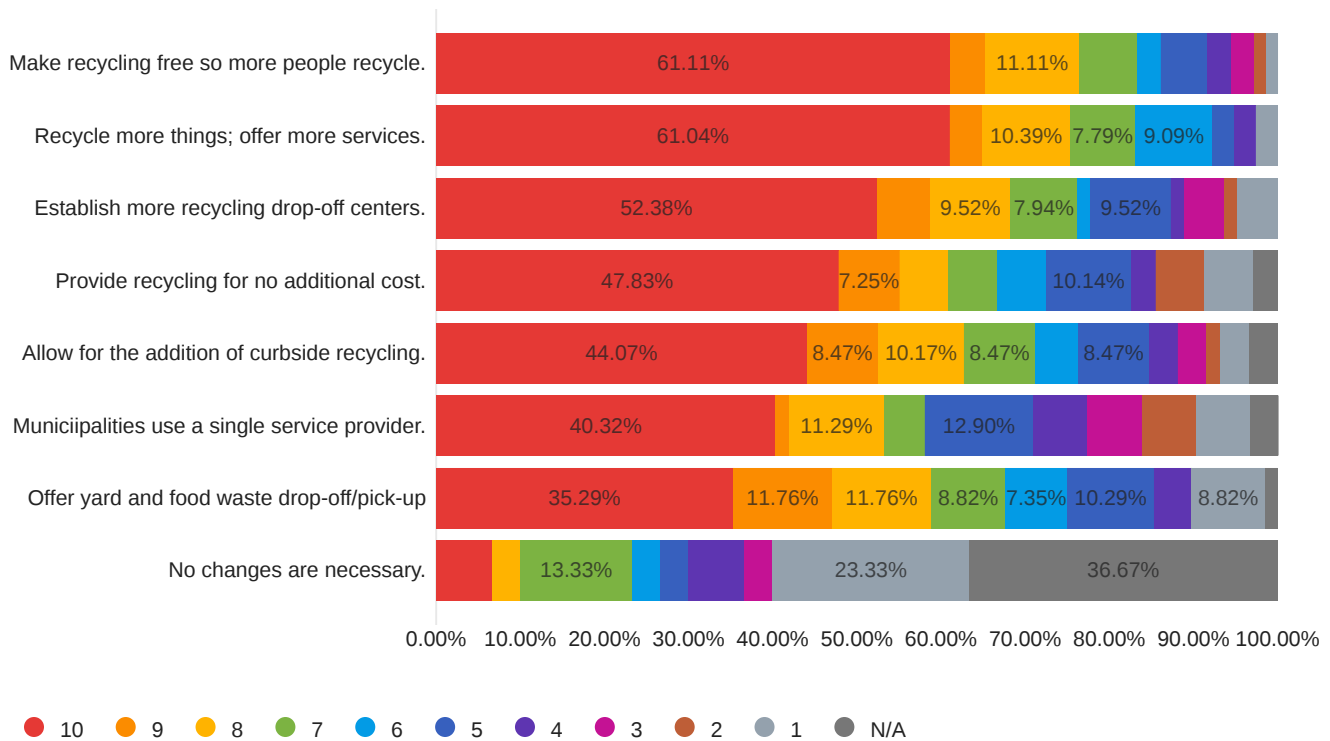
77 Responses



Q11 - Leaders in Northwest Michigan are exploring ways to improve recycling and other waste management services offered to residents and businesses. On a scale of 1-10, with 10 being VERY IMPORTANT and 0 being NOT AT ALL IMPORTANT, how important are each of the following potential improvements to you? If you already have access to an option, select 'not applicable'

SUMMARY - Although residents who currently recycle feel that recycling costs either the right amount or little to nothing for them, they express an importance for recycling to be completely free to allow for greater accessibility and participation from more people. As well, residents would like to see more recycling services to support the recovery of items not currently recycled in their area.

77 Responses

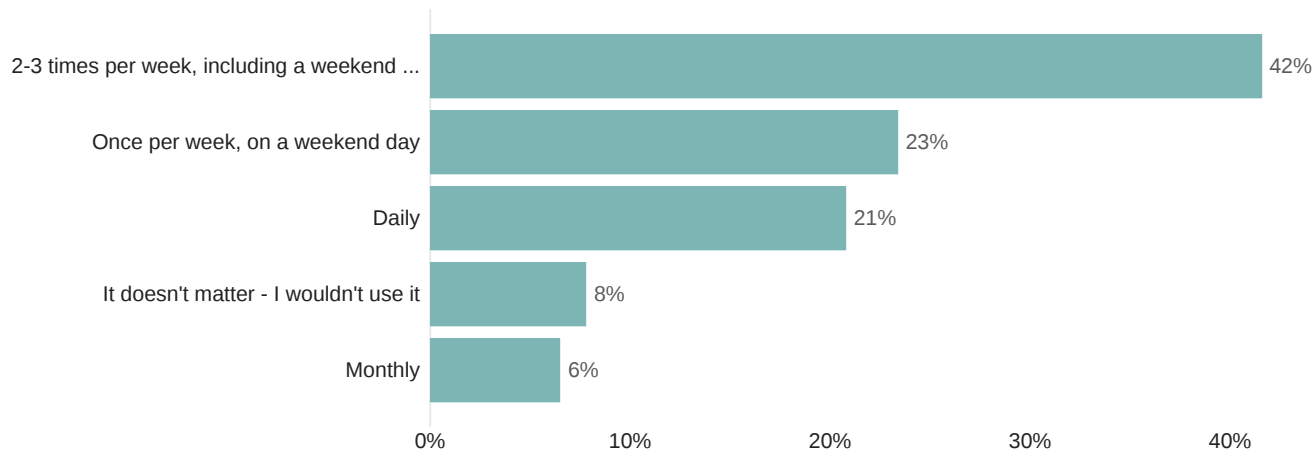


Select a field

Q12 - If a convenient recycling or food waste drop-off site were available close to where you live, how often would you want it open?

SUMMARY - 65% of people would like a Drop-off site open at least once per week on the weekend day. Less than a quarter would like Drop-off sites open daily.

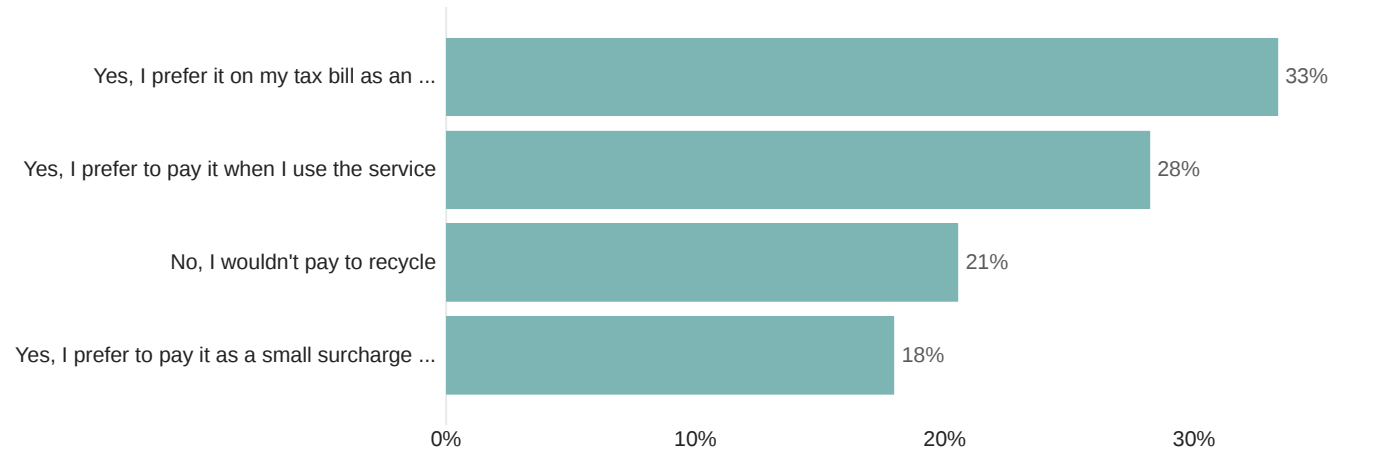
77 Responses



Q13 - Would you be willing to pay a small fee to have convenient access to recycling or food waste collection?

SUMMARY - Slightly less than a quarter of residents express a disinterest in paying for recycling. Instead, most prefer to have an assessment or fee on their tax bill or pay when they use the service.

77 Responses

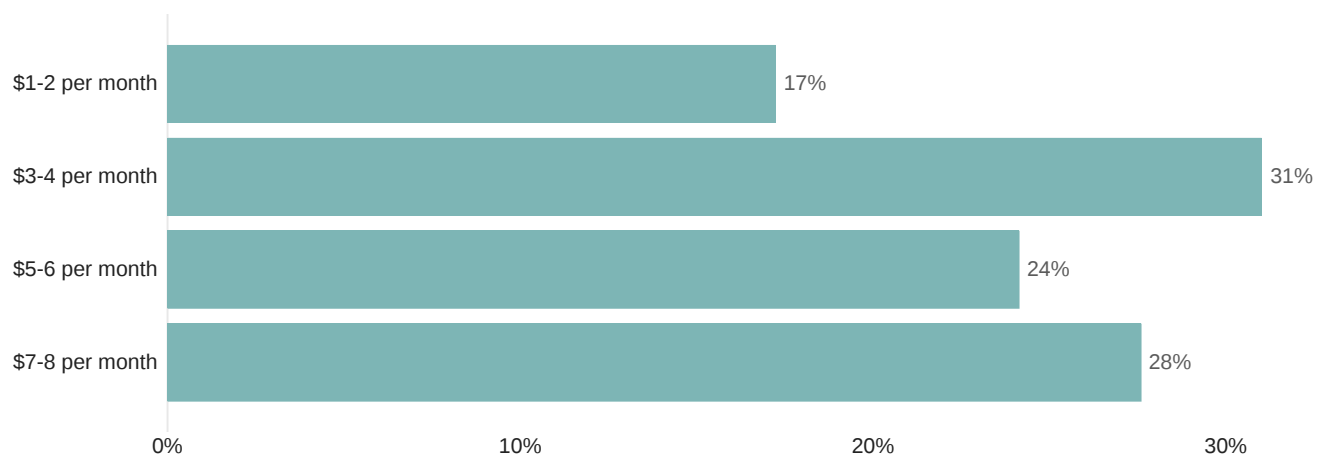


Q14 - What would you be willing to spend to get convenient access to recycling or food waste collection?

SUMMARY - A sizeable fraction of respondents (21%) would not pay anything for convenient access to recycling or food waste collection. Of those willing to pay for recycling or food waste collection, 72% want to pay \$6 or less a month for recycling or food waste collection; \$3-4 per month is most preferred.

Note: 21% of respondents would not pay anything.

58 Responses



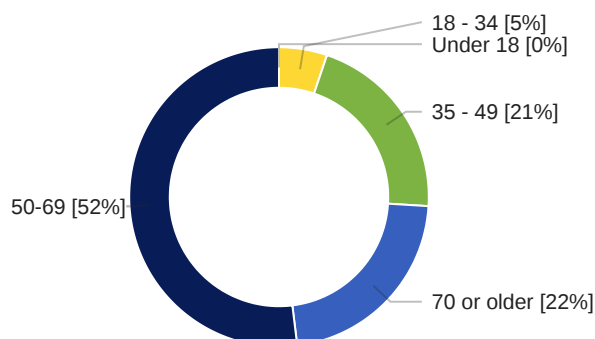
Demographics and Background of Respondents

SUMMARY:

- Respondents are primarily 50 years of age or older.
- Respondents are predominately female.
- 92% have some college education or higher.
- 96% of respondents own the home that they live in.
- 95% live in Wexford County year around.
- Unsurprisingly, because of the higher age range of our respondents, 81% do not have children living at home who are school age or younger.
- 96% of respondents are white with little representation of other racial or ethnic groups.
- Median yearly household income falls around \$75,000 - \$100,000 per year.
- Of those who rent or lease their home, one does not have recycling services available on the property, but would like the service and the other does have and uses recycling services available on the property.

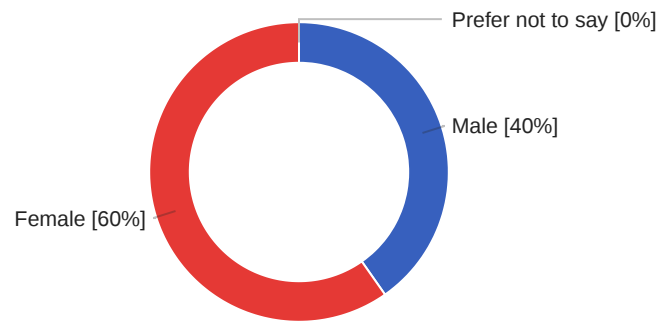
Q16 - Which of these best fits your age?

77 Responses



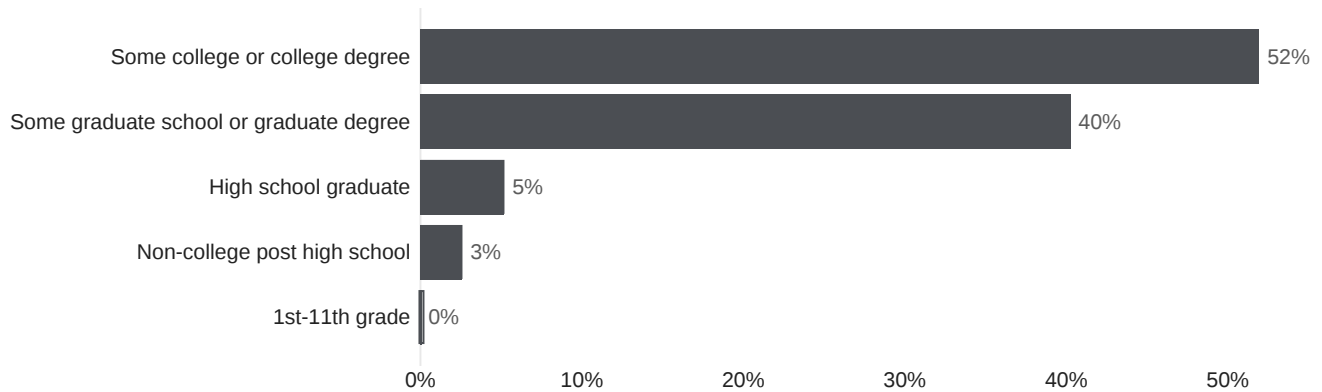
Q17 - What is your gender?

77 Responses



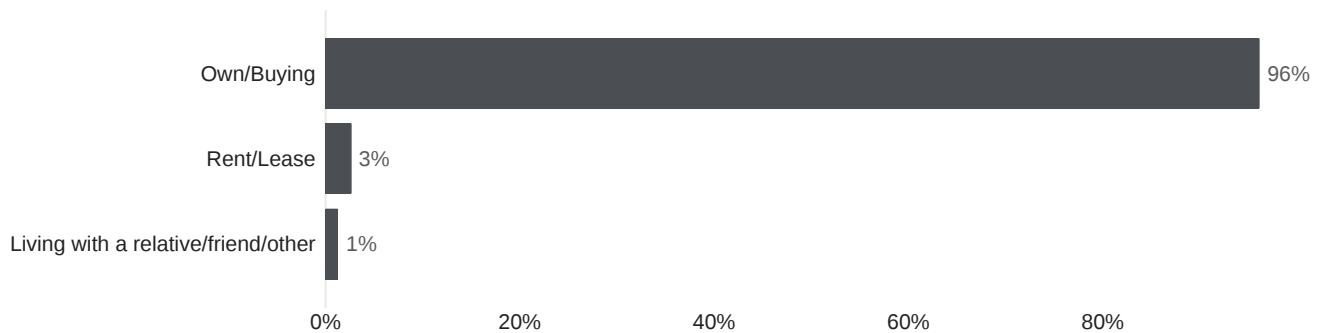
Q18 - What is the last grade or level of schooling you completed?

77 Responses



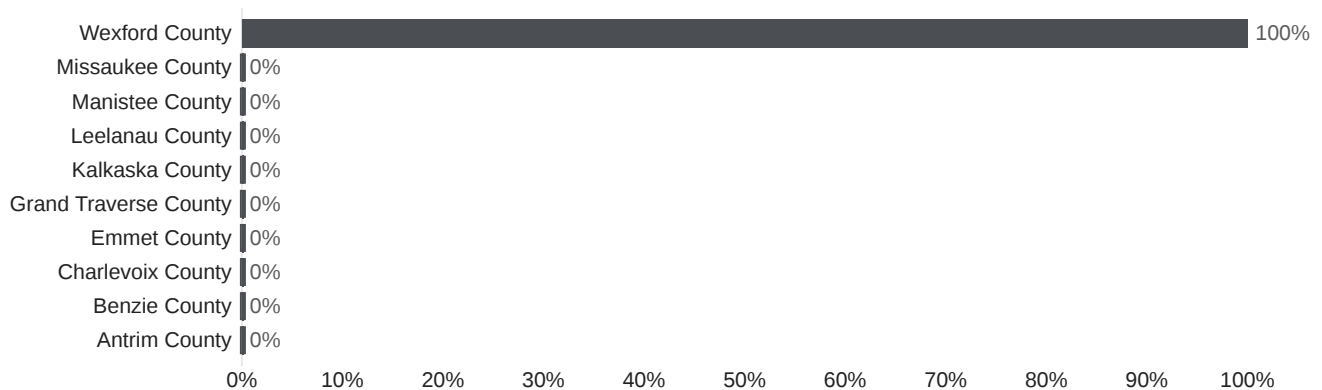
Q19 - Do you own your own home, are you buying a home, or do you lease or rent where you live?

77 Responses



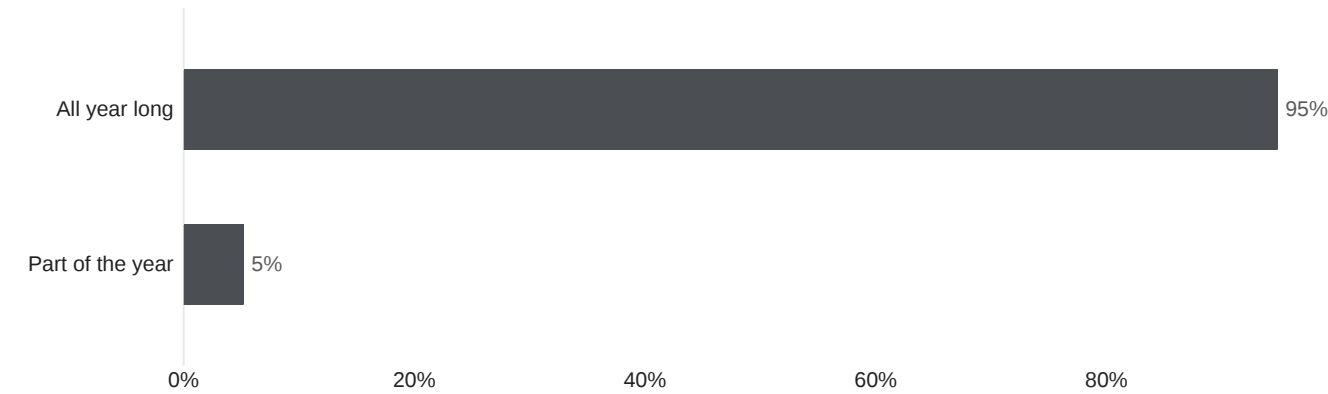
Q20 - County

77 Responses



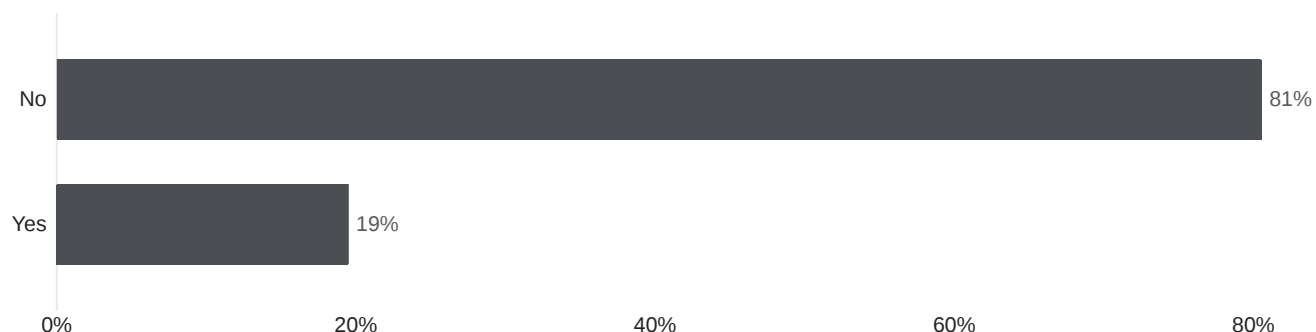
Q21 - How much of the year do you live in this county?

77 Responses



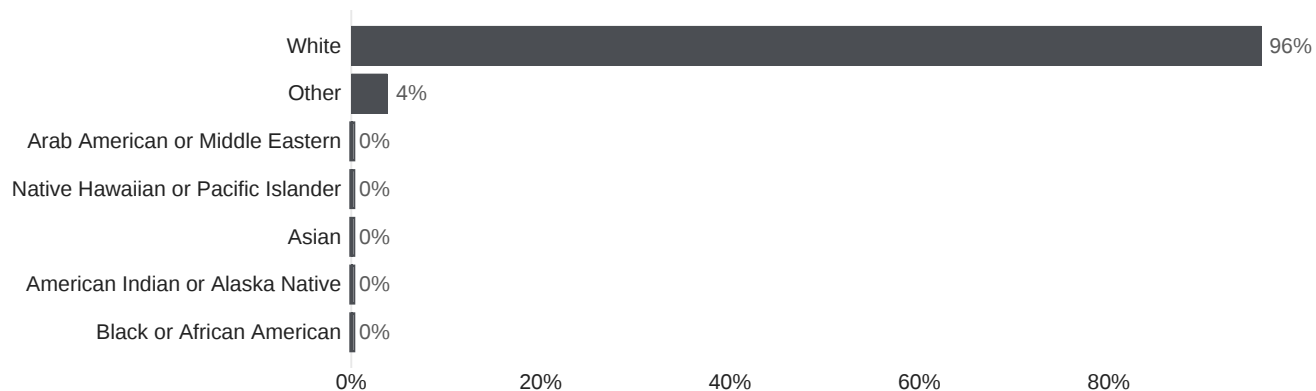
Q22 - Do you have children living in your home who are school age or younger?

77 Responses



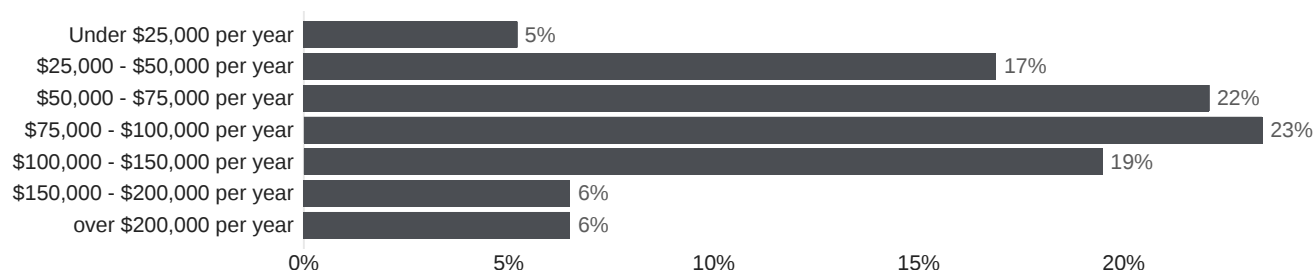
Q23 - Which racial or ethnic group best describes you?

77 Responses



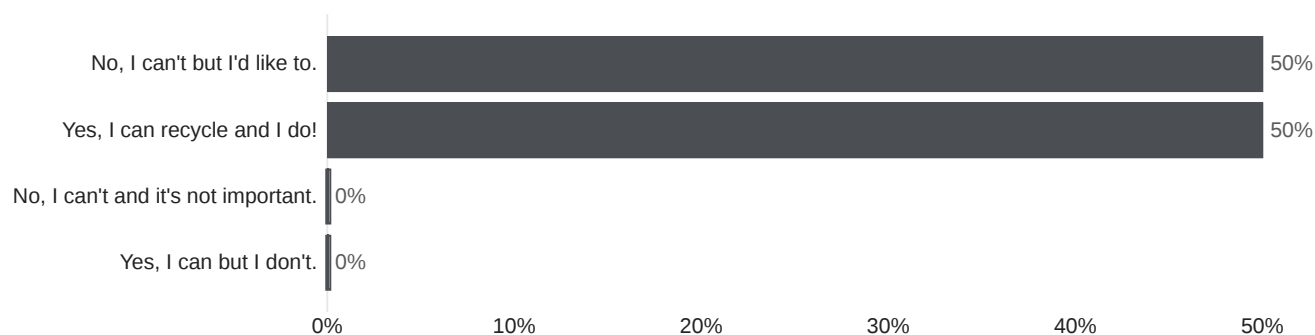
Q24 - In which of the following categories does your total yearly household income fall, including everyone in the household? If retired, please select an income category based on retirement income.

77 Responses



Q27 - As a renter/lessee, do you have recycling available on the property where you live?

2 Responses



MANISTEE COUNTY

PROFILE | FEBRUARY 2023



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

OVERVIEW

Michigan Department of Environment, Great Lakes, and Energy (EGLE) has shifted their focus from disposal as the primary effort towards a circular economy where all waste materials find their highest and best use. Michigan took its first steps towards materials management a few years ago by securing funding to support an economy that reuses and recycles resources. An important component of that funding is for Solid Waste Management Planning – also referred to as Materials Management Planning. Materials management plans form the foundation of the changes the state is preparing to make.

To support this new era of materials management and future planning activities, EGLE initiated a massive data collection project to document and inventory the current state of materials management systems in all municipalities within Michigan's 83 counties. The primary objective of the Michigan Materials Management Infrastructure and Program project, also known as Mega Data, is to provide the baseline of data necessary for counties to develop future materials management plans and provide a roadmap for materials management moving forward. The data collected through the project would also be applied to the Benchmark Recycling Standard analysis developed by EGLE to help understand access to recycling services in the state, where gaps exist, and where EGLE may focus their support to improve access and infrastructure in the state.

EGLE contracted with Resource Recycling Systems (RRS) to support this large undertaking to gather, compile and analyze information from across the state.

PURPOSE OF THE COUNTY PROFILE

The County Profile was developed for two purposes. First, the profiles provided the opportunity to summarize all the information collected for all 83 counties and their municipalities to date as a project milestone. Second, despite the extensive research and information collection, RRS acknowledges that the information presented here may be incomplete. The County Profiles offered the opportunity for each county to review, edit and add to their county's profile information before finalizing as a deliverable for the Mega Data project. Later in the process, EGLE added the review of the County Profile as a requirement of the Materials Management County Engagement Grants (MMCE).

COUNTY PROFILE DEVELOPMENT

The County Profiles contain information that reflects research and outreach to understand programs and services available at the county and municipal levels. The information summarized here corresponds to information required in the state's Solid Waste Management Plan format and will assist counties and designated planning agencies with plan development. This profile focuses on residential programs and services. The information for the Profiles was collected from the following sources:

- Approved Solid Waste Management Plans
- EGLE's Waste Data System (WDS)
- EGLE's Recycle Search tool
- EGLE's Recycling Specialist staff
- Interviews with County program coordinators and designated planning agents
- County Run Measurement Program Survey via ReTRAC
- Municipal Measurement Program Survey via ReTRAC
- Information obtained through Freedom of Information Act requests
- Direct outreach through phone calls, emails, and letters to all target audiences and related groups or organizations with access to target audiences

- Web research
- Participation by Counties in the MMCE Grant Program

DISCLAIMER

This information presented here was gathered and compiled over several years by RRS on behalf of EGLE for the Mega Data project. The profile was originally developed as a tool to summarize information collected and engage counties in review of the information for finalization. The profile is not intended for use as a reference guide for residents or purposes other than to provide counties with information to support future materials management planning. Information, programs, and services can change frequently and therefore information presented here may be out of date. If information has been omitted or requires update, please contact RRS at alynott@recycle.com.

ACCESS AND COLLECTION

COUNTY PROGRAM OVERVIEW

Manistee County offers recycling and household hazardous waste (HHW) services. Eight communities in the county utilize Public Act 69 to find a local recycling program for drop-off single-stream collection. This program accepts paper, plastic, and metals. Some sites also accept glass. HHW and tire drop-off events are available to all county residents.

MUNICIPAL PROGRAM AND SERVICES OVERVIEW

Programs and services offered or provided by municipalities for their residents are summarized by material type and then in two tables. One table features curbside services, and the other table features drop-off services.

TRASH

Several communities in Manistee County provide their residents with curbside trash collection services through contracted haulers. The remainder of the county is most likely served by the open market where residents make their own arrangements for trash collection, also known as subscription services. Most communities also offer annual Clean Up Days where residents can drop off their excess trash materials.

RECYCLING

Participating communities in Manistee County can access drop-off recycling services through the Manistee County PA69 Recycling Program. This program accepts paper, cardboard, glass, mixed plastics, metal cans and foil. There are currently no communities providing contracted curbside collection of recycling in the county.

YARD WASTE

Filer Township and Manistee City provide seasonal brush and yard waste curbside pickup to their residents. These same communities also provide drop-off locations for yard waste materials at local municipal buildings.

HOUSEHOLD HAZARDOUS WASTE

Manistee Conservation District provides annual events for household hazardous waste (HHW) and tire collection. During the HHW events, residents can drop-off materials such as automotive fluids, motor oil, anti-freeze, mercury, batteries, oil-based paint, lawn chemicals, freon, electronics, pharmaceuticals, fluorescent bulbs, sharps, and other HHW items.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- Republic Services
- Waste Reduction Systems

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Arcadia CDP				
Bear Lake village				
Brethren CDP				
Brown township				
Copemish village				
Eastlake village	Waste Reduction Systems			
Filer City CDP	Republic Services Inc.		Filer Charter Township Annual Brush Pickup	
Kaleva village				
Manistee city	Republic Services Inc.		City of Manistee Seasonal Curbside Pickup	
Marilla township				
Oak Hill CDP	Republic Services Inc.		Filer Charter Township Annual Brush Pickup	
Onkama village				
Parkdale CDP	Waste Reduction Systems			
Pleasanton township				
Arcadia township				
Bear Lake township				
Cleon township				
Dickson township				

Filer charter township	Republic Services Inc.		Filer Charter Township Annual Brush Pickup	
Manistee township	Waste Reduction Systems			
Maple Grove township				
Norman township				
Onkama township				
Stronach township				
Springdale township				
Stronach CDP				
Wellston CDP				

DROP-OFF SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH DROP-OFF SERVICES (PERMANENT)	RECYCLING DROP-OFF SERVICES (PERMANENT)	YARD WASTE OR OTHER ORGANICS DROP-OFF (PERMANENT)	OTHER PERMANENT DROP-OFF SERVICES	TEMPORARY DROP-OFF SERVICES
Arcadia CDP		Manistee County PA69 Recycling Program			Arcadia Township Annual Dumpster Clean Up Day Manistee Conservation District Annual HHW Event
Bear Lake village		Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Brethren CDP	Dickson Township Transfer Station	Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event

Brown township	Brown Township Hall Drop-off	Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Copemish village		Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Eastlake village					Manistee Conservation District Annual HHW Event
Filer City CDP			Leaf and Grass Disposal Site (at Filer Charter Township Hall)		Manistee Conservation District Annual HHW Event
Kaleva village	Maple Grove Township Transfer Station	Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Manistee city		Manistee City Recycling Center	City of Manistee Garage Yard Waste Dumpster		Manistee Conservation District Annual HHW Event
Marilla township		Manistee County PA69 Recycling Program			Marilla Township Annual Clean Up Day Manistee Conservation District Annual HHW Event
Oak Hill CDP			Leaf and Grass Disposal Site (at Filer Charter Township Hall)		Manistee Conservation District Annual HHW Event
Onkama village		Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Parkdale CDP					Manistee Township Annual Trash Day

					Manistee Conservation District Annual HHW Event
Pleasanton township	Pleasanton Twp Transfer Station				Manistee Conservation District Annual HHW Event
Arcadia township		Manistee County PA69 Recycling Program			Arcadia Township Annual Dumpster Clean Up Day Manistee Conservation District Annual HHW Event
Bear Lake township	Bear Lake Household Refuse Program	Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Cleon township		Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Dickson township	Dickson Township Transfer Station	Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event
Filer charter township			Leaf and Grass Disposal Site (at Filer Charter Township Hall)		Manistee Conservation District Annual HHW Event
Manistee township		PCA Paper Trailers (2 locations)			Manistee Township Annual Trash Day Manistee Conservation District Annual HHW Event
Maple Grove township	Maple Grove Township Transfer Station	Manistee County PA69 Recycling Program			Manistee Conservation District Annual HHW Event

Norman township					Norman Township Trash Cards Manistee Conservation District Annual HHW Event
Onekama township		Manistee County PA69 Recycling Program			Onekama Township Annual Clean Up Day Manistee Conservation District Annual HHW Event
Stronach township					Manistee Conservation District Annual HHW Event
Springdale township		Manistee County PA69 Recycling Program			Springdale Township Annual Clean Up Day Manistee Conservation District Annual HHW Event
Stronach CDP					Manistee Conservation District Annual HHW Event
Wellston CDP					Manistee Conservation District Annual HHW Event

FACILITIES

MATERIALS MANAGEMENT FACILITIES IN COUNTY

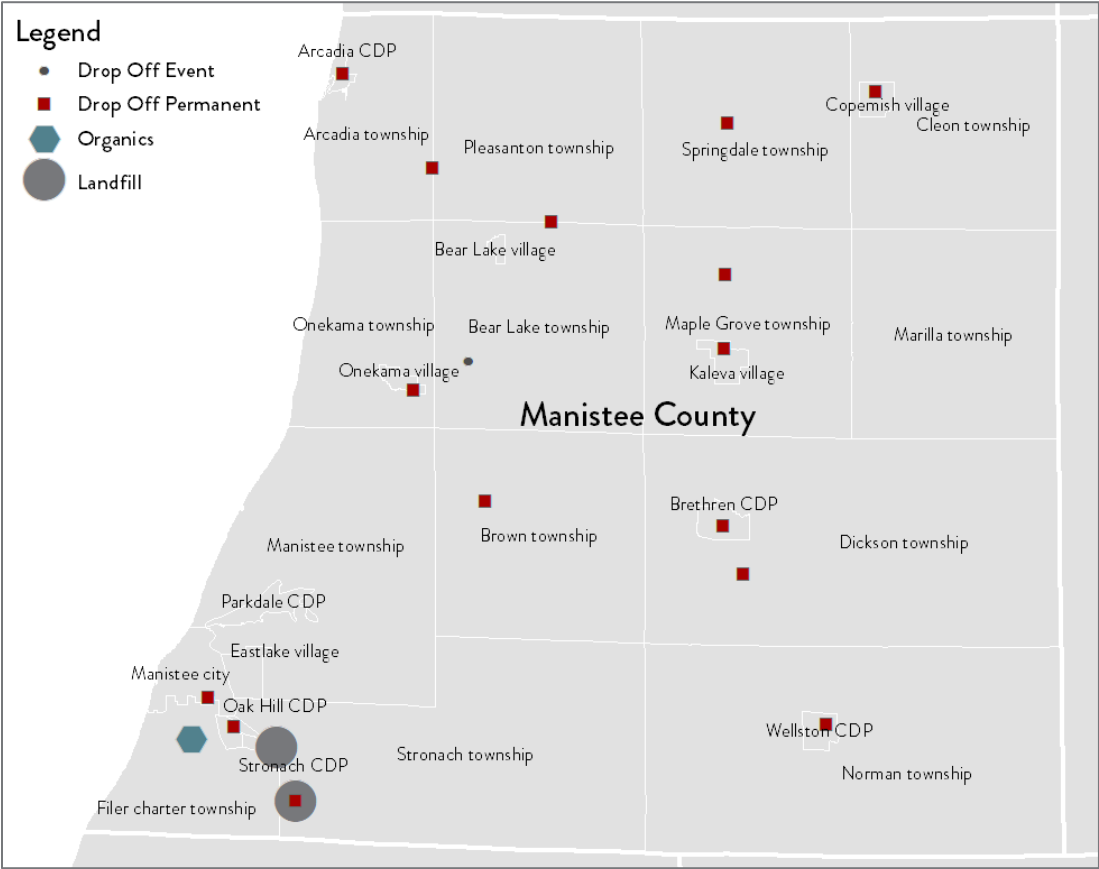
FACILITY SUMMARY TABLE

FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Compost (Yard Waste)	City of Manistee Compost Facility	999 Adamczak Rd	Manistee	
Drop-off (T)	Arcadia Township PA-69 Drop-Off Site	3422 Lake St	Arcadia	Permanent Drop-off
Drop-off (T)	Brown Township PA-69 Drop-Off Site	3233 Coates Highway	Manistee	Permanent Drop-off
Drop-off (WDC)	Clean Sweep - Manistee County	8946 Chippewa Highway	Bear Lake	Temporary Drop-off
Drop-off (T)	Cleon/Copemish Township PA-69 Drop-Off Site			Permanent Drop-off
Drop-off (B, NT)	Dickson Township Transfer Station			Permanent Drop-off
Drop-off (T)	Dickson Township/Bretheren PA-69 Drop-Off Site			Permanent Drop-off
Drop-off (O)	Filer Charter Township Leaf Dumpster	2505 Filer City Road	Manistee	Permanent Drop-off
Drop-off (NT)	Larry Bowling Metal Recycling	9347 13 Mile Rd.	Bear Lake	Permanent Drop-off
Drop-off (T)	Manistee City Recycling Center	1200 US-31	Manistee	Permanent Drop-off
Drop-off (T)	Manistee County Landfill - Recycling Drop Off	3890 Camp Road	Manistee	Permanent Drop-off

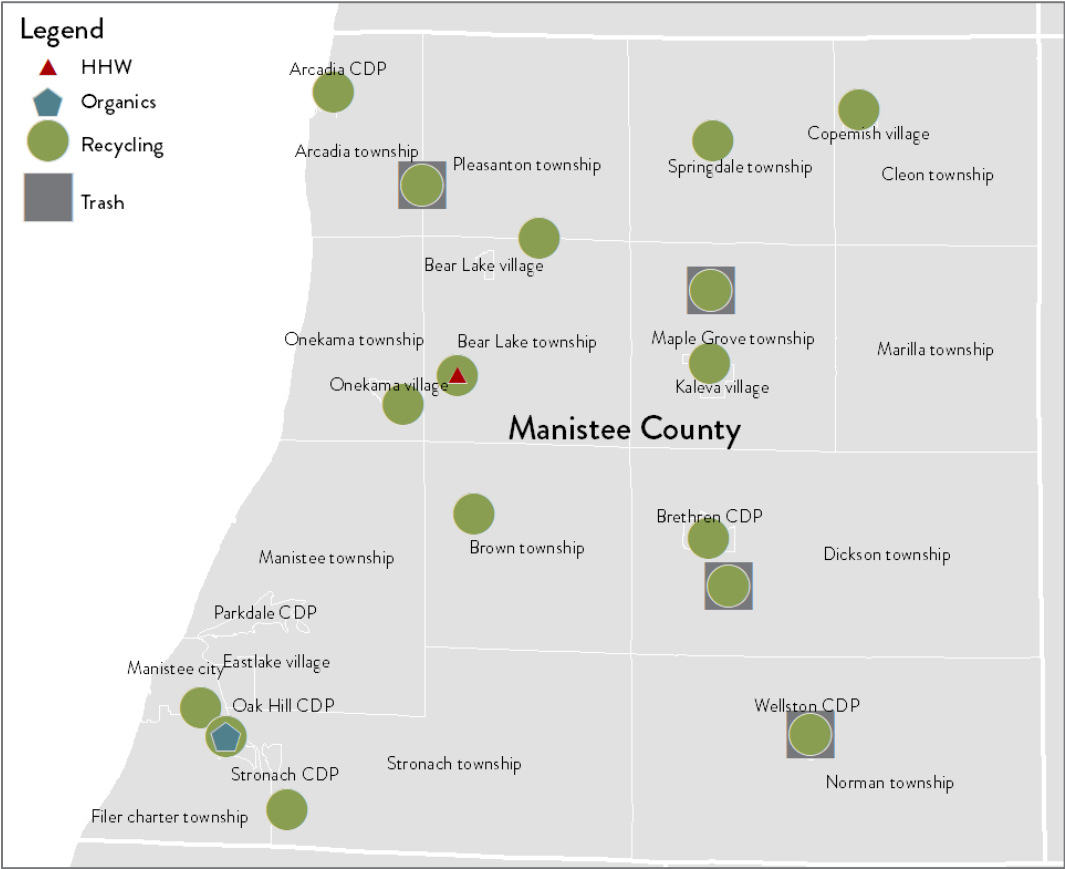
Drop-off (B)	Maple Grove Township & Village of Kaleva Transfer Station			Permanent Drop-off
Drop-off (T)	Maple Grove/Kaleva PA-69 Drop-Off Site	14407 Industrial Blvd	Kaleva	Permanent Drop-off
Drop-off (B, T)	Norman Township Transfer Station	1273 Seaman Road	Wellston	Permanent Drop-off
Drop-off	Onkama Township PA- 69 and PCA Drop-Off Site	5435 Main St	Onkama	Permanent Drop-off
Drop-off (B)	Pleasanton Township Transfer Station	6007 Norconk Road	Bear Lake	Permanent Drop-off
Drop-off (T)	Springdale Township Hall PA-69 Drop-Off Site	14492 Glovers Lake Rd 14992	Bear Lake	Permanent Drop-off
Landfill	Republic Services Manistee County Landfill	3890 Camp Road	Manistee	
Landfill	Tondu Energy Systems Inc Landfill		Stronach Municipal Township	
End Market	PCA - Filer City	2246 Udell St	Manistee	
End Market	Dr. Shrink, Inc.	315 Washington Street	Manistee	
End Market	BARC - Kaleva	14407 Industrial Dr	Kaleva	

Drop-off Facility Types: B = Transfer Station Type B; C&D = Construction & Demolition; NT = Source-Separated Recycling Drop-off Non-Traditional; T = Source-Separated Recycling Traditional; O = Organics; WDC = Waste Diversion Center

FACILITY SUMMARY MAP



FACILITY BY MATERIAL TYPE



POLICY

MUNICIPAL ORDINANCES

No municipal ordinances were obtained.

MUNICIPAL FUNDING MECHANISMS

Municipality	Waste Collection	Recycling Collection	Organics Collection	Bulky Item Collection
Filer charter township	Legislatively Authorized Millages			
Onkama village	Subscription		Funding not specified	
Onkama township		Legislatively Authorized Millages		
Arcadia CDP		Municipal Utility/Services Fees		

COUNTY ORDINANCES

No county ordinances were obtained.

COUNTY FUNDING MECHANISM

County	Type	Additional Information
Manistee	PA 69	Funds recycling programs in participating communities.

DATA

REPORTED DATA

Manistee County collects and tracks data for recycling programs.

RESIDENTIAL WASTE PROJECTIONS

Municipality	Population	Total Waste Generation (Tons) ¹	Total Recyclable Diversion (Tons)	Total Organics Diversion (Tons)	Total Requiring Disposal (Tons)
Arcadia CDP	212	96	7	8	81
Arcadia township	329	149	11	13	126
Bear Lake township	1,613	731	52	61	617
Bear Lake village	207	94	7	8	79
Brethren CDP	411	186	13	16	157
Brown township	626	284	20	24	240
Cleon township	592	268	19	23	227
Copemish village	184	83	6	7	70
Dickson township	516	234	17	20	197
Eastlake village	376	170	12	14	144
Filer charter township	2,004	908	65	76	767
Filer City CDP	67	30	2	3	26
Kaleva village	433	196	14	17	166
Manistee city	6,116	2,906	332	233	2,340
Manistee township	2,954	1,339	96	113	1,130
Maple Grove township	957	434	31	36	366
Marilla township	427	194	14	16	163
Norman township	1,267	574	41	48	485
Oak Hill CDP	577	262	19	22	221
Onekama township	875	397	28	33	335
Onekama village	380	172	12	14	145
Parkdale CDP	744	337	24	28	285
Pleasanton township	763	346	25	29	292
Springdale township	823	373	27	31	315
Stronach CDP	184	83	6	7	70
Stronach township	640	290	21	24	245
Wellston CDP	262	119	9	10	100
TOTAL	24,539	11,255	930	934	9,389

¹ Due to rounding, total waste generation tonnages may not equal the sum of the total diversion and disposal tonnages.

COMMERCIAL WASTE PROJECTIONS

County	Approximate Number of Employees	Total Waste Generation (Tons)	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Manistee	4,496	12,097	765	11,332

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) <small>Bookmark not defined.</small>	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Manistee	23,352	2,631	20,721

MISSAUKEE COUNTY

PROFILE | FEBRUARY 2023



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

OVERVIEW

Michigan Department of Environment, Great Lakes, and Energy (EGLE) has shifted their focus from disposal as the primary effort towards a circular economy where all waste materials find their highest and best use. Michigan took its first steps towards materials management a few years ago by securing funding to support an economy that reuses and recycles resources. An important component of that funding is for Solid Waste Management Planning – also referred to as Materials Management Planning. Materials management plans form the foundation of the changes the state is preparing to make.

To support this new era of materials management and future planning activities, EGLE initiated a massive data collection project to document and inventory the current state of materials management systems in all municipalities within Michigan's 83 counties. The primary objective of the Michigan Materials Management Infrastructure and Program project, also known as Mega Data, is to provide the baseline of data necessary for counties to develop future materials management plans and provide a roadmap for materials management moving forward. The data collected through the project would also be applied to the Benchmark Recycling Standard analysis developed by EGLE to help understand access to recycling services in the state, where gaps exist, and where EGLE may focus their support to improve access and infrastructure in the state.

EGLE contracted with Resource Recycling Systems (RRS) to support this large undertaking to gather, compile and analyze information from across the state.

PURPOSE OF THE COUNTY PROFILE

The County Profile was developed for two purposes. First, the profiles provided the opportunity to summarize all the information collected for all 83 counties and their municipalities to date as a project milestone. Second, despite the extensive research and information collection, RRS acknowledges that the information presented here may be incomplete. The County Profiles offered the opportunity for each county to review, edit and add to their county's profile information before finalizing as a deliverable for the Mega Data project. Later in the process, EGLE added the review of the County Profile as a requirement of the Materials Management County Engagement Grants (MMCE).

COUNTY PROFILE DEVELOPMENT

The County Profiles contain information that reflects research and outreach to understand programs and services available at the county and municipal levels. The information summarized here corresponds to information required in the state's Solid Waste Management Plan format and will assist counties and designated planning agencies with plan development. This profile focuses on residential programs and services. The information for the Profiles was collected from the following sources:

- Approved Solid Waste Management Plans
- EGLE's Waste Data System (WDS)
- EGLE's Recycle Search tool
- EGLE's Recycling Specialist staff
- Interviews with County program coordinators and designated planning agents
- County Run Measurement Program Survey via ReTRAC
- Municipal Measurement Program Survey via ReTRAC
- Information obtained through Freedom of Information Act requests
- Direct outreach through phone calls, emails, and letters to all target audiences and related groups or organizations with access to target audiences

- Web research
- Participation by Counties in the MMCE Grant Program

DISCLAIMER

This information presented here was gathered and compiled over several years by RRS on behalf of EGLE for the Mega Data project. The profile was originally developed as a tool to summarize information collected and engage counties in review of the information for finalization. The profile is not intended for use as a reference guide for residents or purposes other than to provide counties with information to support future materials management planning. Information, programs, and services can change frequently and therefore information presented here may be out of date. If information has been omitted or requires update, please contact RRS at alynott@recycle.com.

ACCESS AND COLLECTION

COUNTY PROGRAM OVERVIEW

Missaukee County provides trash, recycling, and household hazardous waste (HHW) services. The Missaukee County Recycling Center accepts residential trash and recycling, which includes paper, plastic, metals, glass, and electronics. The Missaukee County Recycling Center also hosts HHW collection events.

MUNICIPAL PROGRAM AND SERVICES OVERVIEW

Programs and services offered or provided by municipalities for their residents are summarized by material type and then in two tables. One table features curbside services, and the other table features drop-off services.

TRASH

Three communities in Missaukee County provide their residents with access to contracted curbside collection of trash materials. The remainder of the county is most likely served by the open market where residents make their own arrangements for trash collection, also known as subscription services. County residents can drop-off trash materials through the Missaukee County Recycling Center. Trash dropped-off at this facility must be in 30 gallon bags purchased from the county.

RECYCLING

The same communities that provide curbside trash collection through contracted haulers also provide access to curbside recycling through the same haulers. All county residents can drop-off their recyclable materials through the Missaukee County Recycling Center, which accepts paper, cardboard, glass, mixed plastics, metal cans and foil.

YARD WASTE

Only one community in Missaukee County provides its residents with access to contracted curbside collection for common yard waste materials, including leaves, grass clippings, and shrubs.

HOUSEHOLD HAZARDOUS WASTE

Missaukee County Recycling Center hosts household hazardous waste (HHW) collection events for residents, which accepts automotive fluids, motor oil, tires, oil-based paint, lawn chemicals, household cleaners, electronics, tube televisions, single-use propane tanks, and aerosol cans.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- GFL Environmental

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Aetna township				
Bloomfield township	GFL Environmental	GFL Environmental	GFL Environmental	
Butterfield township				
Clam Union township				
Enterprise township				
Forest township				
Holland township				
Jennings CDP (part)				
Jennings CDP (part)				
Lake City city	GFL Environmental	GFL Environmental		
McBain city	GFL Environmental	GFL Environmental		
Norwich township				
Pioneer township				
Reeder township				
Caldwell township				
Lake township				
Richland township				
Riverside township				
West Branch township				

DROP-OFF SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH DROP-OFF SERVICES (PERMANENT)	RECYCLING DROP-OFF SERVICES (PERMANENT)	YARD WASTE OR OTHER ORGANICS DROP-OFF (PERMANENT)	OTHER PERMANENT DROP-OFF SERVICES	TEMPORARY DROP-OFF SERVICES
Aetna township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Bloomfield township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Butterfield township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Clam Union township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Enterprise township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Forest township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Holland township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Jennings CDP (part)	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Jennings CDP (part)	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District

Lake City city	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
McBain city	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Norwich township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Pioneer township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Reeder township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Caldwell township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Lake township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Richland township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
Riverside township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District
West Branch township	Missaukee County Conservation District	Missaukee County Recycling Center			Missaukee County Conservation District

FACILITIES

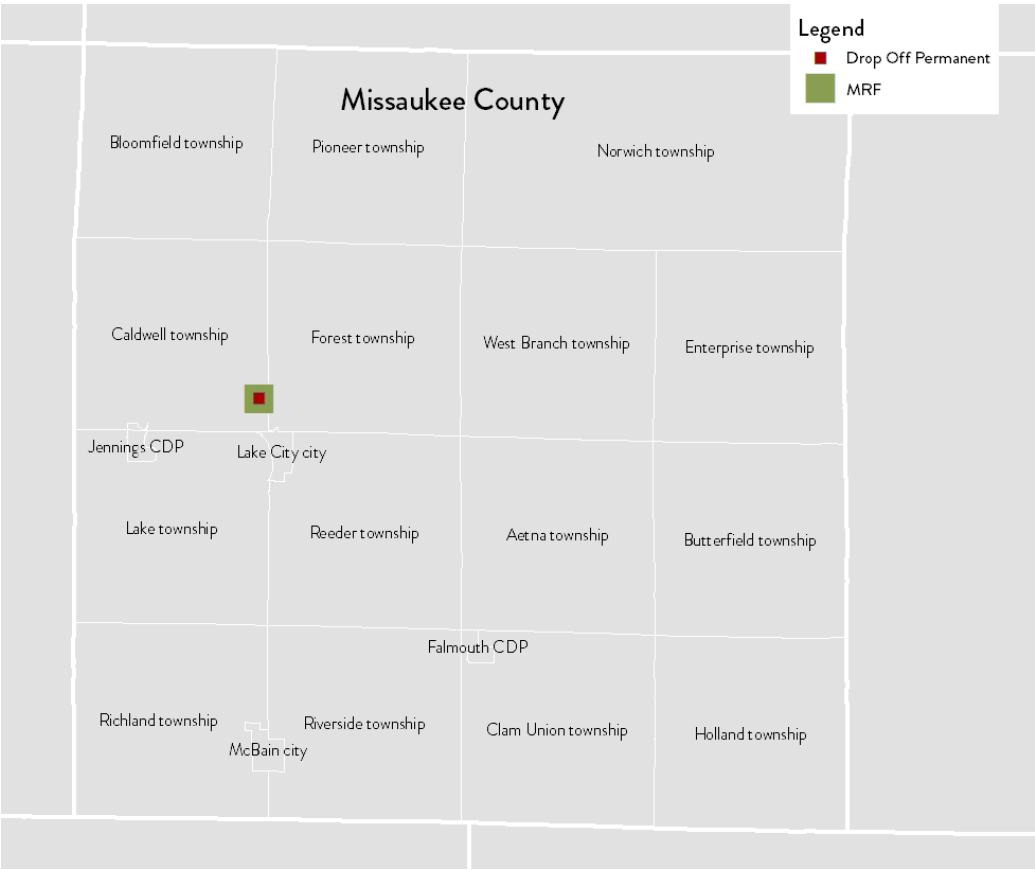
MATERIALS MANAGEMENT FACILITIES IN COUNTY

FACILITY SUMMARY TABLE

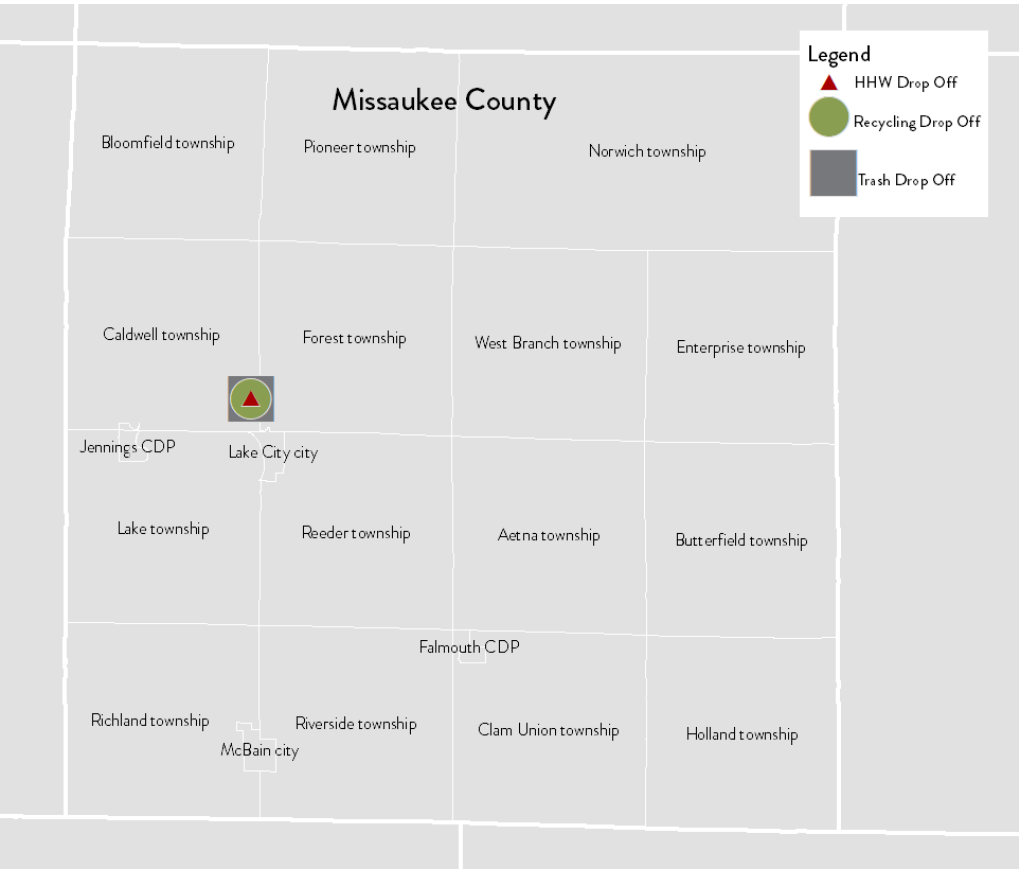
FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Drop-off (WDC, T, NT)	Missaukee County Recycling Center	6240 W. Sanborn Road	Lake City	Permanent Drop-off
MRF	Missaukee County Recycling Center	6240 W. Sanborn Road	Lake City	

Drop-off Facility Types: B = Transfer Station Type B; C&D = Construction & Demolition; NT = Source-Separated Recycling Drop-off Non-Traditional; T = Source-Separated Recycling Traditional; O = Organics; WDC = Waste Diversion Center

FACILITY SUMMARY MAP



FACILITY BY MATERIAL TYPE



POLICY

MUNICIPAL ORDINANCES

No ordinances were obtained.

MUNICIPAL FUNDING MECHANISMS

Municipality	Waste Collection	Recycling Collection	Organics Collection	Bulky Item Collection
Beaverton city	Hauler Collected Fees (by Municipality)			

COUNTY ORDINANCES

No county ordinances obtained.

COUNTY FUNDING MECHANISM

County	Type	Additional Information
Missaukee County	Millage	FY 21-29. Previous funding was provided through the sale of product.

DATA

REPORTED DATA

Missaukee County tracks data for the recycling program.

RESIDENTIAL WASTE PROJECTIONS

Municipality	Population	Total Waste Generation (Tons) ¹	Total Recyclable Diversion (Tons)	Total Organics Diversion (Tons)	Total Requiring Disposal (Tons)
Aetna township	603	273	20	23	231
Bloomfield township	454	227	36	17	174
Butterfield township	464	210	15	18	178
Caldwell township	1,535	696	50	59	587
Clam Union township	628	285	20	24	240
Enterprise township	316	143	10	12	121
Falmouth CDP	194	82	0	7	74
Forest township	1,222	554	40	47	468
Holland township	185	84	6	7	71
Jennings CDP	253	115	8	10	97
Lake City city	729	364	57	28	279
Lake township	2,572	1,166	83	98	984
McBain city	724	362	57	28	277
Norwich township	608	276	20	23	233
Pioneer township	489	222	16	19	187
Reeder township	1,058	479	34	40	405
Richland township	1,702	771	55	65	651
Riverside township	918	416	30	35	351
West Branch township	421	191	14	16	161
TOTAL	15,075	6,916	571	576	5,769

COMMERCIAL WASTE PROJECTIONS

County	Approximate Number of Employees	Total Waste Generation (Tons)	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Missaukee	1,737	7,278	296	6,982

¹ Due to rounding, total waste generation tonnages may not equal the sum of the total diversion and disposal tonnages.

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) ^{Error!} <small>Bookmark not defined.</small>	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Missaukee	14,191	1,441	12,750

WEXFORD COUNTY

PROFILE | FEBRUARY 2023



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

OVERVIEW

Michigan Department of Environment, Great Lakes, and Energy (EGLE) has shifted their focus from disposal as the primary effort towards a circular economy where all waste materials find their highest and best use. Michigan took its first steps towards materials management a few years ago by securing funding to support an economy that reuses and recycles resources. An important component of that funding is for Solid Waste Management Planning – also referred to as Materials Management Planning. Materials management plans form the foundation of the changes the state is preparing to make.

To support this new era of materials management and future planning activities, EGLE initiated a massive data collection project to document and inventory the current state of materials management systems in all municipalities within Michigan's 83 counties. The primary objective of the Michigan Materials Management Infrastructure and Program project, also known as Mega Data, is to provide the baseline of data necessary for counties to develop future materials management plans and provide a roadmap for materials management moving forward. The data collected through the project would also be applied to the Benchmark Recycling Standard analysis developed by EGLE to help understand access to recycling services in the state, where gaps exist, and where EGLE may focus their support to improve access and infrastructure in the state.

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COUNTY PROFILE DEVELOPMENT

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- EGLE's Recycling Specialist staff
- Interviews with County program coordinators and designated planning agents
- County Run Measurement Program Survey via ReTRAC
- Municipal Measurement Program Survey via ReTRAC
- Information obtained through Freedom of Information Act requests
- Direct outreach through phone calls, emails, and letters to all target audiences and related groups or organizations with access to target audiences

- Web research
- Participation by Counties in the MMCE Grant Program

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ACCESS AND COLLECTION

COUNTY PROGRAM OVERVIEW

Wexford County, in conjunction with Cadillac City, provides an annual household hazardous waste (HHW) collection event for residents in the county.

MUNICIPAL PROGRAM AND SERVICES OVERVIEW

Programs and services offered or provided by municipalities for their residents are summarized by material type and then in two tables. One table features curbside services, and the other table features drop-off services.

TRASH

One community, City of Cadillac, provides its residents with access to curbside trash collection through a contracted hauler. The remainder of the county is most likely served by the open market where residents make their own arrangements for trash collection, also known as subscription services. Clam Lake Township and Colfax Township provide their residents with annual Clean Up Days where residents can dispose of excess trash materials.

RECYCLING

City of Cadillac is also the only community in the county to provide contracted services for curbside recycling collection. Through this program, residents can recycle paper, cardboard, metal cans and scrap, plastics #1, #2, #5, and #7. There are currently no recycling drop-off locations in the county.

YARD WASTE

Cadillac City also provides its residents with access to contracted curbside collection for common yard waste materials. There are currently no drop-off locations in the county for yard waste.

HOUSEHOLD HAZARDOUS WASTE

In conjunction with Cadillac City, Wexford County hosts an annual household hazardous waste (HHW) collection event day. Here, residents can drop-off rechargeable batteries, oil-based paints, lawn chemicals, household cleaners, pharmaceuticals, fluorescent bulbs, and aerosol cans.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- Ms. Green
- Republic Services

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Boon CDP				
Buckley village				
Caberfae CDP				
Cadillac city	Republic Services Inc.	Ms. Green	Republic Services Inc.	
Cedar Creek township				
Clam Lake township				
Colfax township				
Greenwood township				
Haring CDP				
Harrietta village				
Henderson township				
Liberty township				
Manton city				
Mesick village				
Antioch township				
Boon township				
Cherry Grove township				
Hanover township				
Haring charter township				
Slagle township				
South Branch township				

Springville township				
Selma township				
Wedgewood CDP				
Wexford township				

DROP-OFF SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH DROP-OFF SERVICES (PERMANENT)	RECYCLING DROP-OFF SERVICES (PERMANENT)	YARD WASTE OR OTHER ORGANICS DROP-OFF (PERMANENT)	OTHER PERMANENT DROP-OFF SERVICES	TEMPORARY DROP-OFF SERVICES
Boon CDP					City of Cadillac / Wexford County HHW Disposal Day
Buckley village					City of Cadillac / Wexford County HHW Disposal Day
Caberfae CDP					City of Cadillac / Wexford County HHW Disposal Day
Cadillac city					City of Cadillac / Wexford County HHW Disposal Day
Cedar Creek township					City of Cadillac / Wexford County HHW Disposal Day
Clam Lake township					Clam Lake Annual Cleanup Day City of Cadillac / Wexford County HHW Disposal Day

Colfax township					Colfax Township Spring Clean-up Day City of Cadillac / Wexford County HHW Disposal Day
Greenwood township					City of Cadillac / Wexford County HHW Disposal Day
Haring CDP					City of Cadillac / Wexford County HHW Disposal Day
Harrietta village					City of Cadillac / Wexford County HHW Disposal Day
Henderson township					City of Cadillac / Wexford County HHW Disposal Day
Liberty township					City of Cadillac / Wexford County HHW Disposal Day
Manton city					City of Cadillac / Wexford County HHW Disposal Day
Mesick village					City of Cadillac / Wexford County HHW Disposal Day
Antioch township					City of Cadillac / Wexford County HHW Disposal Day
Boon township					City of Cadillac / Wexford County HHW Disposal Day

Cherry Grove township					City of Cadillac / Wexford County HHW Disposal Day
Hanover township					City of Cadillac / Wexford County HHW Disposal Day
Haring charter township					Wexford County HHW One Day Event
Slagle township					City of Cadillac / Wexford County HHW Disposal Day
South Branch township					City of Cadillac / Wexford County HHW Disposal Day
Springville township					City of Cadillac / Wexford County HHW Disposal Day
Selma township					City of Cadillac / Wexford County HHW Disposal Day
Wedgewood CDP					City of Cadillac / Wexford County HHW Disposal Day
Wexford township					City of Cadillac / Wexford County HHW Disposal Day

FACILITIES

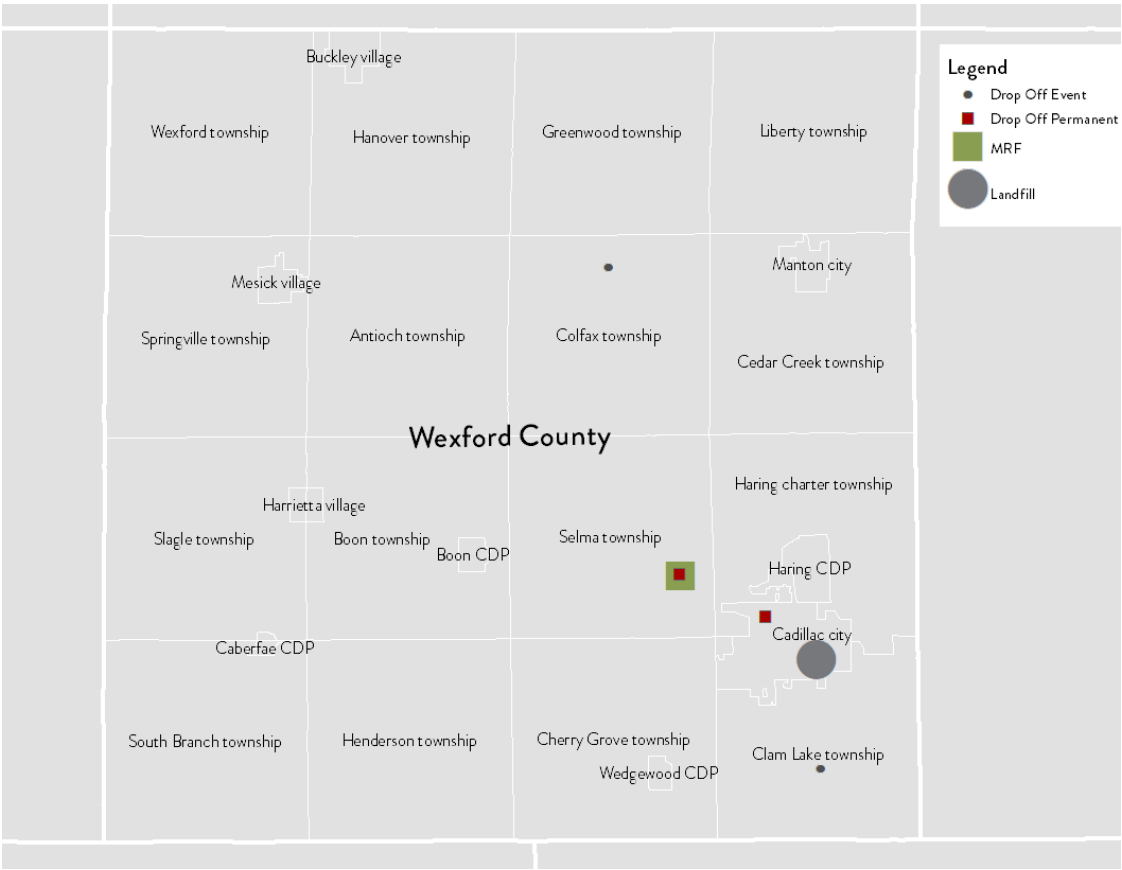
MATERIALS MANAGEMENT FACILITIES IN COUNTY

FACILITY SUMMARY TABLE

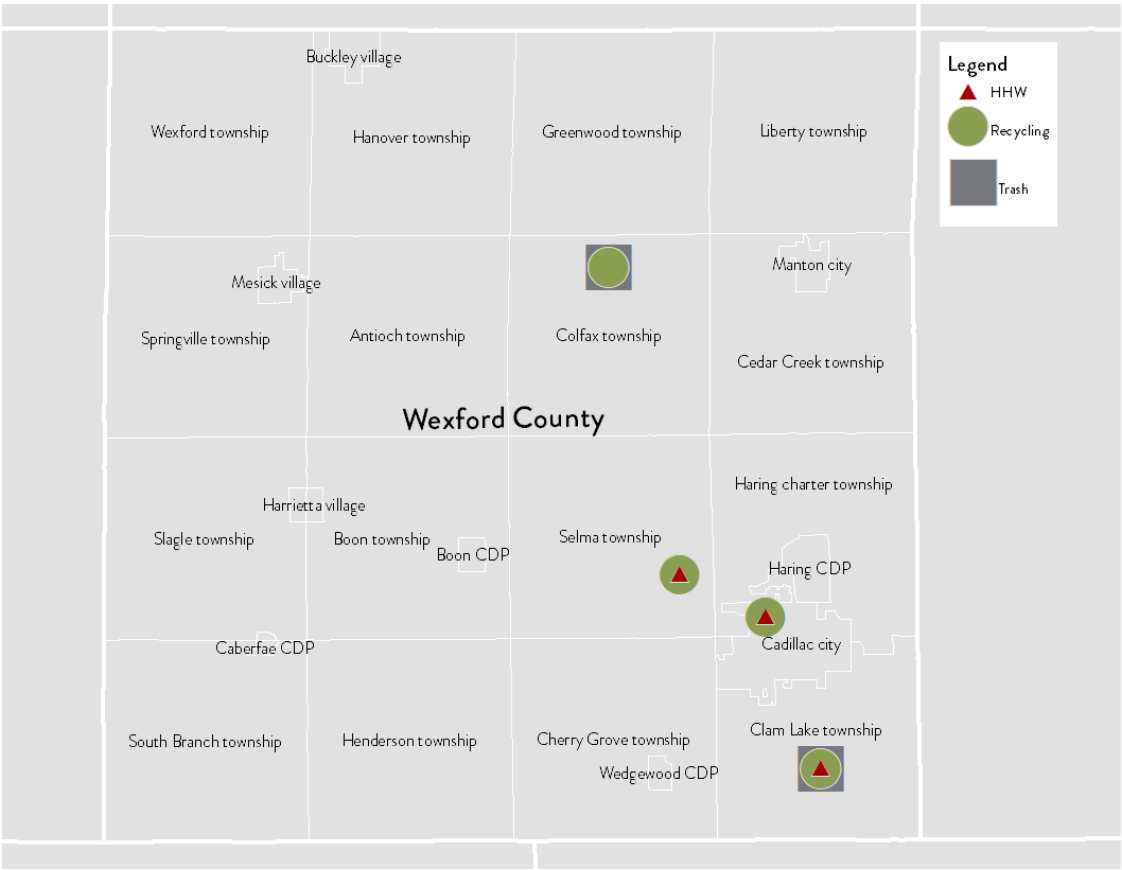
FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Drop-off (WDC, B, NT, C&D)	Clam Lake Township Annual Clean Up Day		Cadillac	Temporary Drop-off
Drop-off (B, NT, C&D)	Colfax Township Annual Clean-up Day	4964 N 31 Rd	Manton	Temporary Drop-off
Drop-off (T)	Ms. Green LLC	5018 M-115 Hwy	Cadillac	Permanent Drop-off
Drop-off (WDC, NT)	Padnos - Cadillac Recycling	1111 Leeson Avenue	Cadillac	Permanent Drop-off
MRF	Ms Green Facility	5018 M-115	Cadillac	
Landfill	Wexford County DPW Landfill	990 US 131	Cadillac	

Drop-off Facility Types: B = Transfer Station Type B; C&D = Construction & Demolition; NT = Source-Separated Recycling Drop-off Non-Traditional; T = Source-Separated Recycling Traditional; O = Organics; WDC = Waste Diversion Center

FACILITY SUMMARY MAP



FACILITY BY MATERIAL TYPE



POLICY

MUNICIPAL ORDINANCES

No municipal ordinances were obtained.

FUNDING MECHANISMS

No funding mechanisms obtained.

COUNTY ORDINANCES

No county ordinances obtained.

COUNTY FUNDING MECHANISMS

None were obtained.

DATA

REPORTED DATA

No reported data.

RESIDENTIAL WASTE PROJECTIONS

Municipality	Population	Total Waste Generation (Tons) ¹	Total Recyclable Diversion (Tons)	Total Organics Diversion (Tons)	Total Requiring Disposal (Tons)
Antioch township	872	367	0	33	334
Boon CDP	93	39	0	4	36
Boon township	538	226	0	21	206
Buckley village	838	353	0	32	321
Caberfae CDP	51	21	0	2	20
Caberfae CDP	13	5	0	0	5
Cadillac city	10,462	4,971	569	399	4,003
Cedar Creek township	1,608	677	0	61	615
Cherry Grove township	2,364	995	0	90	905
Clam Lake township	2,630	1,107	0	100	1,006
Colfax township	1,009	425	0	38	386
Greenwood township	593	250	0	23	227
Hanover township	748	315	0	29	286
Haring CDP	358	151	0	14	137
Haring charter township	3,132	1,318	0	119	1,198
Harrietta village	185	78	0	7	71
Harrietta village	39	16	0	1	15
Henderson township	228	96	0	9	87
Liberty township	904	380	0	34	346
Manton city	1,228	517	0	47	470
Mesick village	381	160	0	15	146
Selma township	2,240	943	0	85	857
Slagle township	399	168	0	15	153
South Branch township	235	99	0	9	90
Springville township	1,123	473	0	43	430
Wedgewood CDP	243	102	0	9	93
Wexford township	919	387	0	35	352
TOTAL	33,433	14,639	569	1,274	12,795

¹ Due to rounding, total waste generation tonnages may not equal the sum of the total diversion and disposal tonnages.

COMMERCIAL WASTE PROJECTIONS

County	Approximate Number of Employees	Total Waste Generation (Tons)	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Wexford	10,785	17,296	1,835	15,461

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) <small>Error!</small> <small>Bookmark not defined.</small>	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Wexford	31,932	3,679	28,254



MANISTEE COUNTY

Organic waste diversion solutions

Our goal is to see one third of the organics currently going to landfills diverted into higher and better uses by 2030. That means diverting 26,000 more tons per year, mostly food scraps, across the 10-county region.



STRATEGIC GOALS FOR THE REGION

The goal of the 10-county Organic Waste Diversion Advisory Partnership, convened by SEEDS, is to reduce organic material going to landfills by over a third across northwest lower Michigan by 2030. Reducing and recycling organic waste streams can generate many benefits, including feeding hungry people, generating soil, supporting local farms, and supporting the local economy. In the U.S., residents spend ~\$2000/year on food that gets thrown away. The State of Michigan's recent mandate for counties to update their Materials Management Plans (MMPs) presents the perfect mechanism for embedding an effective and pragmatic plan for organic waste management into each county's strategic plan.

10-COUNTY REGIONAL TRENDS



OUR RECOMMENDATIONS

- Incentivize and allow on-site and backyard composting solutions.
- Enhance food donation opportunities by clearly communicating options, especially with institutions, schools and farms.
- Develop food waste collection, hauling and centralized composting strategies.

WHAT CAN YOU DO? Use the MMP planning process to develop and right-size strategies and incentives that work for Manistee County residents and institutions.

MANISTEE COUNTY STATISTICS

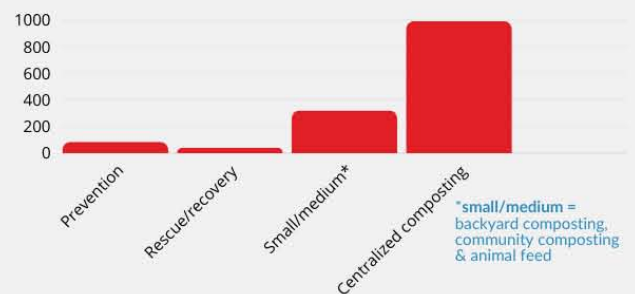
ORGANIC WASTE IN TONS/YEAR

WASTE GENERATED	CURRENTLY DIVERTED	TARGET DIVERSION
6,366	421	1,439

GENERATION OF FOOD WASTE IN TONS/YEAR

RESTAURANTS	FOOD STORES	OTHER
204	580	NO DATA

2030 DIVERSION TARGETS IN TONS/YEAR



HOW MANISTEE COUNTY COMPARES IN THE REGION

Of the 10 counties in northwest Michigan, Manistee County:

- is 1 of 6 with a current organic waste diversion rate less than 10%.
- is 1 of 5 whose website provides resources to support organic waste diversion.
- could choose to develop a county-wide drop-off site for yard waste; so far, only 3 counties have.





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MISSAUKEE COUNTY

Organic waste diversion solutions

Our goal is to see one third of the organics currently going to landfills diverted into higher and better uses by 2030. That means diverting 26,000 more tons per year, mostly food scraps, across the 10-county region.



STRATEGIC GOALS FOR THE REGION

The goal of the 10-county Organic Waste Diversion Advisory Partnership, convened by SEEDS, is to reduce organic material going to landfills by over a third across northwest lower Michigan by 2030. Reducing and recycling organic waste streams can generate many benefits, including feeding hungry people, generating soil, supporting local farms, and supporting the local economy. In the U.S., residents spend ~\$2000/year on food that gets thrown away. The State of Michigan's recent mandate for counties to update their Materials Management Plans (MMPs) presents the perfect mechanism for embedding an effective and pragmatic plan for organic waste management into each county's strategic plan.

10-COUNTY REGIONAL TRENDS



OUR RECOMMENDATIONS

- Incentivize and allow on-site and backyard composting solutions.
- Enhance food donation opportunities by clearly communicating options, especially with institutions, schools and farms.
- Develop food waste collection, hauling and centralized composting strategies.

WHAT CAN YOU DO? Use the MMP planning process to develop and right-size strategies and incentives that work for Missaukee County residents and institutions.

MISSAUKEE COUNTY STATISTICS

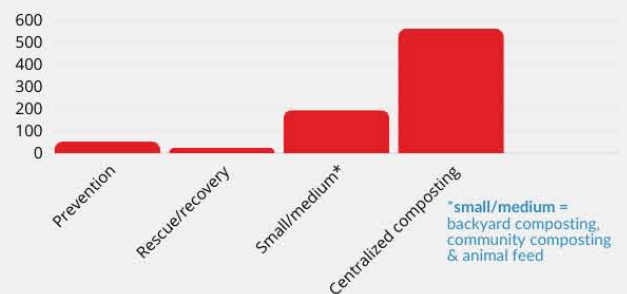
ORGANIC WASTE IN TONS/YEAR

WASTE GENERATED	CURRENTLY DIVERTED	TARGET DIVERSION
4,608	1	834

GENERATION OF FOOD WASTE IN TONS/YEAR

RESTAURANTS	FOOD STORES	OTHER
96	293	NO DATA

2030 DIVERSION TARGETS IN TONS/YEAR



HOW MISSAUKEE COUNTY COMPARES IN THE REGION

Of the 10 counties in northwest Michigan, Missaukee County is:

- is 1 of 6 with a current organic waste diversion rate less than 10%.
- could choose to develop a county-wide drop-off site for yard waste; so far, only 3 counties have.



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WEXFORD COUNTY

Organic waste diversion solutions

Our goal is to see one third of the organics currently going to landfills diverted into higher and better uses by 2030. That means diverting 26,000 more tons per year, mostly food scraps, across the 10-county region.



STRATEGIC GOALS FOR THE REGION

The goal of the 10-county Organic Waste Diversion Advisory Partnership, convened by SEEDS, is to reduce organic material going to landfills by over a third across northwest lower Michigan by 2030. Reducing and recycling organic waste streams can generate many benefits, including feeding hungry people, generating soil, supporting local farms, and supporting the local economy. In the U.S., residents spend ~\$2000/year on food that gets thrown away. The State of Michigan's recent mandate for counties to update their Materials Management Plans (MMPs) presents the perfect mechanism for embedding an effective and pragmatic plan for organic waste management into each county's strategic plan.

10-COUNTY REGIONAL TRENDS



OUR RECOMMENDATIONS

- Continue the significant effort the county has made toward organic waste diversion.
- Develop infrastructure for transportation, processing, storage and distribution of food donations from restaurants and other businesses to institutions, schools and farms.
- Develop selective food waste collections within portions of the county and coordinate with local composting facilities (e.g., Morgan Composting)

WHAT CAN YOU DO? Use the MMP planning process to develop and right-size strategies and incentives that work for Wexford County residents and institutions.

WEXFORD COUNTY STATISTICS

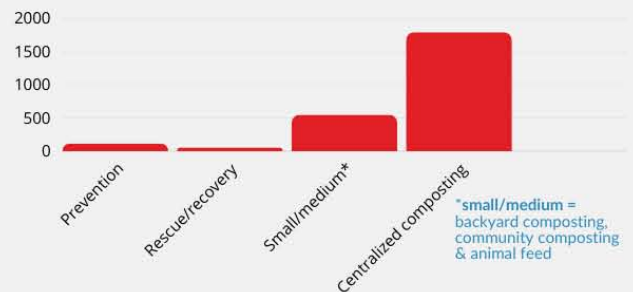
ORGANIC WASTE IN TONS/YEAR

WASTE GENERATED	CURRENTLY DIVERTED	TARGET DIVERSION
8,035	77	2,507

GENERATION OF FOOD WASTE IN TONS/YEAR



2030 DIVERSION TARGETS IN TONS/YEAR



HOW WEXFORD COUNTY COMPARES IN THE REGION

Of the 10 counties in northwest Michigan, Wexford County:

- is 1 of 6 with a current organic waste diversion rate less than 10%.
- is 1 of 7 whose Solid Waste Management Plan states that they will develop a yard waste drop-off for county-wide use.
- could choose to develop a county-wide drop-off site for yard waste; so far, only 3 counties have.



231.947.0312



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Chapter A5: Goals and Objectives

To comply with Part 115 and its requirements, each *Plan* must be directed toward goals and objectives based on the purposes stated in Part 115, Sections 11538.(1)(a), 11541.(4) and the State Solid Waste Policy adopted pursuant to this Section, and Administrative Rules 711(b)(i) and (ii). At a minimum, the goals must reflect two major purposes of Solid Waste Management Plans:

- (1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;
- (2) to prevent adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

THIS *Plan* works toward the following goals through actions designed to meet the objectives described under the respective goals which they support. This project is assuming funding is available. This *Plan* does not require government (municipal and county) funding. If funding is not available, that does not contravene this *Plan* and not pursuing the project does not contravene this *Plan*:

The following are defined as intended to be used in this Chapter.

<u>WORD</u>	<u>DEFINITIONS</u>	<u>EXAMPLE</u>
GOALS	The goal is the utopia, to provide direction or end-state; the Objectives, Policies, Strategies/Methods are to work toward.	<i>Have pure water everywhere.</i>
OBJECTIVES	The objective(s) is an achievable point to describe what is aimed at to resolve the issue.	<i>Maintain acceptable water quality</i>
STRATEGIES/ METHODS	The strategy(ies)/method(s) are the actual ways the policy(ies) or goals are carried out.	<i>Define standards and implement controls to achieve them and educate the public.</i>

The purpose of this *Plan* is to accomplish the following goals and objectives:

- Goal 1: Implement a *Solid Waste Management Plan* which provides for the protection of the public health, environment and the conservation of natural resources.
- Objective 1.1: Provide for optimum volume reduction practices to be in effect throughout the solid waste management process.
- Strategy 1.1.1: Collaborate with private enterprises, municipalities, recycling agencies, regional, local and other related organizations to develop and implement waste reduction, recycling, and composting programs.
- Objective 1.2: Ensure that solid waste management procedures in effect are in conformance with the State of Michigan's air and water quality standards.

- Objective 1.3: Develop and enforce regulations governing the appearance, odor, and noise aspects of collection, storage, and disposal facilities.
- Objective 1.4: Support the elimination of dumping in unauthorized areas while increasing the enforcement of anti-litter and similar regulations.
- Objective 1.5: Include consideration for wastes generated by agricultural and manufacturing interests which may require special handling and disposal.
- Objective 1.6: Develop and implement regulations governing the location of landfill sites and transfer stations to avoid potential conflicts with adjacent uses.
- Objective 1.7: Recognize the potential uses of closed landfill sites.
- Objective 1.8: Develop an emergency response plan to recover recyclable materials after an emergency or natural disaster.
- Objective 1.9: Institute volume-based pricing for waste disposal within the county.
- Objective 1.10: Increase the ease and utilization of recycling opportunities with the cost to be subsidized by waste disposal fees.
- Objective 1.11: Develop and implement a household hazardous waste collection program.

Goal 2: Develop a solid waste management plan that is financially realistic and economically feasible.

- Objective 2.1: Work with regional and local agencies to provide solid waste disposal by maintaining current standards, reducing cost and increasing services provided.
- Objective 2.2: Support existing and future approved solid waste facilities which are intended to provide a service to the general public and which provide that service on a county-wide, or larger, area. Exceptions would be mono-solid waste facilities which handle such volume and type of material generated by a single manufacturing facility and unlicensed transfer stations.
- Objective 2.3: Encourage a competitive market place —more than one company providing the service— within the solid waste industry, while at the same time striving to avoid a saturation of supply in the marketplace so that major solid waste facilities are not abandoned or seek customers from outside this Plan's intended service area.
- Objective 2.4: Solid waste facilities should as a first priority be privately owned and operated. As a last resort solid waste facilities would be publically owned or operated. Exceptions to this objective include resource recovery (recycling, reuse and composting) facilities.

Goal 3: Inform citizens and businesses about solid waste management issues, concerns, and wise use of natural resources.

- Objective 3.1: Educate citizens and businesses about the need and costs of solid waste facilities, and alternatives for sharing of the public cost involved.
- Objective 3.2: Notify citizens at least annually about opportunities for recycling and special concerns.
 - Strategy 3.2.1: Request local businesses to stock and carry products made with recycled materials whenever possible.
 - Strategy 3.2.2: Support and encourage solid waste education program for K-12 grades by providing information, classroom speakers, and other curriculum aids.
 - Strategy 3.2.3: Develop funding to educate the public and businesses about solid waste management.

Goal 4: Maintain, support and expand recycling programs and facilities which will permit the solid waste facility operation to become a subsidiary function to an overall solid waste system which maximizes environmental quality.

- Objective 4.1: participate in the development of comprehensive multi-county disposal/recycling facilities which maximize energy recovery and salvage of materials while minimizing operational costs.
- Objective 4.2: Promote purchasing of products made with recycled products

- Goal 5: Encourage the utilization of private enterprise in the ownership and operation of landfill and resource recovery systems.
- Goal 6: Encourage and make certain the option for new solid waste facilities exist in Manistee County and new facilities are located and designed so as to provide resource recovery, recycling, energy production, source reduction and/or composting options, as applicable.
- Objective 6.1: Expand existing facilities, as a higher priority, than creation of new facilities.
- Objective 6.2: Ensure new facilities are sited as good or "better" location than facilities which exist at the time this *Plan* is adopted.
- Objective 6.3: Ensure a new facility does not overburden public facilities in the area and/or results in a significant increase in public expenditures.

INTRODUCTION

GOALS AND OBJECTIVES

This Solid Waste Management Plan works toward the following goals through actions designed to meet the objectives described under the respective goals which they support:

Goal 1: Develop a solid waste plan and management system which is feasible, meets the needs of the community and protects the public's health and safety.

Objective 1a: Transfer stations, processing and recycling centers and disposal sites shall be located to adhere to adopted standards and to be compatible with land uses in the area.

Objective 1b: The routing of collection vehicles from designated collection routes to a transfer, processing, or disposal facility should be done with due consideration for traffic flow and for the residents along that route.

Goal 2: Control the generation and on-site storage of solid waste in order to stabilize volumes and prevent proliferation of vermin.

Objective 2a: Insure, through local ordinance, utilization of proper containers for refuse storage.

Objective 2b: Provide incentives to stimulate the use of reusable packaging.

Goal 3: Expand educational programs to inform all residents of the problems involved in solid waste management.

Goal 4: Encourage a system of recycling solid waste.

Objective 4a: Encourage civic groups to participate in recycling programs.

Objective 4b: Work towards a complete system of solid waste reclamation and recycling.

Goal 5: Consider wastes generated by agricultural and manufacturing interests which may require special handling, as well as special facilities required for collection and processing of junk vehicles, farm implements and large appliances.

Objective 5a: Encourage development of local junk ordinances for the control of accumulation of junk vehicles.

Objective 5b: Continue to seek resources to fund the collection and/or processing of materials requiring special handling.

Goal 6: Encourage a realistic program to effectively and efficiently implement the planned solid waste management system.

Objective 6a: Maintain an active roster of solid waste committee members to address concerns as they arise that could affect the solid waste management plan.

INTRODUCTION

GOALS AND OBJECTIVES

To comply with Part 115 and its requirements, each Plan must be directed toward goals and objectives based on the purposes stated in Part 115, Sections 11538.(1)(a), 11541.(4) and the State Solid Waste Policy adopted pursuant to this Section, and Administrative Rules 711(b)(i) and (ii). At a minimum, the goals must reflect two major purposes of Solid Waste Management Plans:

- (1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;
- (2) to prevent adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

This Solid Waste Management Plan works toward the following goals through actions designed to meet the objectives described under the respective goals which they support:

Goal 1 Produce a solid waste management system which meets the solid waste disposal needs of the service area

Objective 1a: Work with the Michigan DEQ to expand and continue licensure of the Wexford County landfill

Objective 1b: Continue to assign responsibility of monitoring the use of waste disposal facilities in accordance with Act 451 and its rules to the County Department of Public Works

Goal 2 Design the solid waste management system for technical and economic feasibility

Objective 2a: Encourage the cooperative use of existing solid waste facilities and services, and the coordination of collection activities by solid waste haulers with local governments

Objective 2b: Promote continued financial assistance from the State of Michigan for solid waste management in all categories

Objective 2c: Processing and recycling centers and disposal sites shall be located to adhere to adopted standards, and be compatible with land uses in the area

INTRODUCTION

Goal 3: Protect the public health and safety, protect the natural environment from contamination, and promote volume reduction in the solid waste stream

Objective 3a: Ensure use of proper containers for refuse and storage through local ordinances to stabilize solid waste volumes and prevent proliferation of vermin

Objective 3b: Route collection vehicles from designated collection routes to the County's disposal facility with due consideration for traffic flow and for the residents along that route

Objective 3c: Encourage the growth of markets for recycled and recovered materials and the use of recyclable and recycled materials by government, business, industry, and the public

Objective 3d: Encourage the use of private/nonprofit organizations for operating and coordinating formal efforts in recycling and resource recovery

Objective 3e: Continue to implement State sponsored education programs for waste reduction, source separation, recycling, resources recovery, and integrated waste management for the residents of Wexford County

Objective 3f: Establish office paper recycling programs in the County, townships, City of Cadillac, and City of Manton government offices, local school districts, and promote a paper recycling program for major corporate and public institutions in Wexford County.

Objective 3g: Encourage civic groups to participate in recycling programs

Objective 3h: Identify any local government and public institution procurement policies if they exist and suggest their revision when necessary to encourage the use of recycled and recyclable materials

Goal 4: Consider wastes generated by agricultural and manufacturing interests which may require special handling, as well as special facilities required for collection and processing of junk vehicles, farm implements and large appliances

Objective 4a: Encourage development of local junk ordinances for the control of accumulation of junk vehicles and other discarded materials on private property

Objective 4b: Continue to seek resources to fund the collection and/or processing of materials requiring special handling, including hazardous wastes

INTRODUCTION

Goal 5: Encourage a realistic program to effectively and efficiently implement the planned solid waste management system

Objective 5a: Maintain an active roster of solid waste committee members to address concerns as they arise that could affect the solid waste management plan under the auspices of the Board of Public Works