

FORMAT FOR PREPARING

MATERIALS MANAGEMENT PLANS

AS REQUIRED BY SUBPART 11, SECTION 11571, OF
PART 115, SOLID WASTE MANAGEMENT, OF
THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT
1994 PA 451, AS AMENDED



Gretchen Whitmer, Governor
Phillip D. Roos, Director

Michigan Department of Environment, Great Lakes, and Energy
Materials Management Division

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Materials Management Plan (MMP)

for the

Thumb Region

Huron County
Lapeer County
Sanilac County
Tuscola County

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Revision 0
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1.0 MATERIALS MANAGEMENT PLAN COVER PAGE

Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, states that the Department of Environment, Great Lakes, and Energy (Department) shall ensure that each county has an approved materials management plan (MMP). Per Section 11574(2), the Department shall prepare the standard format and provide a copy of the standard format to each Designated Planning Agency (DPA) that the Department knows will prepare an MMP. The Department shall also provide the standard format to any other person upon request.

GUIDANCE: References for specific requirements of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, are included as sections and subsections. Please see MCL Section 324.11502-324.11506 for a complete list of terms and definitions.

DATE SUBMITTED TO EGLE:	
EGLE APPROVAL DATE:	

All counties participating in this Plan are listed below and will be referenced throughout this plan as the planning area or county, as applicable.

Huron County	Sanilac County
Lapeer County	Tuscola County

Designated Planning Agency (DPA) Preparing the Plan:	Tuscola County Recycling
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Central Repository Location(s):	

2.0 **PURPOSE AND OBJECTIVES**

The general goals of the Materials Management Plan (MMP) are in Sec. 11577 of Part 115:

- (a) To prevent adverse effects on the environment, natural resources, or the public health, safety, or welfare resulting from improper collection, processing, recovery, or disposal of managed materials, including protection of surface water and groundwater, air, and land.
- (b) To ensure managed materials are sustainably managed to achieve benefits to the economy, communities, and the environment.
- (c) To ensure that all managed material generated in the planning area is collected and recovered, processed, or disposed at materials management facilities that comply with state statutes and rules or managed appropriately at out-of-state facilities.

In addition, the specific goals of the Thumb Region MMP are to:

- Increase the reuse and recycling of materials generated within the planning area by:
 - Improving recycling access for the residential, commercial, institutional, governmental and industrial sectors
 - Continue developing relationships with public and private entities involved in materials management
 - Liaise with local units of government (LUGs) on best practices for materials management
 - Promote the creation and expansion of markets for recycled materials
 - Encourage new and innovative materials and energy recovery technologies
- Decrease the volume of materials being disposed of in landfills
- Encourage inter-county cooperation in the management of materials
- Share in the economic benefits of the circular economy

Additional materials management goals and objectives of the State are laid out in Part 115 Sec. 11507 shown below. Emphasis is placed on subparagraph (2) which describes the state's overall goal of achieving a 45% municipal solid waste (MSW) recycling rate and an interim rate of 30% by 2029. This MMP has been prepared in consideration of increasing the MSW recycling rate within the Thumb Region to assist the state in achieving it's goals.

- (1) Optimizing recycling opportunities, including electronics recycling opportunities, and the reuse of materials are a principal objective of this state's solid waste management plan. Recycling and reuse of materials, including the reuse of materials from electronic devices, are in the best interest of the environment, natural resources, and the public health, safety, and welfare. This state should develop policies, practices, and goals that promote recycling and reuse of materials, waste reduction, and pollution prevention and that, to the extent practical, minimize the use of landfilling and municipal solid waste incineration as methods for disposal of waste. Policies and practices that promote recycling and reuse of materials, including materials from electronic devices, result in conservation of raw materials and landfill space and avoid the contamination of soil and groundwater from heavy metals and other pollutants.
- (2) It is the goal of this state to achieve through the benchmark recycling standards a 45% municipal solid waste recycling rate and, as an interim step, by 2029, a 30% municipal solid waste recycling rate.

- (3) The department and a local health officer shall assist in developing and encouraging methods for the disposal of solid waste that are environmentally sound, that maximize the utilization of valuable resources, and that encourage resource conservation including source reduction and source separation.
- (4) Part 115 shall be construed and administered to encourage and facilitate all persons to engage in source separation of material from solid waste, and other environmentally sound measures to prevent materials from entering the waste stream or to remove materials from the waste stream.
- (5) A person shall not dispose, store, or transport solid waste in this state unless the person complies with part 115.
- (6) Part 115 is intended to encourage the continuation of the private sector in materials management, disposal, and transportation in compliance with part 115. Part 115 is not intended to prohibit salvaging.

3.0 PURPOSE AND PLAN REQUIREMENTS

The purpose of this MMP is to describe the process and implementation strategy to be used to achieve the goals and objectives specified in Section 2.0 while meeting the requirements of the plan under Part 115. A description of the plan requirements and where they are located within this document is shown in Table 3-1.

Table 3-1: Part 115/MMP Cross-Reference Table

MCL 324 Section Ref.	Description of Section	Section in Plan
§ 11578(1)(a)	Include measurable, objective, and specific goals for the planning area for solid waste diversion from disposal areas, including, but not limited to, the municipal solid waste recycling rate goal under section 11507, the benchmark recycling standards, and the material utilization and reduction activities identified by the MMP.	5.0
§ 11578(1)(b)	Include an implementation strategy for the county to demonstrate progress toward or meet the materials management goals by the time of the 5-year MMP review under section 11576(7). The implementation strategy shall include, but is not limited to, all of the following:	Appendix E
	(i) How progress will be made to reduce the amount of organic material being disposed of, through food waste reduction, composting, and anaerobic digestion.	5.3
	(ii) How progress will be made to reduce the amount of recyclable materials being disposed of, through increased recycling, including expanding convenient access and recycling at single and multifamily dwellings, businesses, and institutions.	5.2
	(iii) A process whereby each of a planning area's materials utilization facilities are evaluated based on information contained in reports submitted to the department on an annual basis.	4.5.2
	(iv) A description of the resources needed for meeting the materials management goals and how the development of necessary materials utilization facilities and activities will be promoted.	8.3
	(v) A description of how the benchmark recycling standards will be met.	5.1
	(vi) A timetable for implementation.	Appendix E
§ 11578(1)(c)	Identify by type and tonnage all managed material generated in the planning area, to determine the planning area's managed material capacity need and all managed material that is included in the planning area's materials management goals. Amounts of material may be estimated using a formula provided by the department.	4.2
§ 11578(1)(d)	Require that a proposed materials management facility meet the requirements of part 115 and be consistent with the materials management goals.	7.3

MCL 324 Section Ref.	Description of Section	Section in Plan
§ 11578(1)(e)	To the extent practicable, identify and evaluate current and planned materials management infrastructure and systems that contribute or will contribute to meeting the goal under section 11577(c) and other options to meet that goal.	4.5.1
§ 11578(1)(f)	Include an inventory of the names and addresses of all of the following, subject to subdivision (g): (i) Existing disposal areas. (ii) Materials utilization facilities that meet both of the following requirements: (A) Are in operation on the effective date of the amendatory act that added this section. (B) On the effective date of the amendatory act that added this section, comply with part 115 or, within 1 year after that date, are in the process of becoming compliant. (iii) Waste diversion centers for which notification has been given to the department under section 11521b.	Table 4-7
§ 11578(1)(g)	Include a materials management facility in the inventory under subdivision (f) only if the owner or operator of the facility has submitted to the county a written acknowledgment indicating that the owner or operator is aware of the proposed inclusion of the facility in the MMP relative to the materials capacity needs identified in subdivision (c) and that the facility has the indicated capacity to manage the materials identified under subdivision (h). The MMP shall include a statement that the owner or operator of each facility listed in the MMP has submitted such an acknowledgment to the county. If the submitted acknowledgments do not document sufficient capacity for disposal or utilization of the identified managed materials to reach the MMP's materials management capacity requirements, including the materials management goals, the MMP shall identify specific strategies, including a schedule and approach to develop and fund capacity.	Appendix C
§ 11578(1)(h)	Describe the facilities inventoried pursuant to subdivision (f), including a summary of the deficiencies, if any, of the facilities in meeting current materials management needs. The description shall, at a minimum, include all of the following information: (i) The facility latitude and longitude. (ii) The estimated facility acreage. (iii) A description of the materials managed. (iv) The processes for handling materials at the facility. (v) The total authorized capacity of the facility.	Table 4-7
§ 11578(1)(i)	Ensure that the materials management facilities that are identified as necessary to be sited can be developed in compliance with state law	7.3

MCL 324 Section Ref.	Description of Section	Section in Plan
	pertaining to protection of the public health and the environment, considering the available land in the planning area and the technical feasibility of, and economic costs associated with, the facilities.	
§ 11578(1)(j)	Include an enforceable mechanism to meet the goal of section 11577(c) and otherwise implement the MMP, and identify the party responsible to ensure compliance with part 115. The MMP may contain a mechanism for the county and municipalities in the planning area to assist the department and the department of state police in conducting the inspection program established in section 11526(2) and (3). This subdivision does not preclude the private sector's participation in providing materials management services consistent with the MMP for the planning area.	7.2
§ 11578(1)(k)	Calculate the municipal solid waste recycling rate for the planning area.	4.3
§ 11578(1)(l)	Describe the materials management transportation infrastructure.	Table 4-7
§ 11578(1)(m)	Include current and projected population densities and identify population centers and centers of managed material generation in the planning area, using a formula provided by the department, to demonstrate that the capacity required for managed material is met.	Table 4-1 Table 4-3 Table 4-8
§ 11578(1)(n)	Describe the mechanisms by which municipalities in the planning area will ensure convenient recycling access, such as 1 or more of the following: (i) Assignment of the responsibility to the county or an authority. (ii) A franchise agreement. (iii) An intergovernmental agreement. (iv) Municipal service. (v) Licensing under an ordinance. (vi) A public-private partnership.	7.2 Table 8-1
§ 11578(1)(o)	Specify a recommended minimum level of recycling service that incorporates the access requirements of the benchmark recycling standards. The county or a municipality within the planning area may, through an appropriate enforceable mechanism, require haulers operating in its jurisdiction to provide the recommended level or a different minimum level of recycling service.	8.2
§ 11578(1)(p)	Identify the DPA and the entity or entities responsible for each of the following and document the appropriateness of the DPA and other identified entities to carry out their respective responsibilities: (i) Implementing the access requirements of the benchmark recycling standards. (ii) Identifying the materials utilization framework and the achievement of the materials management goals.	8.1

MCL 324 Section Ref.	Description of Section	Section in Plan
	(iii) Otherwise monitoring, implementing, and enforcing the MMP and providing any required reports to the department. (iv) Administering the funding mechanisms identified in section 11581 that will be used to implement the MMP. (v) Ensuring compliance with part 115.	
§ 11578(1)(q)	With respect to education and outreach for residents and businesses in the planning area, do both of the following: (i) Provide a strategic plan that identifies roles, responsibilities, funding sources, and methods for persons providing the education and outreach services. (ii) Describe the county or regional role in providing continuing recycling education. The recycling education shall include, but is not limited to, providing a recycling guide, in hard copy at select public locations and electronically on a cell phone-friendly website. The recycling guide shall do all of the following: (A) Identify recycling locations. (B) Identify recyclable materials. (C) Explain how to prepare recyclable materials for collection. (D) Describe other best practices. (E) Include a listed telephone number for additional information.	6.0
§ 11578(1)(r)	Include a siting process under section 11579 and a copy of any ordinance, law, rule, or regulation of a municipality, county, or governmental authority within the planning area that applies to the siting process.	7.3
§ 11578(1)(s)	Take into consideration the MMPs of counties adjacent to the planning area as they relate to the planning area's needs.	4.4
§ 11578(1)(t)	Document all opportunities for participation and involvement of the public, all affected agencies and parties, and the private sector in the preparation of the MMP.	8.4
§ 11578(2)	An MMP may include management plans for debris from environmental damage, for debris from disasters, or for other materials, such as construction or demolition waste, not otherwise required to be covered by an MMP. A management plan for debris from disasters in an MMP may include recommendations for incorporation of disaster debris management plans into municipal, county, or regional emergency management plans.	N/A
§ 11578(3)	If a solid waste landfill is proposed to be developed in the planning area within 2 miles of a municipality that is located adjacent to the planning area, or if a solid waste processing and transfer facility or materials utilization facility is proposed to be developed in the planning area within 1 mile of such a municipality, both of the following apply:	N/A

MCL 324 Section Ref.	Description of Section	Section in Plan
	(a) The CAA shall notify the legislative body of the adjacent municipality of the proposed development in writing. The notice shall include a copy of this subsection. (b) The planning committee shall provide the adjacent municipality an opportunity to comment on the proposed development.	
§ 11579(1)	An MMP shall include a siting process with a set of minimum criteria for the purposes of section 11585(3).	7.3

4.0 PLANNING AREA PROFILE

4.1 Population

MCL Section 324.11578(1)(m)

Population Density: Include current and projected population densities to demonstrate that the capacity required for managed material will be met.

Table 4-1: Population Density

County	Huron	Lapeer	Sanilac	Tuscola
Year	Population	Population	Population	Population
2020 (Census year)	31,404	88,622	40,614	53,317
2021	31,319	88,667	40,545	53,043
2022	31,150	88,701	40,536	52,932
2023	30,943	89,060	40,434	52,856
2024	30,780	89,168	40,293	52,757
2025	30,618	89,276	40,152	52,685
Population Change (/year)	-0.5%	0.1%	-0.2%	-0.2%
Estimated 2030 Population	29,852	89,935	39,695	52,060
Total Planning Area 2030 Projected Population	211,542			
Resources:	https://www.michigan-demographics.com/ https://www.census.gov/data/tables/time-series/demo/popest/2020s-counties-total.html			

4.2 Generation

MCL Section 324.11504(22); 11578(1)(c)

Table 4-2: Municipal and Commercial Waste (MCW) Generation

County	Huron	Lapeer	Sanilac	Tuscola
Year	MCW Landfilled	MCW Landfilled	MCW Landfilled	MCW Landfilled
2020 (Census year)	25,553	87,403	18,457	30,193
2021	24,778	92,095	19,474	28,708
2022	23,896	88,468	16,816	28,075
2023	22,848	85,882	15,791	22,716
2024	26,567	94,430	16,677	28,460
2025	26,988	102,381	16,885	28,980
Average MCW Generation (tons/capita)	0.81	1.03	0.43	0.53
Estimated 2030 Population	29,852	89,935	39,695	52,060
Estimated 2030 MCW Generation (tons)	24,180	92,633	17,069	27,592
Estimated Residential (%)	60%			
Estimated Commercial (%)	40%			

Resources: Solid Waste Landfilled in Michigan for Fiscal Years (FY) 2020-2025 (EGLE, 2025)
USEPA Waste Generation Tool

Table 4-3: Managed Materials Landfilled in the Planning Area

County	Huron				Lapeer			
Material Type (tons)	MCW	C&D	IW/ Other	TOTAL (tons)	MCW	C&D	IW/ Other	TOTAL (tons)
2020	25,553	11,896	114,309	151,758	87,403	2,996	6,794	97,192
2021	24,778	12,547	31,051	68,376	92,095	3,346	8,533	103,974
2022	23,896	12,148	33,276	69,320	88,468	1,545	18,594	108,607
2023	22,848	12,412	27,529	62,789	85,882	4,703	1,741	92,326
2024	26,567	7,638	28,988	63,193	94,430	5,350	3,536	103,316
2025	26,988	8,755	25,694	61,437	102,381	635	3,794	106,810
County	Sanilac				Tuscola			
Material Type (tons)	MCW	C&D	IW/ Other	TOTAL (tons)	MCW	C&D	IW/ Other	TOTAL (tons)
2020	18,457	3,365	64,307	86,128	30,193	7,943	15,977	54,113
2021	19,474	3,538	61,672	84,684	28,708	4,837	9,644	43,189
2022	16,816	3,403	43,440	63,659	28,075	2,110	16,107	46,292
2023	15,791	3,004	11,994	30,789	22,716	3,694	8,195	34,604
2024	16,677	2,352	12,591	31,620	28,460	2,773	9,658	40,891
2025	16,885	1,867	14,953	33,705	28,980	2,125	17,959	49,064
Notes: MCW - Municipal and Commercial waste C&D - Construction and Demolition debris IW - Industrial waste Data from "Annual Reports of Solid Waste Landfilled in Michigan" prepared by EGLE: https://www.michigan.gov/egle/about/organization/materials-management/solid-waste/solid-waste-disposal-areas/annual-reports-of-solid-waste-landfilled-in-michigan								

4.2.1 Sources of Generation

Identify by type and tonnage all managed material generated in the planning area. "Managed material" means solid waste, diverted waste, or recyclable material. Amounts may be estimated.

Table 4-4: Managed Materials Recycled and Diverted in the Planning Area

Facility	Location	Recycling Tonnage	Material Type	Organics Tonnage	Material Type	Time Frame
Emterra Environmental USA	Huron	278.44	Single-stream paper, plastic, glass, metal	242.88	Yard waste	FY2025
	Lapeer	0		41.28		
	Sanilac	69.61		316.16		
	Tuscola	348.06		256.64		
Nature's Best Top Soil & Compost	Sanilac	0	N/A	255.6	Wood chips	FY2025
				983.05 ⁽¹⁾	Manure, food processing waste	
				18.62	Yard waste	
Environmental Reclamation	Lapeer	0	N/A	5,780	Yard waste	FY2019 ⁽²⁾
GFL Environmental Lapeer	Lapeer			823	Yard waste	FY2021 ⁽²⁾
GFL Environmental Pontiac	Lapeer	4.21	Single-stream	0	N/A	FY2025
Tuscola County Recycling	Tuscola	477.52	Paper, plastic, metal, batteries, electronics	0	N/A	FY2024
Sanilac County Recycling	Sanilac	569.15	Paper, plastic, metal, batteries, electronics	0	N/A	FY2024
WM Hauling Operations (includes tonnage sent to WM Saginaw MRF)	Huron	5.04	Single-stream		N/A	FY2025
	Lapeer	124.67				
	Sanilac	386.12				
	Tuscola	68.97				
RRRASOC	Huron	6.18	Single-stream		N/A	FY2025
Rick Rhein to SOCCRA	Lapeer	288.66	Single-stream		N/A	FY2025
Total Tonnage (Recycling)	Region	2,626.63	Paper, plastic, metal, glass	7,810.64	Yard waste, wood chips	
Tuscola County Recycling	Tuscola	36.88	Used oil, tires	0	N/A	FY2024
Sanilac County Recycling	Sanilac	93.71	HHW, used oil, tires, pesticides	0	N/A	FY2024
Total Tonnage (Diversion)	Region	2,757.22	Recycle, HHW, used oil, tires	7,810.64	Yard waste, wood chips	FY2019-FY2025
Notes:						
(1) Material is considered an industrial waste and so is not included in the MCW recycling totals. (2) Most recent data available on WDS.						

To estimate the amount of recyclables and organics generated in the planning area, the EPA Waste Generation Tool was used (EPA, 2018). The Tool output for each County, assuming FY 2025 population, is shown in **Appendix A**. The makeup of landfilled MCW was taken from the EPA Tool except that the percentages were normalized so that yard clippings were 0% since yard waste is not allowed in Michigan landfills.

From the table, we see there is a discrepancy between the amount of yard waste estimated to be generated and the amount reported to be recycled. This is most likely due to lack of reporting for exempt yard waste facilities like municipal-owned drop-offs and home composting. Future collection of these data are addressed by the MMP goals.

Table 4-5: Summary of Managed Materials Calculated by Type – Residential + Commercial

COMBINED RESIDENTIAL + COMMERCIAL		FY 2025 Material Generation (tpy)					RECYCLED (tons)	FY2025 Recycling Rate (%)	DIVERTED (tons)	FY2025 Diversion Rate (%)
County		Huron	Lapeer	Sanilac	Tuscola	TOTAL				
2025 MCW Landfilled (tons)		26,988	102,381	16,885	28,980	175,234	2,882		3,013	
Estimated Yard Waste Generation (from EPA Waste Tool)		3,333	9,656	4,363	5,713	23,066	7,555	5.6%	7,555	5.7%
Material Type	% of MCW Landfilled	Material (tons)						Rate (%)	Material (tons)	Rate (%)
Paper and Paperboard	26.2%	7,078	26,850	4,428	7,600	45,957	2,559	2.6%	2,295	2.6%
Glass	4.8%	1,287	4,881	805	1,382	8,354				
Metals	9.7%	2,622	9,948	1,641	2,816	17,027				
Plastics	13.9%	3,746	14,211	2,344	4,023	24,324				
Rubber and Leather	3.6%	961	3,646	601	1,032	6,241	0	0.0%	0	0.0%
Textiles	6.6%	1,790	6,791	1,120	1,922	11,624	0	0.0%	0	0.0%
Wood	7.0%	1,901	7,211	1,189	2,041	12,342	256	2.0%	256	2.0%
Other Materials	2.0%	547	2,073	342	587	3,549	0	0.0%	0	0.0%
Food Waste	24.6%	6,630	25,150	4,148	7,119	43,046	0	0.0%	0	0.0%
<i>Yard Clippings - Not Landfilled</i>	0.0%	0	0	0	0	0	7,555	32.8%	7,555	32.8%
Misc. inorganic waste	1.6%	427	1,619	267	458	2,771	68	2.5%	199	7.2%
Total Material Generation		26,988	102,381	16,885	28,980	175,234	10,437	5.6%	10,568	5.7%

4.3 Municipal Solid Waste Recycling Rate and Diversion Rate

Table 4-5 describes the data used to calculate the planning area's Recycling Rate and Diversion Rate. The Recycling and Diversion Rates of the individual Counties is shown in **Table 4-6** below.

The FY 2025 MSW Recycling rate for the Thumb Region is: **5.6%**.

MCL Section 324.11578(1)(k); 324.11504(38)

GUIDANCE: MSW Recycling rate is the amount of municipal solid waste recycled or composted, divided by the amount of municipal solid waste recycled, composted, landfilled, or incinerated.

The FY 2025 MSW Landfill Diversion rate for the Thumb Region is: **5.7%**.

Table 4-6: Recycling & Diversion Rate

RESIDENTIAL + COMMERCIAL						
County	Huron			Lapeer		
Material Type	Landfilled (tons)	Recycled (tons)	Diverted (tons)	Landfilled (tons)	Recycled (tons)	Diverted (tons)
Paper, Metal, Plastic	13,446	289.66	289.66	51,010	417.54	417.54
Glass	1,287			4,881	0.00	0.00
Other + Electronics/Batteries	3,725	0.00	0.00	14,130	0.00	0.00
Wood	1,901	0.00	0.00	7,211	0.00	0.00
Food Waste	6,630	0.00	0.00	25,150	0.00	0.00
Yard Waste	0	242.88	242.88	0	6,413.12	6,413.12
HHW	N/A		N/A	N/A		N/A
Tires	N/A		1.17	1.17		N/A
Totals	26,988	532.54	533.71	102,381	6,830.66	6,830.66
Recycling Rate		1.94%			6.25%	
Diversion Rate			1.94%			6.25%

County	Sanilac			Tuscola		
Material Type	Landfilled (tons)	Recycled (tons)	Diverted (tons)	Landfilled (tons)	Recycled (tons)	Diverted (tons)
Paper, Metal, Plastic	8,413	983.94	983.94	14,439	804.85	804.85
Glass	805	10.44	10.44	1,382	52.21	52.21
Other + Electronics/Batteries	2,330	30.50	30.50	4,000	37.49	37.49
Wood	1,189	255.60	255.60	2,041	0.00	0.00
Food Waste	4,148	0.00	0.00	7,119	0.00	0.00
Yard Waste	0	642.20	334.78	0	256.64	256.64
HHW	N/A			27.10		N/A
Tires	N/A			9.78		N/A
Totals	16,885	1,922.88	1,959.76	28,980	1,151.19	1,244.90
Recycling Rate		10.22%			3.82%	
Diversion Rate			10.40%			4.12%

4.4 Existing Services

The State of Michigan has completed a large data collection project to document and inventory the current materials management infrastructure across the state. The goal of the Mega Data Collection Project was to provide a baseline of data for counties to develop their MMP and county profiles were delivered for each county in the state. The County profiles for the Thumb Region are provided in **Appendix B**.

4.5 Infrastructure

MCL Section 324.11578(1)(d), (e), (f)

4.5.1 Materials Management Infrastructure

To the extent practicable, identify and evaluate **current and planned** materials management infrastructure that contributes or will contribute to meeting the materials management needs and goals of the planning area.

Include an inventory of the following:

- Existing disposal areas, including name and address. (See 324.11503(6) for definition of “disposal area.”)
- Existing material utilization facilities, including name and address. (See 324.11504 (31) for definition of “material utilization facility.”)
- Waste diversion centers for which notification has been given to the department under 324.11521b, including name and address. (See 324.11506(14) for definition of “waste diversion centers.”)
- Materials management collection options available in the planning area (examples: community programs, collection events, haulers, service providers)

GUIDANCE: A map of facilities can be found by clicking the following link: [Michigan Materials Management Facilities \(arcgis.com\)](https://arcgis.com)

An inventory of materials management infrastructure within the Planning Area is shown in **Table 4-7**. The following facility types were included in the plan.

- Materials Management Facilities, includes:
 - Existing Disposal Areas, includes:
 - Type II & Type III Landfills
 - Solid Waste Processing Facilities
 - Type A & Type B Solid Waste Transfer Facilities
 - MSW Incinerators
 - Coal Ash Impoundments
 - Materials Utilization Facilities, includes:
 - Materials Recovery Facilities (MRFs)
 - Composting Facilities

- Anaerobic Digesters
 - Innovative Technology Facilities
 - Waste Diversion Centers
- Drop-off Locations for Recycling and Yard Waste
- Other facilities
 - Food pantry/Food rescue
 - HHW Drop-off locations
 - Community Cleanup Events
 - Vehicle Recycling
 - Metal Recycling
 - Demolition Recycling
 - Haulers Operating in the Planning Region

All known facilities were included in **Table 4-7**. However, for materials management facilities as defined in Part 115 (includes landfills, PTFs, MRFs and compost facilities), the facility owner/operator should submit to the county a written acknowledgment of the facility's inclusion in the MMP. A request for written acknowledgement was sent to the facility owner/operators. The written acknowledgement forms that were received are in **Appendix C**.

4.5.2 Materials Utilization Facility Evaluations

The MMP must include a process whereby each of a planning area's materials utilization facilities are evaluated based on information contained in reports submitted to the department on an annual basis.

Annual reports for materials utilization facilities will be obtained on an annual basis from publicly available information. Reports are typically published between February and April each year on EGLE's website.

The information in the reports will be compared to the previous year's reports to monitor progress toward meeting the goals of the MMP and check for any new facilities reporting in the planning area.

In addition, materials collected at drop-off sites being used to meet benchmark recycling standards will be required to be reported each fiscal year for tracking progress in meeting the MMP goals.

Table 4-7
Materials Management Infrastructure

Name	WDS	Part 115 Authorization	Expiration Date	Address	City	Zip	County	Coordinates	Facility Acreage	Managed Materials	Total Authorized Capacity	Available Capacity
Existing Disposal Areas												
Landfills												
Huron Landfill Corp dba Huron Landfill	439983	Yes	1/6/2028	4151 S McMillan Rd	Bad Axe	48413	Huron	43.717352,-83.058030	91.3	MSW, C&D, IW, yard waste, metals, paper, plastic, glass	4,957,000 cyd	1892182 cyd
Tri-City Recycling and Disposal Facility (RDF)	417640	Yes	8/4/2027	426 N Ruth Rd	Carsonville	48419	Sanilac	43.436731,-82.731412	195.4	MSW, C&D, IW, liquid wastes, metals, paper, plastic, organics	20,007,490 cyd	16475000 cyd
Brent Run Landfill (GFL)	406671	Yes	12/8/2028	8335 Vienna Rd	Montrose	48457	Genesee	43.176465,-83.843632	942.0	MSW, C&D, IW	33,279,231 cyd	11286357 cyd
Citizens Disposal Inc (Republic)	470517	Yes	12/16/2029	2361 W Grand Blanc Rd	Grand Blanc	48439	Genesee	42.92478,-83.7243	236.5	MSW, C&D, IW, TENORM, asbestos, scrap tires	17,400,000 cyd	4135900 cyd
Arbor Hills Landfill, Inc (GFL)	475946	Yes	6/29/2028	10690 W 6 Mile Rd Site B	Northville	48168	Washtenaw	42.406611,-83.556461	337.2	MSW, C&D, IW	63,560,000 cyd	7219565 cyd
Peoples Landfill Inc (WM)	437908	Yes	9/30/2027	4143 E Rathbun Rd	Birch Run	48415	Saginaw	43.2801,-83.87051	163.5	MSW, C&D, IW, TENORM, special waste	20,200,200 cyd	14348000 cyd
Whitefeather Landfill (Republic)	449252	Yes	9/9/2026	2401 E Whitefeather Rd	Pinconning	48650	Bay	43.896140,-83.94979	111.0	MSW, C&D, IW, TENORM	6,779,157 cyd	538300 cyd
Pine Tree Acres Inc (WM)	398972	Yes	10/20/2025	36600 29 Mile Rd	Lenox	48048	Macomb	42.764970,-82.74562	555.8	MSW, C&D, IW, TENORM, liquids wastes, metals, paper, plastic, glass	89,614,150 cyd	19300000 cyd
Venice Park Recycling and Disposal Facility (WM)	399185	Yes	9/25/2024	9536 E Lennon Rd	Lennon	48449	Shiawassee	42.98503,-83.9801	208.4	MSW, C&D, IW, TENORM, liquid & special wastes, metals, paper, plastic, glass	20,860,000 cyd	20863676 cyd
Autumn Hills RDF (WM)	409032	Yes	1/20/2031	700 56th Ave	Zeeland	49464	Ottawa	42.776,-85.916	391	MSW, C&D, IW, metals, paper, plastic, glass	33,846,823 cyd	18412000 cyd
Waters Landfill (WM)	407066	Yes	1/22/2030	11375 Sherman Rd	Frederic	49733	Crawford	44.84963,-84.66703	271	MSW, C&D, IW, TENORM, metals, paper, plastic, glass	20,200,000 cyd	14158068 cyd
Woodland Meadows Landfill (WM)	412717	Yes	12/18/2029	5900 Hannan Rd	Wayne	48413	Wayne	42.274,-83.383	465	MSW, C&D, IW, metals, paper, plastic, glass	97,973,000 cyd	41381000 cyd
Processing & Transfer Facilities												
Deerfield Disposal / North Lapeer Recycling	478907	Yes	8/23/2029	5728 N Lapeer Rd	North Branch	48461	Lapeer	43.196427,-83.312311		MSW, C&D, recycling, scarp tires	20,000 cyd/year	20,000 cyd/year
Midway Disposal (GFL Environmental - Brown City)	473679	Yes	4/26/2027	4235 Van Dyke Rd (M53)	Brown City	48416	Lapeer	43.158100,-83.07160	4.41	MSW, C&D, IW	124,653 cyd/year	124,653 cyd/year
GFL Environmental - Lapeer (Newark Aggregate)	489462	No	6/8/2023	1825 S Lapeer Rd	Lapeer	48446	Lapeer	43.004611,-83.3212488		Recycling		
Lake Township Transfer Station	N/A	Notification	N/A	3634 Sand Rd	Kinde	48445	Huron	43.984420,-83.14178		MSW, recycling	50 cyd at any time	2,600 cyd/year
Sand Beach Township Transfer Station	N/A	Notification	N/A	6573 Learman Rd	Harbor Beach	48441	Huron	43.83092,-82.759347			50 cyd at any time	2,600 cyd/year
Wisner Township Transfer Station	N/A	Notification	N/A	7894 Bay City Forestville Rd	Akron	48702	Tuscola	43.601726,-83.619605		MSW, recycling, yard waste	50 cyd at any time	2,600 cyd/year
Environmental Reclamation Inc (IDF Cleanup)	484079	Yes	1/31/2031	2371 Graham Rd	Imlay City	48444	Lapeer	42.999,-83.00472	40	MSW, recycling, yard waste, scrap metal, scrap wood		50,000 cyd/year
Drop N Bins, LLC	499492	Notification	N/A	4895 N Caseville Rd	Caseville	48725	Huron	43.93025,-83.2823	3	C&D, scrap metal, scrap wood		1,000 cyd/year
1800Rolloff.com INC	499788	N/A	N/A	1560 S Elba	Lapeer	48446	Lapeer	43.010316,-83.4419567	0.1	C&D	13000 cyd/year	0 cyd/year
Emterra Environmental - Port Huron Transfer	441718	Yes	6/20/2028	4132 Dove Rd	Port Huron	48060	St. Clair	42.952424,-82.4863765	6.44	Single-stream recycling	46,400 cyd/year	46,400 cyd/year
Lapeer County Transfer Station	407996	CLOSED	N/A	1709 E Dryden Rd	Metamora	48455	Lapeer	42.946058,-83.274940		MSW		
Metro Sanitation North	443741	CLOSED	N/A	3860 Van Dyke Rd	Almont	48003	Lapeer	42.953095,-83.057079		MSW		
Reliable Roll-Off Company	488442	CLOSED	N/A	6413 Beechwood Dr #9044	Cass City	48726	Tuscola	43.60247,-83.11511		MSW		
Municipal Solid Waste Incinerators												
None registered within planning area.												
Coal Ash Impoundments												
None registered within planning area.												
Materials Utilization Facilities												
Materials Recovery Facilities												
Sanilac County Recycling Center	419052			1150 Orval St	Sandusky	48471	Sanilac	43.417543,-82.816985		Paper, plastic, metals, electronics, batteries, cooking oil/grease, scrap tires, HHW, used oil		539 tpy
Tuscola County Recycling MRF	471328	Registered	N/A	987 Ellington St (M24)	Caro	48723	Tuscola	43.483049,-83.386638	10	Glass, metals, paper, plastic, electronics, batteries, tires, HHW, used oil, aerosol cans, cylinders, light bulbs		600 tpy
Emterra Environmental MRF	456070	Yes	7/16/2030	1159 S Pennsylvania Ave	Lansing	48912	Ingham	42.720261,-84.537670		Paper, plastic, glass, metals	35360 tpy	11360 tpy
WM - Saginaw MRF	499706	Yes	8/11/2030	1941 Findley St	Saginaw	48602	Saginaw	43.454001,-83.906827	7.1	Paper	52800 tpy	25200 tpy
GFL Environmental - Pontiac MRF	393436	Yes	10/2/2030	8888 Baldwin Ave	Pontiac	48340	Oakland	42.663970,-83.29557	13.5	Glass, Metal, Other Non-Traditional Material, Paper, Plastic	63600 tpy	21500 tpy
SOCRRA	439110	Yes	N/A	995 Coolidge Hwy	Troy	48084	Oakland	42.539377,-83.187302		Paper, plastic, metal, glass	28800 tpy	

Table 4-7
Materials Management Infrastructure

Name	WDS	Part 115 Authorization	Expiration Date	Address	City	Zip	County	Coordinates	Facility Acreage	Managed Materials	Total Authorized Capacity	Available Capacity
Composting Facilities												
Nature's Best Compost	499488			640 Old 51	Carsonville	48419	Sanilac	43.409010, -82.67097	155	Wood, yard waste, animal bedding & manure, agricultural & food processing byproducts		10045 cyd/year
Environmental Reclamation Inc	484079	Yes	1/31/2031	2371 Graham Rd	Imlay City	48444	Lapeer	42.999, -83.00472	40	Yard waste, scrap wood recycling		50000 tpy
GFL Environmental - Lapeer	489462	No	6/8/2023	1825 S Lapeer Rd	Lapeer	48446	Lapeer	43.004611, -83.3212488		Yard waste		
Huron Landfill Corp dba Huron Landfill	439983	Exempt	N/A	4151 S McMillan Rd	Bad Axe	48413	Huron	43.717352, -83.058030	91.3	Yard waste		1000 tpy
Indian Summer Recycling - Priority Waste	464248	No	3/27/2023	5877 Bethuy Rd	Casco	48064	St. Clair	42.728458, -82.710145	28+	Yard waste		40000 tpy
TDE Enterprises (Towerline)	482950	No	3/27/2023	2652 N Towerline Rd	Saginaw	48601	Saginaw	43.445161, -83.874580		Yard waste		
Whitefeather Landfill	449252	Yes	9/9/2026	2401 E Whitefeather Rd	Pinconning	48650	Bay	43.896140, -83.94979	111.0	Yard waste		1000 tpy
Alpha Acre Farms	495981	CLOSED	5/17/2022	1370 W Milington Road	Fostoria	48435	Tuscola	43.2705, -83.3962		N/A		
Village of Sebawaing	489504	CLOSED	3/27/2017	145 W Main St	Sebawaing	48759	Huron	43.731695, -83.454644		Yard waste		
Anaerobic Digesters												
None registered within planning area.												
Innovative Technology Facilities												
None registered within planning area.												
Waste Diversion Centers												
None registered within planning area.												
Drop Offs												
Sanilac County Recycling Center				150 Orval Street	Sandusky	48471	Sanilac	43.417543, -82.816985		Paper, plastic, metals, electronics, batteries, cooking oil/grease, styrofoam		
Tuscola County Recycling MRF				987 Ellington St (M24)	Caro	48723	Tuscola	43.483049, -83.386638		Glass, metals, paper, plastic, electronics, batteries, tires, HHW, used oil, aerosol cans, cylinders, light bulbs, styrofoam		
Lake Township Transfer station				3634 Sand Rd	Caseville	48725	Huron	43.9845376, -83.1418380		Recycling, yard waste		
City of Lapeer DPW Compost Drop Off				217 Bentley St	Lapeer	48446	Lapeer	43.047470, -83.312928		Yard waste		
Caseville Village DPW				6470 Clay St	Caseville	48725	Huron	43.940034, -83.267080		Yard waste		
Port Austin DPW				17 W State St	Port Austin	48467	Huron	44.044805, -82.99602		Yard waste		
Village of Pigeon Brush Drop Off				70 N Main St	Pigeon	48755	Huron	43.831142, -83.270101		Yard waste		
Village of Elkton Brush Drop Off				57 N Main St	Elkton	48731	Huron	43.819442, -83.181348		Yard waste		
Watertown Township Brush Dump				3634 Sand Rd	Fostoria	48435	Tuscola	43.2494353, -83.3738513		Yard waste		
Juniata Township Brush Dump				2216 S Sheridan Rd	Caro	48723	Tuscola	43.448078, -83.484211		Yard waste		
Almer Township - Luder Rd Facility				Luder Rd (Darbee to Dutcher)	Caro	48723	Tuscola	43.5472493, -83.4011508		Yard waste		
Country Oaks Landscape Supply	492325	No	9/19/2025	3218 E Atherton Rd	Burton	48529	Genesee	42.988737, -83.644977		Yard Waste		
R&R Animal Bedding				588 McCormick Dr	Lapeer	48446	Lapeer	43.044170, -83.313979		Newspaper, magazines, phone books, office paper, cardboard, junk mail		
Deerfield Disposal / North Lapeer Recycling	478907			5700 N Lapeer Rd	North Branch	48461	Lapeer	43.196427, -83.312311		Recycling		
Almont Township Hall				819 N Main St	Almont	48003	Lapeer	42.928393, -83.046198		Recycling		
Wisner Township Transfer Station				7894 Bay City Forestville Rd	Akron	48702	Tuscola	43.601726, -83.619605		Recycling		
Sanilac County Recycling Drop-off – Greenleaf Township				Corner of M-81 and M-53	Cass City	48726	Sanilac	43.603061, -83.0967357		Recycling		
Sanilac County Recycling Drop-off – Croswell-Lexington High School				5641 Peck Rd	Croswell	48422	Sanilac	43.266646, -82.602889		Recycling		
Sanilac County Recycling Drop-off – Marlette Airport				6725 Airport Road	Marlette	48453	Sanilac	43.313102, -83.085406		Recycling		
Sanilac County Recycling Drop-off – Forestville Twp Park				5505 Cedar Ave	Forestville	48434	Sanilac	43.662171, -82.610843		Recycling		
Huron Landfill Corp dba Huron Landfill	439983	Yes	1/6/2028	4151 S McMillan Rd	Bad Axe	48413	Huron	43.717352, -83.058030	91.3	Recycling, yard waste		
WM Tri-City Recycling and Disposal Facility	417640	Yes	8/4/2027	426 N Ruth Rd	Carsonville	48419	Sanilac	43.436731, -82.731412	195.4	Recycling		6 tpy
Lapeer County Drop Off Recycling (formerly at Habitat Re-Store)		Temporarily Operating at Schickler Elementary		Looking for new location	Lapeer	48446	Lapeer	N/A		N/A		
Anchor Recycling (Stafford Transport of MI)	465609			3541 32nd St	Port Huron	48060	St. Clair	42.942341, -82.462224		Corrugated cardboard from WM collection		
Environmental Reclamation Inc	484079	Yes	1/31/2031	2371 Graham Rd	Imlay City	48444	Lapeer	42.999, -83.00472	40	Recycling		
Riverview Recycling	N/A			6359 Euclid St	Marlette	MI	Sanilac	43.320145, -83.076090		Cardboard, paper, plastic		
Thumb Industries		CLOSED		666 E Woodworth St	Bad Axe	48413	Huron	43.803076, -82.991454		Recycling		

Table 4-7
Materials Management Infrastructure

Name	WDS	Part 115 Authorization	Expiration Date	Address	City	Zip	County	Coordinates	Facility Acreage	Managed Materials	Total Authorized Capacity	Available Capacity
Other Facilities												
Food Pantry / Food Rescue												
Faithway Church				3108 Rescue Rd	Bad Axe	48413	Huron	43.720068, -83.102762		Non-perishable, unexpired food items		
HHW Drop off												
Huron County HHW Event (Annually around Memorial Day)				690 N Port Crescent St	Bad Axe	48413	Huron	43.808786, -83.000198		HHW		
Lapeer County HHW Event (Bi-annually around Memorial Day and in the Fall)				550 Lake Dr	Lapeer	48446	Lapeer	43.045957, -83.341467		HHW, pesticides		
Tuscola County MRF (Year-round)				987 Ellington St (M24)	Caro	48723	Tuscola	43.483049, -83.386638		HHW, tires, used oil, aerosol cans, cylinders, light bulbs		
Heins Hardware - Port Austin				8735 Lake Street	Port Austin	48467	Huron	44.046031, -82.993671		Alkaline batteries & CFL lightbulbs		
Sebewaing Light & Water				145 W Main St	Sebewaing	48759	Huron	43.731985, -83.453949		Alkaline batteries & CFL lightbulbs		
Thumb Electric Co-op Inc				2231 Main St	Udby	48475	Huron	43.710181, -82.931112		Alkaline batteries & CFL lightbulbs		
True Value Hardware - Harbor Beach				208 State St	Harbor Beach	48441	Huron	43.844307, -82.652870		Alkaline batteries & CFL lightbulbs		
True Value Hardware - Caseville				6967 Main St	Caseville	48725	Huron	43.935291, -83.277383		Alkaline batteries & CFL lightbulbs		
Self Serve Lumber - Bad Axe				1009 E Huron Ave	Bad Axe	48413	Huron	43.802508, -82.985688		Alkaline batteries & CFL lightbulbs		
Self Serve Lumber - Pigeon				91 N Caseville Rd	Pigeon	48755	Huron	43.832418, -83.279674		Alkaline batteries & CFL lightbulbs		
Community Cleanup Events												
City of Caro				987 Ellington St (M24)	Caro	48723	Tuscola	43.483049, -83.386638		Tires, trash, yard waste, metal		
City of Harbor Beach				766 State St	Harbor Beach	48441	Huron	43.841262, -82.663133		Tires, trash		
Village of Cass City				6506 Main St (M81)	Cass City	48726	Tuscola	43.600607, -83.174262		Trash, metal, tires		
Village of Lexington				7227 Huron Ave, Suite 100	Lexington	48450	Sanilac	43.268845, -82.531850		Trash, yard waste		
Village of Port Austin				17 W State St	Port Austin	48467	Huron	44.044630, -82.994817		Tires		
Village of Minden City				1657 Main St	Minden City	48456	Sanilac	43.670925, -82.775277		Tires		
Vehicle Recycling												
Bartnik Service	485408	N/A	N/A	6524 N Van Dyke Rd (M53)	Cass City	48726	Sanilac	43.603849, -83.096491		Vehicle recycling, scrap metal		
RG Barnum Auto Salvage	471298	N/A	N/A	7693 Vassar Rd	Millington	48746	Tuscola	43.302507, -83.582592	10	Vehicle recycling, scrap tires		
Riverview Auto & Recycling		CLOSED		987 Ellington St (M24)	Caro	48723	Tuscola	43.483049, -83.386638		Vehicle recycling		
Metal Recycling												
CANGLES				419 N Cass Ave	Vassar	48768	Tuscola	43.374403, -83.577232		Scrap metal		
Deerfield Automotive / North Lapeer Recycling	478907	Yes	8/23/2029	5728 N Lapeer Rd	North Branch	48461	Lapeer	43.196427, -83.312311		Scrap metal		
Cros-Lex Recycling	470618	N/A	N/A	96 S Black River Rd	Croswell	48422	Sanilac	43.268473, -82.630262	12	Scrap metal, scrap tires		
Environmental Reclamation Inc	484079	Yes	1/31/2031	2371 Graham Rd	Imlay City	48444	Lapeer	42.999, -83.00472	40	Scrap metal recycling		
World Wide Services				3877 Davenport Rd	Metamora	48455	Lapeer	42.928078, -83.374558		Scrap metal		
Vassar Recycling	411132			551 Birch Rd	Vassar	48768	Tuscola	43.361526, -83.572814		Scrap metal		
Dave & Son Recycling Center	473432			2024 S Fenner Rd	Caro	48723	Tuscola	43.451702, -83.503306		Scrap metal		
D&W Salvage, Inc	470800			1303 Minnick Rd	Bad Axe	48413	Huron	43.868322, -82.970439		Scrap metal, scrap tires		
Demolition Recycling												
North American Dismantling Corp	427824			384 Lake Nepeessing Rd	Lapeer	48446	Lapeer	43.036467, -83.361745		Demolition recycling		
C and R Tools, LLC				224 North St	Bad Axe	48413	Huron	43.803847, -82.987955		C&D, electronics		
Haulers												
Emterra Environmental USA				4151 S McMillan Rd	Bad Axe	48413	Huron	43.720068, -83.102762		Solid waste to Huron Landfill Yard waste to Huron Landfill Recycling to Emterra Lansing		
GFL Environmental USA				1825 S Lapeer Rd	Lapeer	48446	Lapeer	43.003614, -83.308650				
Paul Rhein Jr Disposal				339 Bates Dr	Lapeer	48446	Lapeer	43.075450, -83.320210				
Priority Waste				45000 River Ridge Dr, Ste 200	Clinton Twp	48038	Macomb	42.625964, -82.9324676				
Republic Services (formerly Tri-County Refuse)				4101 Holiday Dr	Flint	48507	Genesee	42.968367, -83.720608				
Rick Rhein Disposal				3600 Davis Lake Rd	Lapeer	48446	Lapeer	43.071499, -83.367247		Recycling to GFL Environmental - Lapeer, SOCCRA		
WM Waste Management & Recycling Services				426 N Ruth Rd	Carsonville	48419	Sanilac	43.4372502, -82.729845		Recycling to Emterra Port Huron Transfer, WM - Saginaw MRF OCC to Anchor Recycling Yard waste to Indian Summer, TDE Enterprises		

4.6 Capacity

The MMP shall include a statement that the owner or operator of each facility listed in the MMP has submitted an acknowledgment of capacity to the county. If the submitted acknowledgments do not document sufficient capacity for disposal or utilization of the identified managed materials to reach the MMP's materials management capacity requirements, including the materials management goals, the MMP shall identify specific strategies, including a schedule and approach to develop and fund capacity. Materials utilization facilities outside the planning area which currently accept materials generated in the planning area were included in this analysis.

Table 4-8: Managed Materials Capacity Comparison

COMBINED RESIDENTIAL + COMMERCIAL							
Material Type	Required Capacity - Recycling (tpy)	Available Capacity - Recycling (tpy)	Required Capacity - Organics (tpy)	Available Capacity - Organics (tpy)	Required Landfill Capacity - MCW (cyd/yr)	Available Landfill Capacity - MCW (cyd)	Available Landfill Capacity - MCW (years)
Paper and Paperboard	45,957	59,199	N/A		525,702	69,1494,651	132
Metals	17,027		N/A				
Plastics	24,324		N/A				
Glass	8,354		N/A				
Rubber and Leather	Recycling of these materials is not currently within the scope of this 5-year MMP cycle.						
Textiles							
Wood							
Miscellaneous inorganic waste							
Other Materials							
Food Waste	N/A		43,046	0			
Yard Clippings	N/A		23,066	91,356			

The Planning Area has adequate capacity for managing the generated solid waste and yard waste through 2030. The current available capacity for recyclables allows for recycling of over 60% of the generated fibers, metals, plastic and glass in the planning area, and is considered adequate for this 5-year planning period. A waste characterization and feasibility study is proposed as part of this MMP (See Goal 4.3 in Appendix E) to evaluate whether additional MUFs should be developed in the planning area. In the meantime, we believe that as recycling participation increases, existing MUFs may increase their capacity or other MUFs in Michigan may be utilized.

Additional capacity will be needed to handle all recyclables (fibers, metals, plastics, glass) and food waste generated in the planning area. Given the rural nature of the planning area, food waste capacity will be addressed, at least initially, through development of a formal backyard composting program (See Goal 3.0 in Appendix E

4.7 Community Questionnaire

A community questionnaire was distributed to local units of government in July 2025 to obtain input and feedback about current recycling practices in the Planning Area and the types of recycling services that communities would be most likely to participate in.

Out of the 139 local units of government within the Planning Area, we received 24 responses. A summary of the results and the completed questionnaires are compiled in **Appendix D**.

5.0 MATERIALS MANAGEMENT GOALS AND IMPLEMENTATION STRATEGY

Include measurable, objective, and specific goals for the planning area for solid waste diversion from disposal areas, including, but not limited to, the municipal solid waste recycling rate goal (30 percent recycling rate by 2029; ultimately reaching a 45 percent recycling rate), the benchmark recycling standards, and the material utilization and reduction activities identified by the MMP.

Include an implementation strategy for the county to demonstrate progress toward or meet the materials management goals by the time of the 5-year MMP review. The implementation strategy shall include, but is not limited to, the following:

- How progress will be made to reduce the amount of **organic material** being disposed of, through food waste reduction, composting, and anaerobic digestion.
- How progress will be made to reduce the amount of **recyclable materials** being disposed of, through increased recycling, including expanding convenient access, and recycling at single and multifamily dwellings, businesses, and institutions.
- An MMP may include management plans for debris from environmental damage, for debris from disasters, or for **other materials**, such as construction or demolition waste, not otherwise required to be covered by an MMP. A management plan for debris from disasters in an MMP may include recommendations for incorporation of disaster debris management plans into municipal, county, or regional emergency management plans.
- A description of how the minimum **access** requirements (i.e. “benchmark recycling standards”) will be met. Specify a recommended minimum level of recycling service that incorporates the **access** requirements of the benchmark recycling standards.

Note: The county or a municipality within the planning area may, through an appropriate enforceable mechanism, require haulers operating in its jurisdiction to provide the recommended level or a different minimum level of recycling service.

- A description of the **resources needed** for meeting the materials management goals and how the development of necessary materials utilization facilities and activities will be promoted.
- Describe the **education and outreach** programs necessary for residents and businesses in the planning area to meet the objectives.
- A **timetable** for implementation.

MCL Section 324.11578(1)(a), (b); 324.11504(38); 324.11502(6)

5.1 Benchmark Recycling Standards

1. **COMPLETED** - By January 1, 2026, at least 90 percent of single-family dwellings in urban areas, based on 2020 adjusted census urban boundary (ACUB), have access to curbside recycling.
 - Description: City of Lapeer and City of Caro are the only municipalities inside 2020 ACUB.
 - City of Caro currently has curbside collection by a service agreement through Emterra Environmental USA.

- City of Lapeer currently has access to curbside collection by subscription program and requires haulers servicing the city to obtain a license under city ordinance. Licensees must provide an option for weekly recycling collection to residential premises and to individual dwellings in mobile home parks (City Ordinance § 4-13.)
2. **NOT APPLICABLE** – By January 1, 2028, at least 90 percent of single-family dwellings in municipalities with over 5,000 residents have access to curbside recycling that is collected at least twice per month.
- Description: There are no cities or villages in the planning area with over 5,000 residents (excluding areas inside the ACUB).
3. By January 1, 2032, in counties with a population of less than 100,000, there is at least 1 drop-off location for each 10,000 residents without access to curbside recycling at their dwelling, and the drop-off location is available at least 24 hours per month.
- Huron County
 - 2025 Population: 30,618
 - Residents with curbside access: 11,314
 - 1 Available Drop-off: Huron Landfill
 - **1 Drop-off still needed – See Goal 1.0 in Appendix E.**
 - Lapeer County
 - 2025 Population: 89,276
 - Residents with curbside access: 33,448
 - 1 Available Drop-offs: North Lapeer Recycling
 - **5 Drop-offs still needed – See Goal 1.0 in Appendix E.**
 - Sanilac County
 - 2025 Population: 40,152
 - Residents with curbside access: N/A
 - 6 Available Drop-offs: Sanilac County MRF, Greenleaf Twp (corner of M81 & M53), Croswell-Lexington High School, Forestville Township Park, Marlette Airport, Tri-City RDF
 - **No additional drop-offs needed – COMPLETED**
 - Tuscola County
 - 2025 Population: 52,685
 - Residents with curbside access: 28,840
 - 1 Available Drop-offs: Tuscola County MRF
 - **1 Drop-off still needed – See Goal 1.0 in Appendix E.**

5.2 Additional Goals for Recycling

Additional recycling goals are Goals 2.0 and 4.0 through 7.0 in Appendix E.

5.3 Goals for Organics

Additional organics recycling goals are 3.0 through 6.0 in Appendix E.

GUIDANCE: *MCL Section 324.11502(6) Benchmark Recycling Standards* is a minimum access requirement that requires the following:

By January 1, 2026, at least 90 percent of single-family dwellings in urban areas as identified by the most recent federal decennial census and, by January 1, 2028, at least 90 percent of single-family dwellings in municipalities with more than 5,000 residents have access to curbside recycling that meets all the following criteria:

- (i) One or more recyclable materials, as determined by the county's material management plan, that are typically collected through curbside recycling programs, are collected at least twice per month.
- (ii) If recyclable materials are not collected separately, the mixed load is delivered to a solid waste processing and transfer facility and the recyclable materials are separated from material to be sent to a solid waste disposal area.
- (iii) Recyclable materials collected are delivered to a materials recovery facility that complies with part 115 or are managed appropriately at an out-of-state recycling facility.
- (iv) The curbside recycling is provided by the municipality, or the resident has access to curbside recycling by the resident's chosen hauler.

By January 1, 2032, the following additional criteria:

- (i) In counties with a population of less than 100,000, there is at least 1 drop-off location for each 10,000 residents without access to curbside recycling at their dwelling, and the drop-off location is available at least 24 hours per month.
- (ii) In counties with a population of 100,000 or more, there is at least 1 drop-off location for each 50,000 residents without access to curbside recycling at their dwelling, and the drop-off location is available at least 24 hours per month.

6.0 PUBLIC EDUCATION

Section 11578(1)(q) of Part 115 outlines the requirements of the education and outreach program. The program must meet the following objectives, at a minimum:

- Include residents and businesses in the planning area
- Provide a strategic plan that identifies roles, responsibilities, funding sources, and methods for persons providing the education and outreach services.
- Describe the county or regional role in providing continuing recycling education.
- Include a recycling guide that meets the following requirements:
 - Identify recycling locations.
 - Identify recyclable materials.
 - Explain how to prepare recyclable materials for collection.
 - Describe other best practices.
 - Include a listed telephone number for additional information.
 - Provide a hard copy at select public locations
 - Provide in electronic format on a cell phone-friendly website.

Current public education programs for recycling and composting in the Thumb Region consist of two main types. Examples of materials from these programs are provided in **Appendix F**.

- Facility provided
 - Education materials are primarily distributed through their website, with some public outreach through classroom tours, public events, radio/newspaper ads and billboards.
 - Sanilac County MRF
 - Tuscola County MRF
- Hauler provided:
 - Education programs on materials they collect, primarily distributed through their website and in conjunction with the municipalities they service
 - Emterra Environmental USA: <https://www.emterrausa.com/pages/municipal-solutions>
 - GFL Environmental USA: <https://gflenv.com/our-services/for-home/residential-solid-waste/recycling-collection/acceptable-materials/>
 - Paul Rhein Jr Disposal: N/A
 - Priority Waste: <https://www.prioritywaste.com/cities-we-serve/michigan/>
 - Republic Services: <https://www.republicservices.com/residents/recycling/basics>
 - Rick Rhein Disposal: <https://www.lapeerrubbish.com/recycling>
 - WM: <https://www.wm.com/us/en/location/mi>

Additional development of the public education program is addressed in Goal 5.0 in **Appendix E**. The goal includes development of recycling and composting educational materials that can be distributed throughout the Planning Region. Program materials may be developed in house or by a third-party.

The Thumb Region developed a mascot for the public education program that can be used for branding of the materials. A SLoTH was selected for the mascot based on the county initials: Sanilac, Lapeer, Tuscola and Huron.

Figure 1: Thumb Region Recycling SLoTH Mascot



Figure 2: Thumb Region Yard Waste SLoTH Mascot



7.0 MECHANISMS

7.1 Funding Mechanisms

Allowable funding mechanisms are listed in Part 115 Section 11581(1). A summary of the funding mechanisms which have been successfully utilized around the State is provided in **Appendix G**.

The utilized funding mechanism are: **Grant Funding (entire planning area), Millages (Sanilac and Tuscola), and Landfill Surcharges (Huron and Sanilac)**

GUIDANCE: *MCL Section 324.11581(1)* A municipality or county may fund the implementation of an MMP through any of the following methods, if applicable and to the extent authorized by the mechanism:

- A millage under 1917 PA 298, MCL 123.261.
- A municipal utility service fee.
- Special assessments under 1957 PA 185, MCL 123.731 to 123.786; 1954 PA 188, MCL 41.721 to 41.738; or the township and village public improvement and public service act, 1923 PA 116, MCL 41.411 to 41.419.
- A service provider franchise agreement.
- Hauler licensing fees.
- A voter-approved millage.
- A general fund appropriation.
- Supplemental fees for service.
- A surcharge under section 8a of the Urban Cooperation Act of 1967, 1967 (Ex Sess) PA 7, MCL 124.508a.
- A landfill surcharge.
- A flow control fee structure.
- Any other lawful mechanism.

7.2 Enforcement Mechanisms

Municipalities and/or counties in the planning area will ensure convenient recycling access by a mechanism, such as one or more of the following:

- Assignment of the responsibility to the county or an authority.
- A franchise agreement;
- An intergovernmental agreement;
- Municipal service;
- Licensing under an ordinance;
- A public-private partnership.

Each CAA within the Thumb Region will be responsible for ensuring convenient recycling access by making sure the benchmark recycling standards are met in each of their respective counties.

In addition, specific municipalities may select one or more of the mechanisms listed above to meet their recycling goals. Existing mechanisms currently in-place are listed in Table 7-1.

This MMP does not include a mechanism for the county and municipalities in the planning area to assist the department and the department of state police in conducting the inspection program established in Part 115 [§ 324.11526(2) and (3)].

This subdivision does not preclude the private sector's participation in providing materials management services consistent with the MMP for the planning area.

MCL Section 324.11578(1)(n); 324.11581(1)

GUIDANCE: *MCL Section 324.11578(1)(n)* (n) Describe the mechanisms by which municipalities in the planning area will ensure convenient recycling access, such as 1 or more of the following:

- Assignment of the responsibility to the county or an authority.
- A franchise agreement.
- An intergovernmental agreement.
- Municipal service.
- Licensing under an ordinance.
- A public-private partnership.

Table 7-1: Mechanisms

Type of Mechanism:	Region/Area Impacted:	Description:
Hauler licensing under an ordinance	City of Lapeer	Annual permit application and licensing fee. Requires licensed haulers to offer the option for weekly recycling pick-up for single-family dwellings and mobile home parks
Municipal service or franchise agreement	Multiple – See Mega Data in Appendix B	Municipalities may contract directly with a waste hauler or the hauler offer subscription-based service in the area

7.3 Siting Process

Part 115 requires the MMP include a siting process under section 11579 and a copy of any ordinance, law, rule, or regulation of a municipality, county, or governmental authority within the planning area that applies to the siting process.

The MMP siting process is separated by County in the Planning Area as shown in **Table 7-2**. The proposed siting criteria will follow the siting process previously approved in the county's Solid Waste Management Plans.

Additional requirements of the siting process under Part 115 are as follows:

- If a disposal area that does not require a license or permit under part 115 or a materials utilization facility is proposed to be located in a local unit of government that has a zoning ordinance, the

disposal area or materials utilization facility is consistent with the MMP if it complies with the zoning ordinance and the owner or operator of the proposed disposal area or materials utilization facility presents documentation to the department and the CAA from the local unit of government exercising zoning authority demonstrating that the disposal area complies with local zoning.

- A materials utilization facility need not be sited if the CAA or DPA demonstrates to the department that the planning area has available capacity sufficient to address the managed materials identified by the MMP as being generated in the planning area.
- The siting process shall not include siting criteria that are more restrictive than state law if a materials utilization facility could not be developed anywhere in the planning area under those criteria.
- If a disposal area that does not require a license or permit under part 115 or a materials utilization facility is proposed to be located in a local unit of government that has a zoning ordinance, the disposal area or materials utilization facility is consistent with the MMP if it complies with the zoning ordinance and the owner or operator of the proposed disposal area or materials utilization facility presents documentation to the department and the CAA from the local unit of government exercising zoning authority demonstrating that the disposal area complies with local zoning.
- A disposal area or materials utilization facility is automatically consistent with the MMP if the specific facility or type of facility is identified in the MMP as being automatically consistent.
- A materials management facility that is not automatically consistent with the MMP is considered consistent if, as determined by the CAA or other entity specified by the MMP and by the department, all of the following requirements are met:
 - The MMP authorizes that type of materials management facility to be sited by following the siting procedure and meeting the minimum siting criteria included in the MMP under section 11579, or the facility is a captive type III landfill and both of the following apply:
 - The landfill accepts only waste generated by the owner or operator of the landfill.
 - The landfill met local land use requirements when initially sited.
 - The materials management facility follows the siting procedure and meets minimum siting criteria in the MMP.
 - The materials management facility meets either of the following requirements:
 - Has host community approval.
 - Meets any supplemental siting criteria in the MMP for materials management facilities that do not have host community approval.
- The CAA or other entity specified by the MMP shall promptly notify the owner or operator of the materials management facility in writing of its determination under subsection (3) whether the materials management facility is consistent with the MMP.
- The department shall determine whether a materials management facility is consistent with the MMP through an independent evaluation as part of the review process for an application for a registration, for approval under a general permit, or for a construction permit or operating license. The applicant for a permit for a materials management facility shall include in the application documentation of the facility's consistency with the MMP.

While a host community agreement is not required to site a materials management facility (MMF) in the Planning Area, it is strongly recommended that a new MMF obtain approval from an elected body of the host community with the opportunity for public participation. A host community agreement may also be used which could consist of a resolution of a municipality, adoption of an ordinance, or a legal agreement between the parties.

§ 11578(1)(i) Ensure that the materials management facilities that are identified as necessary to be sited can be developed in compliance with state law pertaining to protection of the public health and the environment, considering the available land in the planning area and the technical feasibility of, and economic costs associated with, the facilities.

MMF's in adjacent Planning Areas are considered as part of the capacity for the Thumb Region (Section 4.4). As such, when a new materials utilization facility is proposed to be sited in the Thumb Region, the materials utilization facility need not be sited if the CAA or DPA demonstrates to the department that the planning area has available capacity sufficient to address the managed materials identified by the MMP as being generated in the planning area.

MCL Section 324.11578(1)(r), 324.11578(3), 324.11579, 324.11585

GUIDANCE: 324.11578(1)(s) Take into consideration the MMPs of counties adjacent to the planning area as they relate to the planning area's needs.

Table 7-2: Siting Criteria

Facility Type	Location Restriction	Part 115	Lapeer	Tuscola	Sanilac	Huron
Type II and Type III Landfills	Property Lines & ROW	Min. 100 ft and requires screening within 200 ft	400 ft	100 ft	No new solid waste facilities may be sited in Sanilac County under the plan.	All waste disposal facility types are <u>inconsistent</u> including new sanitary landfill, transfer station, processing plant, or solid waste incinerator
	Lakes & perennial streams	400 ft	400 ft	100 ft		
	Domiciles	300 ft	1,000 ft without waiver	800 ft		
	Airport runway	10,000 ft for turbojet 5,000 ft for other aircraft	N/A	10,000 ft		
	Public water supply well	2,000	2,000 ft	N/A		
	Private water supply well	800	1,000 ft	N/A		
	Wetland	Not allowed without environmental assessment and additional controls and permitting.	300 ft	Not allowed		
	Floodplain		Not allowed	Not allowed		
	PA 116	N/A	N/A	Not allowed		
	Part 323 Environmental Area or unique habitat of DNR Natural Features Inventory	N/A	N/A	Not allowed		
	SHPO designated	Not allowed	N/A	Not allowed		
	Public Lands	N/A	N/A	Not allowed unless EGLE evaluation and developer acquires property.		
	# of Facilities operating	N/A	N/A	Only one Type II operating at any time unless less than 10 years of disposal capacity.		
	Public park or rec area	N/A	300 ft	N/A		

Facility Type	Location Restriction	Part 115	Lapeer	Tuscola	Sanilac	Huron
	Additional criteria	EGLE Advisory Analysis Construction Permit Operating License	- Paved, all weather road or signed statement that developer will upgrade - Cannot direct traffic through residential subdivision	- EGLE Advisory Analysis ≥108 points overall ≥60 for specific categories		
SW Processing Facilities	Property Lines & ROW	N/A	300 ft	100 ft	No new solid waste facilities may be sited in Sanilac County under the plan.	No new solid waste facilities may be sited in Sanilac County under the plan.
	Lakes & perennial streams	N/A	300 ft	100 ft		
	Domiciles	Screening required within 500 ft	1,000 ft without waiver	800 ft		
	Wetland	Not allowed without environmental assessment and additional controls and permitting.	300 ft	Not allowed		
	Floodplain		Not allowed	Not allowed		
	Public park or rec area	N/A	300 ft	N/A		
	Additional criteria	EGLE Advisory Analysis Construction Permit Operating License	- Screened with barrier 8 ft tall with 75% screening - Paved, all weather road or signed statement that developer will upgrade - Zoned industrial	- Not allowed on PA 116 - Not located in Part 323 environmental area or areas of unique habitat from DNR Natural Features Inventory. - Not allowed in SHPO designated historic or archaeological area. - Not on public lands except through evaluation by EGLE and developer acquires the property. ≥90 points overall		

Facility Type	Location Restriction	Part 115	Lapeer	Tuscola	Sanilac	Huron
Type A & B Transfer Facilities	Property Lines & ROW	N/A	300 ft	Same as for Processing Facility and also: - Building shall be 300 feet from adjacent property lines or domiciles unless written waiver - Screened with barrier 8 ft tall with 75% screening - 300 ft of public park or recreation area - Located on a paved, all weather "Class A" road or upgrade by developer	<u>No new</u> solid waste facilities may be sited in Sanilac County under the plan.	<u>No new</u> solid waste facilities may be sited in Sanilac County under the plan.
	Lakes & perennial streams	N/A	300 ft			
	Domiciles	Screening required within 500 ft	1,000 ft without waiver			
	Wetland	Not allowed without environmental assessment and additional controls and permitting.	300 ft			
	Floodplain		Not allowed			
	Public park or rec area	N/A	300 ft			
	Additional criteria	EGLE Advisory Analysis Construction Permit Operating License	- Screened with barrier 8 ft tall with 75% opacity - Paved, all weather road or signed statement that developer will upgrade			
Incinerator	Residential dwelling, School, Preschool, Hospital, or Nursing home	1,000 ft	None	Same as for Processing Facility	<u>No new</u> solid waste facilities may be sited in Sanilac County under the plan.	<u>No new</u> solid waste facilities may be sited in Sanilac County under the plan.
MRF (Distinguish between permitted or registered?)	Property Lines & ROW	None	None	300 ft	None	None
	Lakes & perennial streams			300 ft		
	Domiciles			1,000 ft		
	Wetland			300 ft		
	Floodplain			Not allowed		

Facility Type	Location Restriction	Part 115	Lapeer	Tuscola	Sanilac	Huron
	Public park or rec area			300 ft		
	Additional Criteria			- Screened with barrier 8 ft tall with 75% opacity - Located on a paved, all weather "Class A" road or upgrade by developer - Zoned industrial		
Compost Facility – Small (<1,000 cyd)	Property Lines & ROW	50 ft	None	None	None	None
	Lakes & perennial streams	200 ft				
	Domiciles	200 ft				
	Wetland	N/A				
	Floodplain	N/A				
	Public water supply well	2,000 ft				
	Private water supply well	800 ft				
	Church, hospital, nursing home, daycare, school	500 ft				
Compost Facility – Medium	Groundwater isolation	4 ft	None	None	None	None
	Property Lines & ROW	100 ft				
	Lakes & perennial streams	200 ft				
	Domiciles	300 ft				
	Wetland	Not allowed				
	Floodplain	Not allowed				
	Public water supply well	2,000 ft				
	Private water supply well	800 ft				
	Church, hospital, nursing home, daycare, school	500 ft				
Compost Facility – Large (>10,000 cyd)	Groundwater isolation	4 ft	None	None	None	None
	Property Lines & ROW	100 ft				
	Lakes & perennial streams	200 ft				
	Domiciles	300 ft				
	Wetland	Not allowed				

Facility Type	Location Restriction	Part 115	Lapeer	Tuscola	Sanilac	Huron
	Floodplain	Not allowed				
	Public water supply well	2,000 ft				
	Private water supply well	800 ft				
	Church, hospital, nursing home, daycare, school	500 ft				
	Groundwater isolation	4 ft				

7.4 Flow Control

Part 115 section 11584 allows a county, municipality, authority, or regional planning agency that owns or operates a materials management facility to adopt requirements controlling the flow of solid waste or managed material to the materials management facility, to the extent allowed by the interstate commerce clause, clause 3 of section 8 of article I of the Constitution of the United States.

This currently pertains to the Sanilac County MRF and Tuscola County MRF in the Planning Region.

8.0 ADMINISTRATION

Identify the entity or entities responsible for each of the following and document the appropriateness of the identified entities to carry out their respective responsibilities:

- Implementing the access requirements of the benchmark recycling standards.
- Identifying the materials utilization framework and the achievement of the materials management goals.
- Otherwise monitoring, implementing, and enforcing the MMP and providing any required reports to the department.
- Administering the funding mechanisms that will be used to implement the MMP.

MCL Section 324.11578(1)(p)

8.1 Responsible Entities

Table 8-1: Responsible Entities

Responsibilities	Name/Title/Organization	Qualifications/Authority
Implement and maintain the benchmark recycling standards	DPA/MMPC	Authority given by BOC's of each County
Identify the materials utilization framework and achievement of MMP goals	DPA/MMPC	Authority given by BOC's of each County
Monitor, implement, and enforce the MMP and perform required reporting	DPA/MMPC	Authority given by BOC's of each County
Administer the funding mechanisms to implement the MMP	CAA or Controller of each County	Authority given by BOC's of each County
Develop and maintain public education program	DPA/MMPC	Authority given by BOC's of each County
Approve facility siting	DPA/MMPC/Planning Commissions/Local Zoning Authorities	Authority given by BOC'S of each County

8.2 Minimum Level of Service

§ 11578(1)(o) Specify a recommended minimum level of recycling service that incorporates the access requirements of the benchmark recycling standards. The county or a municipality within the planning area may, through an appropriate enforceable mechanism, require haulers operating in its jurisdiction to provide the recommended level or a different minimum level of recycling service.

8.3 Resources Needed

A description of the resources needed for meeting the materials management goals and how the development of necessary materials utilization facilities and activities will be promoted are addressed in **Appendix E**.

8.4 Public Participation

8.4.1 Community questionnaires

Community questionnaires were gathered at the start of the planning process to inform the MMP preparation as discussed in Section 4.7.

8.4.2 LUG Information sessions

Information sessions on the purpose and requirements of the MMP process were held for the local units of government within the Planning Area. One information session was held in each of the four counties to limit the distance of travel for LUG officials in the hopes that they would be more likely to attend.

- Huron County – November 2025
- Lapeer County – December 2025
- Sanilac County – February 2026
- Tuscola County – March 2026

The presentation slides and sign-in sheets from those sessions are provided in **Appendix H**.

8.4.3 Meeting Minutes

Minutes from the MMPC committee meetings are included in **Appendix I**.

8.4.4 Public Hearing and Comment Period

Appendix J – To be provided after public comment period

8.4.5 CAA Approvals

Appendix K – To be provided after CAA approval

8.4.6 LUG Approval Responses

Appendix L – To be provided after LUG response receipts

If you need this information in an alternate format, contact EGLE-Accessibility@Michigan.gov or call 800-662-9278.

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APPENDICES

- Appendix A: EPA Waste Generation Tool
- Appendix B: Mega Data County Profiles
- Appendix C: Materials Management Facility Acknowledgement Forms
- Appendix D: Community Questionnaire Responses
- Appendix E: Goals and Implementation Strategy
- Appendix F: Public Education Materials
- Appendix G: Funding Mechanism Fact Sheet
- Appendix H: LUG Information Meeting Slides
- Appendix I: MMPC Meeting Minutes
- Appendix J: CAA Interlocal Agreement and MMP Approvals
- Appendix K: Public Hearing and Comments
- Appendix L: LUG MMP Approvals

APPENDIX A

EPA Waste Generation Tool

Projected MSW Generation Estimate Based on Population

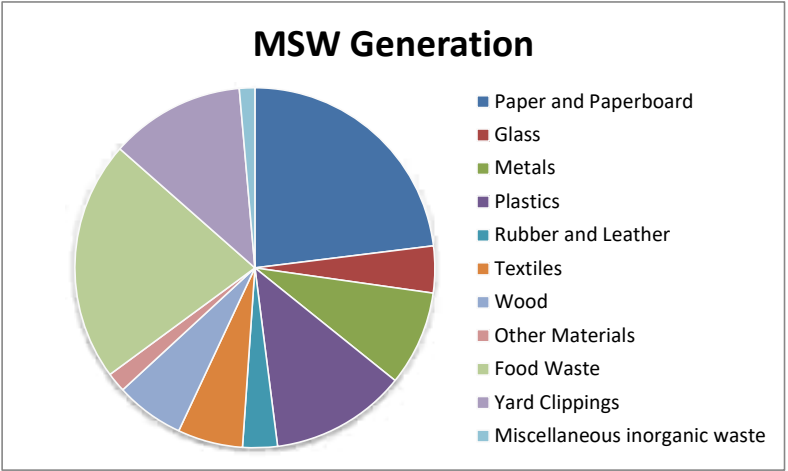
This tool is intended to be used to estimate the amount of municipal solid waste generated by a county given the population and uses the average amount of trash produced by one person to estimate the amount of trash produced by an entire population using the national average provided by the EPA.

Values to be input highlighted in orange.

County:	Huron
Population:	30,618.00
Year:	2025

Total amount of MSW generated by one person per year	National Estimates
	1,788.5000 lbs
	0.8943 tons
	4.9000 lbs
Amount of trash produced by one person per day	0.0025 tons

Materials	Weight Generated (tons)	% Residential	% Commercial
Paper and Paperboard	6,311.12	3,786.67	2,524.45
Glass	1,147.23	688.34	458.89
Metals	2,338.26	1,402.96	935.31
Plastics	3,340.38	2,004.23	1,336.15
Rubber and Leather	857.00	514.20	342.80
Textiles	1,596.26	957.76	638.51
Wood	1,694.83	1,016.90	677.93
Other Materials	487.37	292.4199646	194.9466431
Food Waste	5,911.37	3,546.82	2,364.55
Yard Clippings	3,315.74	1,989.44	1,326.29
Miscellaneous inorganic waste	380.58	1,989.44	152.23
Calculated Total Municipal Solid Waste (tons)*	27,380.15	16,428.09	10,952.06
Projected Total Municipal Solid Waste (tons)*	27,380.15	16,428.09	10,952.06



*Projected Total MSW is the population multiplied by the amount of trash produced by one person per year while the Calculated Total MSW is the sum of the weights of the materials.

Reference:

U.S. Environmental Protection Agency (EPA). National Overview: Facts and Figures on Materials, Wastes and Recycling (2018). Online, accessed 3/20/2023. Available at: <https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materials#Generation>

Projected MSW Generation Estimate Based on Population

This tool is intended to be used to estimate the amount of municipal solid waste generated by a county given the population and uses the average amount of trash produced by one person to estimate the amount of trash produced by an entire population using the national average provided by the EPA.

Values to be input highlighted in orange.

County:	Lapeer
Population:	89,276.00
Year:	2025

Total amount of MSW generated by one person per year

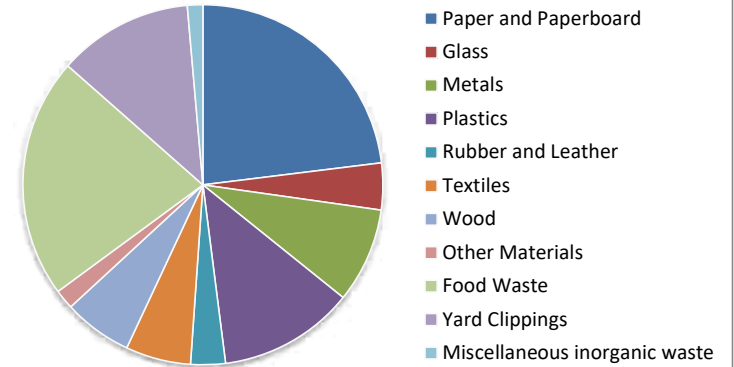
Amount of trash produced by one person per day

National Estimates

1,788.5000 lbs
0.8943 tons
4.9000 lbs
0.0025 tons

Materials	Weight Generated (tons)	% Residential	% Commercial
Paper and Paperboard	18,401.98	11,041.19	7,360.79
Glass	3,345.09	2,007.05	1,338.04
Metals	6,817.91	4,090.75	2,727.17
Plastics	9,739.88	5,843.93	3,895.95
Rubber and Leather	2,498.84	1,499.30	999.53
Textiles	4,654.38	2,792.63	1,861.75
Wood	4,941.79	2,965.07	1,976.72
Other Materials	1,421.06	852.6384728	568.4256486
Food Waste	17,236.39	10,341.83	6,894.56
Yard Clippings	9,668.03	5,800.82	3,867.21
Miscellaneous inorganic waste	1,109.71	5,800.82	443.88
Calculated Total Municipal Solid Waste (tons)*	79,835.06	47,901.04	31,934.03
Projected Total Municipal Solid Waste (tons)*	79,835.06	47,901.04	31,934.03

MSW Generation



*Projected Total MSW is the population multiplied by the amount of trash produced by one person per year while the Calculated Total MSW is the sum of the weights of the materials.

Reference:

U.S. Environmental Protection Agency (EPA). National Overview: Facts and Figures on Materials, Wastes and Recycling (2018). Online, accessed 3/20/2023. Available at:

<https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materials#Generation>

Projected MSW Generation Estimate Based on Population

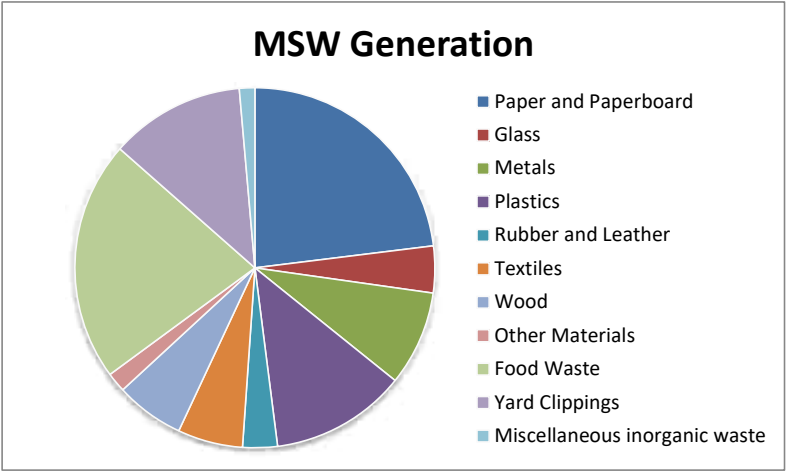
This tool is intended to be used to estimate the amount of municipal solid waste generated by a county given the population and uses the average amount of trash produced by one person to estimate the amount of trash produced by an entire population using the national average provided by the EPA.

Values to be input highlighted in orange.

County:	Sanilac
Population:	40,152.00
Year:	2025

Total amount of MSW generated by one person per year	National Estimates
	1,788.5000 lbs
	0.8943 tons
	4.9000 lbs
Amount of trash produced by one person per day	0.0025 tons

Materials	Weight Generated (tons)	% Residential	% Commercial
Paper and Paperboard	8,276.32	4,965.79	3,310.53
Glass	1,504.46	902.67	601.78
Metals	3,066.37	1,839.82	1,226.55
Plastics	4,380.52	2,628.31	1,752.21
Rubber and Leather	1,123.86	674.31	449.54
Textiles	2,093.32	1,255.99	837.33
Wood	2,222.58	1,333.55	889.03
Other Materials	639.13	383.4752897	255.6501931
Food Waste	7,752.09	4,651.25	3,100.84
Yard Clippings	4,348.21	2,608.92	1,739.28
Miscellaneous inorganic waste	499.09	2,608.92	199.64
Calculated Total Municipal Solid Waste (tons)*	35,905.93	21,543.56	14,362.37
Projected Total Municipal Solid Waste (tons)*	35,905.93	21,543.56	14,362.37



*Projected Total MSW is the population multiplied by the amount of trash produced by one person per year while the Calculated Total MSW is the sum of the weights of the materials.

Reference:

U.S. Environmental Protection Agency (EPA). National Overview: Facts and Figures on Materials, Wastes and Recycling (2018). Online, accessed 3/20/2023. Available at: <https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materials#Generation>

Projected MSW Generation Estimate Based on Population

This tool is intended to be used to estimate the amount of municipal solid waste generated by a county given the population and uses the average amount of trash produced by one person to estimate the amount of trash produced by an entire population using the national average provided by the EPA.

Values to be input highlighted in orange.

County:	Tuscola
Population:	52,685.00
Year:	2025

Total amount of MSW generated by one person per year

Amount of trash produced by one person per day

National Estimates

1,788.5000 lbs

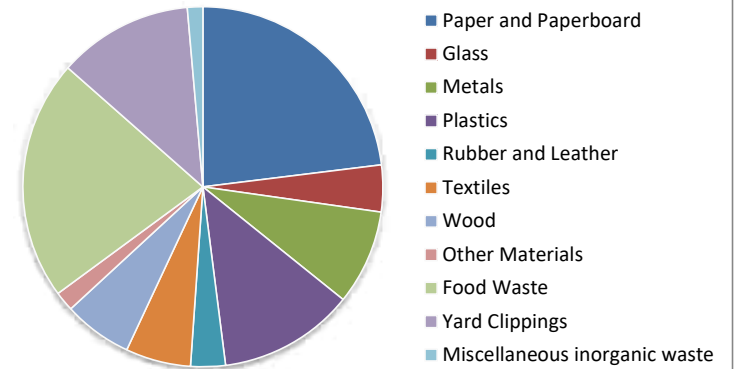
0.8943 tons

4.9000 lbs

0.0025 tons

Materials	Weight Generated (tons)	% Residential	% Commercial
Paper and Paperboard	10,859.68	6,515.81	4,343.87
Glass	1,974.06	1,184.43	789.62
Metals	4,023.50	2,414.10	1,609.40
Plastics	5,747.85	3,448.71	2,299.14
Rubber and Leather	1,474.65	884.79	589.86
Textiles	2,746.72	1,648.03	1,098.69
Wood	2,916.33	1,749.80	1,166.53
Other Materials	838.62	503.1728342	335.4485561
Food Waste	10,171.82	6,103.09	4,068.73
Yard Clippings	5,705.45	3,423.27	2,282.18
Miscellaneous inorganic waste	654.88	3,423.27	261.95
Calculated Total Municipal Solid Waste (tons)*	47,113.56	28,268.14	18,845.42
Projected Total Municipal Solid Waste (tons)*	47,113.56	28,268.14	18,845.42

MSW Generation



*Projected Total MSW is the population multiplied by the amount of trash produced by one person per year while the Calculated Total MSW is the sum of the weights of the materials.

Reference:

U.S. Environmental Protection Agency (EPA). National Overview: Facts and Figures on Materials, Wastes and Recycling (2018). Online, accessed 3/20/2023. Available at:

<https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materials#Generation>

APPENDIX B

Mega Data County Profiles

HURON 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 counites 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

No county run programs or services available in Huron 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

In Huron County, approximately 41% of the population has access to curbside trash collection through contracted haulers. One community provides residents with access to drop-off trash services, which covers about 3% of the population.

RECYCLING

About 28% of the county's population can access curbside recycling services through contracted services, and accepted materials include paper, cardboard, glass, mixed plastics, and metal cans.

YARD WASTE

Common yard waste materials are collected curbside in several communities. A small portion of the population has access to this service through municipal haulers, while about 26% of the population has access through contracted haulers. Two communities provide access to drop-off organics services, which accept brush, grass clippings, and leaves.

HOUSEHOLD HAZARDOUS WASTE

Household hazardous waste is accepted through conservation district annual collection events.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- Emterra Environmental USA
- Waste Management
- Municipal

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Bad Axe city	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA	
Bay Port CDP (part)	Covered by Fairhaven and McKinley Twps. Emterra services McKinley.			
Bay Port CDP (part)				
Bloomfield township				
Caseville village	Emterra Environmental USA		Caseville Village DPW	
Chandler township	Emterra			
Colfax township	script			
Elkton village	Emterra	Emterra Environmental USA	Village of Elkton Yard Emterra	
Gore township	Emterra			
Grant township				
Harbor Beach city	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA	
Hume township	Emterra Environmental USA			
Huron township				
Kinde village	Emterra			
Lake township	Emterra services their transfer station + accepts scripts			
Owendale village	Emterra			
Paris township				
Pigeon village	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA	
Pointe Aux Barques township				

Port Austin village	Emterra Environmental USA	Emterra Environmental USA	Port Austin Village Department of Public Works	
Port Hope village	Waste Management Inc.			
Bingham township				
Brookfield township	Emterra	Emterra		
Caseville township	Emterra Environmental USA		Emterra Environmental USA	
Dwight township				
Fairhaven township	WM			
Lincoln township				
McKinley township	Emterra			
Meade township				
Oliver township				
Port Austin township	Emterra Environmental USA	Emterra Environmental USA		
Rubicon township				
Sebewaing township				
Winsor township				
Sand Beach township				
Sebewaing village	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA	
Sheridan township	script			
Sherman township				
Sigel township	Emterra			
Uby village	Emterra Environmental USA	Emterra Environmental USA		
Verona township	Emterra	Emterra		

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
Bad Axe city					Huron Conservation District
Bay Port CDP (part)					Huron Conservation District
Bay Port CDP (part)					Huron Conservation District
Bloomfield township					Huron Conservation District
Caseville village					Huron Conservation District
Chandler township					Huron Conservation District
Colfax township					Huron Conservation District
Elkton village			For large branches only from storms		Huron Conservation District
Gore township					Huron Conservation District
Grant township					Huron Conservation District
Harbor Beach city					Huron Conservation District
Hume township					Huron Conservation District
Huron township					Huron Conservation District
Kinde village (part)					Huron Conservation District
Kinde village (part)					Huron Conservation District
Kinde village (part)					Huron Conservation District
Lake township	Lake Township Transfer Emterra 40-yd compactor	Emterra services two-8 yd	Lake Township Transfer Station Township said Emterra picks up their yard waste, but we do not and our drivers report that it is composted in a pile onsite.		Huron Conservation District
Owendale village					Huron Conservation District
Paris township					Huron Conservation District

Pigeon village			Pigeon Village DPW Garage		Huron Conservation District
Pointe Aux Barques township					Huron Conservation District
Port Austin village					Huron Conservation District
Port Hope village					Huron Conservation District
Bingham township					Huron Conservation District
Brookfield township					Huron Conservation District
Caseville township					Huron Conservation District
Dwight township					Huron Conservation District
Fairhaven township					Huron Conservation District
Lincoln township					Huron Conservation District
McKinley township					Huron Conservation District
Meade township					Huron Conservation District
Oliver township					Huron Conservation District
Port Austin township					Huron Conservation District
Rubicon township					Huron Conservation District
Sebewaing township					Huron Conservation District
Winsor township					Huron Conservation District
Sand Beach township					Huron Conservation District
Sebewaing village					Huron Conservation District
Sheridan township					Huron Conservation District
Sherman township					Huron Conservation District
Sigel township					Huron Conservation District
Ubly village					Huron Conservation District

Verona township					Huron Conservation District
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FACILITIES

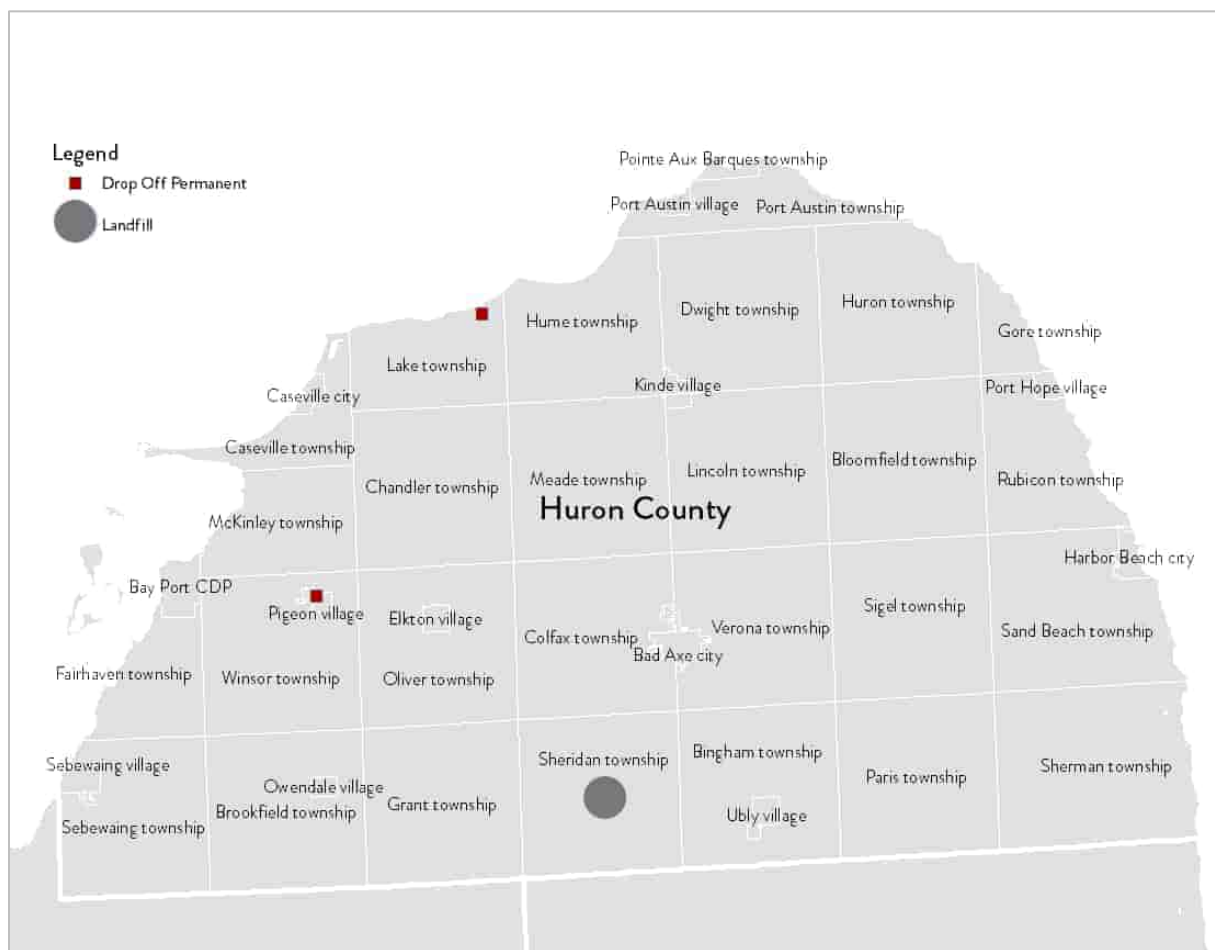
MATERIALS MANAGEMENT FACILITIES IN COUNTY

FACILITY SUMMARY TABLE

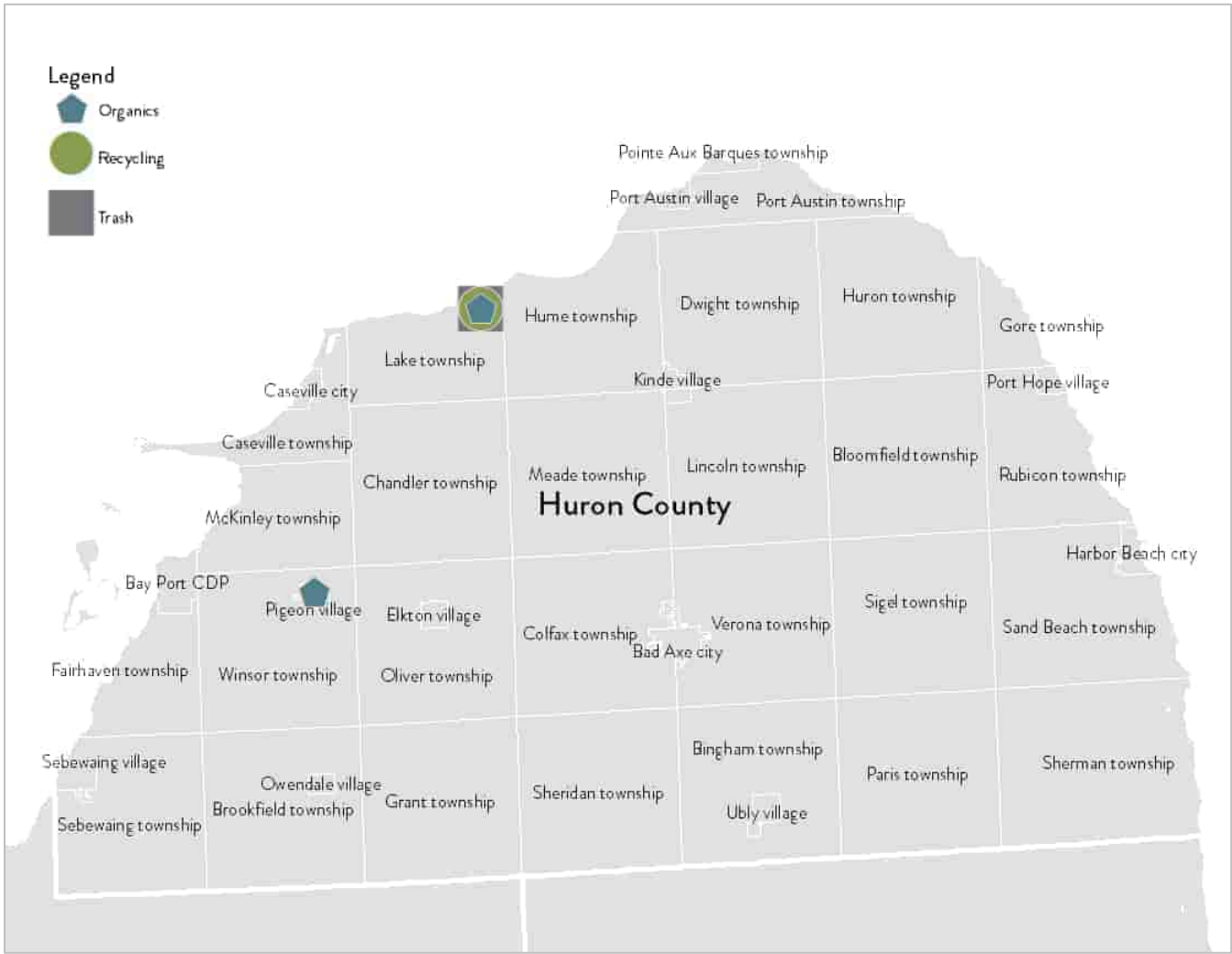
FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Drop-off (B, T, NT, O)	Lake Township Transfer station			Permanent Drop-off
Drop-off (O)	Village of Pigeon Brush Drop Off	70 N Main St	Pigeon	Permanent Drop-off
Landfill	Cove Landfill of Bad Axe Inc	4151 S McMillan Rd	Bad Axe	

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

Municipality	Policy type	Requirement
Caseville Township	Ordinance	Collection and disposal of refuse, prohibition of refuse burning other than leaves, establishment of fees
Caseville Village	Ordinance	Reporting Requirements; Can for Waste; Recycling Container Location;
Pigeon Village	Ordinance	Collection and disposal of refuse, establishment of rates and charges, village-approved collectors, container specifications; Can for Waste; Recycling Container Location
Village of Port Hope	Ordinance	Collection and disposal of refuse, container specifications, village approved collectors, penalties; Container Size; Recycling Container Location
Sebewaing Village	Ordinance	Collection and disposal of refuse, container specifications, prohibition of littering, recreational burning rules, establishment of fees, village approved collectors; Illegal Dumping Law; Haz Material Requirement; Misdemeanor Penalty; Recycling Container Location; Container Size

MUNICIPAL FUNDING MECHANISMS

Municipality	Waste Collection	Recycling Collection	Organics Collection	Bulky Item Collection
Caseville city	Municipal Utility/Service Fees		Municipal Utility/Service Fees	
Caseville township	Municipal Utility/Service Fees			
Elkton village	Municipal Utility/Service Fees	Municipal Utility/Service Fees	Municipal Utility/Service Fees	
Hume township	Legislatively Authorized Millages			
Port Austin village	Hauler Collected Fees (by Municipality)			
Port Austin township	Legislatively Authorized Millages			

COUNTY ORDINANCES

No county ordinances obtained.

COUNTY FUNDING MECHANISMS

No county funding mechanisms 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)
Bad Axe city	2,930	1,463	230	112	1,121
Bay Port CDP	574	242	0	22	220
Bay Port CDP	8	4	0	0	3
Bingham township	897	407	29	34	343
Bloomfield township	357	162	12	14	137
Brookfield township	574	242	0	22	220
Caseville city	600	272	19	23	230
Caseville township	1,656	697	0	63	634
Chandler township	422	178	0	16	161
Colfax township	1,684	709	0	64	644
Dwight township	314	132	0	12	120
Elkton village	768	323	0	29	294
Fairhaven township	876	369	0	33	335
Gore township	113	48	0	4	43
Grant township	958	434	31	37	367
Harbor Beach city	1,862	930	146	71	712
Hume township	708	298	0	27	271
Huron township	261	110	0	10	100
Kinde village	327	138	0	12	125
Kinde village	148	62	0	6	57
Lake township	586	247	0	22	224
Lincoln township	617	260	0	24	236
McKinley township	368	155	0	14	141
Meade township	562	236	0	21	215
Oliver township	731	308	0	28	280
Owendale village	301	127	0	11	115
Paris township	382	161	0	15	146
Pigeon village	1,143	571	90	44	437
Pointe Aux Barques township	17	7	0	1	7
Port Austin township	714	357	56	27	273
Port Austin village	608	304	48	23	233
Port Hope village	236	99	0	9	90
Rubicon township	564	256	18	22	216
Sand Beach township	1,129	475	0	43	432

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

Sebewaing township	828	375	27	32	317
Sebewaing village	1,518	758	119	58	581
Sheridan township	663	279	0	25	254
Sherman township	983	414	0	37	376
Sigel township	443	186	0	17	170
Uby village	785	392	62	30	300
Verona township	1,350	568	0	51	517
Winsor township	540	245	18	21	207
TOTAL	31,105	13,993	905	1,186	11,902

COMMERCIAL WASTE PROJECTIONS

County	Approximate Number of Employees	Total Waste Generation (Tons)	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Huron	10,410	16,170	1,772	14,398

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) Error! Bookmark not defined.	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Huron	30,163	3,863	26,300

LAPEER 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

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:

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- 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

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ACCESS AND COLLECTION

COUNTY PROGRAM OVERVIEW

Lapeer County does not provide any county run programs or services.

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. Programs and services are offered by a different entity other than the municipality and are noted in the tables.

TRASH

About 9% of the population has access to curbside trash collection through contract. 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. Eagle Valley Landfill also operates in the county.

RECYCLING

About 7% of the county's population can access recycling services through contracted haulers. Hadley Township provides its residents with recycling drop-off service. There appears to be a drop-off location in the county, run by volunteers with the assistance of a local waste hauler. Details about the program could not be verified via phone call, email or social media.

YARD WASTE

Common yard waste materials, such as brush and leaves, are accepted at the City of Lapeer Yard Waste Drop Off. Several communities, covering about 7% of the county's population, provide contracted curbside yard waste services. Some communities provide curbside yard waste services through their Departments of Public Works.

HOUSEHOLD HAZARDOUS WASTE

No information was obtained about Household Hazardous Waste programs.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- Emterra Environmental USA
- Knox Disposal
- J&J Disposal
- Priority Waste
- Rick Rhein Disposal
- Subscription
- Municipal

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Almont village	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA	
Arcadia township				
Attica CDP				
Barnes Lake-Millers Lake CDP				
Brown City city (part)	Knox Disposal		Brown City DPW	
Burnside township				
Clifford village	Knox Disposal			
Columbiaville village	Columbiaville Village			
Dryden village	Priority Waste		Village of Dryden DPW	
Elba township	Subscription	Subscription		
Goodland township				
Hadley township				
Imlay City city	J & J Disposal	J&J Disposal	J&J Disposal	
Imlay township		Subscription		
Lapeer city	Subscription	Subscription	City of Lapeer Streets Division	
Lapeer township				
Mayfield township				
Metamora village				
North Branch village			North Branch Village DPW	

Otter Lake village (part)				
Almont township				
Attica township	Subscription	Subscription		
Burlington township				
Deerfield township	Subscription			
Dryden township				
Marathon township				
Metamora township	Subscription	Subscription		
North Branch township				
Oregon township		Rick Rhein Disposal		
Rich 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
Almont village		Lapeer County Drop-off Recycling			
Arcadia township		Lapeer County Drop-off Recycling			
Attica CDP		Lapeer County Drop-off Recycling			
Barnes Lake-Millers Lake CDP		Lapeer County Drop-off Recycling			
Brown City city (part)		Lapeer County Drop-off Recycling			
Burnside township		Lapeer County Drop-off Recycling			
Clifford village		Lapeer County Drop-off Recycling			
Columbiaville village (part)		Lapeer County Drop-off Recycling			
Columbiaville village (part)		Lapeer County Drop-off Recycling			
Dryden village		Lapeer County Drop-off Recycling			
Elba township		Lapeer County Drop-off Recycling			
Goodland township		Lapeer County Drop-off Recycling			

Hadley township		Hadley Township Paper Recycling Drop-off			
Imlay City city		Lapeer County Drop-off Recycling			
Imlay township		Lapeer County Drop-off Recycling			
Lapeer city		Lapeer County Drop-off Recycling	City of Lapeer Yard Waste Drop Off		
Lapeer township		Lapeer County Drop-off Recycling			
Mayfield township		Lapeer County Drop-off Recycling			
Metamora village		Lapeer County Drop-off Recycling			
North Branch village		Lapeer County Drop-off Recycling			
Otter Lake village (part)		Lapeer County Drop-off Recycling			
Almont township		Lapeer County Drop-off Recycling			
Attica township		Lapeer County Drop-off Recycling			
Burlington township		Lapeer County Drop-off Recycling			
Deerfield township		Lapeer County Drop-off Recycling			
Dryden township		Lapeer County Drop-off Recycling			

Marathon township		Lapeer County Drop-off Recycling			
Metamora township	Eagle Valley Landfill	Lapeer County Drop-off Recycling			
North Branch township		Lapeer County Drop-off Recycling			
Oregon township		Lapeer County Drop-off Recycling			
Rich township		Lapeer County Drop-off Recycling			

FACILITIES

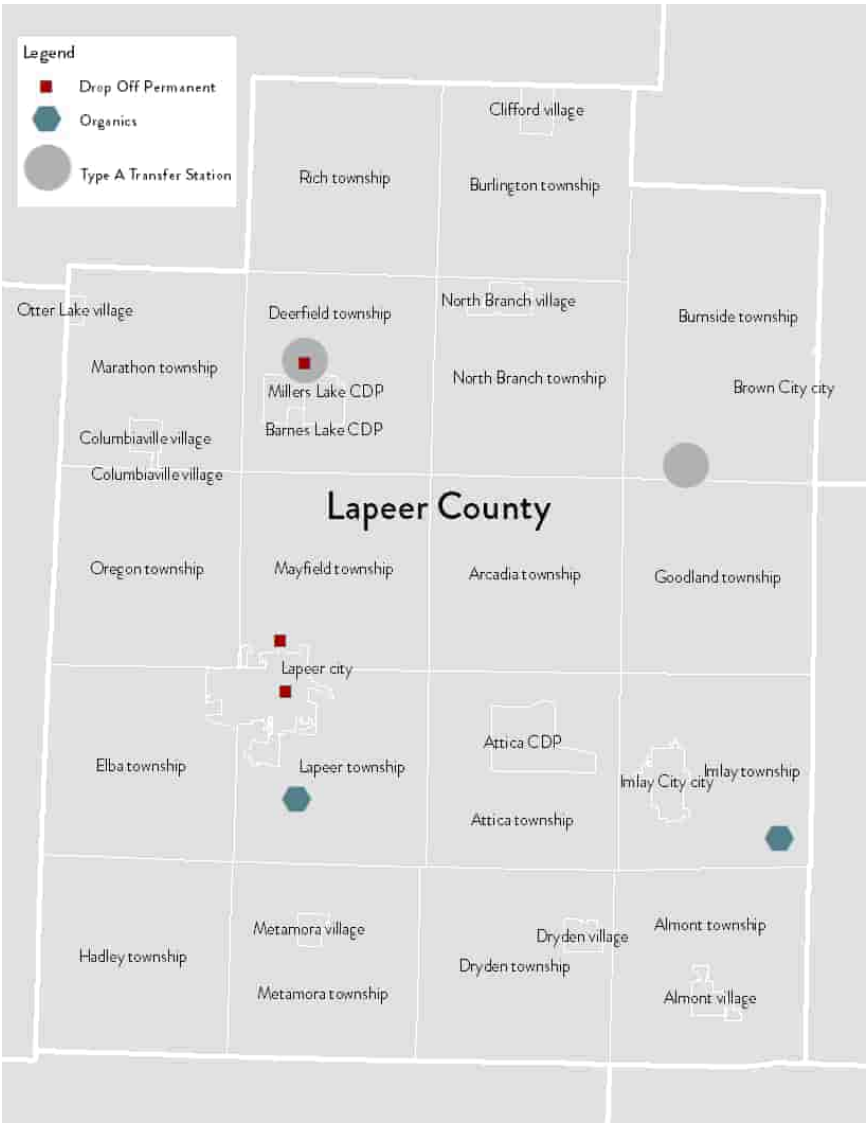
MATERIALS MANAGEMENT FACILITIES IN COUNTY

FACILITY SUMMARY TABLE

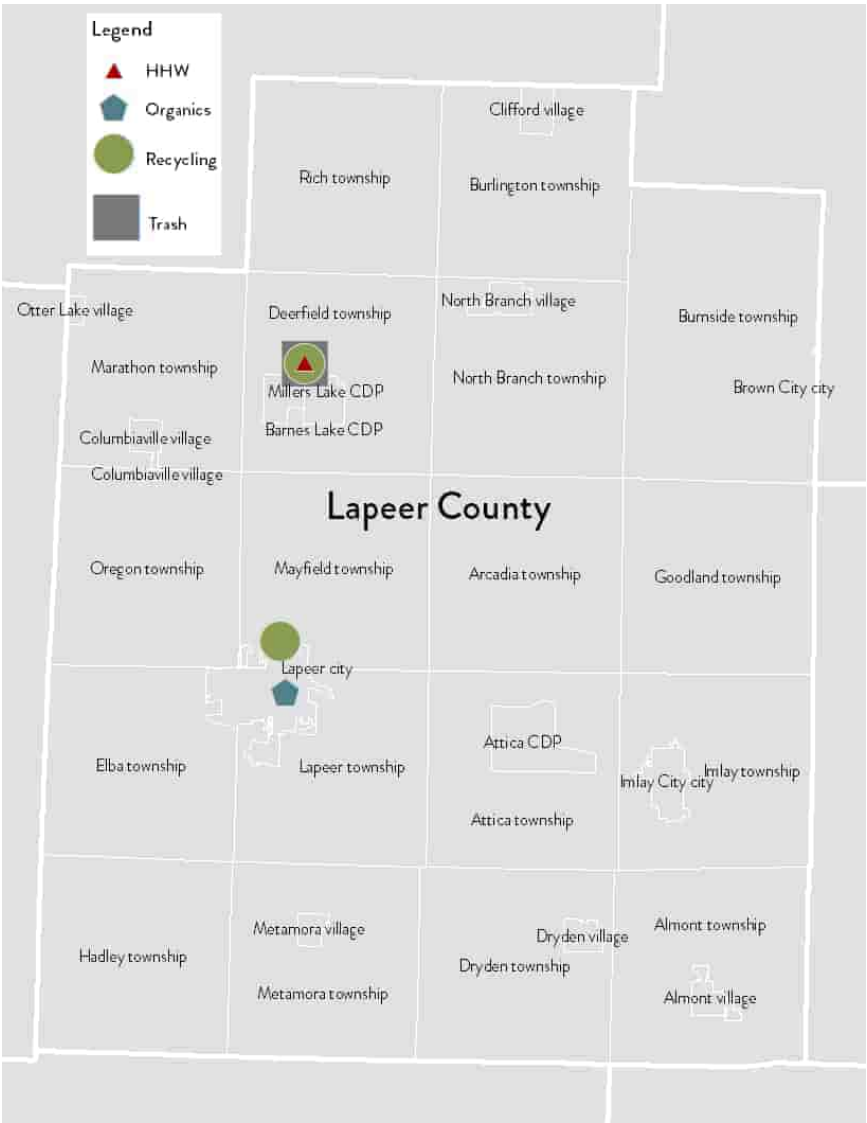
FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Compost	Environmental Reclamation	2371 Graham Road	Imlay City	
Compost	Newark Aggregate and Landscape Supply	190 W NEWARK ROAD	Lapeer	
Drop-off (O)	City of Lapeer DPW Compost Drop Off	217 Bentley Street	Lapeer	Permanent Drop-off
Drop-off (WDC, B, T, NT, C&D)	Deerfield Disposal	5700 N Lapeer Rd	North Branch	Permanent Drop-off
Drop-off (T, NT)	Lapeer County Drop Off Recycling	1633 N. Lapeer Road	Lapeer	Permanent Drop-off
Transfer Station – Type A	Midway Disposal Transfer Station	4235 M-53	Brown City	
Transfer Station – Type A	Deerfield Disposal	5728 N Lapeer Rd	North Branch	

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

Municipality	Policy type	Requirement
Almont Village	Ordinance	Collection and disposal of waste, contractual services, establishment of fees and penalties
Brown City city (part)	Ordinance	Collection and disposal of waste, establishment of fees, charges, and penalties, burning regulations, prohibition of littering, enforcement authority
Clifford Village	Ordinance	Collection and disposal of waste, establishment of fees and charges
Imlay City	Ordinance	Collection and disposal of waste, container specifications, licensure of haulers, inspection authority, establishment of fees and penalties, recycling container location
North Branch Village	Ordinance	Collection and disposal of waste, establishment of penalties

MUNICIPAL FUNDING MECHANISMS

No funding mechanisms obtained.

COUNTY ORDINANCES

No county ordinances obtained.

COUNTY FUNDING MECHANISMS

No county funding 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)
Almont township	4,086	1,852	133	156	1,563
Almont village	2,802	1,399	220	107	1,072
Arcadia township	3,109	1,409	101	119	1,190
Attica CDP	915	415	30	35	350
Attica township	3,805	1,724	123	145	1,456
Barnes Lake CDP	651	274	0	25	249
Brown City city	3	1	0	0	1
Burlington township	1,143	518	37	44	437
Burnside township	1,963	890	64	75	751
Clifford village	305	138	10	12	117
Columbiaville village	768	383	60	29	294
Deerfield township	4,379	1,985	142	167	1,676
Dryden township	3,426	1,553	111	131	1,311
Dryden village	1,331	603	43	51	509
Elba township	5,216	2,364	169	199	1,996
Goodland township	1,847	837	60	70	707
Hadley township	4,501	2,040	146	172	1,722
Imlay City city	3,585	1,790	282	137	1,372
Imlay township	3,115	1,555	245	119	1,192
Lapeer city	8,626	4,098	469	329	3,301
Lapeer township	5,036	2,515	396	192	1,927
Marathon township	3,438	1,558	112	131	1,316
Mayfield township	7,916	3,588	257	302	3,029
Metamora township	3,609	1,802	284	138	1,381
Metamora village	664	301	22	25	254
Millers Lake CDP	656	276	0	25	251
North Branch township	2,587	1,172	84	99	990
North Branch village	974	441	32	37	373
Oregon township	5,740	2,727	312	219	2,196
Otter Lake village	303	137	10	12	116
Rich township	1,467	665	48	56	561
TOTAL	87,966	41,010	4,002	3,358	33,660

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)
Lapeer	17,009	24,535	2,895	21,641

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) ^{Error!} Bookmark not defined.	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Lapeer	65,547	10,247	55,300

SANILAC 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

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- 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

Sanilac County owns and operates a county recycling facility and hosts household hazardous waste 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. Programs and services are offered by a different entity other than the municipality and are noted in the tables.

TRASH

Several communities in the county provide residents with access to curbside trash collection through contracted haulers. Any resident in the county can drop-off trash at the Waste Management Tri-City RDF Management Facility.

RECYCLING

Most communities that provide residents with access to contracted curbside trash access also provide residents with access to curbside recycling. All county residents can access drop-off recycling services through the Sanilac County Recycling Center. The drop-off program accepts materials such as paper, cardboard, plastics #1 & #2, metal cans and foil.

YARD WASTE

Common yard waste materials, such as brush and leaves, can be collected curbside by contracted or municipal haulers in several communities. All residents in the county can drop-off trash at the Waste Management Tri-City RDF Management Facility.

HOUSEHOLD HAZARDOUS WASTE

Sanilac County Free Hazardous Waste & Tire Collection events provide residents with access to drop-off services for materials such as automotive fluids, motor oil, anti-freeze, mercury, tires, oil-based paint, lawn chemicals, household cleaners, electronics, fluorescent bulbs, single-use propane tanks, and aerosol cans.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- Emterra Environmental USA
- GFL Environmental
- Jeff's Rubbish Disposal
- Knox Disposal
- Lexington Village
- Sandusky DPW
- Waste Management

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Applegate village	Emterra - contract			
Argyle township	Script			
Austin township	Script			
Bridgehampton township				
Brown City city (part)				
Buel township				
Carsonville village	Emterra			
Croswell city	Jeff's Rubbish Disposal Inc	Jeff's Rubbish Disposal Inc.	Jeff's Rubbish Disposal Inc	
Custer township				
Deckerville village	Knox Disposal now GFL			
Delaware township				
Elk township				
Elmer township				
Evergreen township				
Flynn township				
Forester township				
Forestville village	Waste Management			
Fremont township				
Greenleaf township				
Lamotte township				
Lexington township				
Lexington village	Emterra Environmental USA	Emterra Environmental USA	Lexington Village Yard Waste Pickup	

Maple Valley township				
Marion township				
Marlette city	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental	
Marlette township				
Melvin village				
Minden township				
Minden City village	Emterra			
Moore township				
Peck village				
Port Sanilac village	Emterra Environmental	Emterra Environmental	Emterra Environmental	
Sanilac township				
Speaker township				
Sandusky city	Waste Management Inc.	Waste Management Inc.	Sandusky DPW	
Snover CDP				
Washington township	GFL Environmental	GFL Environmental		
Watertown township				
Wheatland township				
Worth 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
Applegate village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Argyle township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Austin township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Brown City city	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Buel township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Carsonville village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Croswell city	WM Tri-City RDF Management Facility	Sanilac County Recycling Center – Croswell Drop-off	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Custer township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Deckerville village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Elmer township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Evergreen township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection

Flynn township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Forester township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Forestville village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Fremont township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Greenleaf township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center – Greenleaf Township Drop-off	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Lamotte township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Lexington village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Maple Valley township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Marlette city	WM Tri-City RDF Management Facility	Sanilac County Recycling Center – Marlette Drop-off	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Marlette township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center – Marlette Drop-off	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Melvin village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Minden City village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection

Peck village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Port Sanilac village	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Bridgehampton township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Delaware township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Elk township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Lexington township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Marion township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Minden township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Moore township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Sanilac township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Speaker township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Washington township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection

Sandusky city	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Snover CDP	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Watertown township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Wheatland township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection
Worth township	WM Tri-City RDF Management Facility	Sanilac County Recycling Center - Sandusky	WM Tri-City RDF Management Facility		Sanilac County Free Hazardous Waste & Tire Collection

FACILITIES

MATERIALS MANAGEMENT FACILITIES IN COUNTY

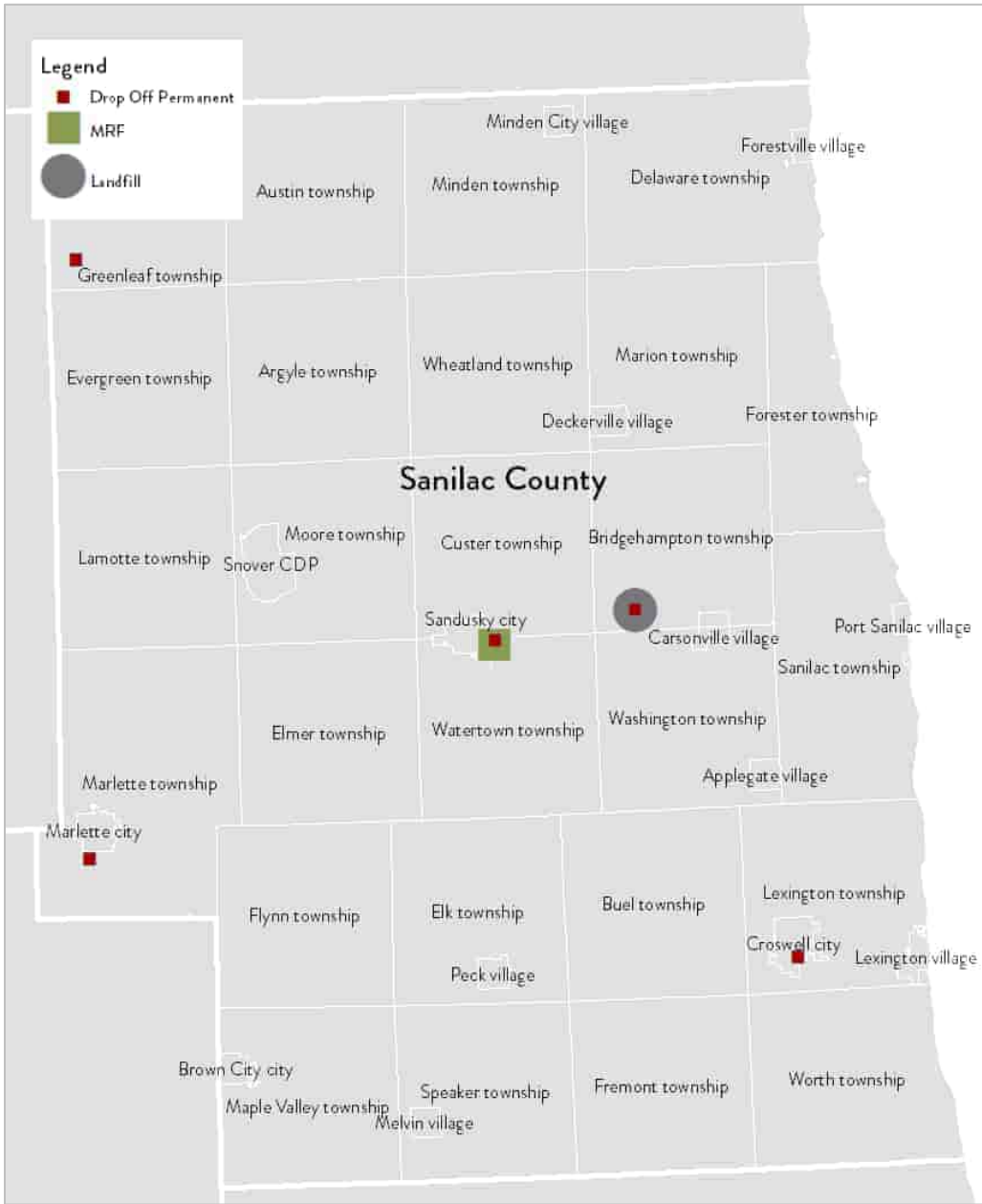
FACILITY SUMMARY TABLE

FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Drop-off (WDC, T)	Sanilac County Recycling Center	150 Orval Street	Sandusky	Permanent Drop-off
Drop-off (T)	County Recycling Drop-off - Marlette	Airport Road	Marlette	Permanent Drop-off
Drop-off (T)	County Recycling Drop-off – Croswell (Michigan Sugar)	159 S Howard Ave	Croswell	Permanent Drop-off
Drop-off (T)	County Recycling Drop-off – Greenleaf Township	Corner of M-53 and M-81	Greenleaf Township	Permanent Drop-off
Drop-off (WDC, B, T, C&D, O)	Tri-City Recycling and Disposal Facility - Waste Management	426 North Ruth Road	Carsonville	Permanent Drop-off
Sorting Facility	Sanilac County Recycling Center	150 Orval Street	Sandusky	

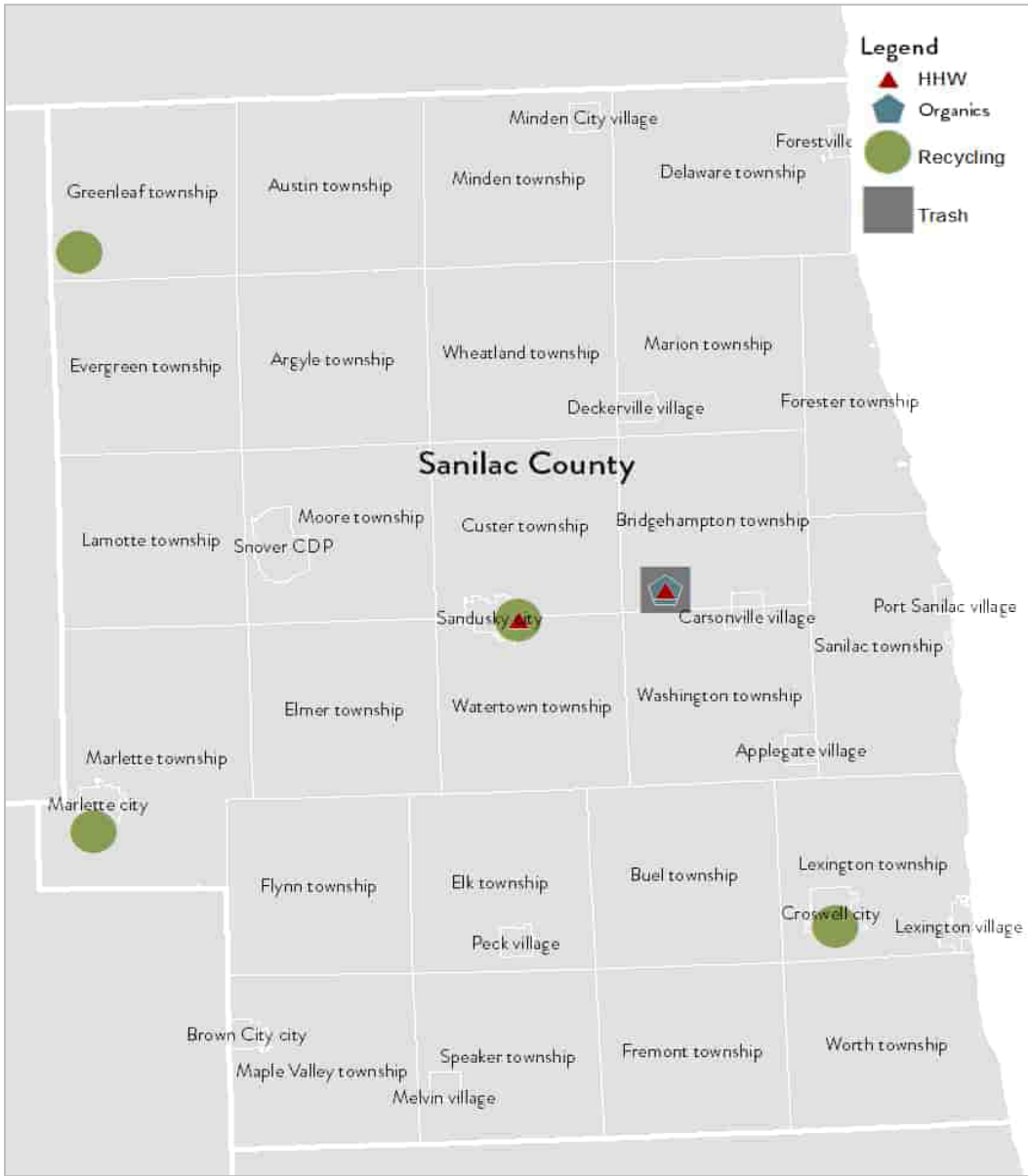
Landfill	Tri-City / Michigan Waste Landfill	426 N Ruth Road	Carsonville	
End Market	Destiny Plastics - Deckerville	2121 Stoutenberg st	Deckerville	

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 MAP BY TYPE



POLICY

MUNICIPAL ORDINANCES

Municipality	Policy type	Requirement
Carsonville village	Ordinance	-Installation of Fencing around Solid Waste Facilities -Licensed Solid Waste Disposal Facilities Must Properly Store and Dispose of Solid Waste -Mandated Refuse Collection through Village of Carsonville
Croswell city	Ordinance	Mandated Refuse Collection through City-Approved Contractors, Proper Storage and Disposal of Solid Waste
Deckerville village	Ordinance	Proper Storage and Disposal of Refuse
Forestville village	Ordinance	Proper Storage and Disposal of Refuse

MUNICIPAL FUNDING MECHANISMS

Municipality	Waste Collection	Recycling Collection	Organics Collection	Bulky Item Collection
Marlette city	Municipal Utility/ Service Fees			
Carsonville Village	Municipal Utility/Service Fees			
Applegate village		Legislative Authorized Millages		

COUNTY ORDINANCES

No county ordinances obtained.

COUNTY FUNDING MECHANISM

County	Type	Additional Information
Sanilac County	Voter Approved Millage	The program used to receive funds from a landfill host community agreement and also used inmates as sorters through the Sherriff's Department, but do not any longer. Voter approved millage has passed twice to support the recycling center operations.

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)
Applegate village	229	104	7	9	88
Argyle township	569	258	18	22	218
Austin township	618	280	20	24	236
Bridgehampton township	701	318	23	27	268
Brown City city	1,187	538	39	45	454
Buel township	1,048	475	34	40	401
Carsonville village	343	155	11	13	131
Carsonville village	143	65	5	5	55
Croswell city	2,402	1,199	189	92	919
Custer township	850	385	28	32	325
Deckerville village	903	409	29	34	346
Delaware township	657	298	21	25	251
Elk township	817	370	27	31	313
Elmer township	714	324	23	27	273
Evergreen township	1,041	472	34	40	398
Flynn township	1,156	524	38	44	442
Forester township	907	411	29	35	347
Forestville village	126	57	4	5	48
Fremont township	868	393	28	33	332
Greenleaf township	657	298	21	25	251
Lamotte township	1,003	455	33	38	384
Lexington township	2,306	1,045	75	88	882
Lexington village	1,180	589	93	45	452
Maple Valley township	1,484	673	48	57	568
Marion township	713	323	23	27	273
Marlette city	2,002	1,000	157	76	766
Marlette township	1,604	727	52	61	614
Melvin village	193	87	6	7	74
Minden City village	182	82	6	7	70
Minden township	431	195	14	16	165
Moore township	773	350	25	29	296
Peck village	617	280	20	24	236
Port Sanilac village	654	327	51	25	250
Sandusky city	2,796	1,396	220	107	1,070
Sanilac township	1,600	725	52	61	612

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Snover CDP	300	136	10	11	115
Speaker township	1,197	542	39	46	458
Washington township	857	388	28	33	328
Watertown township	1,327	601	43	51	508
Wheatland township	403	183	13	15	154
Worth township	3,630	1,645	118	138	1,389
TOTAL	41,188	19,082	1,754	1,570	15,760

COMMERCIAL WASTE PROJECTIONS

County	Approximate Number of Employees	Total Waste Generation (Tons)	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Sanilac	7,835	74,946	1,333	73,612

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) Bookmark not defined.	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Sanilac	94,029	4,657	89,373

TUSCOLA COUNTY

PROFILE | FEBRUARY 2023



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

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- 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

Tuscola County owns and operates a recycling facility, provides trailers for drop-off recycling in townships, provides collection to businesses in the county, and collects tires, electronics, and hazardous waste. The program is funded by a millage.

MUNICIPAL PROGRAM AND SERVICES OVERVIEW

Programs and services offered or provided by communities for their residents are summarized in two tables. One features curbside services and the other drop-off services. Only communities with information are listed in the tables.

TRASH

About 76% of the population has access to curbside trash collection 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. Wisner Township Transfer Station also allows residents to drop-off trash.

RECYCLING

Most communities that provide residents with access to curbside trash services through a contracted hauler also provide access to curbside recycling services. However, all of Tuscola County can access drop-off recycling services through Tuscola County Recycling. This drop-off program accepts materials such as paper, cardboard, cartons, clear glass, plastics #1, #2, and #6, metal cans and scrap.

YARD WASTE

Common yard waste materials, such as brush and leaves, can be collected curbside for several communities' residents through municipal or contracted haulers. Some townships accept yard waste materials at local drop-off sites.

HOUSEHOLD HAZARDOUS WASTE

Tuscola County Recycling provides residents with household hazardous waste collection events, which accept materials such as motor oil, anti-freeze, tires, batteries, paint, lawn chemicals, electronics, tube televisions, and fluorescent bulbs.

OTHER

No information obtained about Other programs.

LIST OF ACTIVE HAULERS

- Caro City DPW
- Cass City Village DPW
- Emterra Environmental USA
- GFL Environmental
- Mayville DPW
- Republic Services
- Waste Management

CURBSIDE SERVICES BY COMMUNITY

MUNICIPALITY NAME	TRASH COLLECTOR	RECYCLING COLLECTOR	YARD WASTE COLLECTOR	OTHER CURBSIDE SERVICES
Akron village	Republic Services Inc.	Republic Services Inc.		
Akron township	Emterra Environmental USA	Emterra Environmental USA		
Almer township	GFL Environmental	GFL Environmental		
Arbela township	GFL Environmental	GFL Environmental		
Caro City	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA, Caro City DPW	
Cass City village	Emterra Environmental USA	Emterra Environmental USA	Emterra Environmental USA, Cass City Village DPW	
Ellington township	Emterra Environmental USA			
Fairgrove village	Republic Services	GFL Environmental		
Fostoria CDP				
Gagetown village	Emterra			
Gilford township	Republic Services Inc.	Republic Services Inc.		
Juniata township	Emterra Environmental USA			
Kingston village				
Mayville village	Republic Services Inc.	Republic Services Inc.	Mayville DPW	
Millington village	Republic Services Inc.	Republic Services Inc.	Republic Services Inc.	
Reese village	GFL Environmental	GFL Environmental	GFL Environmental USA	

Columbia township	Emterra Environmental USA	Emterra Environmental USA		
Dayton township	Waste Management Inc.			
Denmark township	Waste Management Inc.			
Elkland township				
Elmwood township				
Fairgrove township	GFL Environmental	GFL Environmental		
Fremont township	Republic Services Inc.			
Indianfields township	Emterra Environmental USA	Emterra Environmental USA		
Kingston township				
Koylton township				
Millington township	Republic Services Inc.	Republic Services Inc.		
Novesta township				
Watertown township				
Tuscola township	Republic Services Inc.	Republic Services Inc.	Republic Services Inc.	
Unionville village	Emterra Environmental USA	Emterra Environmental USA		
Vassar city	Republic Services Inc.	Republic Services Inc.	Republic Services Inc.	
Vassar township		Republic Services Inc.		
Wells township	Emterra Environmental USA	Emterra Environmental USA		
Wisner township	Emterra Environmental USA	Emterra Environmental USA		

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
Akron village		Tuscola County Recycling			Tuscola County Recycling
Arbela township		Tuscola County Recycling			Tuscola County Recycling
Caro village		Tuscola County Recycling			Tuscola County Recycling
Cass City village		Tuscola County Recycling			Tuscola County Recycling
Ellington township		Tuscola County Recycling			Tuscola County Recycling
Fairgrove village		Tuscola County Recycling			Tuscola County Recycling
Fostoria CDP		Tuscola County Recycling			Tuscola County Recycling
Gagetown village		Tuscola County Recycling			Tuscola County Recycling
Gilford township		Tuscola County Recycling			Tuscola County Recycling
Juniata township		Tuscola County Recycling	Juniata Township Sheridan Rd Dump		Tuscola County Recycling
Kingston village		Tuscola County Recycling			Tuscola County Recycling
Mayville village		Tuscola County Recycling			Tuscola County Recycling

Millington village		Tuscola County Recycling			Tuscola County Recycling
Reese village		Tuscola County Recycling			Tuscola County Recycling
Akron township		Tuscola County Recycling			Tuscola County Recycling
Almer township		Tuscola County Recycling	Almer Township Luder Rd Facility		Tuscola County Recycling
Columbia township		Tuscola County Recycling			Tuscola County Recycling
Dayton township		Tuscola County Recycling			Tuscola County Recycling
Denmark township		Tuscola County Recycling			Tuscola County Recycling
Elkland township		Tuscola County Recycling			Tuscola County Recycling
Elmwood township		Tuscola County Recycling			Tuscola County Recycling
Fairgrove township		Tuscola County Recycling			Tuscola County Recycling
Fremont township		Tuscola County Recycling			Tuscola County Recycling
Indianfields township		Tuscola County Recycling			Tuscola County Recycling
Kingston township		Tuscola County Recycling			Tuscola County Recycling
Koylton township		Tuscola County Recycling			Tuscola County Recycling
Millington township		Tuscola County Recycling			Tuscola County Recycling

Novesta township		Tuscola County Recycling			Tuscola County Recycling
Watertown township		Tuscola County Recycling	Watertown Township Brush Dump		Tuscola County Recycling
Tuscola township		Tuscola County Recycling			Tuscola County Recycling
Unionville village		Tuscola County Recycling			Tuscola County Recycling
Vassar city		Tuscola County Recycling			Tuscola County Recycling
Vassar township		Tuscola County Recycling			Tuscola County Recycling
Wells township		Tuscola County Recycling			Tuscola County Recycling
Wisner township	Wisner Township Transfer Station	Tuscola County Recycling			Tuscola County Recycling

FACILITIES

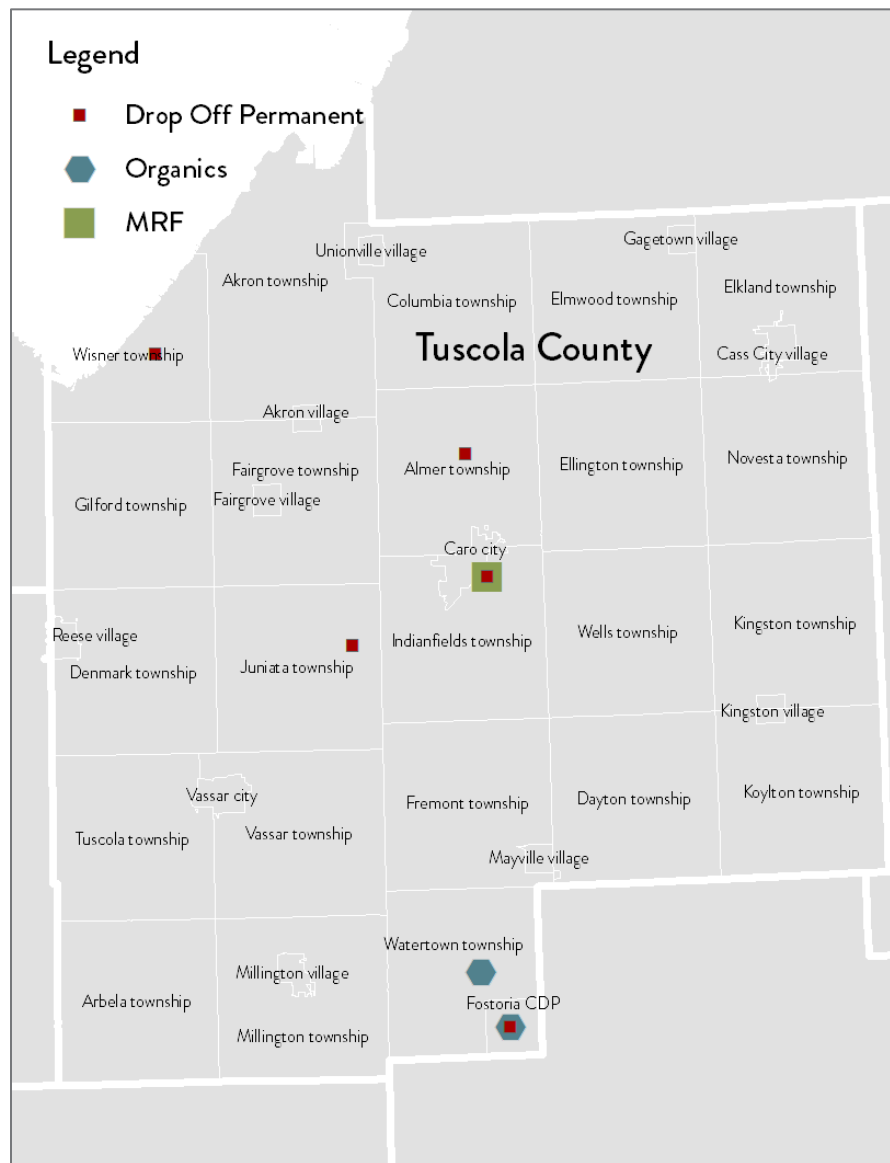
MATERIALS MANAGEMENT FACILITIES IN COUNTY

FACILITY SUMMARY TABLE

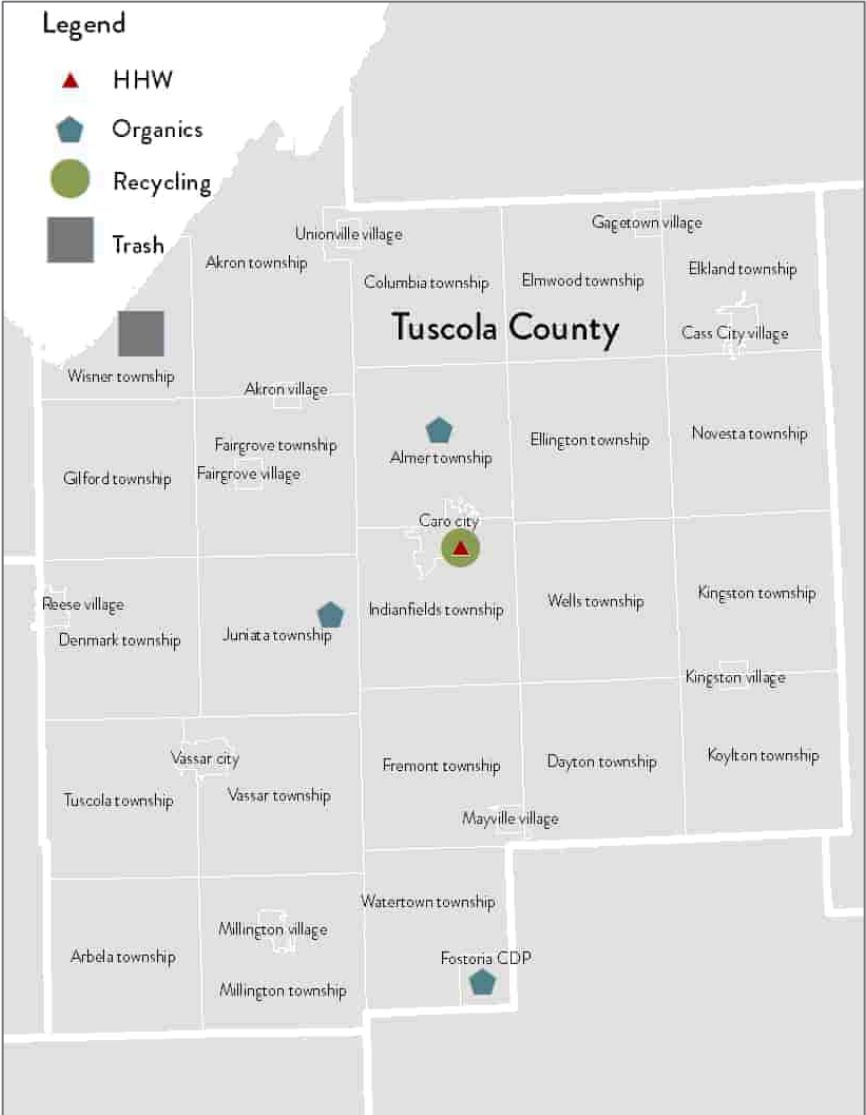
FACILITY TYPE	FACILITY NAME	FACILITY ADDRESS	CITY	PERMANENT OR TEMPORARY
Compost	Alpha Acre Farms	1370 W Millington Road	Fostoria	
Compost (Yard Waste)	Watertown Township Brush Dump			
Drop-off (O)	Almer Township - Luder Rd Facility			Permanent Drop-off
Drop-off (O)	Juniata Township Brush Dump	2216 S Sheridan Rd	Caro	Permanent Drop-off
Drop-off (WDC, T, NT)	Tuscola County Recycling MRF	987 Ellington St	Caro	Permanent Drop-off
Drop-off (O)	Watertown Township Brush Dump			Permanent Drop-off
Drop-off (B)	Wisner Township Transfer Station	7894 Bay City Forestville Rd	Akron	Permanent Drop-off
MRF	Tuscola County Recycling	987 Ellington St (M24)	Caro	

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



FACILITIES BY MATERIAL TYPE



POLICY

MUNICIPAL ORDINANCES

Municipality	Policy type	Description
Akron Township	Ordinance	Collection and disposal of municipal wastes, receptacle specifications, industrial and commercial waste regulations, establishment of rates, charges, and penalties
Akron Village	Ordinance	Collection and disposal of waste, collection of payment, establishment of penalties
Caro village	Ordinance	Collection and disposal of waste, dumpster specifications, prohibition of littering, dumping, and scavenging, receptacle specifications, establishment of charges
Cass City village	Ordinance	Collection and disposal of waste, illegal dumping
Mayville Village	Ordinance	Collection and disposal of waste, receptacle specifications, authorized collectors, storage of waste, establishment of fees
Millington Township	Ordinance	Collection and disposal of waste
Millington Village	Ordinance	Collection and disposal of waste, container specifications, collection procedures, burning regulations
Unionville Village	Ordinance	Collection and disposal of waste, container specifications
Vassar City	Ordinance	Collection and disposal of waste, pre-collection and collection practices, container specifications, establishment of fees, burning regulations

MUNICIPAL FUNDING MECHANISMS

Municipality	Waste Collection	Recycling Collection	Organics Collection	Bulky Item Collection
Akron village		Legislatively Authorized Millages		
Butman township	Municipal Utility/ Service Fees	Municipal Utility/ Service Fees	Municipal Utility/ Service Fees	
Cass City Village	Municipal Utility/ Service Fees	Municipal Utility/ Service Fees	Municipal Utility/ Service Fees	

Gagetown village	Municipal Utility/ Service Fees			
Millington village	Municipal Utility/ Service Fees			
Unionville village	Municipal Utility/ Service Fees			
Wisner township	Legislatively Authorized Millages			

COUNTY ORDINANCES

No county ordinances obtained.

COUNTY FUNDING MECHANISM

County	Type	Additional Information
Tuscola County	Millage	Funds the County Recycling Center operations.

DATA

REPORTED DATA

Tuscola County tracks [recycling data](#) for their facility.

RESIDENTIAL WASTE PROJECTIONS

Municipality	Population	Total Waste Generation (Tons) ¹	Total Recyclable Diversion (Tons)	Total Organics Diversion (Tons)	Total Requiring Disposal (Tons)
Akron township	1,219	609	96	46	466
Akron village	234	117	18	9	90
Akron village	144	72	11	5	55
Almer township	2,226	1,009	72	85	852
Arbela township	2,941	1,333	95	112	1,125
Caro city	4,024	2,009	316	153	1,540
Cass City village	2,288	1,142	180	87	875
Columbia township	677	338	53	26	259
Dayton township	1,988	901	65	76	761
Denmark township	1,559	707	51	59	597
Elkland township	1,042	472	34	40	399
Ellington township	1,129	512	37	43	432
Elmwood township	856	388	28	33	328
Fairgrove township	833	416	65	32	319
Fairgrove village	500	238	27	19	191
Fostoria CDP	752	341	24	29	288
Fremont township	2,318	1,051	75	88	887
Gagetown village	272	123	9	10	104
Gilford township	764	363	42	29	292
Indianfields township	2,537	1,267	199	97	971
Juniata township	1,663	754	54	63	636
Kingston township	997	452	32	38	381
Kingston village	300	136	10	11	115
Kingston village	56	25	2	2	21
Koylton township	1,323	600	43	50	506
Mayville village	827	413	65	32	316
Millington township	3,127	1,561	246	119	1,197
Millington village	983	491	77	37	376
Novesta township	1,236	560	40	47	473
Reese village	1,339	669	105	51	512
Tuscola township	1,954	976	153	74	748
Unionville village	654	327	51	25	250

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

Vassar city	2,549	1,273	200	97	975
Vassar township	3,912	1,953	307	149	1,497
Watertown township	1,348	611	44	51	516
Wells township	1,568	783	123	60	600
Wisner township	544	272	43	21	208
TOTAL	52,683	25,264	3,092	2,005	20,158

COMMERCIAL WASTE PROJECTIONS

County	Approximate Number of Employees	Total Waste Generation (Tons)	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Tuscola	8,233	11,122	1,401	9,721

TOTAL WASTE GENERATED PROJECTIONS

County	Total Waste Generation (Tons) Error! Bookmark not defined.	Total Diversion (Tons)	Total Requiring Disposal (Tons)
Tuscola	36,383	6,503	29,880

APPENDIX C

Materials Management Facility Acknowledgement Forms



Huron, Lapeer, Sanilac, and Tuscola Counties

February 9, 2026

Via Email

Re: Inclusion in Materials Management Plan (MMP) pursuant to MCL 324.11578(g)

Dear: Materials Management Facility Representative

The Thumb Region Materials Management Planning Committee (MMPC) has identified your facility as managing materials generated within the Thumb Region planning area, which consists of Huron, Lapeer, Sanilac and Tuscola counties.

Pursuant to Part 115 of the Natural Resources and Environmental Protection Act, and specifically MCL 324.11578(g), MMPs shall include a written acknowledgement indicating that the owner or operator of a materials management facility is aware of the proposed inclusion of the facility in the MMP and that the facility has the indicated capacity to manage the materials identified.

On the following page, please complete the information regarding materials generated within the Thumb Region that may be managed at your facility and available capacity for said materials.

When completed, please return electronic copy of completed form to Mike Miller at mmiller@tuscolacounty.org. Kindly return your responses by **March 13, 2026**.

Thank you in advance for assisting the Thumb Region in meeting our materials management goals.

Sincerely,

Members of the Thumb Region MMPC

Facility Name: Arbor Hills Landfill

Facility Address: 10699 West Six Mile Road, Northville, MI 48168

Facility Area: 373 acres

Managed materials:

Solid waste:	☒ MSW	☒ C&D	☒ IW	☐ TENORM
Recyclables:	☐ Glass	☐ Metals	☐ Paper	☐ Plastic
Organics:	☒ Yard waste	☐ Food waste		
E-scrap:	☐ Electronics	☐ Batteries	☐ Appliances	
Other:	☐ HHW	☐ Scrap tires		

Additional managed materials:

Processes for handling materials at the facility:

Type II MSW Landfilling

Windrow Composting of Yard Waste

Available Capacity:

Solid waste:	<u>~7,000,000</u>	☒ cubic yards	☐ cubic yards/year
Recyclables:	_____	☐ cubic yards/year	☐ tons/year
Organics:	<u>130,000</u>	☒ cubic yards/year	☐ tons/year

Notes on available capacity:

Acknowledgement

<u>Dave Seegert</u>	<u>General Manager</u>
Facility Representative	Title



Signature

<u>3/10/2026</u>
Date

District Manager

Title

6/23/26

Date

Facility Name: _____ Citizens Disposal Landfill _____
Facility Address: _____ 2361 W Grand Blanc Rd, Grand Blanc MI 48439 _____
Facility Area: _____ 236.5 _____ acres

Managed materials:

Solid waste: ☒ MSW ☒ C&D ☒ IW ☒ TENORM
Recyclables: ☐ Glass ☐ Metals ☐ Paper ☐ Plastic
Organics: ☐ Yard waste ☐ Food waste
E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances
Other: ☐ HHW ☒ Scrap tires

Additional managed materials:

None _____

Processes for handling materials at the facility:

Non-hazardous waste permitted for disposal under Part 115 rules; asbestos accepted in accordance with NESHAP regulations. _____

Available Capacity:

Solid waste: _____ 4,135,900 _____ ☒ cubic yards ☐ cubic yards/year
Recyclables: _____ 0 _____ ☐ cubic yards/year ☐ tons/year
Organics: _____ 0 _____ ☐ cubic yards/year ☐ tons/year

Notes on available capacity:

_____ None _____

Acknowledgement

_____ Jim Brazil _____
Facility Representative

_____ *James Brazil* _____
Signature

_____ General Manager _____
Title

_____ 5/6/2026 _____
Date

Facility Name: Emterra Environmental USA Materials Recovery Facility (MRF)

Facility Address: 1159 S Pennsylvania Ave, Lansing, MI 48912

Facility Area: 2.16 acres

Managed materials:

Solid waste: ☐ MSW ☐ C&D ☐ IW ☐ TENORM

Recyclables: ☒ Glass ☒ Metals ☒ Paper ☒ Plastic

Organics: ☐ Yard waste ☐ Food waste

E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances

Other: ☐ HHW ☐ Scrap tires

Additional managed materials:

Processes for handling materials at the facility:

Materials are received at the facility via collection vehicles or roll-off trucks and tipped
inside the building on the tipping floor. Materials are pushed up using a loader onto a
conveyor belt which feeds into the processing/sorting equipment. Materials are then baled
and stored onsite by material type until there is enough for a full truckload.

Available Capacity:

Solid waste: _____ ☐ cubic yards ☐ cubic yards/year

Recyclables: 35,000 _____ ☐ cubic yards/year ☒ tons/year

Organics: _____ ☐ cubic yards/year ☐ tons/year

Notes on available capacity:

Approximately 24,000 tons/year of our available capacity is currently utilized.

Acknowledgement

Rachel Thompson

Facility Representative

Rachel Thompson

Signature

Engineer

Title

3/16/2026

Date

Facility Name: Environmental Remediation Inc.
Facility Address: 2371 Graham Rd. Ironby City, MI 48444
Facility Area: 40 acres

Managed materials:

Solid waste:	☒ MSW	☒ C&D	☒ IW	☐ TENORM
Recyclables:	☐ Glass	☒ Metals	☐ Paper	☐ Plastic
Organics:	☒ Yard waste	☐ Food waste		
E-scrap:	☐ Electronics	☐ Batteries	☐ Appliances	
Other:	☐ HHW	☐ Scrap tires		

Additional managed materials:

Scrap Wood Recycling

Processes for handling materials at the facility:

Transfer station + sorting facility for the MSW, C&D, and IW
Compost site for yard waste
Scrap metal recycling

Available Capacity:

Solid waste:	<u>50,000</u>	☐ cubic yards	☒ cubic yards/year
Recyclables:	<u>10,000</u>	☐ cubic yards/year	☒ tons/year
Organics:	<u>50,000</u>	☐ cubic yards/year	☒ tons/year

Notes on available capacity:

Acknowledgement

ISRAEL PEREZ
Facility Representative

[Signature]
Signature

Owner
Title

3.3.26
Date

Facility Name: Huron Landfill Corp - dba Huron Landfill
Facility Address: 4151 S McMillan Rd, Bad Axe, MI 48413
Facility Area: 91.3 acres

Managed materials:

Solid waste: ☒ MSW ☒ C&D ☒ IW ☐ TENORM
Recyclables: ☒ Glass ☒ Metals ☒ Paper ☒ Plastic
Organics: ☒ Yard waste ☐ Food waste
E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances
Other: ☐ HHW ☒ Scrap tires

Additional managed materials:

Processes for handling materials at the facility:

MSW, C&D and IW is managed in accordance with Part 115 and the facility's Operating Plan for a Type II landfill. Yard waste is managed onsite in a static aerated pile in accordance with the facility's Operating Plan. Ground and finished compost is utilized on-site for mixing topsoil for interim cover.

Recyclables are accepted at the gate and stored in a leak-proof dumpster until being transported offsite to Emterra's MRF in Lansing.

Available Capacity:

Solid waste: 1,892,182 ☒ cubic yards ☐ cubic yards/year
Recyclables: _____ ☐ cubic yards/year ☐ tons/year
Organics: 3,000 ☒ cubic yards/year ☐ tons/year

Notes on available capacity:

The facility can manage up to 3,000 cubic yards of yard waste at any time which requires about 1 year of processing prior to becoming finished compost.

Acknowledgement

Rachel Thompson
Facility Representative

Rachel Thompson
Signature

Engineer
Title

3/16/2026
Date

Facility Name: Indian Summer Recycling, Inc _____

Facility Address: 5877 Bethuy Casco Twp, MI _____

Facility Area: _____ 28+ _____ acres

Managed materials:

Solid waste:	☐ MSW	☐ C&D	☐ IW	☐ TENORM
Recyclables:	☐ Glass	☐ Metals	☐ Paper	☐ Plastic
Organics:	☒ Yard Waste	☐ Food waste		
E-scrap:	☐ Electronics	☐ Batteries	☐ Appliances	
Other:	☐ HHW	☐ Scrap tires		

Additional managed materials:

Processes for handling materials at the facility:

___ Windrow Composting _____

Available Capacity:

Solid waste:	_____	☐ cubic yards	☐ cubic yards/year
Recyclables:	_____	☐ cubic yards/year	☐ tons/year
Organics:	___ 40000 _____	☐ cubic yards/year	☒ xx tons/year

Notes on available capacity:

Acknowledgement

Frederick J. Thompson
Facility Representative

President
Title


Signature

4/12/26
Date

Date _____

324.11578(h): Facility Description

Longitude: -82.74601 W Latitude: 42.76439 N

Liquid Wastes

Type II, Municipal Solid Waste Landfill; Recycling Drop-off; Solidification

Based upon current volumes, estimated remaining Site Life of 6 years

Date _____

**SUBPART 11 OF ACT 451 OF 1994, PART 115
MATERIAL MANAGEMENT PLANS**

324.11578(h): Facility Description

Facility Name: Tri-City Landfill
Facility Owner: Waste Management of Michigan, Inc.
Facility Address: 426 North Ruth Road, Carsonville, MI 48419
Facility Area: 195.4 acres
Longitude: -82.73161 degrees West Latitude: 43.43698 degrees North

Managed materials:

Solid waste: ☒ MSW ☒ C&D ☒ IW ☒ TENORM
Recyclables: ☒ Glass ☒ Metals ☒ OCC/Paper ☒ Plastic
Organics: ☐ Yard waste ☐ Food waste
E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances
Other: ☐ HHW ☒ Scrap tires

Additional managed materials:

Nonhazardous Liquid Wastes

Processes for handling materials at the facility:

Type II, Municipal Solid Waste Landfill; Recycling Drop-off; Solidification

Available Capacity:

Solid waste: 16,475,000 ☒ cubic yards ☐ cubic yards/year
Recyclables: 6 ☐ cubic yards/year ☒ tons/year
Organics: 5,000 ☒ cubic yards/year ☐ tons/year

Notes on available capacity:

Based upon current volumes, estimated remaining Site Life of 437 years.

324.11578(g): Material Management Facility Acknowledgement

John Gall
Facility Representative

Signature

Senior District Manager
Title
6/24/2026
Date

Facility Name: TUSCOLA County Recycling
Facility Address: 987 Ellington ST
Facility Area: 10 acres

Managed materials:

Solid waste: ☐ MSW ☐ C&D ☐ IW ☐ TENORM
Recyclables: ☒ Glass ☒ Metals ☒ Paper ☒ Plastic
Organics: ☐ Yard waste ☐ Food waste
E-scrap: ☒ Electronics ☒ Batteries ☒ Appliances
Other: ☒ HHW ☒ Scrap tires

Additional managed materials:

Processes for handling materials at the facility:

Everything is sorted by hand and then baled for
shipment.

Available Capacity:

Solid waste: _____ ☐ cubic yards ☐ cubic yards/year
Recyclables: 600 ☐ cubic yards/year ☒ tons/year
Organics: _____ ☐ cubic yards/year ☐ tons/year

Notes on available capacity:

We have room for more, but lack the processing

Acknowledgement

Mike Miller
Facility Representative
[Signature]
Signature

Recycling Director
Title
7/17/2026
Date

Title _____

Date 6/24/2026

SUBPART 11 OF ACT 451 OF 1994, PART 115
MATERIAL MANAGEMENT PLANS

324.11578(h): Facility Description

Facility Name: Waters Landfill
Facility Owner: City Environmental Services, Inc. of Waters
Facility Address: 11375 Sherman Rd; Frederic MI 49733
Facility Area: 271 acres
Longitude: -84.66703 W Latitude: 44.84963 N

Managed materials:

Solid waste: ☒ MSW ☒ C&D ☒ IW ☒ TENORM
Recyclables: ☒ Glass ☒ Metals ☒ OCC/Paper ☒ Plastic
Organics: ☐ Yard waste ☐ Food waste
E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances
Other: ☐ HHW ☐ Scrap tires

Additional managed materials:

Non-hazardous Liquid Wastes

Processes for handling materials at the facility:

Type II, Municipal Solid Waste Landfill; Recycling Drop-off; Solidification

Available Capacity:

Solid waste: 14,158,068 ☒ cubic yards ☐ cubic yards/year
Recyclables: ☐ cubic yards/year ☒ tons/year
Organics: ☐ cubic yards/year ☒ tons/year

Notes on available capacity:

Based upon current volumes, estimated remaining Site Life of 179 years

324.11578(g): Material Management Facility Acknowledgement

James Palmer
Facility Representative

Signature

District Manager
Title

Date

6-15-20

Facility Name: _____ Whitefeather Landfill _____
Facility Address: _____ 2401 E Whitefeather Rd, Pinconning MI 48650 _____
Facility Area: _____ 111 _____ acres

Managed materials:

Solid waste: ☒ MSW ☒ C&D ☒ IW ☒ TENORM
Recyclables: ☐ Glass ☐ Metals ☐ Paper ☐ Plastic
Organics: ☒ Yard waste ☐ Food waste
E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances
Other: ☐ HHW ☒ Scrap tires

Additional managed materials:

_____ Scrap tires are hauled but transported to a third-party location for disposal.

Processes for handling materials at the facility:

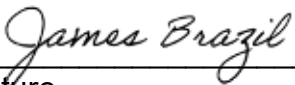
Non-hazardous waste permitted for disposal under Part 115 rules; asbestos accepted in
accordance _____ with _____ NESHAP
regulations. _____

Available Capacity:

Solid waste: _____ 538,300 _____ ☒ cubic yards ☐ cubic yards/year
Recyclables: _____ ☐ cubic yards/year ☐ tons/year
Organics: _____ 1,000 _____ ☐ cubic yards/year ☒ tons/year

Notes on available capacity:

Acknowledgement

_____ Jim Brazil _____
Facility Representative


Signature

_____ General Manager _____
Title

5/6/2026

Date

324.11578(h): Facility Description

Longitude: 83.383 W Latitude: 42.274 N

Solid waste: ☒ MSW ☒ C&D ☒ IW ☐ TENORM
 Recyclables: ☒ Glass ☒ Metals ☒ OCC/Paper ☒ Plastic
 Organics: ☐ Yard waste ☐ Food waste
 E-scrap: ☐ Electronics ☐ Batteries ☐ Appliances
 Other: ☐ HHW ☐ Scrap tires
 Additional managed materials:

Type II, Municipal Solid Waste Landfill; Recycling Drop-off;

Solid waste: 41,381,000 ☒ cubic yards ☐ cubic yards/year
 Recyclables: _____ ☐ cubic yards/year ☐ tons/year
 Organics: _____ ☐ cubic yards/year ☐ tons/year

Based upon current volumes, estimated remaining Site Life of 19 years

324.11578(g): Material Management Facility Acknowledgement

Date _____

APPENDIX D

Community Questionnaire Responses



July 18, 2025

To: Thumb Region – Local Units of Government
Via US MAIL

Re: Materials Management Planning for Recycling and Composting in the Thumb Region
Questionnaire for Recycling and Composting Goals

To whom it may concern:

On January 8, 2024, the Department of Environment, Great Lakes, and Energy (EGLE) initiated the new materials management planning process in accordance with amendments to the Part 115, Solid Waste Management Act. The amendments require that existing county Solid Waste Management Plans be replaced with new Materials Management Plans (MMP) that focus on sustainable materials management approaches, such as recycling and composting, instead of just landfilling waste.

It is the State's goal to achieve a 45% recycling rate and, as an interim step, by 2029, a 30% recycling rate. The recycling rate focuses on the reuse of recyclable and organic materials generated by residences and commercial businesses. The new MMPs for each county must be consistent with and demonstrate progress towards meeting the State's recycling goals.

The Thumb Region, comprised of Huron, Lapeer, Sanilac and Tuscola Counties, resolved to join efforts to develop and implement a Materials Management Plan (MMP) for the region. A Materials Management Planning Committee (MMPC) was formed as required by Part 115 and meets the 3rd Wednesday of each month at 1:30 PM local time in the Peoples Building, 171 N. State St, Caro, MI 48723.

The planning process is ongoing with the development of a draft Materials Management Plan to be completed in February 2026, at which time a public comment period and hearing will be scheduled. However, to promote public involvement and buy-in, the MMPC requests and welcomes your community's feedback throughout the MMP process. Local units of government are vital partners for the success of the new Materials Management Plans.

As such, the MMPC is requesting your team complete the attached questionnaire on potential services that could be offered in your community to meet the state's mandated recycling goals. Communications can be returned to Mike Miller, Tuscola County Recycling Director and Designated Planner for the Thumb Region MMP, at mmiller@tuscolacounty.org. Kindly return your responses by **August 19, 2025**.

You are also invited to attend the in-person MMPC meetings which are open to the public. You should have been receiving emailed notices from Mr. Miller about the meetings. If you have not, please send him a message to make sure we have the correct contact information. The next meeting is scheduled for August 20, 2025.

We sincerely appreciate your input and feedback. Please feel free to contact your county's committee representative listed below with any further questions or comments.

Regards,

Thumb Region MMPC

Members:

Mary Babcock – Huron County (m2327inc@hotmail.com)

Bill Lutz – Tuscola County (blutz@tuscolacounty.org)

Gary Howell – Lapeer County (ghowell@lapeercounty.org)

Brad Haggadone – Lapeer County (bhaggadone@lapeercounty.org)

Valerie McCallum – Lake Township (supervisor@laketownship.net)

Joanne Bye – Sanilac County Recycling

Ed Dawkins – ERG Environmental

Dave Faber – Village of Sandusky

Mike Davis – Nature's Best Compost

Steve Fortune – EMCOG

Patty McNinch – Conservation District

Chuck Aurand – WM

Rachel Thompson – Emterra Environmental



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: _____

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- ☐ Recycling
- ☐ Yard Waste
- ☐ Food Waste
- ☐ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ☐ Recycling
- ☐ Yard Waste
- ☐ Food Waste
- ☐ Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- ___ Recycling
- ___ Yard Waste
- ___ Food Waste
- ___ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ___ Recycling
- ___ Yard Waste
- ___ Food Waste
- ___ Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- ___ Recycling
- ___ Yard Waste
- ___ Food Waste
- ___ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ___ Recycling
- ___ Yard Waste
- ___ Food Waste
- ___ Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- ___ Subscription by household *(Each household requests service and pays individually.)*
- ___ Millage under MCL 123.261 *(Up to 3 mills for cities and villages only)*
- ___ Other voter-approved millage *(If provided for by Statute)*
- ___ Service provider franchise agreement *(Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)*
- ___ Hauler licensing fees *(Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)*
- ___ Landfill surcharge *(Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)*

Does your community have a website or Facebook page? ☐ Yes ☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? ☐ Yes ☐ No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? ☐ Yes ☐ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

☐ Yes ☐ No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

Local Units of Government (LUG) By County

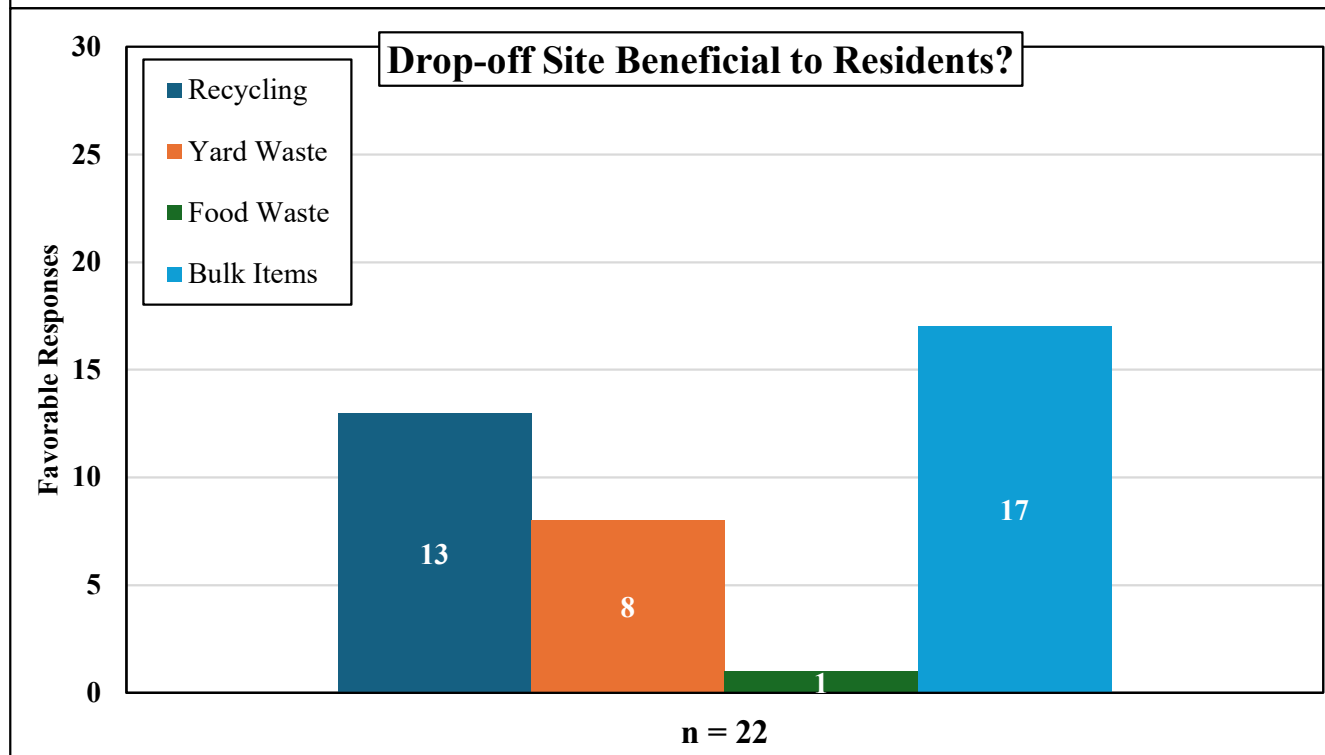
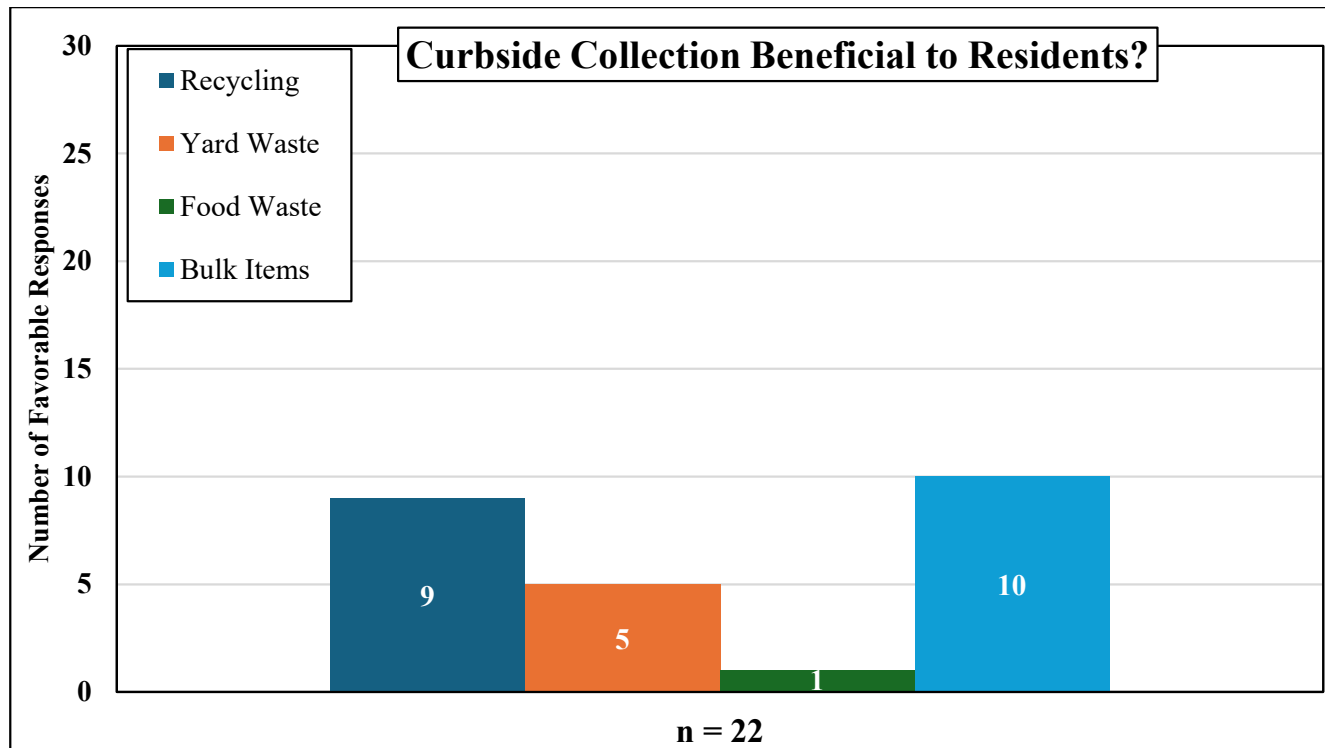
County	Cities	Villages	Townships	Total
Huron	3	8	28	39
Lapeer	1	8	18	27
Sanilac	4	9	26	39
Tuscola	2	9	23	34
Total	10	34	95	139

Responses Received			
ID	Name	LUG Type	County
1	Almer	Charter Twp	Lapeer
2	Harbor Beach	City	Huron
3	Almont	Village	Lapeer
4	Bad Axe	City	Huron
5	Brown City	City	Sanilac
6	Akron	Village	Tuscola
7	Unionville	Village	Tuscola
8	Vassar	Township	Tuscola
9	Sebewaing	Township	Huron
10	Lapeer	Township	Lapeer
11	Rich	Township	Lapeer
12	Sherman	Township	Huron
13	Otter Lake	Village	Lapeer
14	Dryden	Township	Lapeer
15	Elkland	Township	Tuscola
16	Grant	Township	Huron
17	Gilford	Township	Tuscola
18	Buel	Township	Sanilac
19	Lake	Township	Huron
20	Sand Beach	Township	Huron
21	Sigel	Township	Huron
22	Sandusky	City	Sanilac
23	Arcadia	Township	Lapeer
24	Hume	Township	Huron
25			

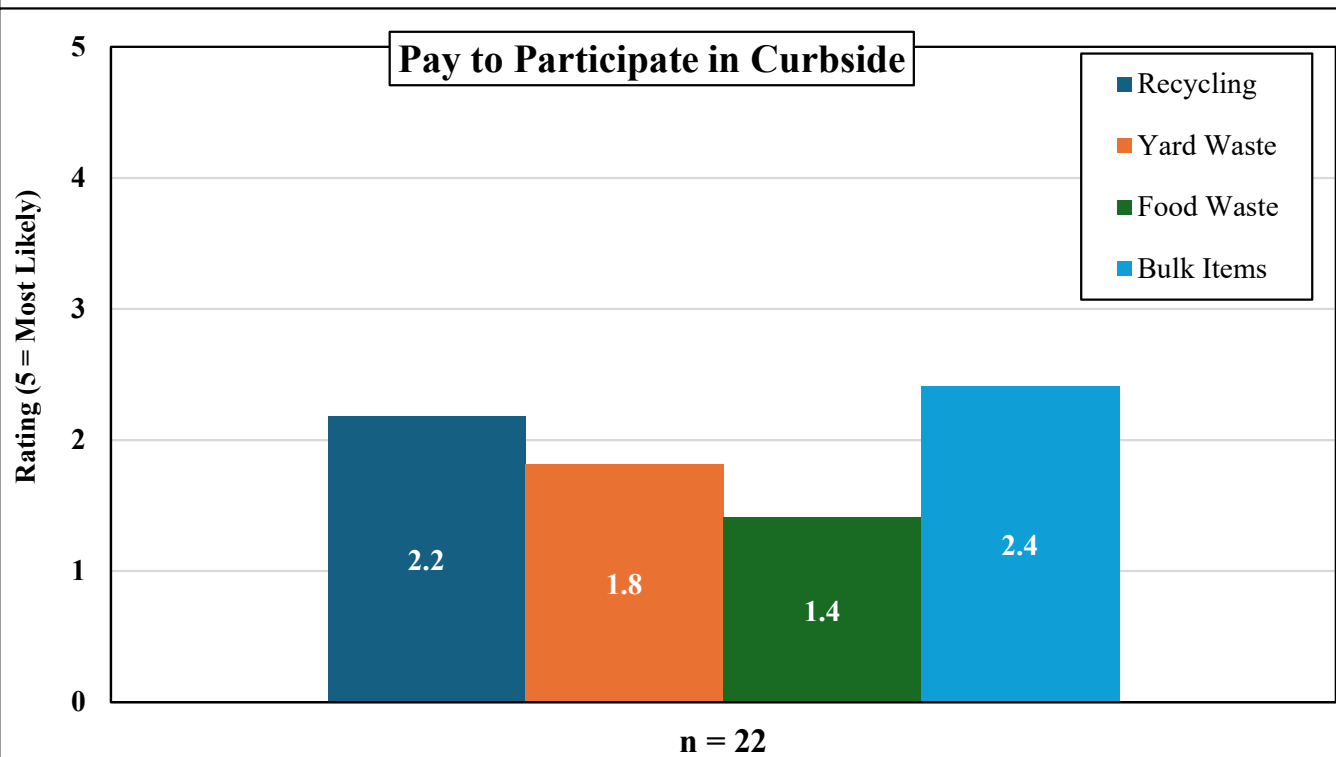
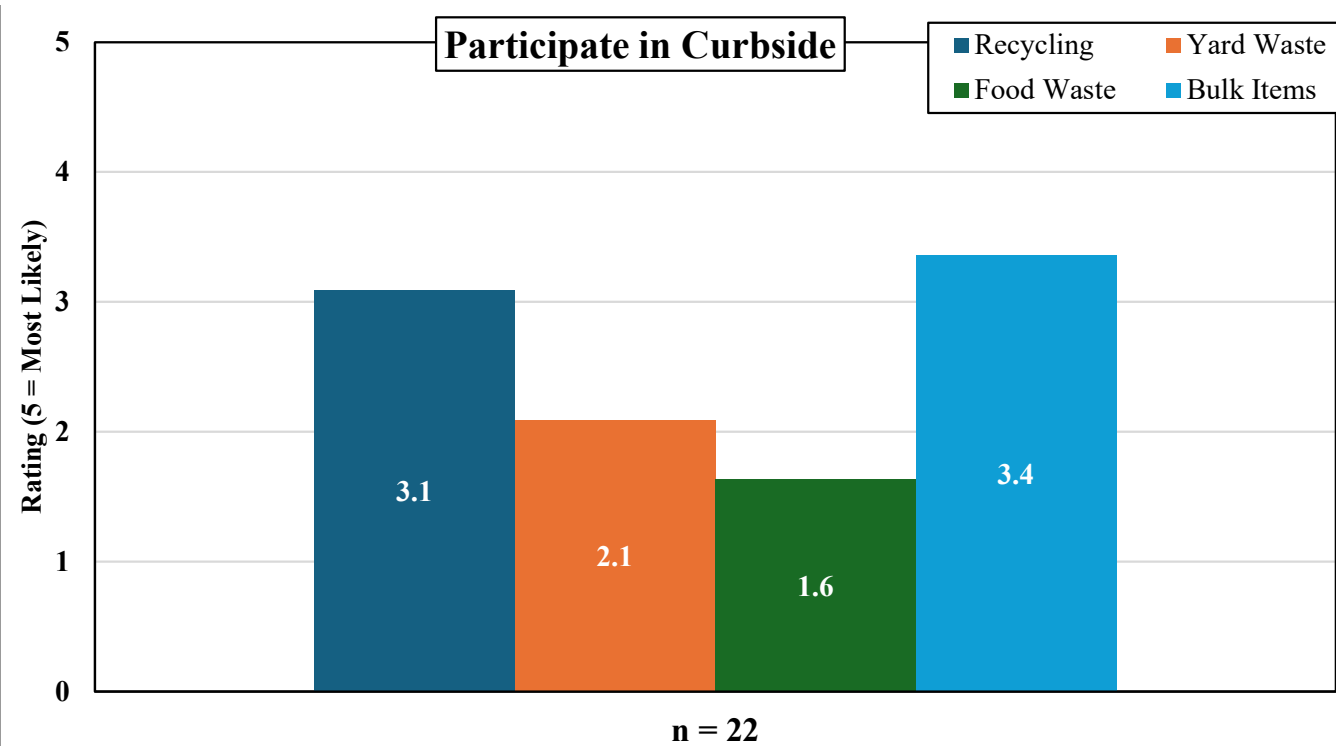
LUG Type	# of Responses	Out of
City	3	10
Village	4	34
Township	15	95
Total	22	
*Almer & Harbor Beach excluded-they offer recycling pickup so did not complete form.		

County	# of Responses	Out of
Huron	8	39
Lapeer	6	27
Sanilac	3	39
Tuscola	5	34
Total	22	
*Almer & Harbor Beach excluded		

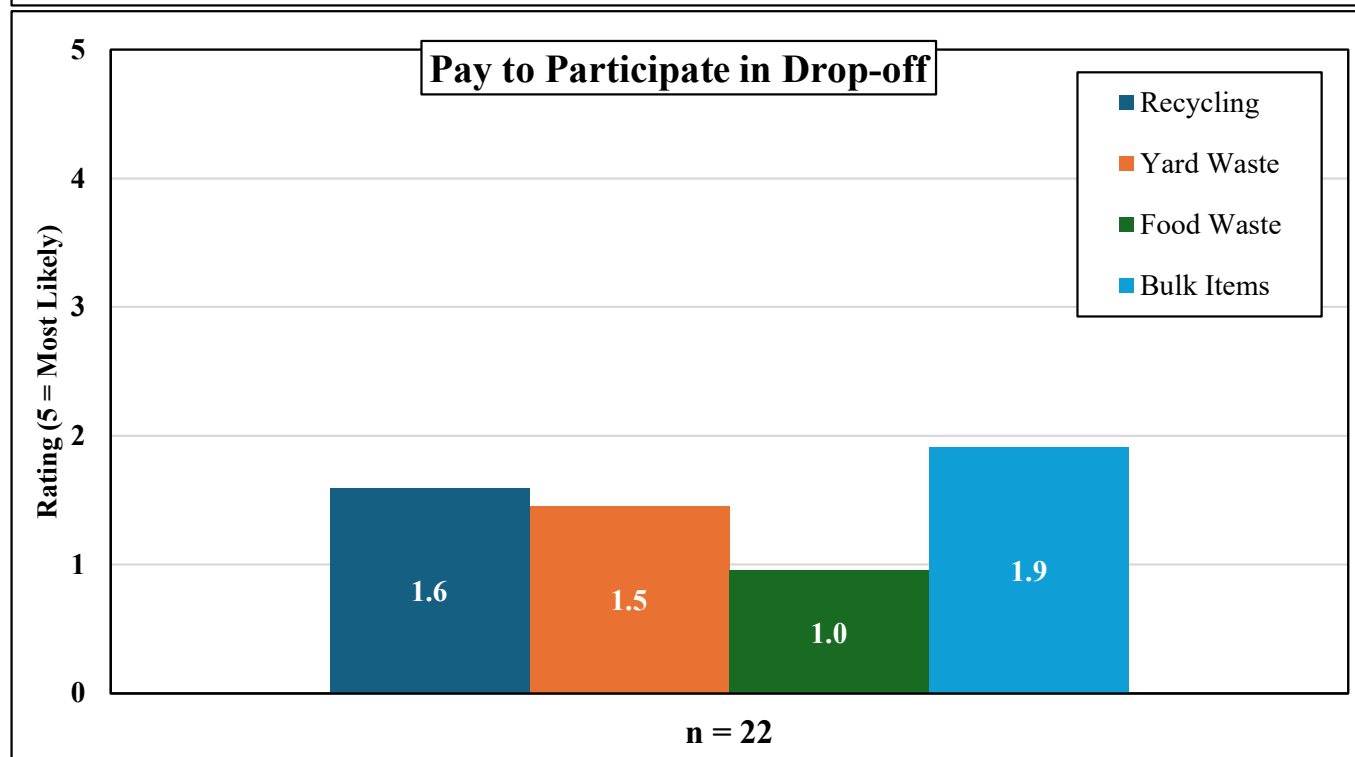
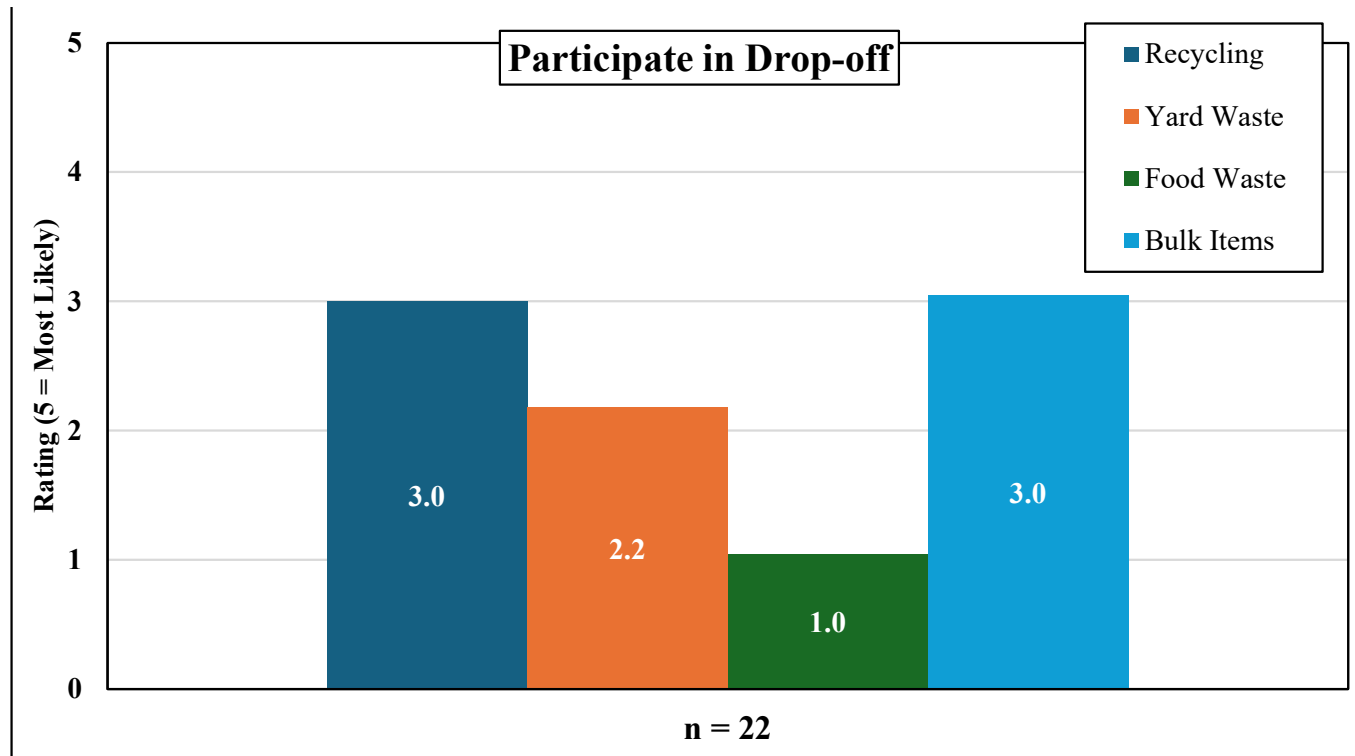
All Responses n = 22



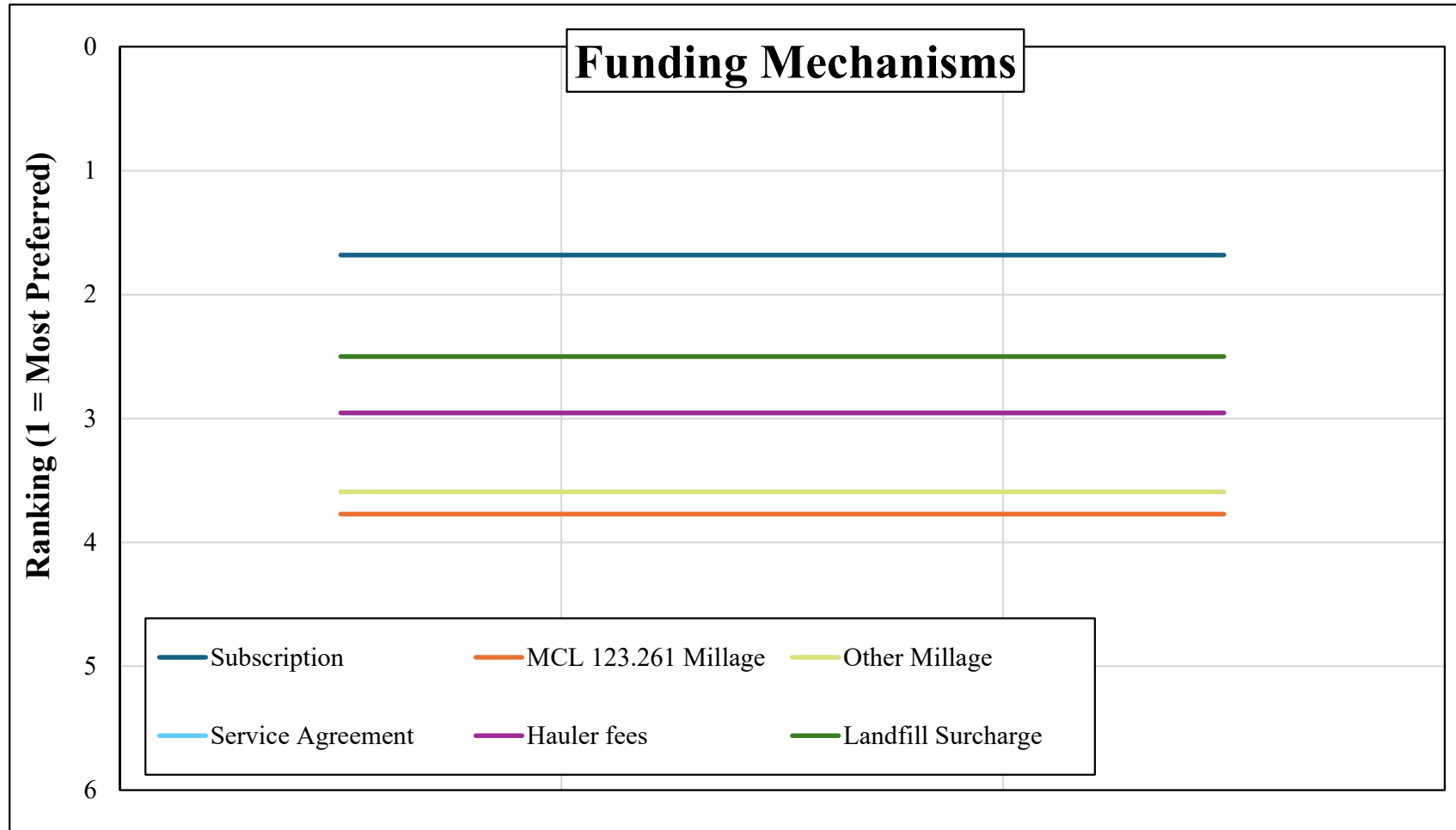
Average Rating Across all Responses for Curbside



Average Rating Across all Responses for Drop-off

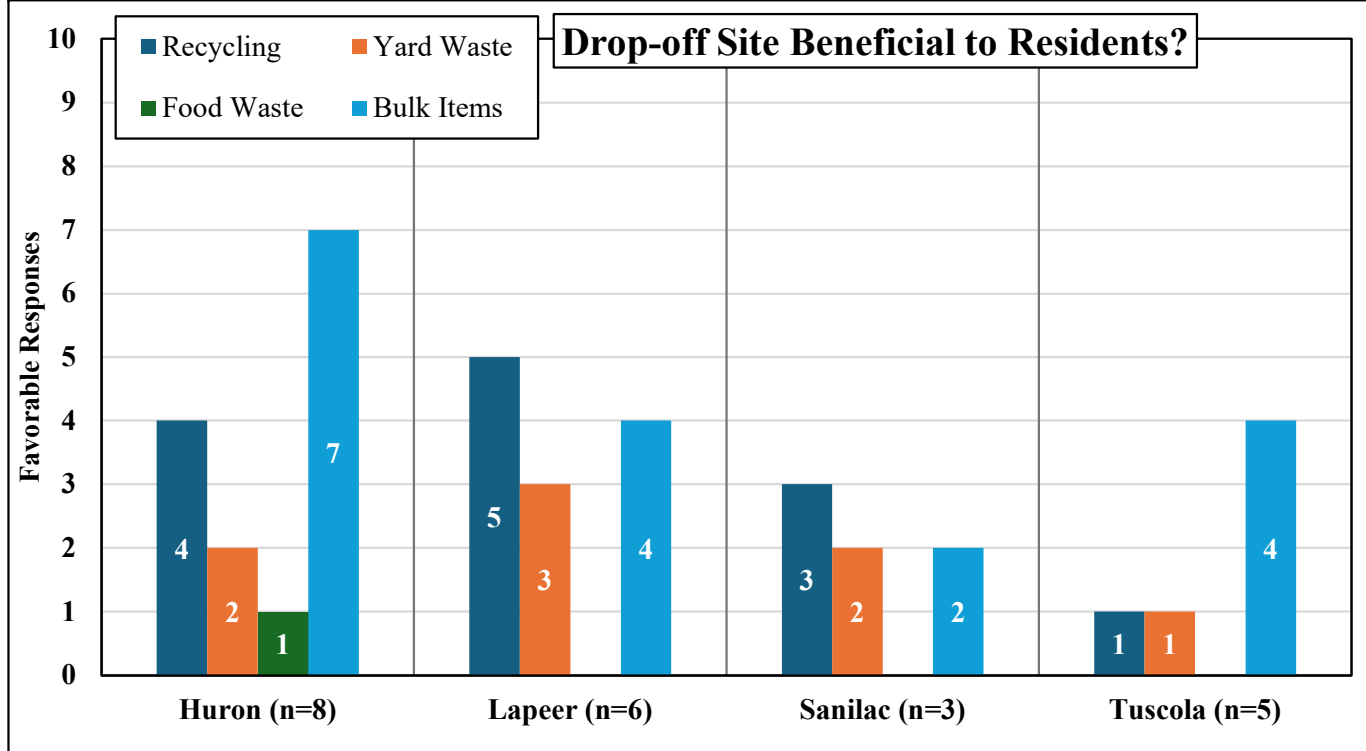
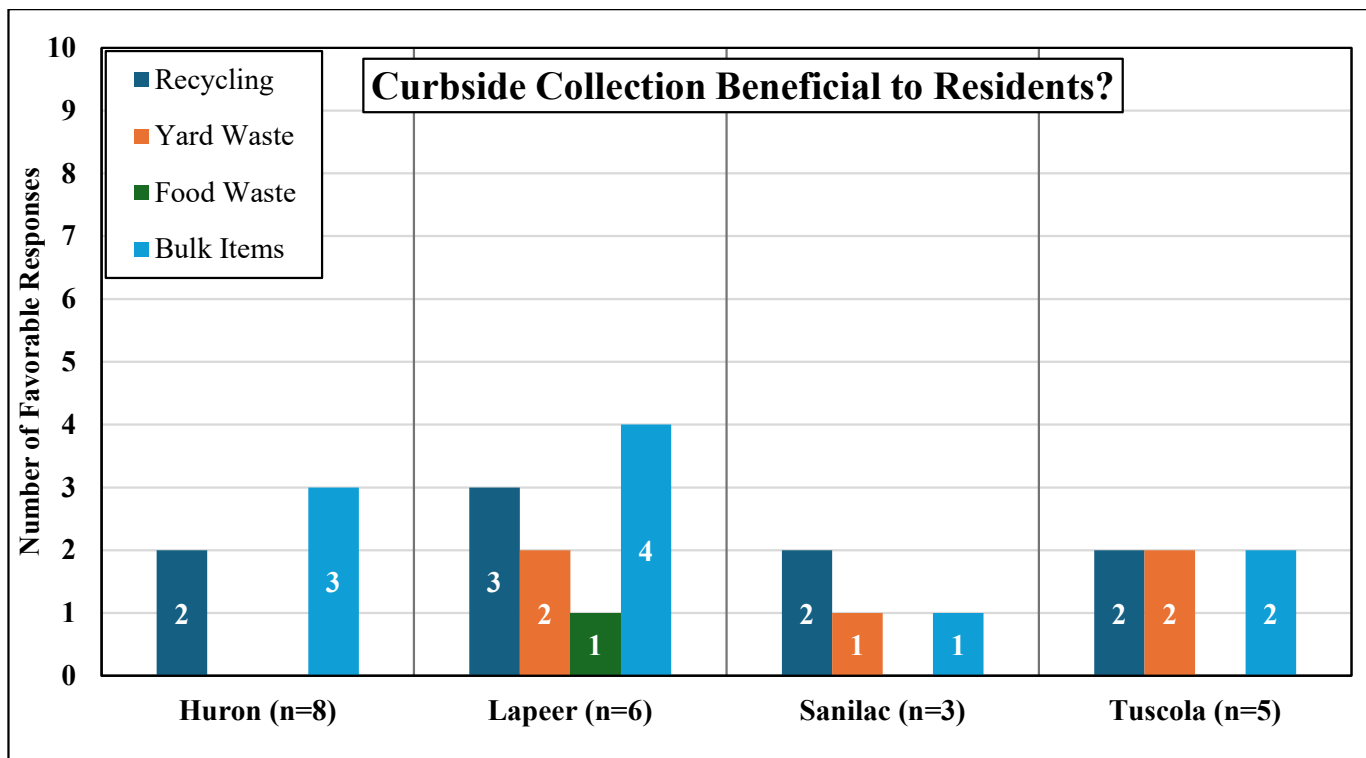


Average Rating Across all Responses n = 22

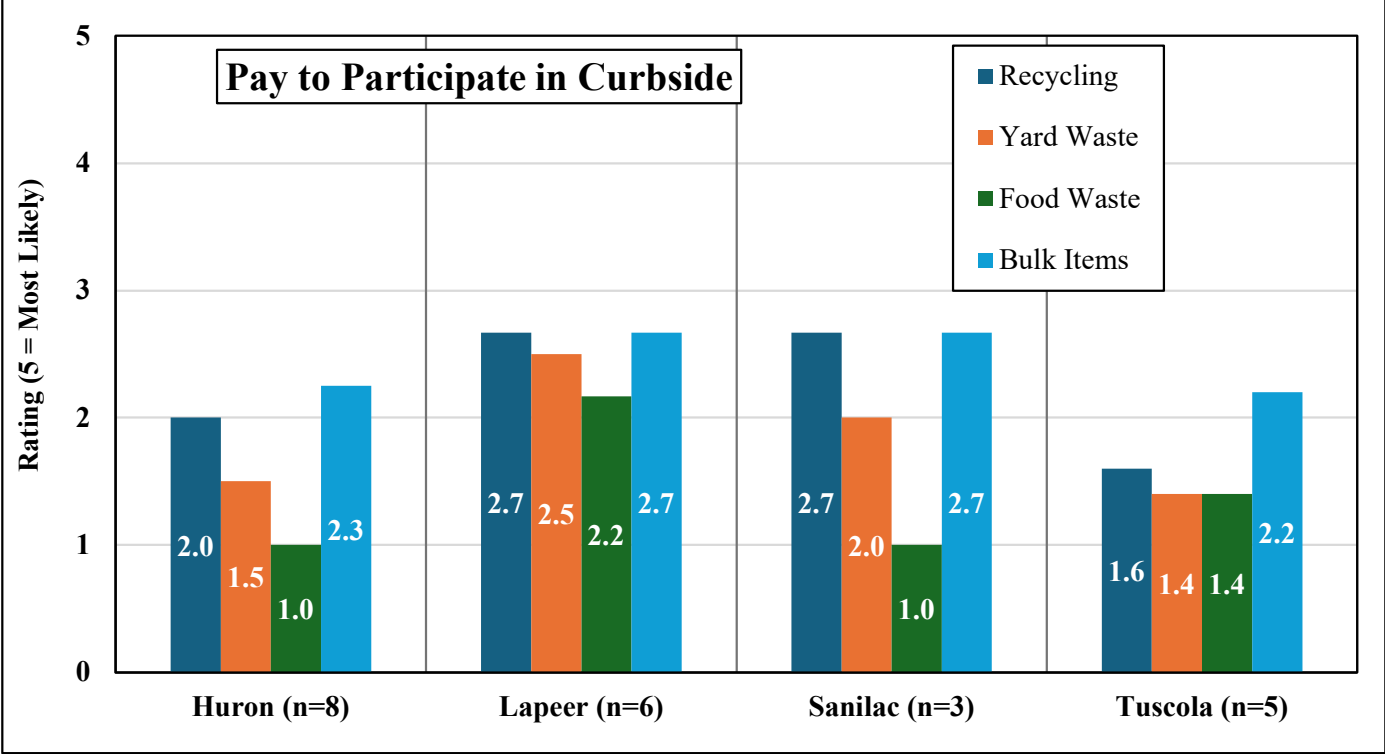
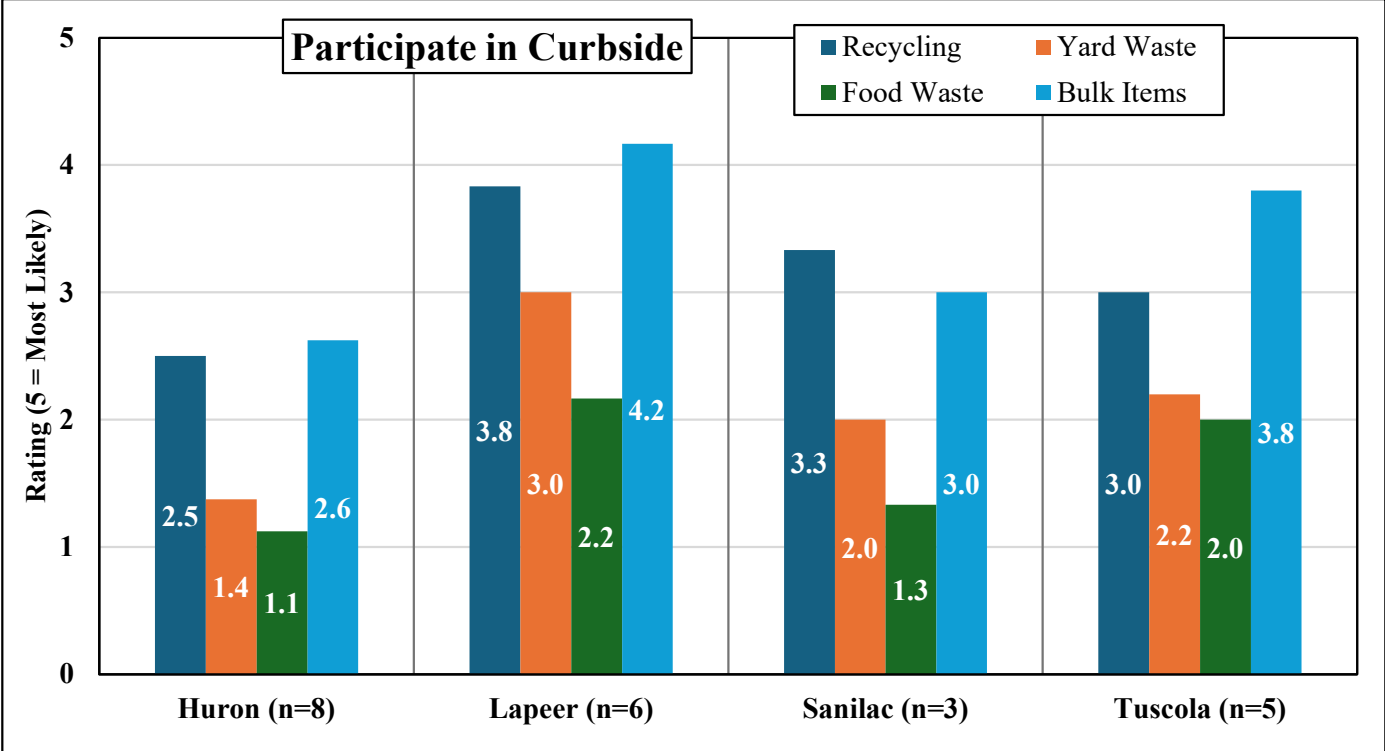


By County

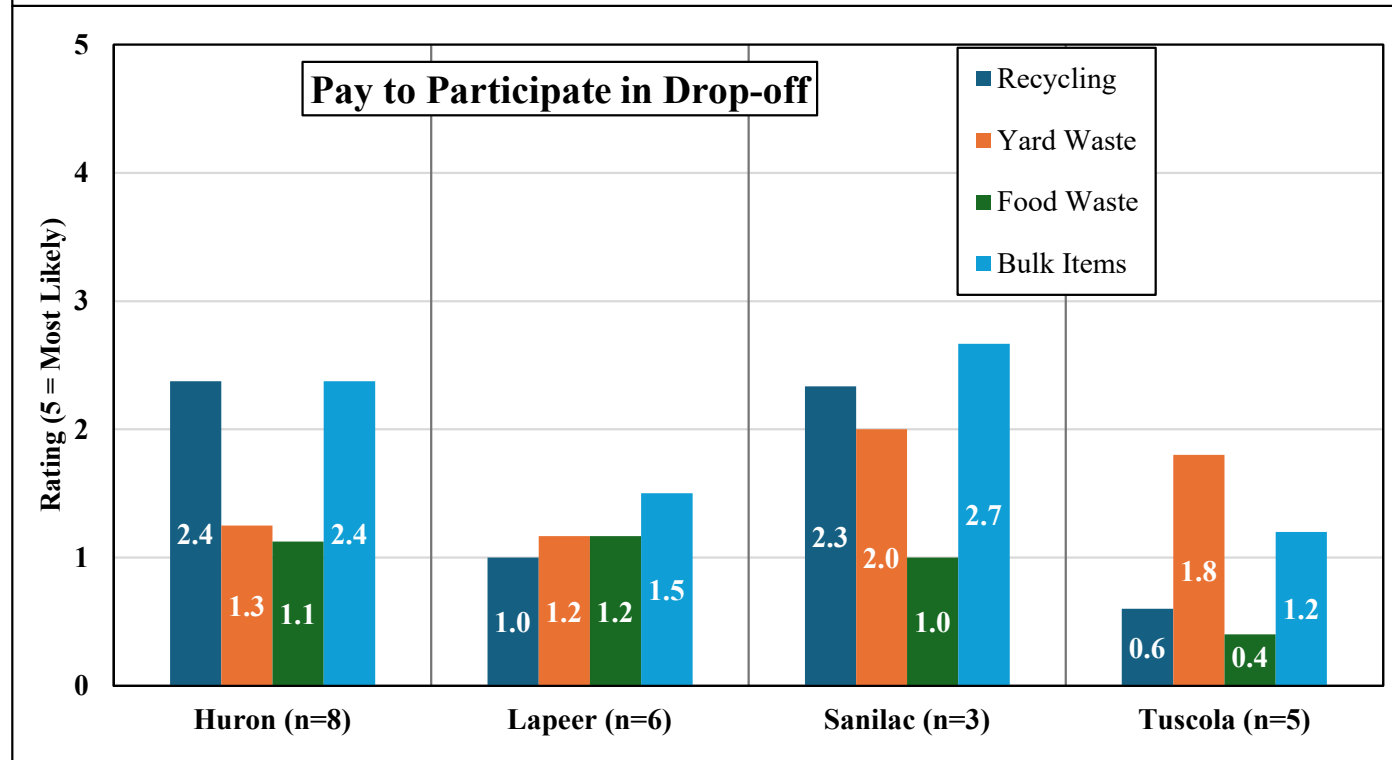
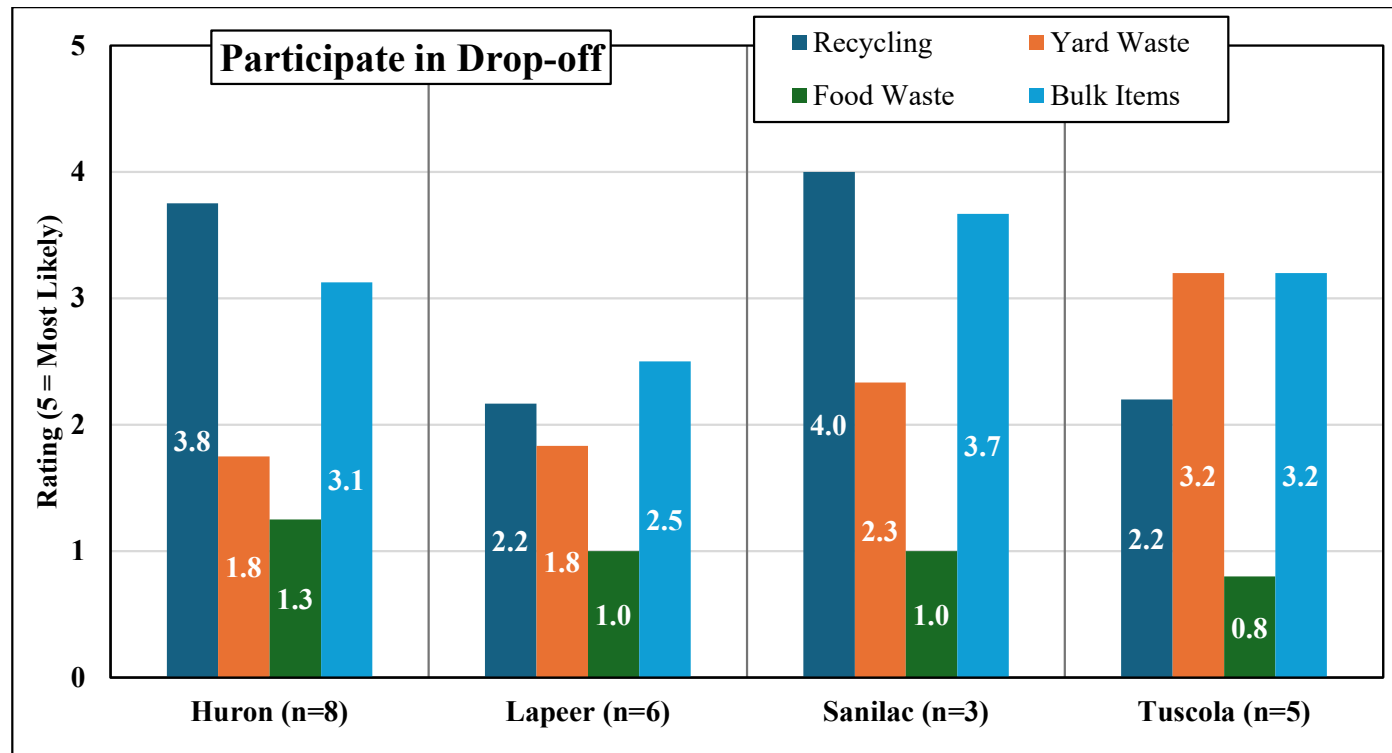
$n_{\text{total}} = 22$



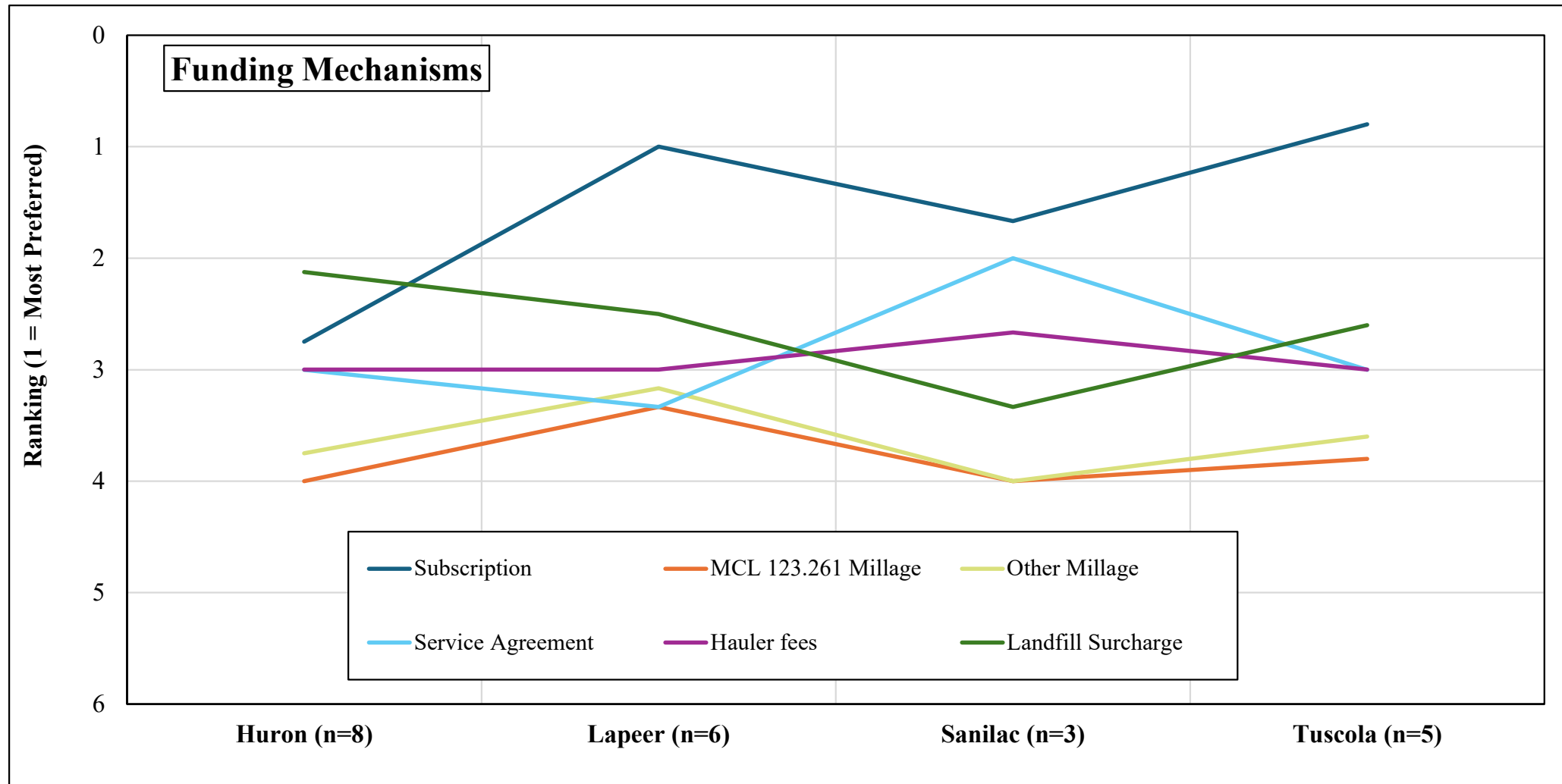
Average Rating By County for Curbside



Average Rating By County for Drop-off

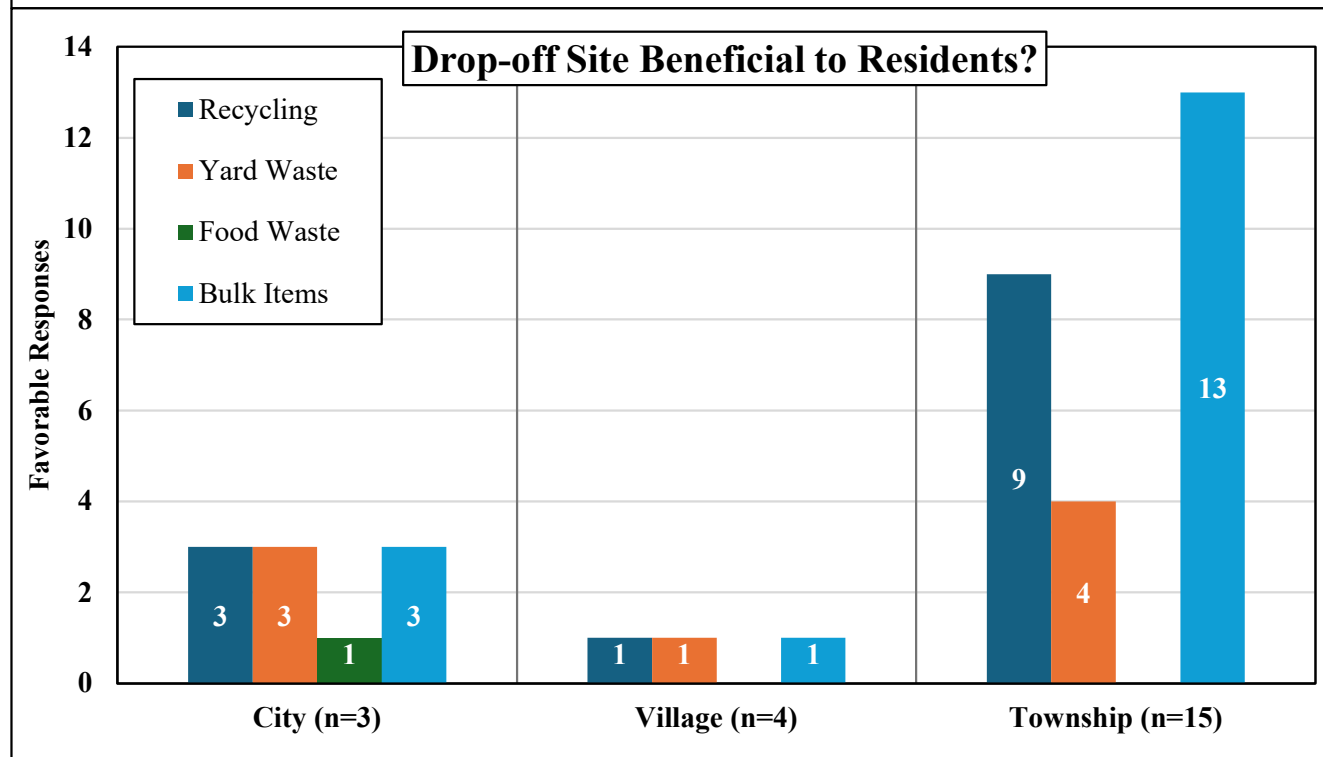
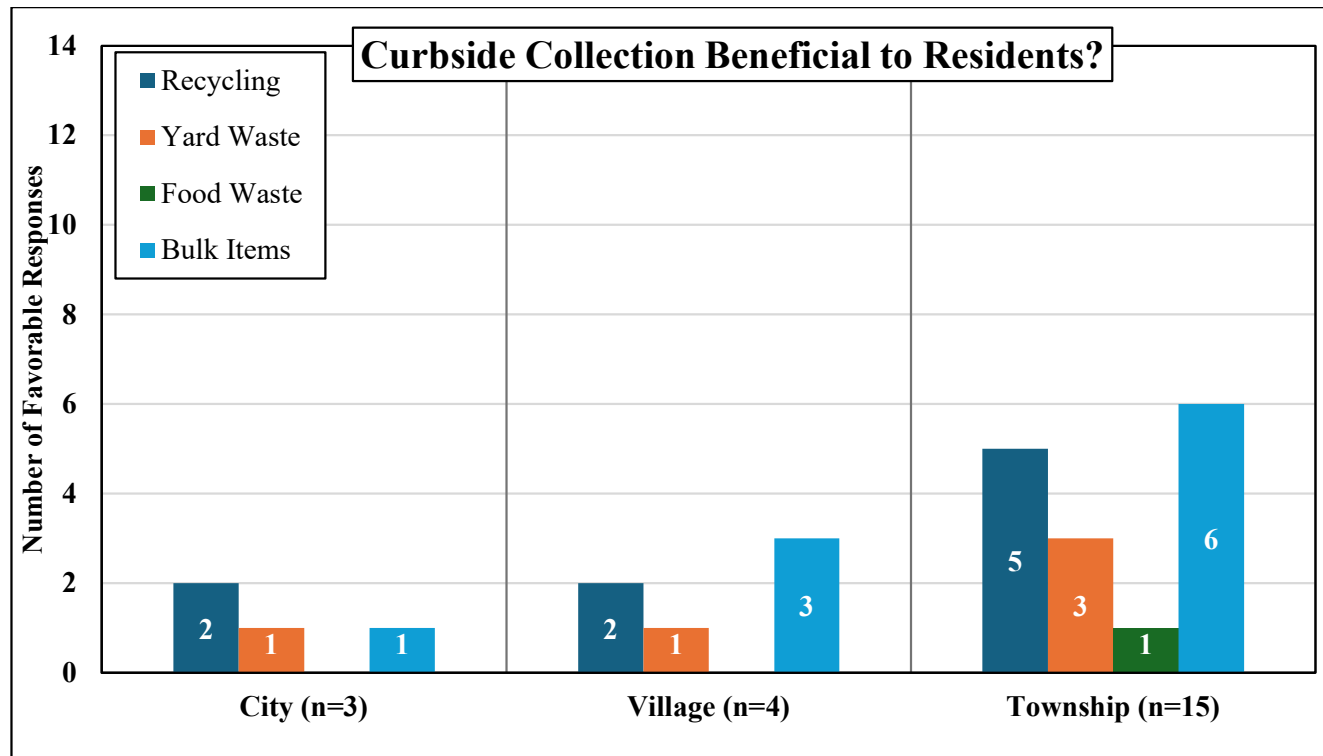


Average Ranking By County

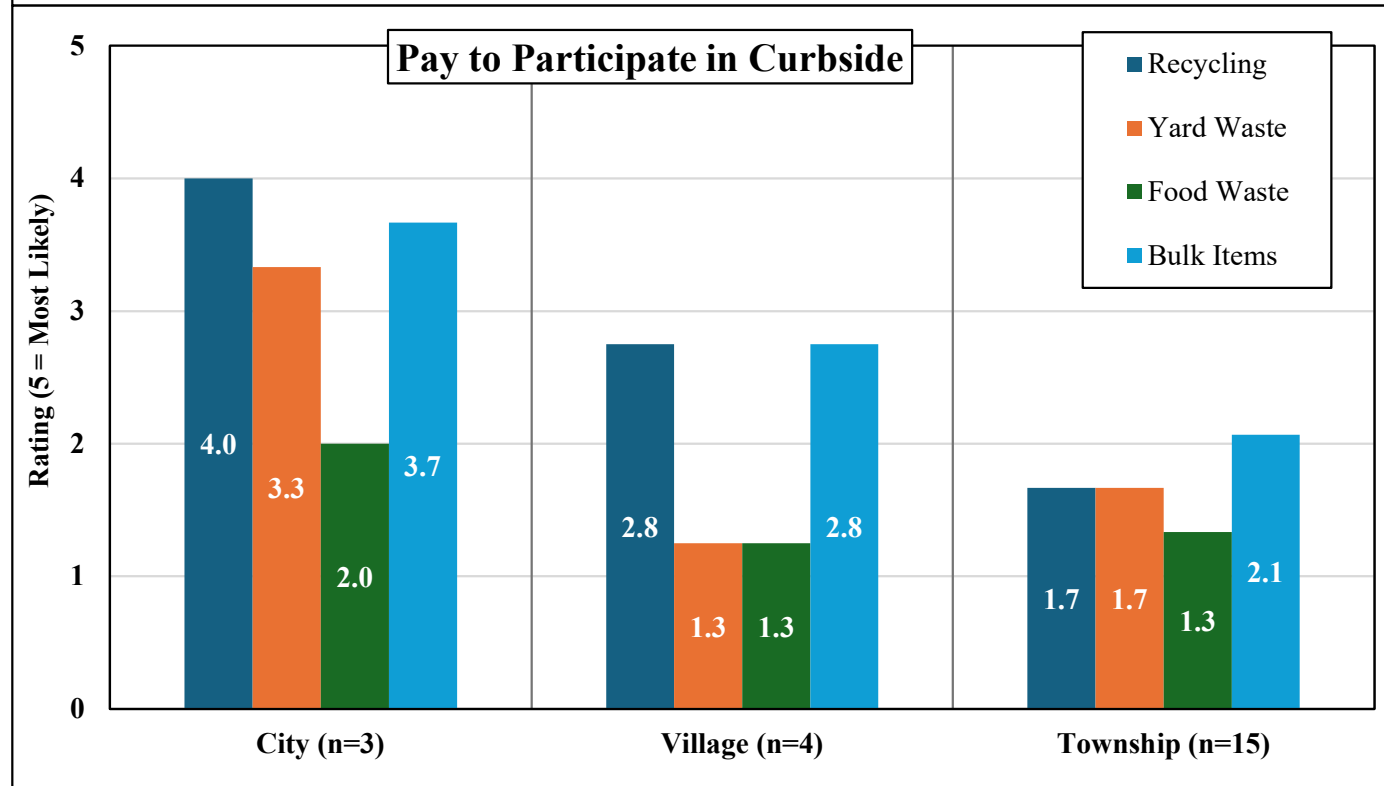
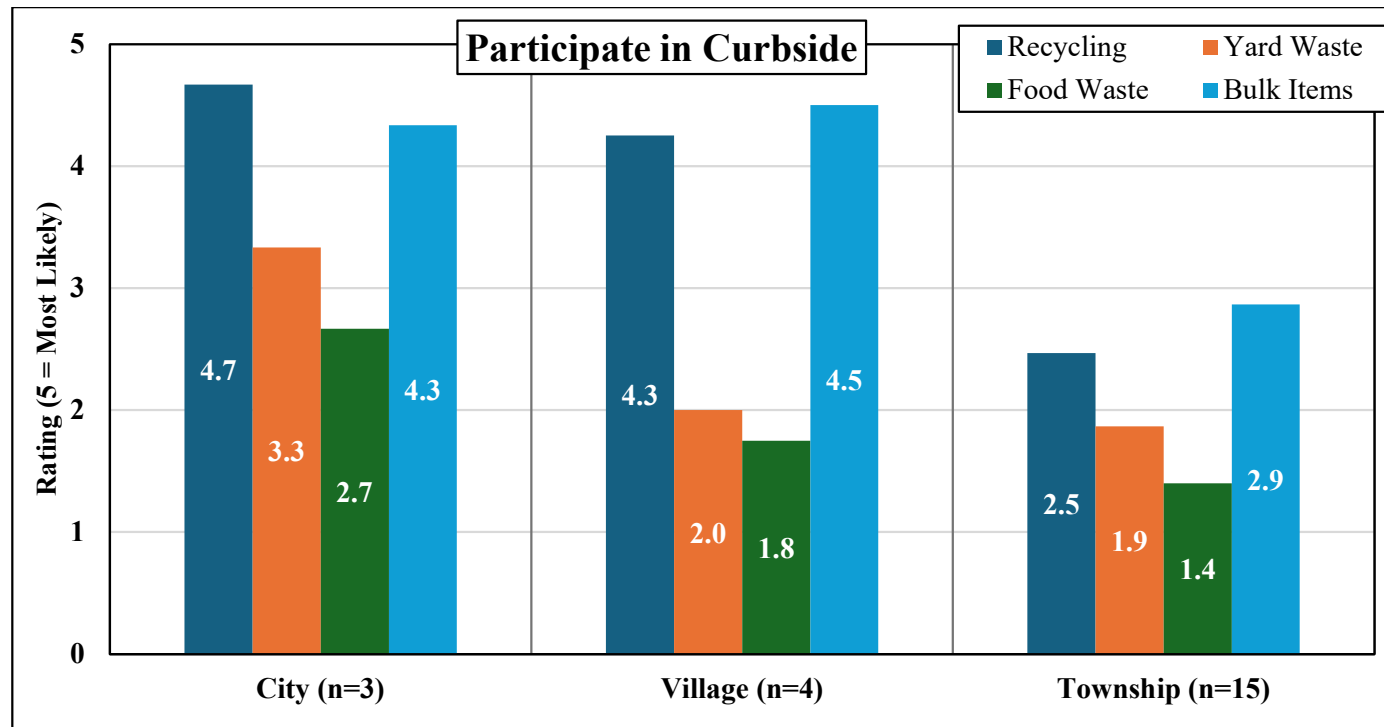


By LUG Type

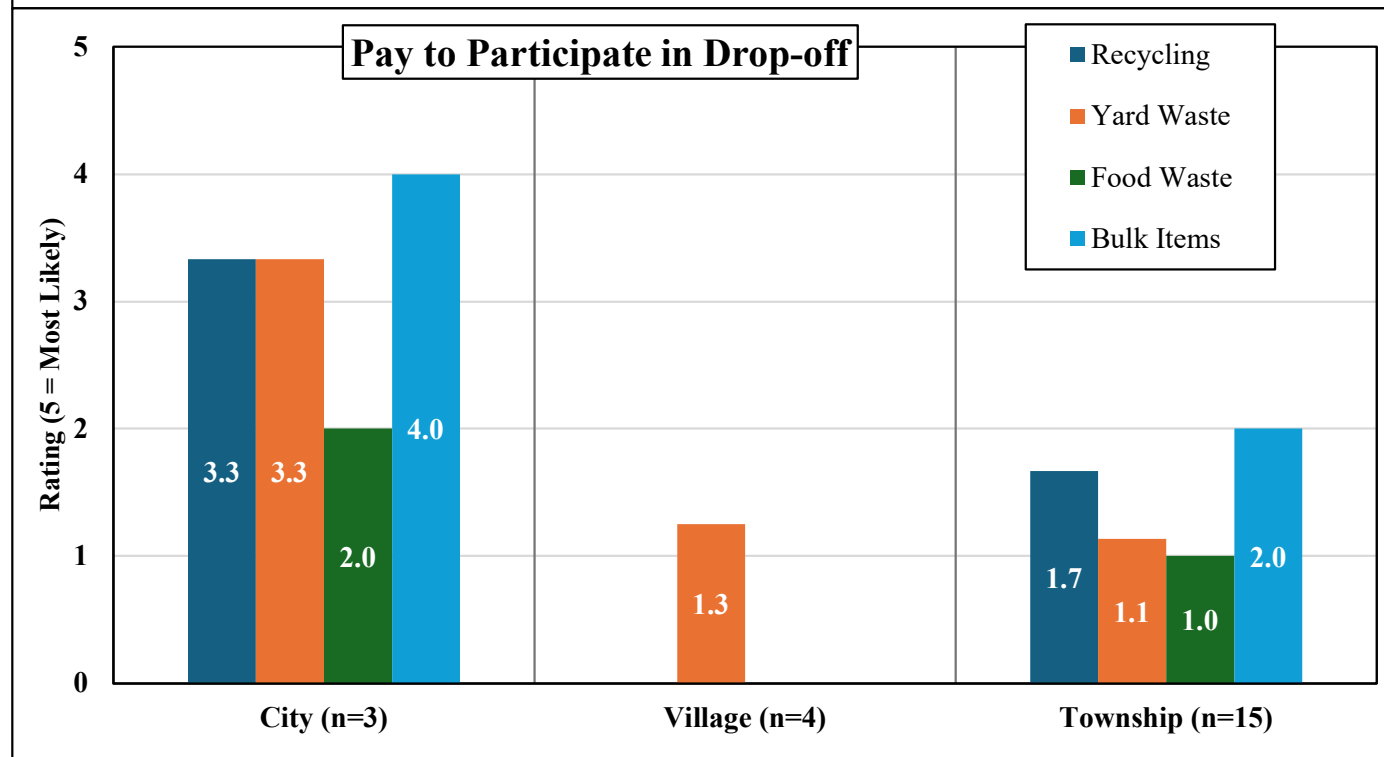
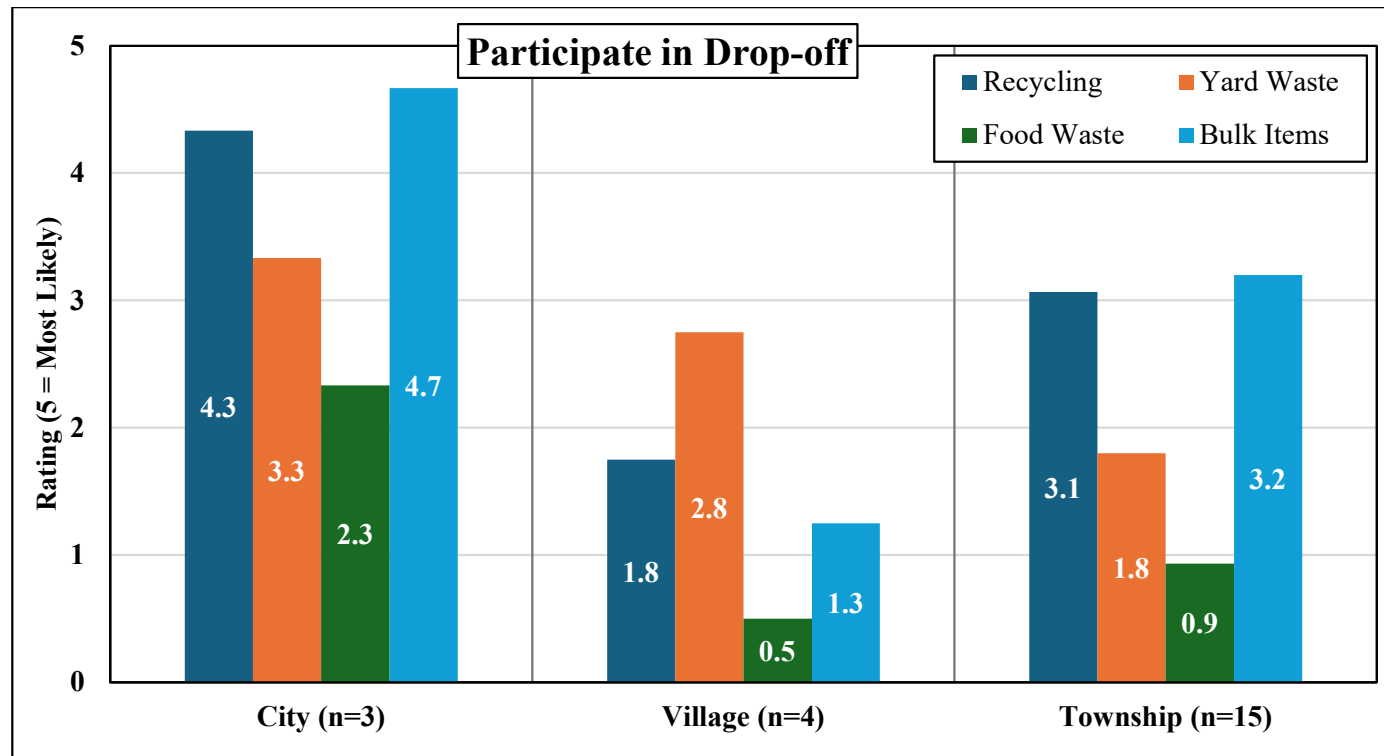
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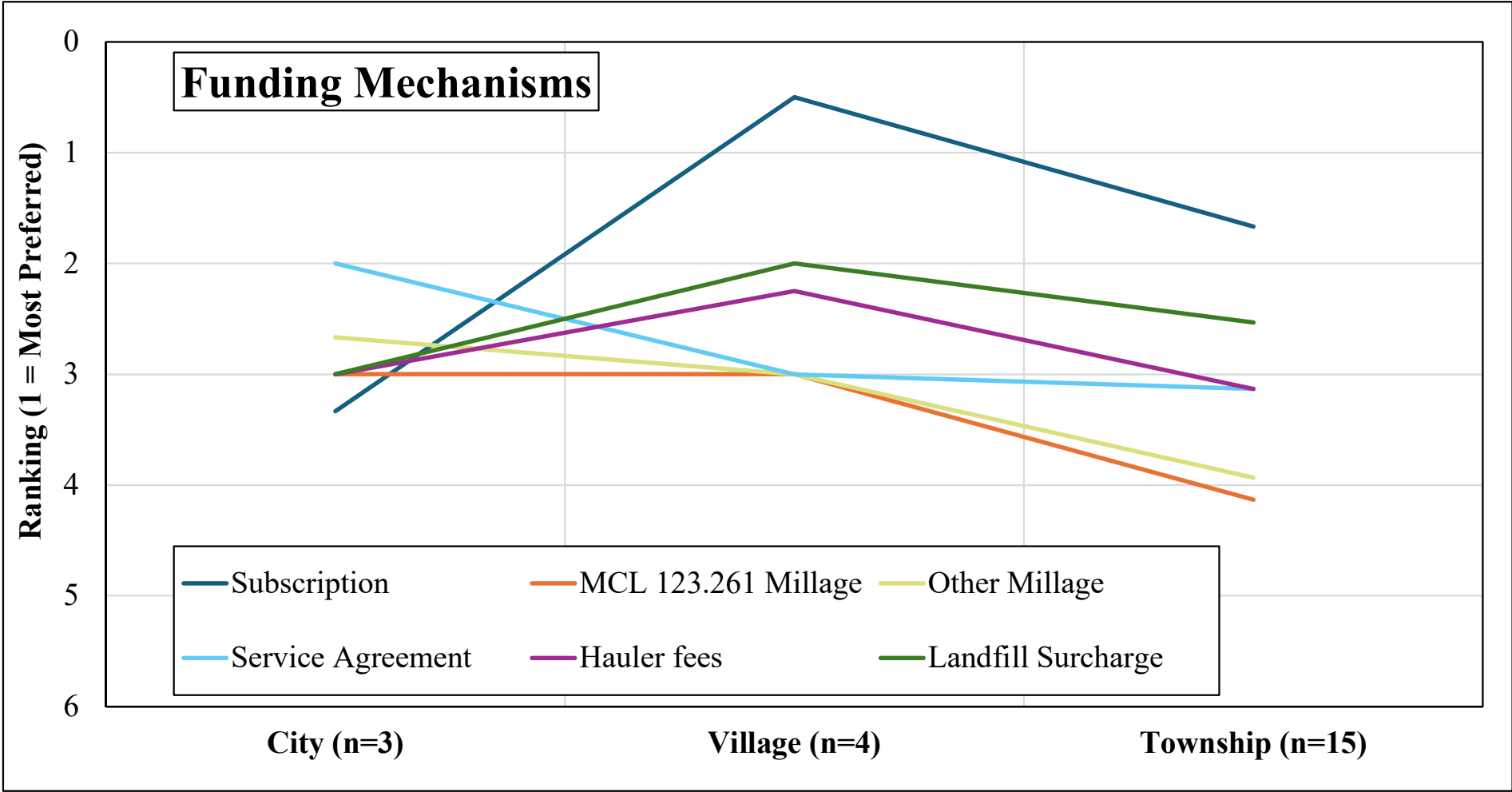
Average Rating By LUG Type for Curbside



Average Rating By LUG Type for Drop-off



Average Ranking By LUG Type





COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Almer Charter Township

We offer recycling & trash pick-up
Which of the following services do you believe your residents would find beneficial?
weekly

Curbside Collection of:

Drop-off Location for:

Recycling

Recycling

Yard Waste

Yard Waste

Food Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

Drop-off Location for:

___ Recycling

___ Recycling

___ Yard Waste

___ Yard Waste

___ Food Waste

___ Food Waste

___ Bulk Items (e.g., furniture, appliances)

___ Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

Drop-off Location for:

___ Recycling

___ Recycling

___ Yard Waste

___ Yard Waste

___ Food Waste

___ Food Waste

___ Bulk Items (e.g., furniture, appliances)

___ Bulk Items



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Arcadia Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

5 Recycling

1 Yard Waste

1 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

5 Recycling

1 Yard Waste

1 Food Waste

5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (*Each household requests service and pays individually.*)
- 6 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 5 Other voter-approved millage (*If provided for by Statute*)
- 3 Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 4 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 2 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page? Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Buel township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

4 Recycling

2 Yard Waste

1 Food Waste

2 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

2 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (Each household requests service and pays individually.)
- 6 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 5 Other voter-approved millage (If provided for by Statute)
- 3 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 2 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 4 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page? Yes No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? N/A Yes
No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? Yes No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?
Yes No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: City of Bad Axe

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- 5 Recycling
- 5 Yard Waste
- 5 Food Waste
- 5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 5 Recycling
- 5 Yard Waste
- 5 Food Waste
- 5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- 5 Recycling
- 5 Yard Waste
- 4 Food Waste
- 4 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 5 Recycling
- 5 Yard Waste
- 4 Food Waste
- 5 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 6 Subscription by household (*Each household requests service and pays individually.*)
- 3 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 1 Other voter-approved millage (*If provided for by Statute*)
- 3 ~~4~~ Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 3 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 3 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page? Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

No

Yes

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: City of Brown City

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste — BC Has Yard Waste Facility

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

4 Recycling

___ Yard Waste

2 Food Waste

3 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

___ Yard Waste

1 Food Waste

4 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

2 Recycling

___ Yard Waste

1 Food Waste

2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling

___ Yard Waste

1 Food Waste

2 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 2 Subscription by household *(Each household requests service and pays individually.)*
- 1 Millage under MCL 123.261 *(Up to 3 mills for cities and villages only)*
- 1 Other voter-approved millage *(If provided for by Statute)*
- 2 Service provider franchise agreement *(Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)*
- 3 Hauler licensing fees *(Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)*
- 2 Landfill surcharge *(Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)*

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

No

Yes

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



Tuscola County

Mike Miller <mmiller@tuscolacounty.org>

[EXTERNAL] City of Harbor Beach - Materials Management Planning

1 message

Ron Wruble <rwruble@harborbeach.com>

To: "mmiller@tuscolacounty.org" <mmiller@tuscolacounty.org>

Wed, Aug 6, 2025 at 11:38 AM

Hello Mike,

The City of Harbor Beach already has city wide pick-up of compost and recycling.

We have a contract with Enterra.

We would be interested in looking at something when our contract expires in a couple of years, if it saves us money.

Thank you,

Ron Wruble

City Manager

City of Harbor Beach

(989)5513393

rwruble@harborbeach.com



Current Service from w.m
- Trash
- Yard waste
- Recycling
- 1 large Item Per week

COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: City of Sandusky

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- ☒ Recycling
- ☒ Yard Waste
- ☐ Food Waste
- ☒ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ☒ Recycling
- ☒ Yard Waste
- ☐ Food Waste
- ☒ Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- 5 Recycling
- 5 Yard Waste
- 1 Food Waste
- 5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 5 Recycling
- 5 Yard Waste
- 1 Food Waste
- 5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- 5 Recycling
- 5 Yard Waste
- 1 Food Waste
- 5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 4 Recycling
- 5 Yard Waste
- 1 Food Waste
- 5 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 2 Subscription by household (Each household requests service and pays individually.)
- 5 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 6 Other voter-approved millage (If provided for by Statute)
- 1 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 3 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 4 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page? ☒ Yes ☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? ☐ Yes ☐ No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? ☒ Yes ☐ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process? ☒ Yes ☐ No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Dryden Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling *at Twp. office currently*

Yard Waste *in Village*

Food Waste

Bulk Items *1x year at Twp. office*

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

5 Recycling

5 Yard Waste

5 Food Waste

5 Bulk Items (e.g., furniture, appliances)

** Most Residence in Twp. Pay for their own Services.*

Drop-off Location for:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

5 Recycling

5 Yard Waste

5 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (Each household requests service and pays individually.)
- 6 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 6 Other voter-approved millage (If provided for by Statute)
- 6 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 6 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 6 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: We have on site (at Twp office)

Recycling & have a community clean up day where residents bring items for trash.

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Elkland Twp.

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

4 Recycling

1 Yard Waste

1 Food Waste

2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

1 Yard Waste

1 Food Waste

3 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

2 Recycling

1 Yard Waste

1 Food Waste

2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

2 Recycling

1 Yard Waste

1 Food Waste

2 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household *(Each household requests service and pays individually.)*
- 2 Millage under MCL 123.261 *(Up to 3 mills for cities and villages only)*
- 2 Other voter-approved millage *(If provided for by Statute)*
- 1 Service provider franchise agreement *(Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)*
- 3 Hauler licensing fees *(Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)*
- 3 Landfill surcharge *(Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)*

Does your community have a website or Facebook page? Yes No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? Yes
No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? Yes No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?
Yes No

Comments: _____

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MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Gilford Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

2 Recycling

2 Yard Waste

0 Food Waste

3 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

3 Yard Waste

0 Food Waste

3 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

0 Recycling

3 Yard Waste

0 Food Waste

0 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

0 Recycling

0 Yard Waste

0 Food Waste

0 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- ☐ Subscription by household (*Each household requests service and pays individually.*)
- ☐ Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- ☐ Other voter-approved millage (*If provided for by Statute*)
- ☒ Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- ☐ Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- ☐ Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page? ☒ Yes ☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? ☒ Yes ☐ No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? ☒ Yes ☐ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process? ☐ Yes ☒ No

Comments: _____

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MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Grant Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste *Neither*

Food Waste *Neither*

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

4 Recycling

1 Yard Waste

1 Food Waste

4 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

1 Recycling

1 Yard Waste

1 Food Waste

1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

2 Recycling

1 Yard Waste

1 Food Waste

2 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 4 Subscription by household (Each household requests service and pays individually.)
- 6 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 5 Other voter-approved millage (If provided for by Statute)
- 3 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 2 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 1 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: None

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COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Hume Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

2 Recycling

1 Yard Waste

 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

 Yard Waste

 Food Waste

4 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

3 Recycling

2 Yard Waste

 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling

 Yard Waste

 Food Waste

4 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (*Each household requests service and pays individually.*)
- 5 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 6 Other voter-approved millage (*If provided for by Statute*)
- 3 Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 4 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 2 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page?

☒ Yes

☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

☐ No

☐ Yes

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

☐ Yes

☒ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

☒ Yes

☐ No

Comments: _____

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MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: LAKE Twp Huron Co

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items

*NO
already*

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- 1 Recycling
- 1 Yard Waste
- 1 Food Waste
- 1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 5 Recycling
- 5 Yard Waste
- 1 Food Waste
- 1 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- 1 Recycling
- 1 Yard Waste
- 1 Food Waste
- 1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 5 Recycling
- 1 Yard Waste
- 1 Food Waste
- 1 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- ☒ Subscription by household (*Each household requests service and pays individually.*)
- ☐ Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- ☐ Other voter-approved millage (*If provided for by Statute*)
- ☐ Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- ☐ Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- ☐ Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page? Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

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COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 3 Subscription by household (Each household requests service and pays individually.)
- 5 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 5 Other voter-approved millage (If provided for by Statute)
- 3 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 3 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 3 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page? ☒ Yes ☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? ☒ Yes ☐ No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? ☒ Yes ☐ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process? ☐ Yes ☒ No

Yes

No

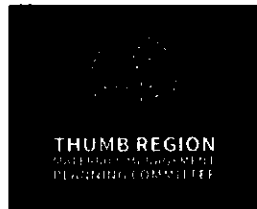
Q maybe!

As long as it's 1 page so postage doesn't increase per mailing

Comments: _____

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COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Lapeer Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

4 Recycling

3 Yard Waste

2 Food Waste

4 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

3 Yard Waste

3 Food Waste

4 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

3 Recycling

2 Yard Waste

2 Food Waste

3 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

2 Yard Waste

2 Food Waste

3 Bulk Items



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Rich Twp.

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- Recycling
- ✓ Yard Waste
- ✓ Food Waste
- ✓ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ✓ Recycling
- Yard Waste
- Food Waste
- ✓ Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- 1 Recycling
- 4 Yard Waste
- 5 Food Waste
- 3 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 1 Recycling
- 3 Yard Waste
- 1 Food Waste
- 5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- 1 Recycling
- 2 Yard Waste
- 5 Food Waste
- 1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 1 Recycling
- 3 Yard Waste
- 3 Food Waste
- 4 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household *(Each household requests service and pays individually.)*
- 3 Millage under MCL 123.261 *(Up to 3 mills for cities and villages only)*
- 2 Other voter-approved millage *(If provided for by Statute)*
- 4 Service provider franchise agreement *(Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)*
- 5 Hauler licensing fees *(Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)*
- 2/4 Landfill surcharge *(Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)*

Does your community have a website or Facebook page?

☒ Yes

☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

☐ No

☒ Yes

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

☒ Yes

☐ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

☒ Yes

☐ No

Comments: _____

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COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (Each household requests service and pays individually.)
- 6 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 5 Other voter-approved millage (If provided for by Statute)
- 4 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 3 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 2 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page? Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? Yes No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

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COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: SAND BEACH

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 4 Recycling
- 1 Yard Waste
- 1 Food Waste
- 3 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- Recycling
- Yard Waste
- Food Waste
- Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 1 Recycling
- 1 Yard Waste
- 1 Food Waste
- 1 Bulk Items



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Sebewaing Township

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- ☒ Recycling
- ☐ Yard Waste
- ☐ Food Waste
- ☒ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ☒ Recycling
- ☐ Yard Waste
- ☐ Food Waste
- ☒ Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- 5 Recycling
- ☐ Yard Waste
- ☐ Food Waste
- 5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 5 Recycling
- ☐ Yard Waste
- ☐ Food Waste
- 5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- 3 Recycling
- ☐ Yard Waste
- ☐ Food Waste
- 3 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 3 Recycling
- ☐ Yard Waste
- ☐ Food Waste
- 3 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (Each household requests service and pays individually.)
- Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 5 Other voter-approved millage (If provided for by Statute)
- 5 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 4 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 4 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page? Yes No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? Yes
No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? Yes No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process? Yes No

Comments: _____

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COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Sherman

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

- ☒ Recycling
- ☐ Yard Waste
- ☐ Food Waste
- ☒ Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- ☒ Recycling
- ☐ Yard Waste
- ☐ Food Waste
- ☒ Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

- 3 Recycling
- 1 Yard Waste
- 1 Food Waste
- 2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 3 Recycling
- 1 Yard Waste
- 1 Food Waste
- 2 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

- 1 Recycling
- 1 Yard Waste
- 1 Food Waste
- 2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

- 1 Recycling
- 1 Yard Waste
- 1 Food Waste
- 1 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (*Each household requests service and pays individually.*)
- 6 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 3 Other voter-approved millage (*If provided for by Statute*)
- 5 Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 4 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 2 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: SIGER TWP

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling
Yard Waste
Food Waste
Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling
Yard Waste
Food Waste
Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

3 Recycling
2 Yard Waste
1 Food Waste
2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling
1 Yard Waste
1 Food Waste
1 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

2 Recycling
2 Yard Waste
1 Food Waste
2 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling
1 Yard Waste
1 Food Waste
2 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 2 Subscription by household (Each household requests service and pays individually.)
- 6 Millage under MCL 123.261 (Up to 3 mills for cities and villages only)
- 5 Other voter-approved millage (If provided for by Statute)
- 1 Service provider franchise agreement (Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.)
- 4 Hauler licensing fees (Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.)
- 3 Landfill surcharge (Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.)

Does your community have a website or Facebook page? ☒ Yes ☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? ☒ Yes ☐ No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? ☒ Yes ☐ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process? ☒ Yes ☐ No

Comments: We currently provide curbside garbage pickup to our residents at no charge. It will be difficult to get residents to participate in this at a cost to them

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: NASSAR TOWNSHIP

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

1 Recycling (already included in
Trash pick up)

5 Yard Waste

2 Food Waste

4 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling

4 Yard Waste

1 Food Waste

5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

1 Recycling

3 Yard Waste

1 Food Waste

4 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

1 Recycling

3 Yard Waste

1 Food Waste

4 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (*Each household requests service and pays individually.*)
- 5 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 5 Other voter-approved millage (*If provided for by Statute*)
- 3 Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 3 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 2 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

No

Yes

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

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MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Village of Unionville

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling
Yard Waste
Food Waste
Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling
Yard Waste
Food Waste
Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

5 Recycling
 Yard Waste
5 Food Waste
5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

 Recycling
5 Yard Waste
 Food Waste
 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

5 Recycling
 Yard Waste
5 Food Waste
5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

 Recycling
5 Yard Waste
 Food Waste
 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (*Each household requests service and pays individually.*)
- 6 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 6 Other voter-approved millage (*If provided for by Statute*)
- 6 Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 6 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 6 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page? ☒ Yes ☐ No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page? ☒ Yes ☐ No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents? ☐ Yes ☒ No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process? ☐ Yes ☒ No

Comments: Recycling is billed with Utility Billing
every two months and the Village has bunker
for Yard waste -

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Village of Akron

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

4 Recycling

3 Yard Waste

2 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

4 Recycling

3 Yard Waste

2 Food Waste

5 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

0 Recycling

0 Yard Waste

0 Food Waste

0 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

0 Recycling

0 Yard Waste

0 Food Waste

0 Bulk Items



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- 1 Subscription by household (*Each household requests service and pays individually.*)
- 6 Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 5 Other voter-approved millage (*If provided for by Statute*)
- 4 Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- 3 Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- 2 Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

Yes

No

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: Village of Almont

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling
Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

Recycling

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

5 Recycling

5 Yard Waste

0 Food Waste

3 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

0 Recycling

3 Yard Waste

0 Food Waste

0 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

5 Recycling

5 Yard Waste

0 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

0 Recycling

0 Yard Waste

0 Food Waste

0 Bulk Items

Village of Almont already has these forms of recycling paid for by residents



COMMUNITY QUESTIONNAIRE

Please rank from 1-6 (1 being the most preferred) each potential method for funding recycling and composting services in your community.

- ☐ Subscription by household (*Each household requests service and pays individually.*)
- ☐ Millage under MCL 123.261 (*Up to 3 mills for cities and villages only*)
- 1 ☒ Other voter-approved millage (*If provided for by Statute*)
- 1 ☒ Service provider franchise agreement (*Contract with a third-party to collect curbside in LUG area and/or operate a drop-off. Assess fee to residents either with a separate bill or on property taxes.*)
- ☐ Hauler licensing fees (*Require waste haulers to pay fees to LUG to operate in the area which can be used to offset cost of recycling services, like curbside collection or operating a drop-off.*)
- ☐ Landfill surcharge (*Add a fee to landfill disposal that can be collected to offset recycling cost, similar to how proceeds from a gas tax go towards road maintenance.*)

Does your community have a website or Facebook page?

Yes

No

Would you be willing to post a link to the Thumb Region MMPC's recycling and composting education materials on your website and/or Facebook page?

No

Yes

Would you be willing to include recycling and composting education materials (to be provided at no cost) in your tax bills to residents?

Yes

No

TBD need to see it.

Would you be willing to attend an evening information session held locally within your county to learn more about recycling and composting services and the MMP process?

Yes

No

Comments: _____

Please return electronic copy of completed form to mmiller@tuscolacounty.org

MMPC Meetings Held 3rd Wednesday of Each Month at 1:30 PM, Peoples Building, Caro, MI



COMMUNITY QUESTIONNAIRE

Local Unit of Government Name: VILLAGE OF OTTER LAKE

Which of the following services do you believe your residents would find beneficial?

Curbside Collection of:

Recycling Yes

Yard Waste

Food Waste

Bulk Items (e.g., furniture, appliances) Yes

Drop-off Location for:

Recycling maybe

Yard Waste

Food Waste

Bulk Items

For each service, please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to participate in each service.

Curbside Collection of:

3 Recycling

 Yard Waste

 Food Waste

5 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

3 Recycling

 Yard Waste

 Food Waste

 Bulk Items

Please rate on a scale from 1-5 the likelihood (5 being the most likely) that you believe your residents would be willing to pay to participate in each service.

Curbside Collection of:

1 Recycling

 Yard Waste

 Food Waste

1 Bulk Items (e.g., furniture, appliances)

Drop-off Location for:

 Recycling

 Yard Waste

 Food Waste

 Bulk Items

APPENDIX E

Goals and Implementation Strategy

1.0 BENCHMARK RECYCLING STANDARDS

OUTCOMES:

Ensure existing drop-off Locations are operating at least 24 hours per month.

Huron County: Huron Landfill

Sanilac County: Sanilac County MRF, Marlette Airport, Croswell-Lexington High School, Forestville Township Park, Tri-City Landfill, Greenleaf Township (M-81 & M-53 intersection behind Wild John's)

Lapeer County: North Lapeer Recycling

Tuscola County: Tuscola County MRF

Site, construct, and operate additional drop-off locations at least 24 hours per month.

(1) in Huron County

(0) in Sanilac County

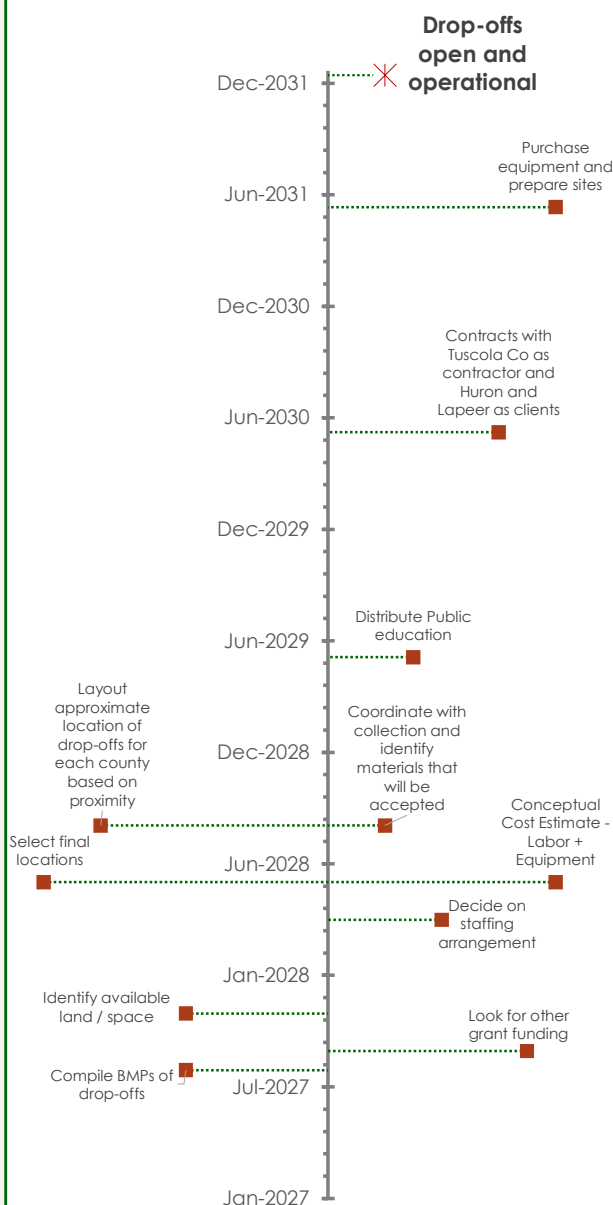
(7) in Lapeer County

(1) in Tuscola

DUE DATE: 1/1/2032 Drop-offs open and operational

Activity 1.1 Design and staffing of drop-offs	Due Date
Compile BMPs of drop-offs	8/1/2027
Coordinate with collection and identify materials that will be accepted	9/1/2028
Decide on staffing arrangement	4/1/2028
Activity 1.2 Cost Estimate and Funding	Due Date
Determine MMP grant funds that can be used	4/1/2026
Look for other grant funding	9/1/2027
Conceptual Cost Estimate - Labor + Equipment	6/1/2028
Activity 1.3 Select Locations	Due Date
Layout approximate location of drop-offs for each county based on proximity	9/1/2028
Identify available land / space	11/1/2027
Select final locations	6/1/2028
Activity 1.4 Implement Drop-offs	Due Date
Distribute Public education	6/1/2029
Contracts with Tuscola Co as contractor and Huron and Lapeer as clients	6/1/2030
Purchase equipment and prepare sites	6/1/2031

1.0 BENCHMARK RECYCLING STANDARDS



2.0 RESIDENTIAL RECYCLING ACCESS

OUTCOMES:

Expand convenient access to residential recycling services.

For Single-family dwellings via curbside or drop-offs

For multi-family dwellings by technical assistance for facility owners

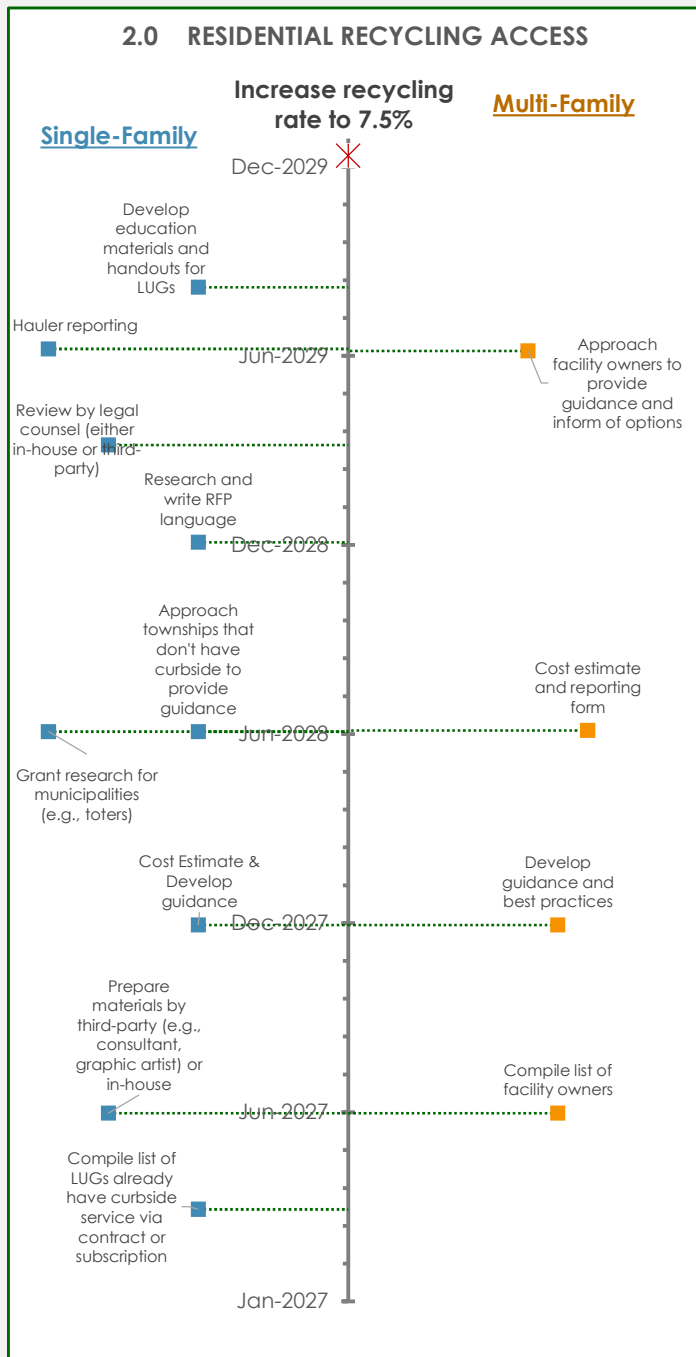
Expand available services through:

Material management best practices to LUGs

Hauler contracting best practices

DUE DATE: 1/1/2030 Increase recycling rate to 7.5%

Activity 2.1 Single Family Dwellings via curbside and/or drop-offs	Due Date
Compile list of LUGs already have curbside service via contract or subscription	3/30/2027
Cost Estimate & Develop guidance	12/27/2027
Approach townships that don't have curbside to provide guidance	6/29/2028
Grant research for municipalities (e.g., toters)	6/29/2028
Hauler reporting	6/30/2029
Activity 2.2 Multi-family dwellings	Due Date
Compile list of facility owners	6/30/2027
Develop guidance and best practices	12/27/2027
Cost estimate and reporting form	6/30/2028
Approach facility owners to provide guidance and inform of options	6/28/2029
Activity 2.3 Best practices education to LUGS	Due Date
DPA is the point of contact.	
Develop education materials and handouts for LUGs	8/28/2029
Prepare materials by third-party (e.g., consultant, graphic artist) or in-house	6/30/2027
Activity 2.4 Develop best practices and language for hauler contracts	Due Date
Research and write RFP language	12/27/2028
Review by legal counsel (either in-house or third-party)	3/30/2029
Investigate mandatory hauler reporting	



3.0 REDUCE ORGANIC MATERIAL DISPOSAL

OUTCOMES:

Increase diversion through:
Food rescue programs

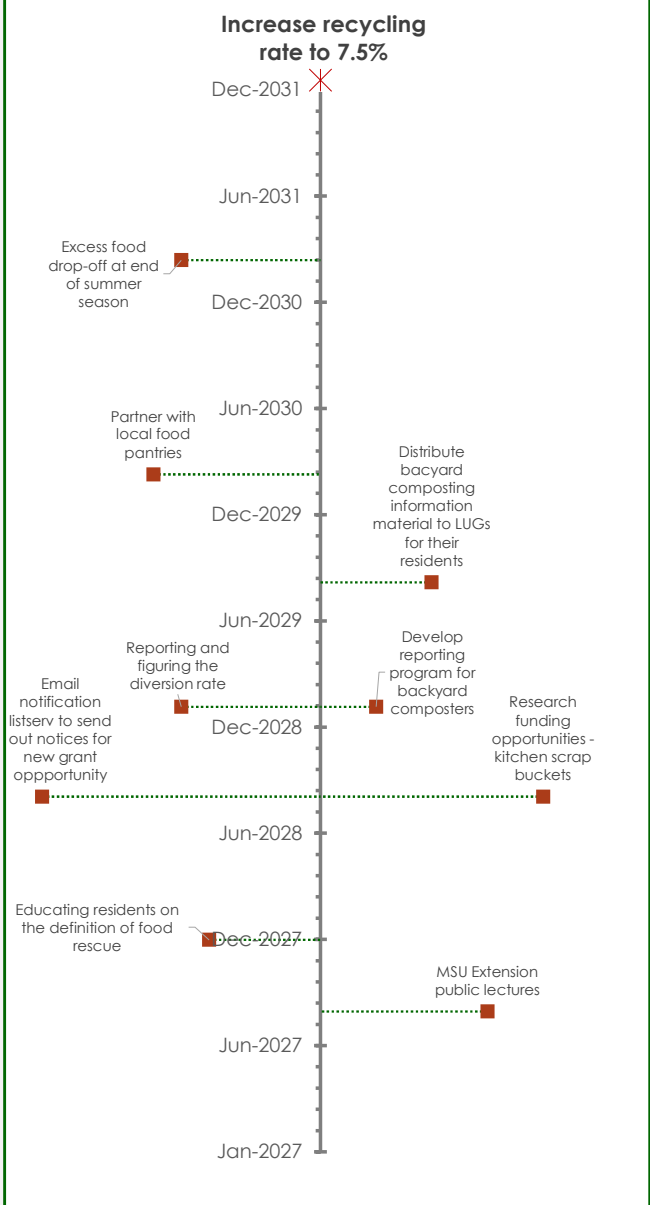
Promote and measure use of backyard composting.
Public education

Grant funding opportunities for organics diversion.

DUE DATE: 1/1/2032 Increase recycling rate to 7.5%

Activity 3.1 Promote food rescue & data reporting	Due Date
Excess food drop-off at end of summer season	2/28/2031
Reporting and figuring the diversion rate	1/28/2029
Partner with local food pantries	2/28/2030
Educating residents on the definition of food rescue	12/28/2027
Activity 3.2 Yard Waste Data Reporting	Due Date
See Goal 4.1	
Activity 3.3 Promote and measure backyard composting	Due Date
MSU Extension public lectures	8/28/2027
Develop reporting program for backyard composters	1/28/2029
Distribute backyard composting information material to LUGs for their residents	8/28/2029
Master Gardener group contacts	
Have someone take a Master Composter class through MRC	
Conservation district education & outreach	
Activity 3.4 Grant funding opportunities	Due Date
Research funding opportunities - kitchen scrap buckets	8/28/2028
Email notification listserv to send out notices for new grant opportunity	8/28/2028

3.0 REDUCE ORGANIC MATERIAL DISPOSAL



4.0 ADDITIONAL DATA GATHERING

OUTCOMES:

Increase reporting of current data.

Local DPW yard waste and brush collection sites.
Commercial recycling, like big box stores.
Investigate mandatory hauler reporting.

Waste Characterization and Feasibility Study

Conduct a feasibility study to determine if additional material management facilities are required based on volume and waste composition.

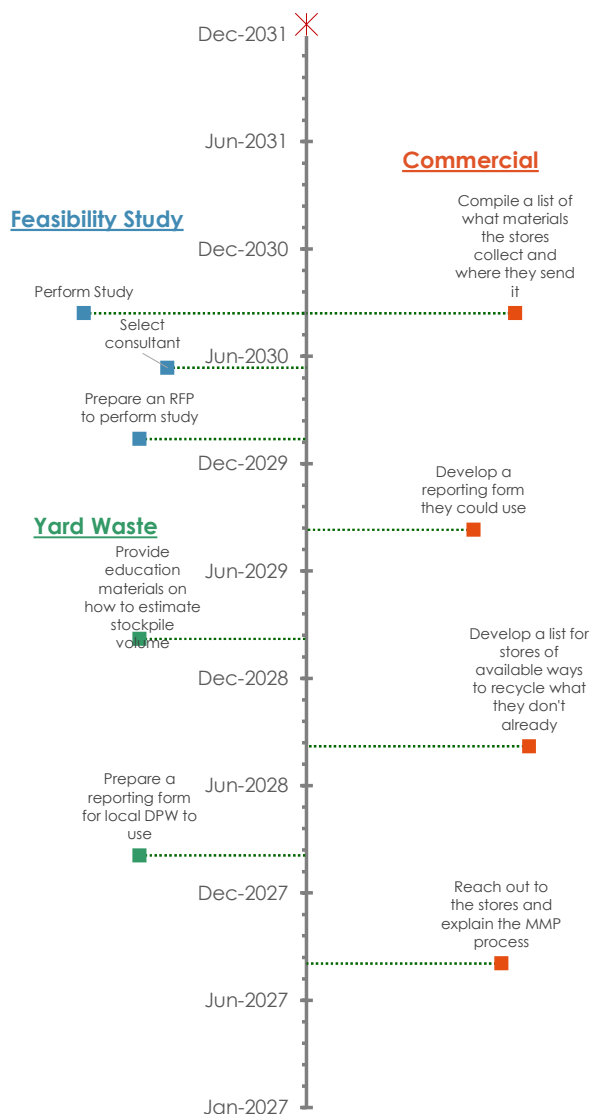
DUE DATE:

1/1/2032 Data reporting procedures in-place

Activity 4.1 Reporting from local DPW yard waste & brush sites	Due Date
Truckload-based or estimated volume of stockpiles	
Provide education materials on how to estimate stockpile volume	3/1/2029
Prepare a reporting form for local DPW to use	3/1/2028
Activity 4.2 Reporting from commercial establishments	Due Date
Continue attempting to collect data from MRFs and Compost facilities	12/1/2026
Reach out to the stores and explain the MMP process	9/1/2027
Develop a list for stores of available ways to recycle what they don't already	9/1/2028
Develop a reporting form they could use	9/1/2029
Compile a list of what materials the stores collect and where they send it	9/1/2030
Activity 4.3 Waste characterization and feasibility study	Due Date
Prepare an RFP to perform study	2/1/2030
Select consultant	6/1/2030
Perform Study	9/1/2030
Activity 4.4 Hauler Reporting	Due Date
Request data at a County level	

4.0 ADDITIONAL DATA GATHERING

Data reporting procedures in-place



5.0 PUBLIC EDUCATION

OUTCOMES:

Develop and distribute a comprehensive public education campaign.

Recycling
Composting

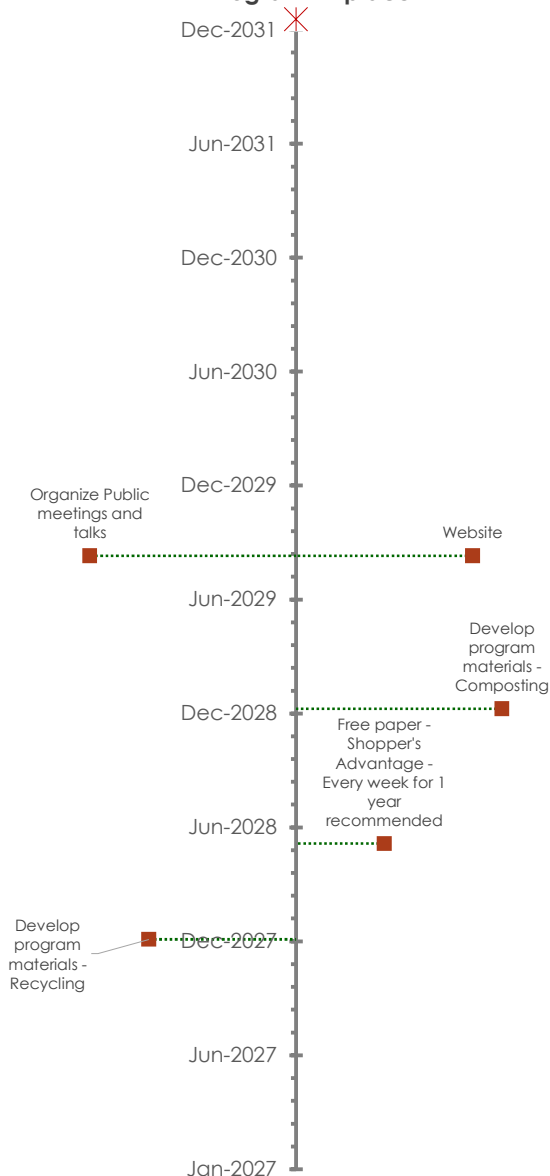
Community Outreach - Organize public meetings and talks.

DUE DATE: 1/1/2032 Public Education Program In-place

Activity 5.1 Develop program materials - Recycling	Due Date
Develop program materials - Recycling	1/1/2028
Activity 5.2 Develop program materials - Composting	Due Date
Develop program materials - Composting	1/1/2029
Activity 5.3 Community Outreach	Due Date
Organize Public meetings and talks	9/1/2029
Potential locations include: MSU Extension, HDC, Senior center, 4-H fair	
Lions Club, Knights of Columbus, Rotary, Chamber of Commerce,	
League Women Voters, Farmers markets, parades	
Activity 5.4 Publish Program Materials	Due Date
Free paper - Shopper's Advantage - Every week for 1 year recommended	6/1/2028
Website	9/1/2029

5.0 PUBLIC EDUCATION

Public Education Program In-place



6.0 SCHOOL RECYCLING

OUTCOMES:

Curriculum to educate and encourage participation

Help schools find grant funding
Provide educational materials to schools and summer camps
Talks/MRF tours for after-school programs and summer camps
Career centers

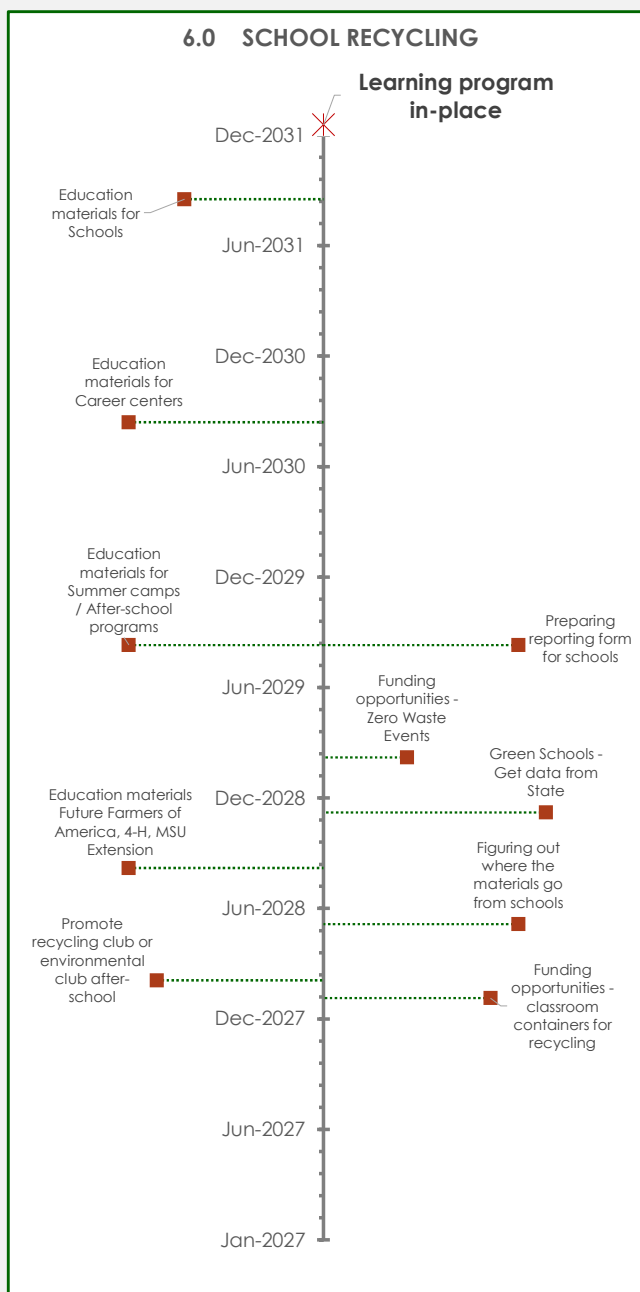
Infrastructure to support collection.

Classroom containers for recyclables
Reduce food waste (food rescue "share table")
Support Low/Zero Waste school events

DUE DATE:

1/1/2032 Learning program in-place

Activity 6.1 Curriculum to educate and encourage participation	Due Date
Education materials for Schools	9/1/2031
Education materials for Summer camps / After-school programs	9/1/2029
Education materials for Career centers	9/1/2030
Education materials Future Farmers of America, 4-H, MSU Extension	9/1/2028
Partnership to attend their event.	
Activity 6.2 Reporting for current composting and recycling rates	Due Date
Figuring out where the materials go from schools	6/1/2028
Preparing reporting form for schools	9/1/2029
Green Schools - Get data from State	12/1/2028
Activity 6.3 Classroom containers for recycling/composting/food rescue	Due Date
Funding opportunities - classroom containers for recycling	2/1/2028
Activity 6.4 Support low/zero waste school events	Due Date
Funding opportunities - Zero Waste Events	3/1/2029
Promote recycling club or environmental club after-school	3/1/2028



7.0 INCREASE COLLECTION OF HHW AND E-WASTE

OUTCOMES:

Increase HHW collection capacity
Funding and grant opportunities.

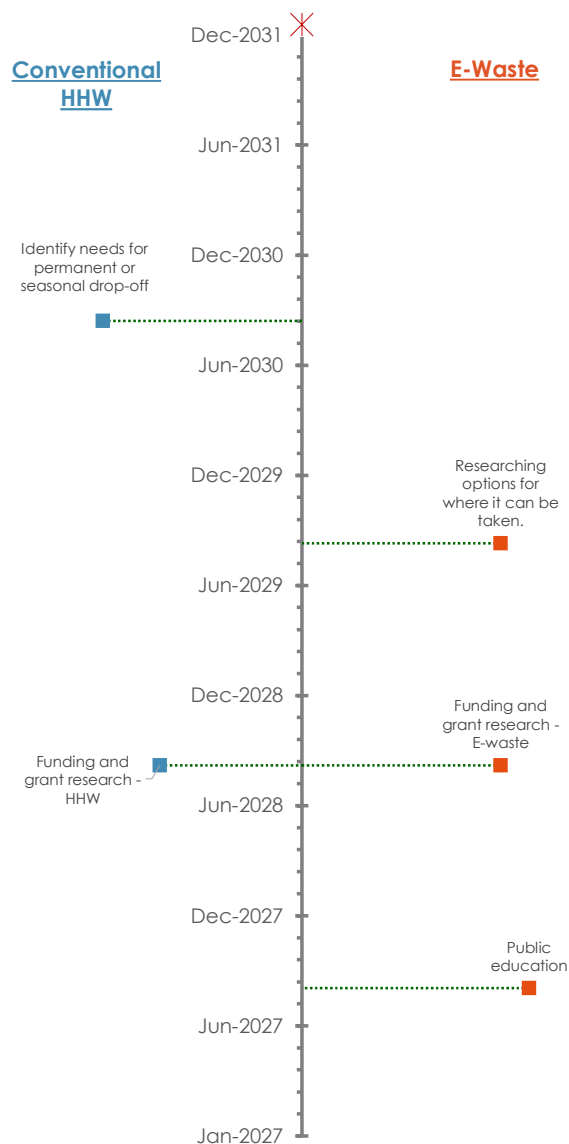
Increase E-waste collection capacity.
Funding & public education

DUE DATE: 1/1/2032 Goal reached

Activity 7.1 HHW collection capacity	Due Date
Funding and grant research - HHW	9/1/2028
Identify needs for permanent or seasonal drop-off	9/1/2030
Chemical jug and container recycling - Huron County has a collection	
\$25k Clean Sweep through MDARD	
Tuscola County	
Activity 7.2 E-waste collection capacity	Due Date
Funding and grant research - E-waste	9/1/2028
Researching options for where it can be taken.	9/1/2029
Public education	9/1/2027
Tuscola County	
Activity 7.3	Due Date
Activity 7.4	Due Date

7.0 INCREASE COLLECTION OF HHW AND E-WASTE

Goal reached



APPENDIX F

Public Education Materials

ACCEPTABLE ITEMS

 **RECYCLE RIGHT, MICHIGAN:** These items are acceptable in your recycling bin. No sorting or bagging required. Ensure all items are **EMPTY AND CLEAN**.

PLASTICS

WHAT **EMPTY AND CLEAN** Plastic Bottles, Containers and Cups



GLASS

WHAT **EMPTY AND CLEAN** Bottles and Jars (All Colors)



CARTONS

WHAT **EMPTY AND CLEAN** Boxed Food and Beverage Cartons, Paper Cups



METAL

WHAT **EMPTY AND CLEAN** Aluminum and Steel Cans, Aluminum Foil



PAPER

WHAT Newspaper, Magazines, Printed Paper and Shredded Paper
HOW Shredded paper in a paper bag. This is the only item that should be bagged



CARDBOARD

WHAT **FLATTENED AND DRY** Cardboard 2" x 2" tied



UNACCEPTABLE ITEMS - These items are NOT accepted with your recycling and require alternative handling.



Organic, kitchen, yard and animal waste.



Hazardous waste like paint, gas or aerosol cans, sharp objects, electronics and batteries.



Scrap metal, wires and cables, home and construction waste.



Napkins, paper towels and food soiled cardboard.



Styrofoam™ packaging materials and takeout food/beverage containers.



Textiles, housewares, windows, ceramics, and other reusable items.



Large plastic products like bins or trays, pouches, plastic bags, and toys.



Diapers and personal hygiene products.

COLLECTION INFORMATION



TRASH AND RECYCLING IS PROVIDED WEEKLY. COMPOST IS PICKED UP WEEKLY, APRIL THROUGH NOVEMBER (see calendar). If a holiday falls on or before your scheduled day, pickup will be one (1) day later than normal. If a holiday falls on a weekend, your scheduled pick up day will NOT change.

OBSERVED HOLIDAYS ARE: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

ALL MATERIALS SHOULD BE SET AT THE CURB BY 6:00 A.M. on the scheduled day of pick up. Containers should not weigh more than fifty (50) pounds each. For those with special pick up needs, contact Ira Township.

UNACCEPTABLE MATERIALS: Tires, concrete, fencing, any contractor/construction generated materials, free liquids (paints, pesticides, etc), car parts, appliances containing Freon, fluo-rescent bulbs (in excess of seven per household), and car batteries.

RESIDENTS with special needs pick up requests, please call Emterra at 1-877-609-6753 for assistance.

COMPOST/YARD WASTE

EMTERRA ENVIRONMENTAL USA WILL PROVIDE COMPOST/YARD WASTE PICK UP TO CITY OF BAD AXE RESIDENTS. YARD WASTE WILL BE PICKED UP EVERY WEEK. PLEASE PLACE CURBSIDE BY 7AM ON DAY OF SERVICE. SERVICE WILL RUN APRIL 1, 2022 THROUGH NOVEMBER 26, 2022.

Place yard waste in brown yard waste bags or in plastic 30-gallon containers clearly marked "X" facing the street. Branches are to be no more than two (2) inches in diameter, no longer than four (4) feet in length, and must be bundled. Bundles and containers must weigh less than 50 pounds. No tree stumps or trunks are accepted. No yard waste will be accepted in plastic bags.

**YOU DO NOT NEED TO SORT RECYCLABLE ITEMS.
NO PLASTIC BAGS OR STYROFOAM ARE ACCEPTED.**



EMTERRA
Environmental USA

EMTERRA ENVIRONMENTAL CUSTOMER SERVICE

1-989-658-2594 | www.EmterraUSA.com | 4151 S. McMillan Rd. Bad Axe, MI 48413



ACCEPTABLE RECYCLABLE MATERIALS



PAPER

Newspaper, junk mail, flattened cardboard and box board, magazines, mixed paper



METAL

Empty cans and aerosol cans, aluminum, tin



PLASTIC

Bottles, jugs, storage containers, tubs



GLASS

Clear and colored glass

NOT ACCEPTED MATERIALS



PLASTIC BAGS OR FILM



PLASTIC CUPS



POLYSTYRENE



FOOD WASTE



STORAGE BAGS



SOILED PIZZA BOXES



CERAMICS



BUBBLE WRAP PACKING MATERIALS



PLASTIC SILVERWARE



METAL OR PLASTIC HANGERS



PRIORITY
INNOVATE • OPERATE

What can be recycled?

Recyclable

These items can be recycled in one container with All-in-One Recycling™



Paper

Newspaper
Envelopes
Junk mail
Phone books
Brochures
Magazines



Cardboard

Ream wrappers
File folders
Poster board
Frozen food boxes
Cardboard boxes
Milk cartons



Plastic

Water bottles
Take-out containers
Soda bottles



Aluminum/Metal

Aluminum beverage cans
Food cans
Scrap metal



Glass*

Beverage containers
Glass food jars

*Glass recycling varies by location.

Special handling

These items should never be mixed with regular recycling and require special handling. Learn more at RepublicServices.com

Incandescent light bulbs
Fluorescent tubes
Computers & electronics
Needles or syringes
Hazardous waste
Paint
Toxic material containers
Yard waste

Non-recyclable

Aerosol cans	Plastic bags
Aluminum foil	Shredded paper
Batteries	Stickers/Address labels
Clothing	Tissue
Food waste	Styrofoam
Napkins	Paper towels
Mirrors	Glass windows
Ceramic	Pyrex

For more information on recyclables, visit RepublicServices.com



We'll handle it from here.™



How to Prepare Recyclables

Include only acceptable items

Check the Waste Wizard tool for disposal and recycling information. The tool is free and available on SOCRRA's website or as a free mobile app.

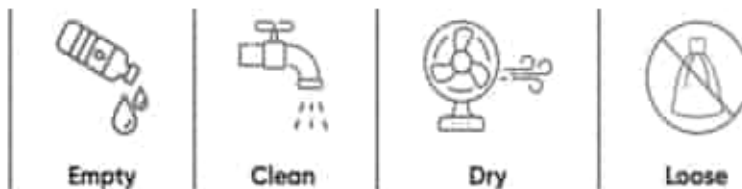
www.socrra.org/waste-wizard



Set out to the curb before 6am on your collection day.

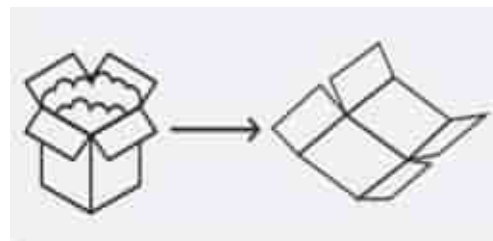
Keep your recyclables empty, clean, dry, and loose.

Do not place recyclables in plastic bags. These steps help prevent contamination of other recyclables.



How to Prepare Cardboard

All cardboard must be placed in the cart for collection. Please flatten completely and cut it into 2 x 2 ft sections. Please remove and dispose of all packing material. Beware! Cardboard jammed into the cart may get stuck, so please follow the guidelines to ensure your cart can be fully emptied.



See the back of this page to see what we do recycle and what is not recyclable.

Below is a list of items that are recyclable:		Items that are not recyclable:
	☒ Plastics Recycle plastics #1, #2, #4, #5 and #7. Look at the bottom of the containers for a number inside the recycling arrows.	• Plastic Bags (grocery, bread, ziploc, NO bags) • Plastic Food wrappers • Plastic without numbers • Styrofoam • Shredded paper • Greasy food containers • Food or liquid waste • Paper towels • <u>Yard waste</u> • Construction debris • Hangers • Scrap metal • Hazardous waste • Electronics, ink cartridges • Cables or batteries • Diapers • Tissue • Bio-hazardous waste • Light bulbs • Ceramics • Dishes, windows mirrors • Hoses • Toys • Clothes • Shoes • Tools • Plastic straws • To go lids • Holiday decorations • Hardcover books • Brooms, swiffer mops
	☒ Metal Cans Recycle all food and beverages, metal can steel, tin bimetal and aluminum.	
	☒ Cardboard smaller than 2x2 ft, Newspaper, and Magazines You can also include newspaper inserts, catalogs, paperback books, phone books and brochures.	
	☒ Paper Food Containers Recycle food boxes including juice boxes, egg cartons, ice cream and milk cartons, cereal, and pasta boxes. No pizza boxes due to the grease.	
	☒ Paper Recycle envelopes, office paper (NOT SHREDDED), junk mail, greeting cards and file folders.	
	☒ Glass Bottles (Clear, green, and brown) & Jars	

How to Recycle at Home



Step 1: Grab Two Containers

Whether you use new containers, repurposed boxes or reusable bags, set your recycling container next to the trash bin — this works for recycling in your home or at work.



Step 2: Label Both Containers

Download and print recycling and trash labels and place them on each container to ensure the right items go into the right bins.

Step 3: Start Recycling

Remember, recycling right is as easy as recycling clean bottles, cans, paper and cardboard. Download posters from the Recycling Resources section using the QR code and put them on your refrigerator or place them by the recycling bins.

Step 4: Keep Plastic Bags Out

Plastic bags can shut down an entire recycling facility, so don't toss loose plastic bags into your curbside recycling bin, and never bag your recyclables. Put your loose recyclables directly into the bin.

Step 5: Better Together

Recycling is easy and convenient. Toss your clean and dry bottles, cans, paper and cardboard together in your recycling container. Empty smaller bins used throughout your home or business into your large recycling bin, and remember to free your recyclables — no plastic bags.

Step 6: Keep It Up

The easiest way to be an avid recycler is to make a commitment to recycle the right way, every day. Once you get into that groove, you'll find recycling seamlessly integrates into your everyday life. Making a difference takes us all, so go and share your passion for recycling with family and friends.

Remember These Three Basic Rules of Recycling:



Recycle clean bottles, cans, paper and cardboard.



Keep food and liquid out of your recycling.



No loose plastic bags and no bagged recyclables.

**RECYCLE
RIGHT** 

To learn more,
visit wm.com/recycleright

Scan the QR code for
more information:



How to Recycle at Work



Step 1: Grab Two Containers

Whether you use new containers, repurposed boxes or reusable bags, set your recycling container next to the trash bin — this works for recycling in your home or at work.



Step 2: Label Both Containers

Download and print recycling and trash labels and place them on each container to ensure the right items go into the right bins.

Step 3: Start Recycling

Remember, recycling right is as easy as recycling clean bottles, cans, paper and cardboard. Download posters from the Recycling Resources section using the QR code and put them on your refrigerator or place them by the recycling bins.

Step 4: Keep Plastic Bags Out

Plastic bags can shut down an entire recycling facility, so don't toss loose plastic bags into your curbside or commercial recycling bin, and never bag your recyclables. Put your loose recyclables directly into the bin.

Step 5: Better Together

Recycling is easy and convenient. Toss your clean and dry bottles, cans, paper and cardboard together in your recycling container. Empty smaller bins used throughout your home or business into your large recycling bin, and remember to free your recyclables — no plastic bags.

Step 6: Keep It Up

The easiest way to be an avid recycler is to make a commitment to recycle the right way, every day. Once you get into that groove, you'll find recycling seamlessly integrates into your everyday life. Making a difference takes us all, so go and share your passion for recycling with family, friends, and co-workers.

Remember These Three Basic Rules of Recycling:



Recycle clean bottles, cans, paper and cardboard.



Keep food and liquid out of your recycling.



No loose plastic bags and no bagged recyclables.

**RECYCLE
RIGHT** A green triangle and a red hexagon.

To learn more,
visit wm.com/recycleright

Scan the QR code for
more information:





Mixed Curbside Residential Recycling Myths



Three Basic Rules



Recycle empty and dry bottles, cans, paper and cardboard.



Keep food and liquid out of your recycling.



No loose plastic bags and no bagged recyclables.

Use these recycling rules and expert tips to help dispel recycling myths and become an effective recycling ambassador.





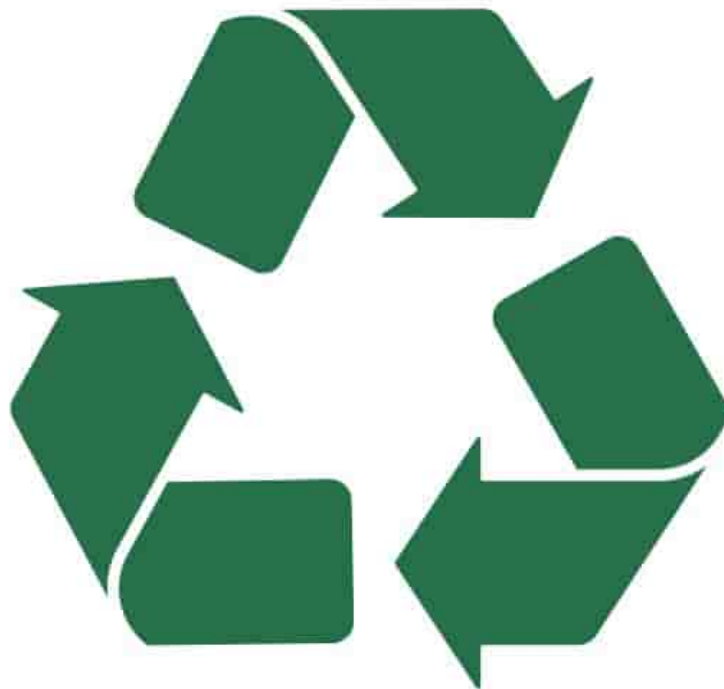
MYTH:

Most Americans recycle all they can.

ANSWER: False.

Research shows convenience and commitment are needed for maximum recycling. For instance, do you have recycling containers in multiple rooms in your home? If not, recyclables in rooms other than the kitchen often get thrown away. Plus, the more members in a household who commit to recycle, the better the quality of the materials they recycle.





MYTH:

The recycling arrows symbol on a product means it is recyclable at a WM Recycling Facility.

ANSWER: Only in some cases.

Manufacturers strive to provide recyclability information on their product labels. However, the mobius is not a reliable indicator of whether something is acceptable to recycle in your mixed curbside recycling. There are thousands of plastic products and packaging, and each may have its own unique chemical composition that may require a different recycling solution. Instead, a better practice is to recycle plastics by shape in your curbside container: bottles, jars, jugs and tubs.





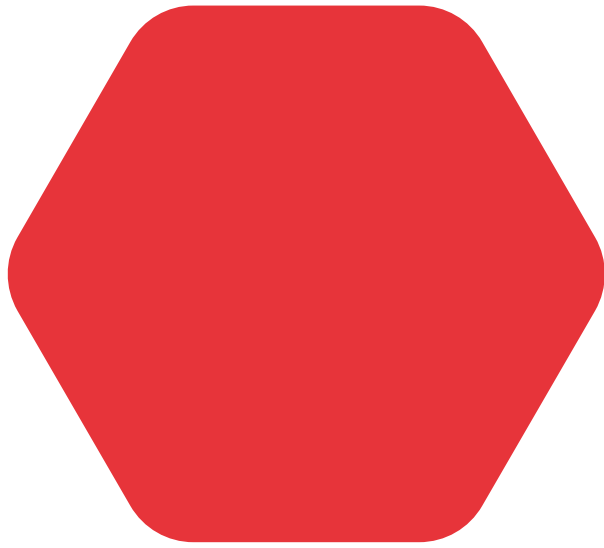
MYTH:

Containers must be squeaky clean to be recycled.

ANSWER: False.

While all bottles, cans and containers should be clean, dry and free of most food waste and liquids before you place them in your recycling container, they don't need to be spotless. The goal is to make sure they are clean enough to avoid contaminating other materials, like paper. Try using a spatula to scrape cans and jars, or using a small amount of water, and shake the container to remove most residue.





MYTH:

If it doesn't belong in the recycling cart, it will get sorted anyway.

ANSWER: False.

There are increasing amounts of non-recyclable items sent to WM Recycling Facilities. Non-recyclable items placed in your recycling containers can increase the cost of recycling, slow the process and pose safety risks to employees. Focus on only on putting clearly recyclable materials in your cart: Clean bottles, cans, paper and cardboard. If you're not sure whether something is recyclable, throw it in the garbage to protect the acceptable recyclable items in your container!





MYTH:

All types of plastic items including hoses, shower curtains, and swing sets are recyclable.

ANSWER: False.

If it's not bottles, cans, paper or cardboard it probably doesn't belong in your curbside mixed recycling cart and may even require special handling. Just because an item is made from plastic, or contains plastic parts, doesn't mean recycling facilities can handle it. There are other resources (e.g., Earth911.org) that can help answer questions about what to do with non-recyclables or household hazardous waste.



MYTH:

Aerosol cans are recyclable.

ANSWER: Varies by municipality.

Most recycling programs accept empty and dry aerosol cans without the caps. However, aerosol cans can pose a safety hazard if not completely empty. Check with your local municipality for more information.





MYTH:

All types of glass bottles and jars are recyclable.

ANSWER: Varies by municipality.

Glass recycling varies by municipality across the U.S. Some communities collect glass at drop-off locations only, some collect glass separately at the curb or with other containers and many include glass with all other recyclables.



How Recycling Works



1. Recyclables go in the recycling bin. You can recycle paper, cardboard, bottles, cans and containers.



2. The recyclables are picked up from homes and businesses and brought to a WM recycling facility.



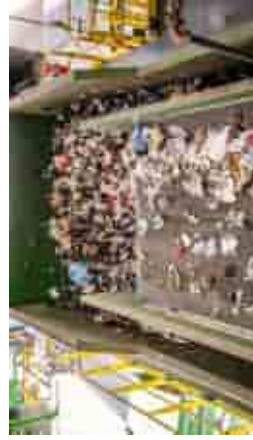
3. The materials in the truck are unloaded on the recycling facility's tipping floor.



4. The materials enter the facility on a conveyor to begin the sorting process.



5. The cardboard, paper, and other fibers are separated from cans, containers, glass, and bottles.



6. An eddy current and magnets are used to sort aluminum and tin cans into a metal-only stream. Then, plastics are sorted by type.



7. The sorted materials are stored, compacted into bales, and shipped to end markets.



8. End markets use the recyclable materials as feedstock for new products.



Learn more about recycling with WM by scanning the QR code:



Most Common Contaminants

Keep these common contaminants OUT of your recycling bin.



No Recyclables In Plastic Bags

Empty recyclables directly
into your bin.



No Food or Liquids

Compost instead! Otherwise
it belongs in the trash.



No Batteries, Power Tools, Flammables or Hazardous Waste*

(Not in recycling or trash.)

Batteries, propane tanks, and
similar items can be a fire or
explosion hazard.



No Loose Plastic Bags or Film

Take plastic bags back to local
retailers where available.



No Electronics or Small Appliances

Donate if in good condition,
or schedule a bulky item
pickup, if available.



No Textiles, Bedding, Rugs or Carpet

Donate these items if they
are in good condition. Rugs
and carpets can be placed in
a Bagster® bag. Visit
thebagster.com to learn more.



No Tanglers, Holiday Lights, Hangers or Extension Cords

They wrap around
equipment and can shut
down an entire facility!
They all go in the trash.



No Paper Towels, Napkins, Plates or Tissues

Compost if possible, and
remember to recycle the
cardboard tube.



No Foam Cups, Containers or Straws

Foam is not accepted
in single stream
recycling.



No Tires, Auto Parts or Scrap Metal

(Not in recycling or trash.)

Can damage equipment
and are safety hazards.
Contact your local scrap
recyclers or retail tire stores
for recycling options.



No Concrete, Wood or Construction Debris

Can damage equipment.
Consider ordering a roll off
container on wm.com or a
Bagster® bag by visiting
thebagster.com.



No Yard Waste

Compost or put in your
yard waste cart, if available.
Otherwise it belongs in
the trash.

* Visit www.wmlamptracker.com or contact your local public works department for proper disposal to explore battery recycling services.



Always Recycle



**Plastic Bottles, Cups
& Containers**



Paper & Paper Cups



Glass Bottles & Containers



**Flattened Cardboard
& Paperboard**



Food & Beverage Cans



Do Not Include In Your Recycling Container



**NO Batteries, Power Tools,
Flammables or Hazardous Waste**



**NO Foam Cups, Containers
or Straws**



NO Food or Liquids



**NO Clothing, Furniture
or Carpet**



**NO Loose Plastic Bags,
Bagged Recyclables or Film**

Empty recyclables
directly into your bin



NO Green Waste

[SOLID WASTE](#) / [FOR HOME](#) / [RESIDENTIAL SOLID WASTE](#) / [RECYCLING COLLECTION](#) /

ACCEPTABLE MATERIALS

Acceptable Materials for Recycling Collection



What is recycling?

Please note: accepted materials vary by location. The list below provides a general guide on what can be recycled. For more information, [contact your local branch](#).

Recycling is the process of separating specific reusable materials from garbage streams and diverting them to facilities that will repurpose them for reuse.

Recycling offers a sustainable alternative to regular waste streams by decreasing input into municipal landfills. It's essential to the future of our planet to drastically reduce the environmental impact of our waste materials and ensure that scarce resources are recovered and reused.

At GFL, our recycling operations involve materials such as wood, paper, cardboard, plastic, glass, aluminum and other metals. We collect, sort and prepare these materials for market and future use as recycled material. In some locations, we have our own state-of-the-art Material Recovery Facilities (MRFs) where we process recyclables into high-quality commodities.

What can I recycle?

When it comes to recycling, awareness is key. Contamination is the biggest issue impacting successful recycling practices today, when people throw in items they shouldn't, such as grease-soaked cardboard, plastic bags or paint cans. This is why it's important to know what you can recycle and what you can't.

It's also important to note that accepted items vary by location and facility. Below is a general guide to what you can recycle, but this is NOT location specific. To ensure you are recycling correctly, please contact your local GFL branch or recycling center to get a list of accepted items.**

USUALLY ACCEPTED: Plastic recycling

Includes all CLEANED plastic bottles and jars #1 to #7: soft drink bottles, milk jugs, detergent bottles, FLATTENED cartons, etc. Check the bottom of the container. If you see the recycling symbol with a #1, 2, 3, 4, 5, 6, or 7 in the center, it is acceptable.

USUALLY ACCEPTED: Metal recycling

Includes aluminum cans, pie and baking pans, tin cans, steel food containers, EMPTY aerosol cans, and lids. Metal beverage cans, baking tins, foil, and food containers are also included in this material category.

All items must be CLEAN OF FOOD.

USUALLY ACCEPTED: Cardboard recycling

Includes corrugated cardboard, shipping boxes, cereal and dry food boxes, shoe boxes, tissue boxes, moving boxes, detergent boxes, soda/beer cartons, and paper towel/toilet tissue rolls.

All boxes MUST BE FLATTENED for proper disposal.

USUALLY ACCEPTED: Paper recycling

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SOMETIMES ACCEPTED: Glass recycling

NOTE: Many areas are no longer accepting glass, so please double check before including it in your container. If accepted, items usually include:

Bottles and jars – lids must be REMOVED and separated and the item must be CLEANED of all food and liquid waste before being placed inside the container.

What can't I recycle?

- Styrofoam
- Window glass and mirrors
- Electronic waste (TVs and computers)
- Motor oil containers
- Yard waste
- Chemical containers
- Shredded paper
- Plastic bags
- Ceramics or dishes
- Food waste
- Scrap metal
- Monitors

****Please check with your local branch for details of what's accepted and what isn't in your area. This general list does not apply everywhere, but it follows the most common practices, so always double check to avoid contamination.**

SIGN UP FOR SERVICES

OTHER SERVICES IN RESIDENTIAL SOLID WASTE



Placement Guidelines

Placement Guidelines

LEARN MORE

SEE ALL FOR HOME

APPENDIX G

Funding Mechanism Fact Sheets

RESIDENTIAL RECYCLING INITIATIVE

GUIDE: USE OF SPECIAL ASSESSMENTS TO FUND RECYCLING SERVICES & FACILITIES



WHAT IS A SPECIAL ASSESSMENT?

A special assessment is a charge against real property (i.e., immovable property such as land and structures – not personal property) for an improvement or service that confers a benefit to those living within the special assessment district.

Special assessments are used by municipalities to fund projects or services that would otherwise not be possible, such as road repairs, water and sewer mains, street lighting, police and fire protection, and garbage and recycling services.

Special assessments can be used in conjunction with general fund revenues, service fees, user charges, grants, or other sources of funding.

HOW DOES A SPECIAL ASSESSMENT DIFFER FROM A TAX OR FEE?

Special assessments are often confused with property taxes, since most municipalities find it easiest to include special assessments on the property tax bill. Unlike taxes, special assessments are not levied on personal property, are not subject to constitutional/statutory limitations like the Headlee Amendment, do not require a vote of the electors, and are not tax deductible under the State Homestead Tax Credit or on Federal Income Tax. Unlike a tax, a special assessment must convey a specified benefit. In addition, special assessments can be included in the tax effort used to qualify for shared state revenues.

Special assessments differ from user fees in that they are imposed in advance of a project or service.

PROS	CONS
Flexibility to levy assessment against only specified properties, which can keep certain residents from being double-billed for a service.	Not tax deductible for residents.
Under many statutes, the government unit is authorized to determine the rate and duration of the levy.	May yield less funding than a general tax if there is an extensive personal property base.
Increased revenue that qualifies for revenue-sharing.	Administrative costs and work may be greater than for other mechanisms, such as a voted millage, depending on the community.
Public hearing requirements give residents the chance to comment and participate.	

BEFORE YOU BEGIN:

The Michigan Townships Association recommends these steps prior to initiating procedures required by statute:

- Petition to measure interest.
This is not a required step under most statutes and no specific petition forms are required.
- Informational meeting to explain project scope and cost.

HOW IS A SPECIAL ASSESSMENT ACCOMPLISHED?

1. Decide which statute to use.

Following is a list of statutes commonly used to fund garbage and recycling collection and facilities. This list should not be considered exhaustive – there may be other statutes that are a better fit for your project or community.

Act 188 of 1954 (Township Public Improvement Act) – Township

This is the most frequently used statute for special assessments and contains specific procedural requirements and descriptions. This statute has the advantage of allowing a township board to correct any procedural errors from the stage where the error occurred, instead of requiring the process to start again from the beginning.

41.722(1)(f) Collection and disposal of garbage and rubbish

tinyurl.com/pbante6

Act 116 of 1923 (Township and Village Public Improvement and Public Service Act) – Township or Incorporated Village

Authorizes a township or incorporated village to establish and maintain garbage and mixed refuse systems, plants for collection and disposal of garbage and mixed refuse, or contracting for such collection and disposal not to exceed 30 years [41.411(1)(a)].

Note: a petition must be signed by 51% of land owners in the assessment district in order to initiate under this statute.

tinyurl.com/luwwmwd

Act 342 of 1939 (County Public Improvement Act of 1939) – County

Authorizes a county board of commissioners to establish garbage or rubbish collection and disposal facilities; or services within or between cities, villages, townships, charter townships; or any combination of government units within or without of the county.

tinyurl.com/kkhrn38

Act 233 of 1955 (Municipal Sewage and Water Supply Systems) – County, city, village, township

Authorizes an incorporation of municipal authorities to acquire, operate, and improve solid waste management systems, form contracts between such authorities and public corporations, and raise funds through bonds or assessments.

tinyurl.com/lbnwfzu

Act 185 of 1957 (County Department and Board of Public Works) – County

Authorizes a county to establish a department and board of public works, incur contract obligations, levy taxes, issue/pay bonds, and do special assessments.

123.737(7)(c) Acquire a refuse system within one or more areas of the county and improve, operate, and maintain the system.

tinyurl.com/lk7wlpo

Act 69 of 2005 – County and local units

Authorizes a county to work with local units via interlocal public agreements to establish recycling, composting, and household hazardous waste projects. Permits the collection of surcharges.

tinyurl.com/q7ls5he

Act 76 of 1965 (Joint Water Supply and Waste Disposal Systems) – All local units and other states

Authorizes units of government to construct waste disposal systems or contract for use of such facilities through agreements with governmental units, entities, or agencies of another state.

tinyurl.com/o62ylxw

2. Carefully follow procedural requirements in the statute.

If procedures are not detailed in the statute, it is recommended that you reference Act 188 of 1954 (Township Public Improvement Act).

Along with the authorizing statute, special assessments must also adhere to these statutory requirements:

- PA 162 of 1962 – Notice of assessment prior to each hearing
- PA 267 of 1976 – Notice and meeting requirements of the Open Meetings Act must be observed throughout
- PA 64 of 1988 – Notification of right to protest and appeal
- PA 65 of 1988 – Property owners must first protest a special assessment at a public hearing held to confirm the assessment roll before appealing to the Michigan Tax Tribunal

3. Apportion assessments

The amount levied in a special assessment is determined by the authorized government unit. Typical methods of assessment are based on front footage, total land area or value, per parcel, per dwelling, degree of accessibility/distance from project, or a combination of several methods or weighted factors. (See “Special Assessments – A Technical Manual” prepared by Michigan Townships Association (MTA) for a discussion of apportionment and corner lots.)

Often, the general public may also benefit from a special assessment project or service. In these cases, a government unit may decide to cover part of the cost through general funds, service fees, grants, or other funding sources.

The amount levied does not have to be uniform or applied to all parcels in the government unit – it is based on a determination of how much each parcel benefits from the project/service. This does not mean that strict dollar equality must be used, but the assessment should be reasonably proportionate to the benefit (L. Thomsen, Michigan Township News, Oct, 2005).

Be aware that property that is tax exempt, such as churches, schools, and public service properties, may not be exempt under special assessment statutes.

Careful consideration of apportionment should be done before holding any public hearings, especially if there are large differences in the amounts levied on parcels. Initial over-estimation of assessments is recommended, as it is easier to reduce estimates than to increase them.

Assessments that cover recurring expenses are often imposed one year at a time. This is generally done for services such as recycling, police and fire protection, weed control, and street lighting. This requires a new assessment roll to be reviewed by the government unit at a public hearing each year.

GENERAL OUTLINE OF SPECIAL ASSESSMENT ADMINISTRATION

(Note: procedural details will vary based on the statute used.)

I. Initiation

II. Planning

- a. Project plans
- b. Cost estimate (project total, admin/legal costs, cost to each resident)
- c. Assessment district
- d. File information with clerk

III. Notice of first public hearing

- a. Mail each property owner to be assessed and make an affidavit of mailing
- b. Put notice in local newspaper twice and retain proof of publication

IV. First public hearing

- a. Keep a record of attendance
- b. Keep meeting minutes that reflect all comments
- c. Address issues identified by comments or written submissions

V. Resolution to proceed

- a. Preparation of special assessment roll and file with clerk

VI. Notice of second public hearing

- a. Mail each property owner to be assessed
- b. Put notice in local newspaper twice

VII. Second public hearing

VIII. Confirm resolution

Special assessment can only be challenged by an appeal to the Michigan Tax Tribunal within 30 days.
(Exception for parcels that are split after assessment.)

IX. Collect assessments

RESOURCES:

Special Assessments – A Technical Manual for Townships, prepared by the MTA (2011). This manual contains sample forms and templates, including: citizen petition, notice of hearing, affidavit of mailing, board meeting minutes, and warrant for collection of special assessment roll. Library link: elibrary.mel.org/record=b24831130~S15. This manual can be purchased from the MTA store: www.michigantownships.org/mta_store.asp

You Get What You Pay For: Special Assessments Fund Public Improvements, by Lynda E. Thomsen (Michigan Township News, October, 2005) available online at eagleharbortwp.org/pdf/lmric/.

Municode (database of municipal codes): www.municode.com/library/mi

Michigan Legislative Website: [www.legislature.mi.gov/\(S\(fmb2oxhs3qsnzn01tjngiag4\)\)/mileg.aspx?page=Home](http://www.legislature.mi.gov/(S(fmb2oxhs3qsnzn01tjngiag4))/mileg.aspx?page=Home)

Michigan Department of Environmental Quality – Recycling Program: www.michigan.gov/mirecycles



Michigan Department of Environmental Quality
PO Box 30457
Lansing, MI 48909-7957

800-662-9278
www.michigan.gov/mirecycles

This document is a general guide only, and should not take the place of consultation with a municipal or township finance and law specialist. These organizations can connect you with experts in your area:

Michigan Townships Association: www.michigantownships.org

Michigan Municipal League: www.mml.org/home.html

Michigan Association of Counties: www.micounties.org

RESIDENTIAL RECYCLING INITIATIVE

GUIDE: OPERATIONAL AND FUNDING OPTIONS FOR MUNICIPAL RECYCLING PROGRAMS



OPERATIONS

A municipal program should, at a minimum, provide for the collection of residential recyclable material at the residents' curbs, at one or more drop-off sites, or a combination of both. Whether the municipality chooses to process and/or market the collected recyclables will need to be determined by the municipality, as well as the types of recyclable materials to be collected by the program. The options listed below represent only a sampling of different options that a municipality could implement. Each municipality should determine the best option(s) based on individual circumstances.

OPERATIONAL OPTIONS:

- Operate their own equipment to collect the recyclables and deliver them to their own material recovery facility (MRF) for processing and marketing.
- Operate their own equipment to collect the recyclables and contract with and deliver them to another public or private MRF for processing and marketing.
- Contract with one or more public or private haulers to collect the recyclables and have them delivered to either their own MRF or contract and deliver them to a MRF of the municipality's choosing.
- Contract with one or more public or private hauler(s) to collect the recyclables and have the contracted hauler(s) deliver them to a MRF of the contracted hauler(s) choosing.
- Require by ordinance that any public or private solid waste hauler operating within the jurisdiction of the municipality obtain a license to operate within the municipality. The license provision can require the solid waste haulers to meet certain recycling and/or solid waste collection requirements such as providing curbside and/or drop-off recycling services. The ordinance could also require other provisions such as offering variable, volume- based pricing for the collection of solid waste. Volume based pricing provisions often result in an increase in the amount of recycled material collected by the program.

Depending on the option chosen, the municipality can fund the program itself, or require through contract that the service provider bill residents directly.

FUNDING OPTIONS:

- General fund dollars can be used to fund the entire program costs or a portion of the costs. A special assessment fee can be used by municipalities to provide an improvement or service that benefits those living in the municipality, such as recycling and solid waste services. Depending on the type of fee, voter approval is not required. Below are two examples of special assessments that are currently being used to fund recycling programs in Michigan.
1. Under Public Act 185 of 1957, counties can create a board and department of public works that can incur contract obligations, levy taxes, issue/pay bonds and implement special assessments in order to establish, improve, operate, and maintain a recycling program within one or more areas of the county. Program costs are usually estimated in advance and the fees are evenly distributed to each household living within the municipality's jurisdiction.

2. Under Public Act 69 of 2005, counties can work with some or all of their local units to establish recycling, composting and/or household hazardous waste projects. The county can collect up to \$25/year from households in the local units that have approved an agreement with the county. Further, subject to the approval of local voters, the county may collect up to \$4 per month or \$50 per year. Commercial businesses could be subject to the surcharge, with voter approval. To hold an election on the increased surcharge, the county board of commissioners must pass a resolution with specific information. The initial authorization for the additional surcharge is for a period of five years. Subsequent authorizations are for at least 10 years. The surcharge approved by voters would not apply to vacant land, land owned by a public utility, rights-of-way, and easements that do not generate solid waste.

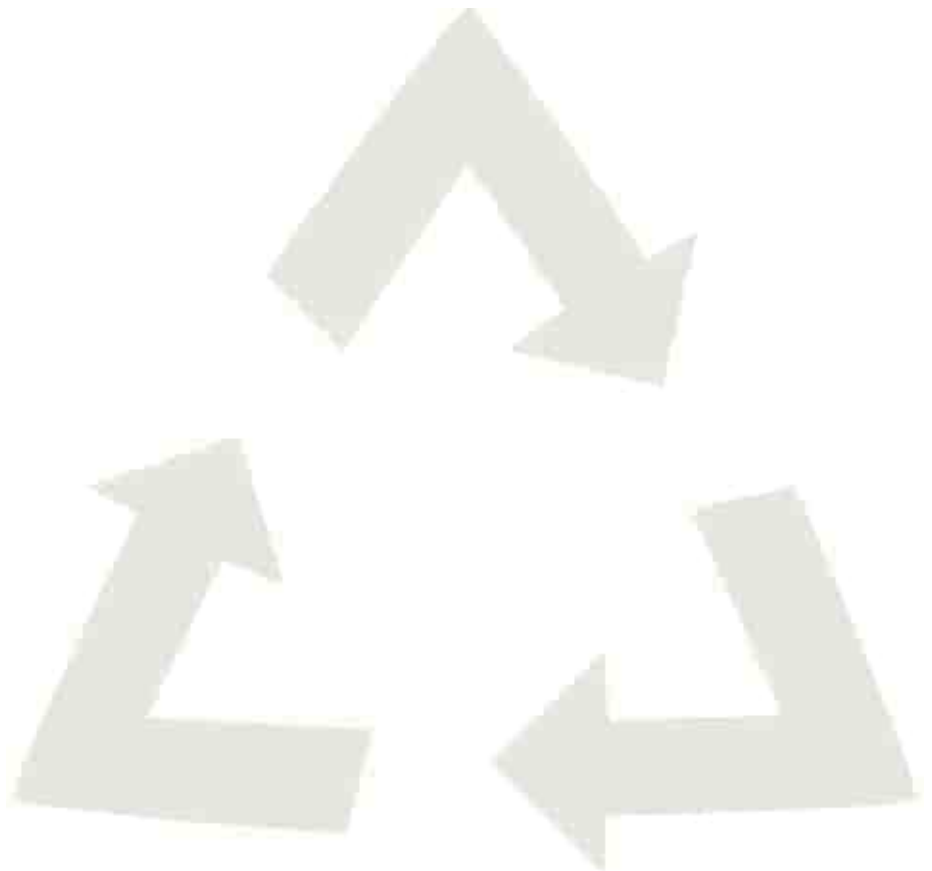
See the Michigan Department of Environmental Quality's (DEQ's) guide on special assessments (http://www.michigan.gov/documents/deq/ResidentialRecycling-SpecialAssessments-web_489180_7.pdf) for further information on special assessments at www.michigan.gov/mirecycles.

- A millage can be utilized to fund recycling and solid waste programs. There are two main types of millage that generate property tax revenue for governmental services: general fund allocated and special purpose. A general fund allocated millage is often referred to as an operational millage that is used for a variety of municipal services. A special purpose millage is often referred to as a dedicated millage that is only to be used for a specific purpose such as a recycling program. Some millage types, such as the general fund allocated millage, do not require voter approval. Other millage types, such as a special purpose millage, do require voter approval.
- Working together, municipalities can act in unison through intergovernmental agreements to operate and/or fund their recycling programs. Each individual municipality would be obligated for their share of the operating costs. Municipalities working together can often lower the overall costs of their program versus each municipality offering their own service. Solid waste and resource recovery authorities are examples of this type of intergovernmental agreement incorporated under the provisions of Public Act 179 of 1947.
- Municipalities that own a solid waste disposal facility (landfill, transfer station, etc.) within their jurisdiction can establish fees for using the facility that can be used to fund either the entire program costs or a portion of the costs. This type of funding mechanism often requires an ordinance requiring all solid waste haulers operating within the municipality's jurisdiction to deliver their solid waste to the publicly-owned facility. This type of funding option can also be used by multiple municipalities working together through an intergovernmental agreement. In some cases, an ordinance can require haulers to use a disposal facility designated by the municipality that is not owned by the municipality. The ordinance would require the haulers to pay a fee at the designated disposal facility for solid waste generated from the municipality's jurisdiction.
- Municipalities that have a private solid waste disposal facility (landfill, transfer station, etc.) physically located within their jurisdiction can negotiate 'host community' fees with the private solid waste disposal facility that can be used to fund the entire program costs or a portion of the costs.
- On their own or in unison through intergovernmental agreements, municipalities can use contracting and/or ordinances to select a single hauler or multiple haulers to provide solid waste and recycling services to all households and establish a fee collection mechanism to cover the cost for the service. Through intergovernmental agreement, a third party (board of public works, authority, etc.) can be assigned this responsibility by the local unit. In other cases, a uniform ordinance requiring private solid waste haulers to meet certain recycling requirements and to include the costs for those programs in their overall solid waste service fees could be utilized. A license or franchise fee could also be required from the private haulers to assist with program costs.

ADDITIONAL FUNDING SOURCES:

These potential funding sources should only be used to supplement the cost of a municipal recycling program. They should not be relied upon as a main program funding source. Often, the general public may also benefit from a special assessment project or service. In these cases, a government unit may decide to cover part of the cost through general funds, service fees, grants, or other funding sources.

- Programs can use the revenue from the sale of recycled materials to help off-set the costs for the program. Examples of this type of funding supplement include a public-owned facility selling their own collected materials, or a publicly-owned collection program receiving a share of the revenue generated from the sale of their collected recyclables by another MRF through a contractual agreement. While this type of revenue is typically available, due to the large fluctuation in market prices paid for recyclables, a program should not rely on the sale of recyclables as their primary source of program funding.
- Programs can charge additional fees for various services. An example is a recycling drop-off facility that collects a “per bag” charge for citizens wishing to also drop-off their solid waste at the facility. This revenue could be used to help off-set program costs such as education and outreach. In certain cases, municipalities may also need to charge users a fee for recyclable items that have a recycling cost (fee) associated with that item. Examples may include electronics, mattresses, scrap tires, latex paint, etc.
- Programs can use grants and low-interest loans to help off-set some of the cost of the program. Grants and loans can be used for a variety of program needs, such as the costs for initial operation, replacing equipment, education and outreach programs, new program initiatives, etc. There are a wide variety of grants and loans that can be used directly by a municipality, including private or private/public partnerships such as the Closed Loop Fund or The Recycling Partnership; Federal and State of Michigan grants and loans; non-profits or foundations such as Keep America Beautiful or the W.K. Kellogg Foundation; local conservation programs, etc.
- To learn about additional grant opportunities, see the DEQ’s recycling grants in Michigan overview (http://www.michigan.gov/documents/deq/deq-owmrp-RecyclingGrants_Brochure_full_page_533791_7.pdf).



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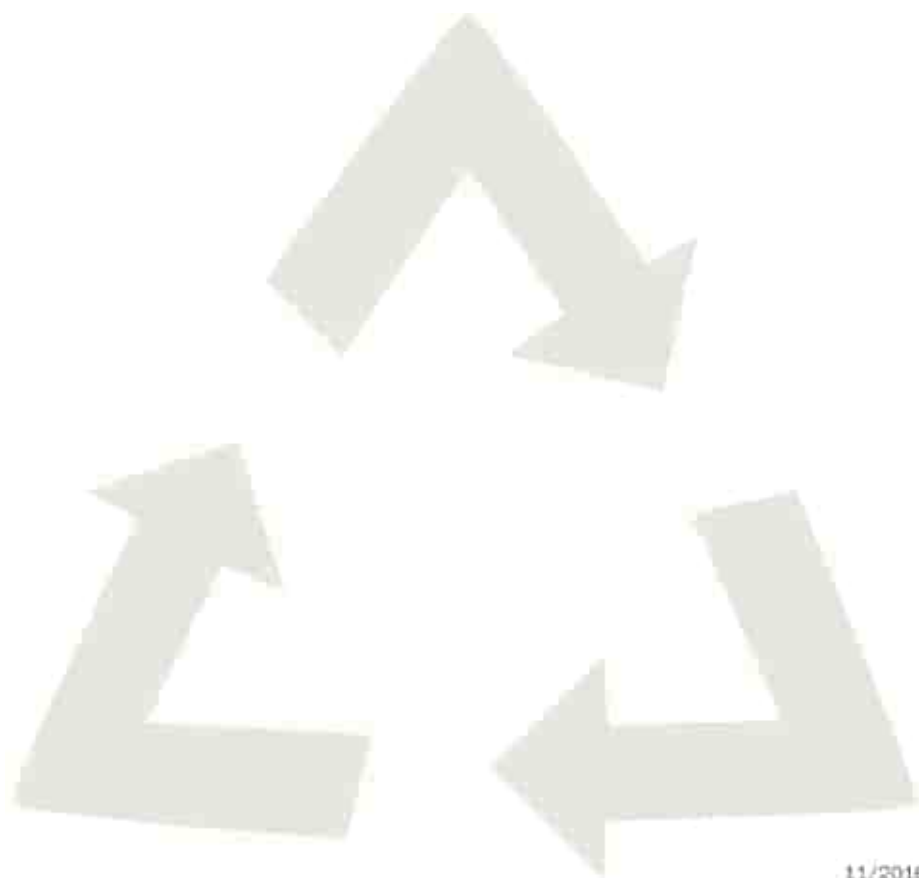
Michigan Townships Association: www.michigantownships.org

Michigan Municipal League: www.mml.org/home.html

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Michigan Department of Environmental Quality
PO Box 30457
Lansing, MI 48909-7957
800-662-9278
www.michigan.gov/mirecycles



Funding Mechanisms

- PA 69
 - Surcharge after interlocal agreements
 - Comes from a centralized source like County and LUGs can opt-in
 - Can be simpler than each LUG running their own program
 - Starting point so that LUGs can spin off their own program if they decide
 - Up to \$25/year by resolution and up to \$50/year with vote
 - Can include commercial business with voter approval
 - Would County be willing to run the program? Could it be combined for the whole planning area?
 - Example – Allegan County

Funding Mechanisms

- PA 138
 - Surcharge up to \$25/year via county resolution
 - No voter approval required or interlocal agreements
 - County-wide so anyone anywhere in county can utilize drop-offs
 - Household programs only
 - Examples – Benzie County

Funding Mechanisms

- PA 298 of 1917
 - Millage
 - Up to 3 mills
 - No ballot needed since law predates Headlee (1978)
 - Examples – N/A

Funding Mechanisms

- Voter-approved Millage
 - Approve through an election
 - Can typically generate more revenue than the other mechanisms
 - Majority rules
 - Examples: Iosco, Missaukee & Chippewa Counties

Funding Mechanisms

- User Fees
 - Billed based on service
 - Can be augmented with other funding mechanisms
 - Examples: Bay City, Lansing

Funding Mechanisms

- Service provider franchise agreement
- Hauler licensing fees
- General fund appropriation
- Landfill surcharge
- Flow control fee structure
- **Any other lawful mechanism – Grant funding**

Enforcement Mechanism

- By which municipalities in the planning area will ensure convenient recycling access
- Such as 1 or more of the following:
 - Assignment of responsibility to the county or an authority
 - A franchise agreement
 - An intergovernmental agreement
 - Municipal service
 - Licensing under an ordinance
 - A public-private partnership

APPENDIX H

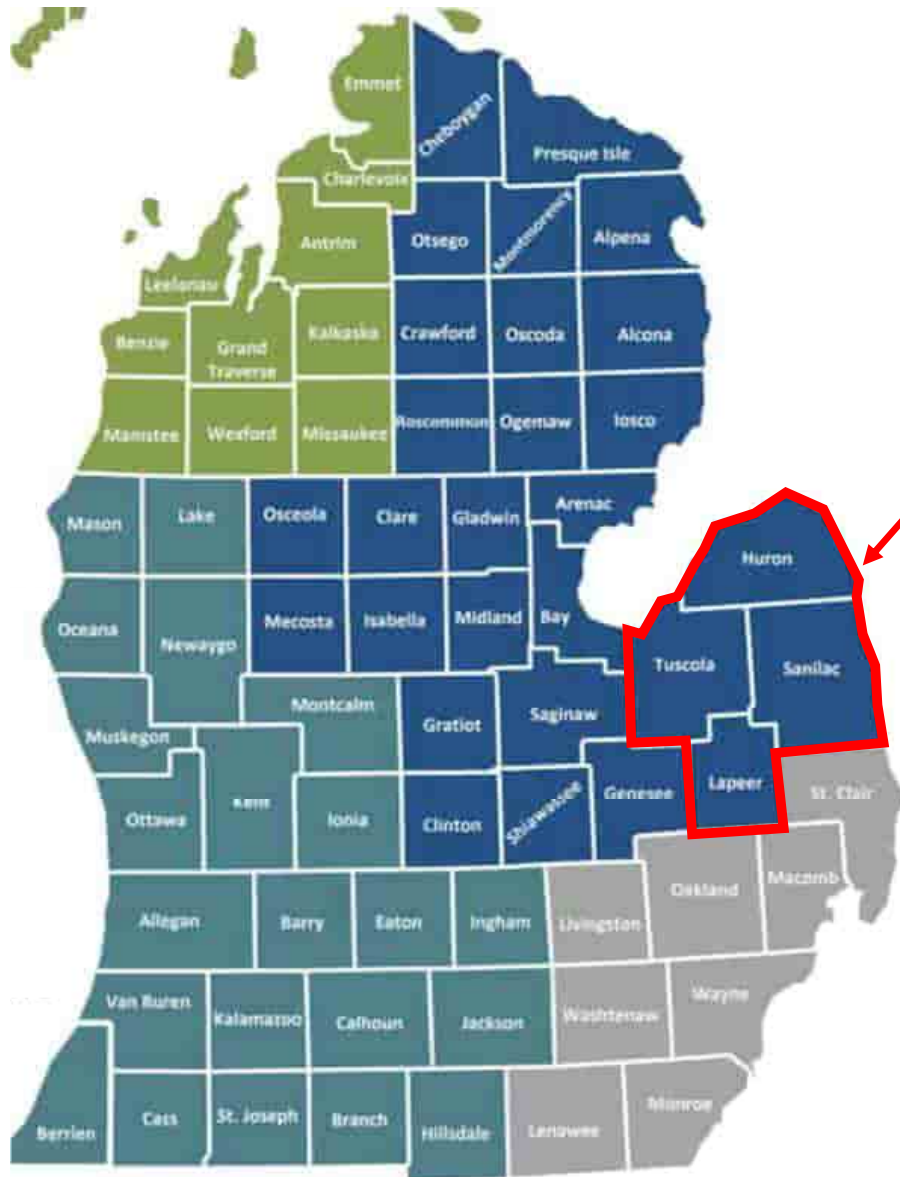
LUG Information Meeting Slides

NEW MATERIALS MANAGEMENT PLAN (MMP)

To Replace Existing Solid Waste Management Plans

- All counties will have an MMP
- Focus has shifted towards sustainable materials management
- Help to achieve vision & priorities of each Planning Area
- Create needed infrastructure & programs for utilization
- Move Michigan forward towards overall goals
- Bring back the personnel resources statewide





Materials Management Planning Committee = MMPC

“Planning Area” consists of:

- Huron County
- Lapeer County
- Sanilac County
- Tuscola County

NEW MATERIALS MANAGEMENT PLAN

Annual MMP **Grants** & regional **incentives**

- Reimbursement-Based Grants
- Covers local costs for preparing, implementing, and maintaining MMPs
- \$60,000 for each county & \$10,000/county additional for multi-county planning
- \$0.50 per capita, up to \$300,000,
 - Cover the higher upfront costs of initiating the new planning process (First 3 years only)
 - Turn into self-sustaining program



State Goals for Materials Management As Written Into Statute (Part 115 of NREPA)

- Section 11507
- **Optimize recycling opportunities**, including electronics recycling opportunities, and the reuse of materials
- Achieve a **45% municipal solid waste (MSW) recycling rate**
- As an interim step, **by 2029 achieve a 30% MSW recycling rate**
- Encourage and facilitate all persons to engage in **source separation of material from solid waste**, and other environmentally sound measures to prevent materials from entering the waste stream

Goal of the MMPC – Waste Diversion

- Decrease materials being landfilled from the Planning Area
- Educate residents on materials management and movement of waste and recycling
- Change how we think about use and reuse of commodities



Goal of the MMPC – Increase Recycling

- Describe the economic, environmental, and social benefits of recycling
- Invigorate local communities to participate in the circular economy
- Liaison with LUGs to implement resident-preferred recycling services
- Continue moving forward on waste diversion and recycling efforts beyond the current 5-year planning period



Materials to be Managed

- Organics

- Yard Waste

- Leaves
- Grass clippings
- Vegetable or other garden debris
- Shrubbery
- Brush or tree trimmings
- <4-ft in length and <2" diameter



- Food Waste

- Wood & Lumber



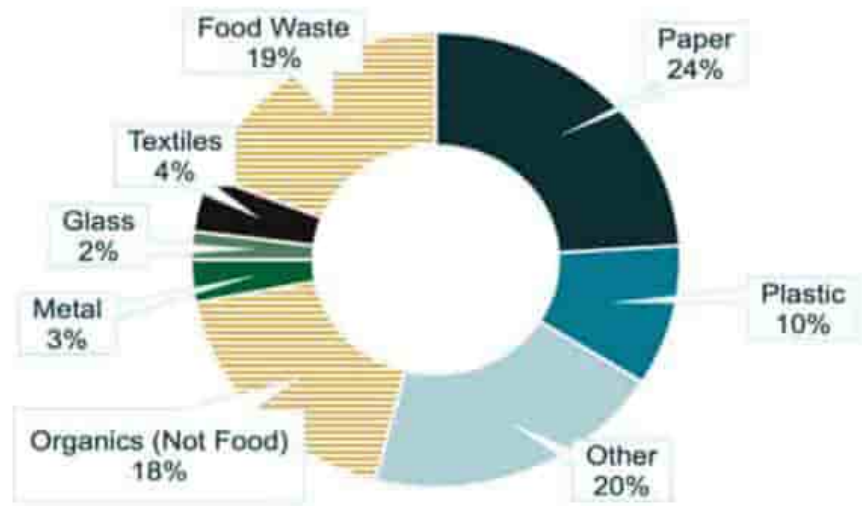
- Recyclable Materials

- Glass
- Metal
- Plastics
- Paper products
- Rubber
- Textiles

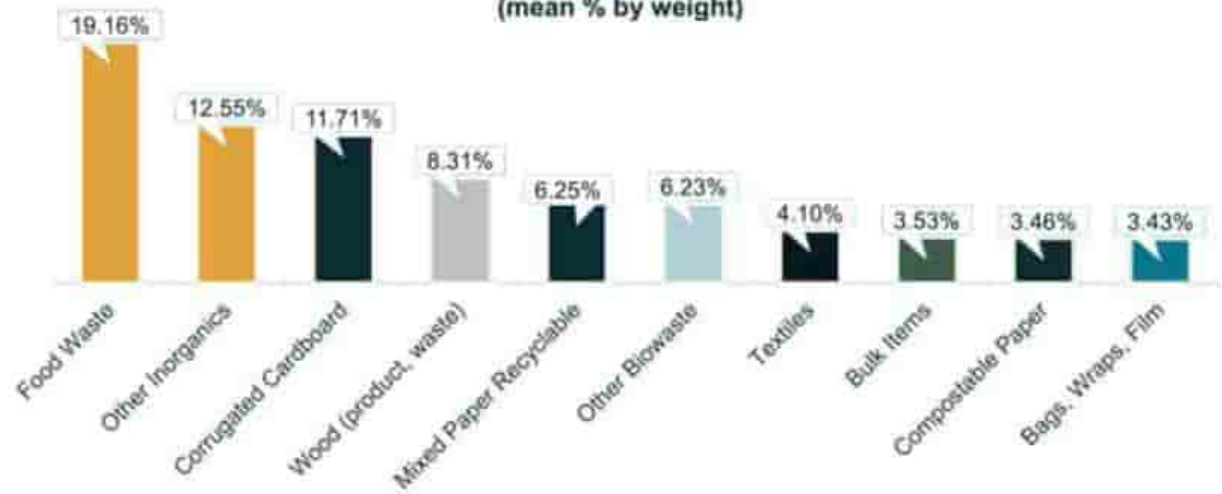


FY 2021-2022

Michigan Municipal Solid Waste Composition
(mean % by weight)



Top Materials in Michigan MSW Composition
(mean % by weight)



By law, MMPs are Required to Address the Following

- Section 11578
- Demonstrate progress after 5-years to:
 - Reduce **organic material** being disposed of, through food waste reduction, composting, and anaerobic digestions
 - Reduce **recyclable materials** being disposed of through increased recycling, including expanding convenient access and recycling at single and multifamily dwellings, businesses, and institutions
 - Development of necessary facilities and activities
 - Benchmark recycling standards

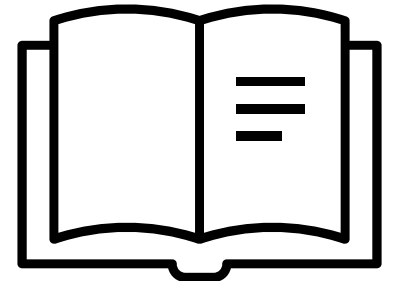
WHY TO PLAN

- You Know Your County/Planning Area
 - More control over development & expansions of materials management facilities
- Have the authority to create and approve the MMP
- Focus on resident's and business needs
- Eligible for grant funding
- Avoid implementing a MMP that you did NOT write



OUTCOMES OF EGLE PREPARED MMP

- Develop MMP using the standard format and specific requirements
- BOC responsible for implementation
- Regional approach preference: County may be added to regional MMP
- NO MMP grant funding
- Require waste haulers to provide recycling pickup



Benchmark Recycling Standards

HURON COUNTY

- **2026** – 90% of single-family dwellings in urbanized areas have access to curbside recycling **Not applicable - no census designated urban areas in Huron County**
- **2028** – 90% of single-family dwellings in areas with >5,000 residents have access to curbside recycling **Not applicable - no cities or villages >5,000 residents**
- **2032** – In counties with a population <100,000 residents: there is at least 1 drop-off location for every 10,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.

Based on current curbside access, Huron County will need two (2) drop-off centers. Huron Landfill counts as one.

- **2032** - In counties with a population >100,000 residents: there is at least 1 drop-off location for every 50,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.

Not applicable - Huron County has <100,000 people

Benchmark Recycling Standards

TUSCOLA COUNTY

- **2026** – 90% of single-family dwellings in urbanized areas have access to curbside recycling
City of Caro is only area inside 2020 urban boundary - already has access to curbside recycling 
- **2028** – 90% of single-family dwellings in areas with >5,000 residents have access to curbside recycling
Not applicable - No other cities or villages >5,000 residents 
- **2032** – In counties with a population <100,000 residents: there is at least 1 drop-off location for every 10,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.
Based on current curbside access, Tuscola County will need 1 additional drop-off center.
- **2032** - In counties with a population >100,000 residents: there is at least 1 drop-off location for every 50,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.

Not applicable - Tuscola County has <100,000 people 

Benchmark Recycling Standards

SANILAC COUNTY

- **2026** – 90% of single-family dwellings in urbanized areas have access to curbside recycling **Not applicable - no census designated urban areas in Sanilac County**
- **2028** – 90% of single-family dwellings in areas with >5,000 residents have access to curbside recycling **Not applicable - no cities or villages >5,000 residents**
- **2032** – In counties with a population <100,000 residents: there is at least 1 drop-off location for every 10,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.
Sanilac County Recycling currently meeting the drop-off requirements.
- **2032** - In counties with a population >100,000 residents: there is at least 1 drop-off location for every 50,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.
Not applicable - Sanilac County has <100,000 people

Benchmark Recycling Standards

LAPEER COUNTY

- **2026** – 90% of single-family dwellings in urbanized areas have access to curbside recycling
City of Lapeer is only area inside 2020 urban boundary - already has access to curbside recycling by ordinance 
- **2028** – 90% of single-family dwellings in areas with >5,000 residents have access to curbside recycling
Not applicable - No other cities or villages >5,000 residents 
- **2032** – In counties with a population <100,000 residents: there is at least 1 drop-off location for every 10,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month. > 24 hours per month
Based on current curbside access, Lapeer County will need seven (7) drop-off centers.
- **2032** - In counties with a population >100,000 residents: there is at least 1 drop-off location for every 50,000 residents without access to curbside recycling at their dwelling and the drop-off location is available at least 24 hours per month.
Not applicable - Lapeer County has <100,000 people 

Benchmark Recycling Standards

- “Access” to curbside recycling means the following:
 - Recyclable materials are collected at least once every 14 days
 - If recyclable materials and waste are collected as mixed loads, the loads are delivered to a compliant facility for sorting
 - Recyclable materials collected are delivered to a compliant materials recovery facility
 - Curbside recycling is offered by all haulers servicing the geographic area, so that a resident may contract for recycling services regardless of their selected service provider
- Drop-off recycling sites must be available at least 24 hours per month.

A lot of the work has been done...

We just need help tracking it

- Assistance at the local level to get data from haulers on what they are picking up.



Materials Management Plans – Approval Process

- County/CAA ➡ NOI
 - Eligible for MMP Grant \$ after EGLE approved work program
- 36 Months to Complete Approval Process
 - Default mechanisms/Timeframes
- MMPC ➡ CAA ➡ 67% Municipal Approval ➡ EGLE
 - Public Hearing and Comment Period in Jun-Aug 2026



Circular economy



Recyclables are worth money.

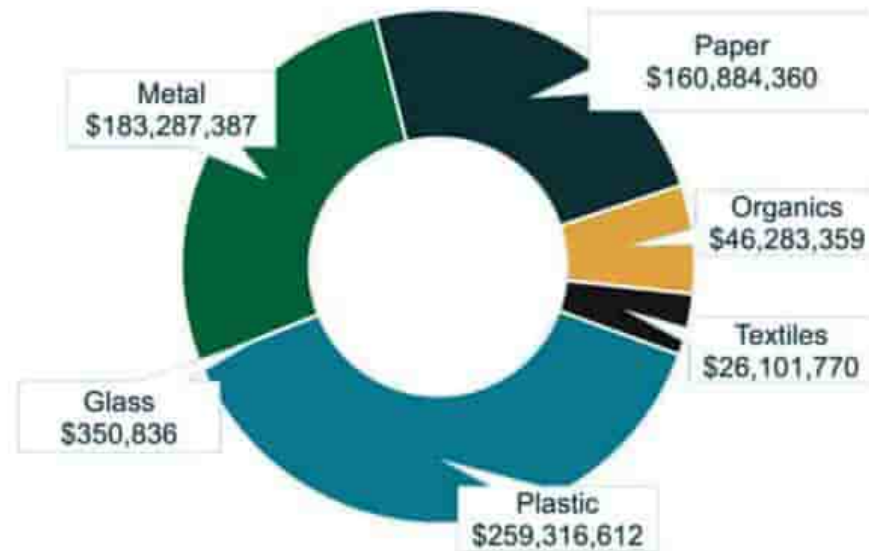


Goal to keep the money in the community

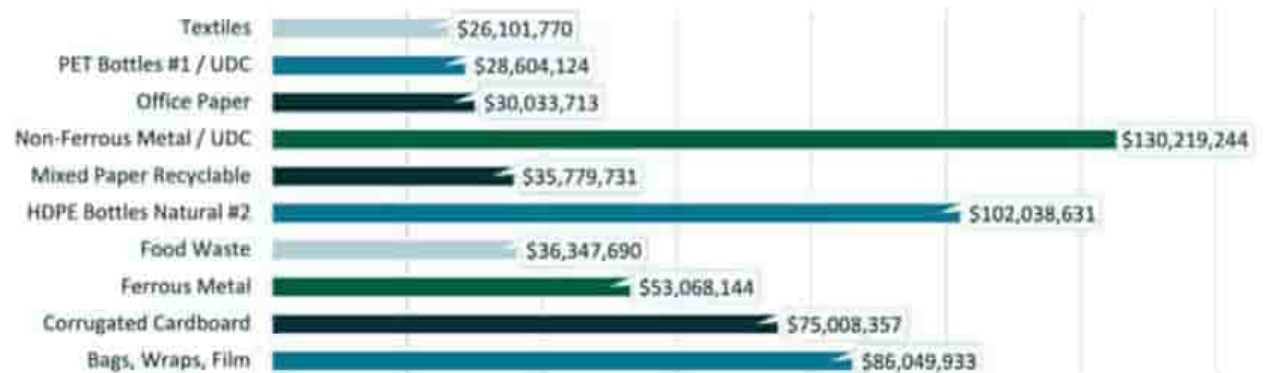
Source: <https://misbf.org/wp-content/uploads/sites/5/2024/11/Economic-Value-and-Characterization-of-MSW-in-Michigan-2024.pdf>

FY 2021-2022

Total Value of Michigan MSW Material Disposed (\$)



Top Commodities in Michigan MSW by Total Value



Summary of Findings

Material disposed of in Michigan’s municipal solid waste each year has an estimated market value of \$500 million to \$676 million. If this material were collected for recycling, it would have an estimated economic impact of \$609 million to \$825 million per year, creating as many as 4,500 jobs. This is shown in the table below.

Low Estimate

High Estimate

Value Reclaimed	Jobs Created	Total Effect Multiplier	Total Effect
\$499,627,857	3,317	1.22	\$609,764,673
\$676,224,324	4,490	1.22	\$825,289,659

Each year that Michigan does not make the investments in infrastructure, adopt new business practices, provide the necessary education to stakeholders, or advance and execute the public policy needed to increase the recycling rate, the state will lose at least a half billion dollars of potential feedstock for its manufacturers, farms and other end markets. The estimated lost value per year is detailed below.

	2023	2025	2030	2035
Population Projection*	10,033,757	10,202,350	10,424,510	10,569,985
MSW (tons)	8,993,502	9,154,045	9,353,377	9,483,904
Low Price (Adj) Total Value	\$499,627,857	\$508,546,694	\$519,620,466	\$526,871,805
High Price (Adj) Total Value	\$676,224,324	\$688,295,577	\$703,283,441	\$713,097,809



MEETING SIGN-IN SHEET

Doreen Clark
Lapeer Co Adm
dclark@lapeercounty.org
or
administration@lapeercounty.org

Owner: Thumb Region Material Management Planning Committee (MMPC)

Project Name: Lapeer County LUG Information Meeting

Date / Time: Wednesday, November 5, 2025 07:00PM EST

Location: Commissioners Board Room – 255 Clay St, Lapeer, MI

Name	Organization	Email Address	Phone Number
Ann LeClaire	Lapeer County Drop Off Recycling	lapeer lapeerrecycling@yahoo.com	810-969-2534
Pat Lederle	Lapeer Co. Drop off recycling		517-243-0700
Philip THICK	Lapeer Twp Trustee	PRINTSPRINT@lapeer.com	810-664-3700
Scott Jarvis	Lapeer Twp. Supervisor	sjarvis@lapeertwp.org	664-3700
Brian Amy Cummings	1800RollOff.com Inc	amy@1800rolloff.com	800-765-5633
Mark Zimmerman	North Lapeer Recycling		810-441-7957
Bonnie Hardeman	Deerfield Disposal	deerfielddisposal@gmail.com	810-793-7557
Quinn Lamb	Public	—	734-585-6316

APPENDIX I

MMPC Meeting Minutes

Materials Management Planning Committee

Thumb Region

Minutes from January 9, 2025

Members Present:

Chuck Aurand
Rachael Tompson
Mike Davis
Bill Lutz
Mary Babcock
Gary Howell
Dave Faber
Joann Bye

Members Absent:

Ed Dawkins
Patty McNinch
Bill Sarkella
Valerie McCallum
Sue Fortune

DBA:

Mike Miller

Miller called the meeting to order at 6pm, and took roll.

Committees Roll/Duties:

Miller gave each member a packet of information that gave the basic understanding of what the MMPC roll in the plan development. Miller also explained the rolls of the County Approval Agency (CAA) and the Designated Planning Agency (DPA). The timeline and deadlines were also reviewed, as were each step of drafting the plan, and the approval process.

Election of Officers:

Miller called for nominations for the Chairmen of the Committee. Mary Babcock nominated Rachael Thompson, Lutz seconded.

Miller called for further nominations, and there were none.

Miller called the vote for Rachael Thompson as Chair. Yes vote was unanimous.

Miller then turned the meeting over to the Chair.

Thompson called for nominations for Vice Chair, Mary Babcock nominated herself, Lutz seconded.

Thompson called for further nominations, and there were none.

Thompson called the vote for Mary Babcock as Vice Chair. Yes vote was unanimous.

DPA Work Plan:

Miller presented the Work Plan that is required for the Materials Management Plan (MMP). It is a timeline of the steps needed to create the MMP from gathering data to the final approval process. Miller explained that the Committee needed to approve the Work Plan as a step to be eligible for the grant funding from the State.

Babcock moved to approve the DPA work Plan as presented, Seconded by Lutz. Motion passed.

Committee By-Laws:

The Committee needs to establish By-Laws on how it will operate. Miller handed out two examples, one from the State and one from another MMPC Committee. The Committee moved the topic to the next meeting for review.

Meeting dates and Times:

The Committee set their meeting date as the third Wednesday of each month. The time is set for 1:30pm, at the Tuscola County Administration Building 125 W Lincoln St Caro, MI 48723.

Motion by Howell to set the meeting date as the third Wednesday of each month at 1:30pm. Babcock seconded. Motion passed.

Adjournment:

Lutz moved to adjourn the meeting. Seconded by Babcock. Motion passed.

Tompson adjourned the meeting at 7:23pm.

The next meeting is February 19, 2025 at 1:30pm.

125 W Lincoln St Caro, MI 48723



Minutes

April 16, 2025

1:30 P.M.

1. Roll Call

Present: Chuck Aurand, Rachael Tompson, Mike Davis, Patty McNinch, Mary Babcock, Gary Howell, Bill Zarkella, Valrie McCallum, David Faber, Joann Bye, Ed Dawkins, Matt Koch (filling in for Bill Lutz)

Additional Staff/Guests: Mike Miller, EGLE official

Absent: Bill Lutz, Sue Forturne

2. Minutes from January 9, 2025

Motion to approve: XXXXXX 2nd: XXXXXXXXXX

Motion approved

3. New Business:

- **Secretary appointment**
 - David Faber stepped up to be Secretary

- **Committee By-Laws**
 - Discussion on bylaws by members and the use of alternate members from each county. Recommended to Miller to modify the bylaws for

the Thumb Region and use the Oakland County as a model. The board will have the draft document at next meeting for decision.

- Questions on information from January's meeting
- Next Steps for Plan development
 - Review Plan requirements
 - Discussion on Goals of the Materials Management Plan
 - Recycling- Communities over 5000 required recycling by 2026. Only community over 5000 is Lapeer and they provide recycling
 - Discussion on Drop off locations based on county population. Sanilac county is ok, Huron county is going to need one additional, Lapeer county is going to need 5 locations. Time line for drop off locations is 2032 which requires one drop off per 10,000 residents since we are below 100,000
 - Benchmark Recycling Standards Definition from Part 115
 - Discussion of what constitutes for recycling
 - Collection of glass, paper , plastics etc.
 - Yard waste, branches
 - Electronics
 - EGLE Mega Data – Review County Profiles
 - Discussion of the Mega data reports for each county. Each county is to review documents for next meeting
- Brainstorming session – Questions we want to answer with the MMP Process
 - Board Members went through brainstorming session to answer questions from Chairman Tompson. Board reviewed answers. Documents to be scanned and provided to board members
 -

4. Public Comment- Discussion by board with EGLE Representative about grant and reimbursement
5. Adjourn at 2:45 p.m.

Meetings location:
Commissioners Boardroom
125 W. Lincoln St
Caro, MI 48723



Minutes

June 18, 2025

1:40 P.M.

1. Roll Call

- Rachel Tompson
- Mike Davis
- David Faber
- Chuck Aurand
- Joann Bye
- Brad (Lapeer Co. Alternate for Garry Howell)
- Mary Babcock
- Bill Lutz
- Valrie McCallum

Absent: Patty McNinch, Gary Heberling, Ed Dawkins, Sue Fortune

2. Minutes from May 21, 2025 Motion by Bill 2nd by Mike – Revision of Mary Babcock not present. MOTION PASSED

3. New Business:

- Yard Waste – DPW'S, Republic, and Waste Management
 - Went thru the data that was collect from the DPW's in the 4 county region. Rachel to call Republic to get information.
- EGLE Facilities Map – Reviewed map on screen and discussed locations
- Goals – for planning area and each County
 - Reviewed Goals
 - Curbside for Urban cities – Lapeer and Caro by 2028 – Achieved
 - Curbside for 5000+ - Lapeer by 2028 – Achieved
 - Potentially offer curbside access to township residents

- Drop off locations potential additions. We are allowed to deduct the curbside locations from population for compliance amount
-
- Township/Community Outreach – Meetings/Ads
 - Send letters to TWP and also ask Commissioners to spread the word when they are visiting their townships
- Work Plan/Budgets – Mike presented a yearly work plan that needs submitted with each county budget. Motion by Joann B. 2nd by Mary B. to approve the presented work plan

4. Old Business: General discussion on Old Business

- MEGA Data
- Recycling Rates
- Facilities – Current /Needed
- Transportation – Current /Needed

Discussion by board members to change Decembers meeting. Committee agreed to move the Meeting to December 10th at 1:30

5. Public Comment

6. Adjourn

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**



Minutes

July 16, 2025

1:30 P.M.

1. Roll Call

a. Present:

- Rachael Thompson
- Mike Davis
- Patty McNinch
- Mary Babcock
- Gary Heberling
- Valrie McCallum
- Joann Bye
- Bill Lutz

b. Absent:

- Dave Faber
- Chuck Aurand
- Gary Howell
- Ed Dawkins
- Sue Fortune

b. Additional Staff/Guests: Mike Miller, Beth Hoppe

2. Minutes from June 18, 2025

a. Motion to approve minutes Lutz; 2nd Bye Minutes approved

3. New Business:

- **Educating the Residents – Beth Hoppe (Tuscola County Recycling Educator) spoke on her experience on what works and does not work. Mailings are not effective, and Facebook has a better interaction. Committee discussed other possible ideas such as mailing info with tax notices, asking Townships to place info on their websites, reaching out to homeschool groups.**

Rachel spoke on an online class she attended on Community Based Social Marketing. They offer consultant services but there is an application process. The Committee agreed to have her apply.

- **Drop Off Sites – Discussion was held on the number of site each County would need. Miller provided preliminary numbers: Tuscola 1, Huron 1, Lapeer 5, and Sanilac would need none as they currently meet the requirement. Drop Sites are required to be installed by 2032.**
 - **Letter and Questionnaire to Townships – These were reviewed by the Committee and several changes were made. Rachel will make the changes and email it out to the Committee for their review. Once approved, the Committee approved to have these mailed to each Clerk in each County. Miller will mail out once it is approved.**
 - **Other ideas discussed**
 - **Sending information to the residents through the tax bill**
 - **Possible after hours meeting – possible in October.**
 - **Moving the meetings to different locations in each County**
- 4. Commissioner Lutz left the meeting at 2:58pm. The Committee lost the quorum and the meeting ended.**

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**



MINUTES

August 20, 2025

1. Roll Call at 1:34 pm

a. Present:

- Rachael Tompson
- Mike Davis
- Patty McNinch
- Mary Babcock (Left at 2:30pm)
- Gary Heberling
- Joanne Bye
- David Faber
- Chuck Aurand
- Bill Lutz at 1:45pm
- Ed Dawkins

b. Absent

- Valrie McCallum
- Gary Howell
- Sue Fortune

c. Additional Staff/ Guests

- Mike Miller
- DJ – EGLE
- Moses Sanzo
- Christine Malzahn

2. Minutes from July 16th, 2025 Motion by Gary Second by Mary Approved

3. New Business:

- Letter and Questionnaire to Townships – Responses - Discussion from members on getting to townships and cities to get them to fill the form out. About 18 responses so far. A lot of good data
- MMP Requirements – Discussion of the Material Management Plan outline provided in packets. EGLE to provide some samples from other counties that he works with. Mike/Rachel to pull information from each counties plan for next meeting.
- New Facility Siting Requirements - Tuscola has a good framework for site selection will look at other counties also as a framework.

4. Old Business:

- Mega Data – Discussed information
- Recycling Rates – Discussed information. Sandusky's recycling rate increased from .6 tons to 1.8 tons with the use of 96 gallon recycling totes by Waste Management
- Facilities – Current /Needed – Discussed information
- Transportation – Current /Needed– Discussed information
- Goals – for planning area and Counties– Discussed information
- Outreach Meetings– Discussed information
- Yard Waste – Discussed information
- Education – Discussed information. Ideas on how to get it out to the boards and how to get kids involved in recycling and waste reduction
- Drop off Sites – Discussed Information

5. Public Comment - None

6. Adjourn Motion to adjourn at 2:55pm by Gary Second by Dave - Approved

Meetings location:

Peoples Building
171 N. State St
Caro, MI 48723



MINUTES

September 17, 2025

1. Roll Call at 1:34 pm

a. Present:

- Rachael Tompson
- Mike Davis
- Mary Babcock
- Gary Heberling
- Joanne Bye
- Chuck Aurand
- Ed Dawkins
- Gary Howell (Left at 2:15pm)

b. Absent

- Valrie McCallum
- Patty McNinch
- David Faber
- Sue Fortune

c. Additional Staff/ Guests

- Mike Miller
- DJ – EGLE
- Nathan Roskey

2. Minutes from August 20, 2025 Motion by _____ Second by _____ Approved

3. New Business:

- **October Township Meeting Huron County** – Rachel presented the draft slides for the presentation, Committee recommended a few changes but otherwise approved. Miller provided EGLE's MMP Quick Guide and suggested that pages 2-11 be used as a hand out to the attendees for basic information on the MMP process. Committee agreed. Mary will have copies of the handout ready for the meeting.
- **Formulation of the Draft Plan** - Rachel stressed the need to begin drafting the plan. The draft plan needs to be completed by early 2026.
- **Example Goals form Emmett County** – Committee reviewed and discussed possible goals for the plan:
 - Preform a Feasibility Study to need Facilities and Capacity
 - Market Development
 - Public Education
 - Expand residential single family curbside
 - Coordination with property owners for multi-family recycling services
 - Expand commercial recycling services
- **MRC and Nextcycle** – Miller presented a meeting that is coming on October 29, in Frankenmuth. The focus is Business and Economic Opportunities with recycling. The hope is to help business understand how recycling can benefit their operation either by providing recycled materials or helping them to recycling in their business.

4. Old Business:

- **Mega Data** – Discussed information
- **Recycling Rates** – Discussed information.
- **Facilities** – Current /Needed – Discussed information
- **Transportation** – Current /Needed– Discussed information
- **Goals** – for planning area and Counties– Discussed information
- **Outreach Meetings**– Discussed information
- **Yard Waste** – Discussed information
- **Education** – Discussed information.
- **Drop off Sites** – Discussed Information

5. Public Comment - None

6. Adjourned - Adjourn at 2:15pm when Gary Howell left the meeting and the quorum was lost.

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**



MINUTES

October 15, 2025

1:30 P.M.

1. Roll Call

a. Present

- Rachel Tompson
- Mike Davis
- Gary Heberling
- Joanne Bye
- Ed Dawkins
- Valrie McCallum
- Patty McNinch
- David Faber

b. Absent

- Mary Babcock
- Chuck Aurand
- Gary Howell
- Sue Fortune

c. Additional

- Mike Miller
- DJ – EGLE
- Sami Kohri – for Mary Babcock
- Moses _____

2. Minutes from September 17, 2025 Motion by D. Faber seconded by M. Davis APPROVED

3. New Business:

- Follow up on October Township meeting – Huron County – **Approx 10 people came to meeting was very informational, Many Board members attended.**
- Lapeer County Meeting - **Possible meeting December 5th or 12th for Lapeer County**
- MMPC meeting date/time – **Possible change Motion by M. Davis seconded by J. Bye**
- Formulation of Draft Plan – **Board reviewed plan; need to add Recycling and Compost to plan**
- Possible Resources needed to meet the Recycling needs. – **Discussion by Board Members**
- Hazardous Waste – **Discussion by board members and discussion of costs**
- Storm Debris - **Discussion by board members**

4. Old Business: **Continued discussion by board members**

- Mega Data
- Recycling Rates
- Facilities – Current /Needed
- Transportation – Current /Needed
- Goals – for planning area and Counties
- Outreach Meetings
- Yard Waste
- Education
- Drop off Sites
- Letter and Questionnaire to Townships – Responses
- New Facility Siting Requirements

5. Public Comment – **No public comments**

6. Adjourn **Rachel Adjourned the Meeting**

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**



Minutes

November 19, 2025

10:30 A.M.

1. Roll Call

a. Present

- i. Rachel Tompson**
- ii. Mike Davis**
- iii. Gary Heberling**
- iv. Joanne Bye**
- v. David Faber – Left 11:30**
- vi. Chuck Auran**
- vii. Gary Howell**

b. Absent

- i. Valrie McCallum**
- ii. Patty McNinch**
- iii. Mary Babcock**
- iv. Sue Fortune**

c. Additional Staff

- i. Mike Miller**
- ii. DJ – EGLE**

2. Minutes from October 15, 2025 Motion by G. Heberling 2nd J. Bye to approve

3. New Business:

- Follow up on November Township meeting – Lapeer County**

- Lapeer Recycle/North Lapeer, Styrofoam needs to be included in plan, Additional education to residents, discussion of drop offs, Discussion that Lapeer lost a recycling facility
- Goals: MSW/ORGANIC
 1. Year 1 (2027)
 2. Year 2 (2028)
 3. Year 3 (2029)
 4. Year 4 (2030)
 5. Year 5 (2031)
 6. Long Term

Rachel presented PPT to the board and reviewed the shared documents. Mike Miller is taking care of roll offs, discussion of SMART Goals, Drop sites, J. Bye is planning a meeting with HDC, DJ discussed grants and amendments

4. Public Comment
5. Adjournment – Rachel Adjourned the meeting

Meetings location:
Peoples Building
171 N. State St
Caro, MI 48723



Minutes

May 21, 2025

1:30 P.M.

1. Roll Call

a. Present:

- Chuck Aurand
- Rachael Tompson
- Mike Davis
- Patty McNinch
- Mary Babcock
- Gary Howell
- Gary Heberling (new appointment for Bill Zarkella)
- Valrie McCallum
- David Faber
- Joann Bye
- Ed Dawkins
- Bill Lutz
- Sue Fortune

b. Additional Staff/Guests: Mike Miller, EGLE official

2. Minutes from April 16, 2025

- #### **a. Motion to approve minutes D.Faber; 2nd G. Howell Minutes approved**

3. New Business:

- Discussion On April's Activity – Discussion on the data from last meeting. Rachel has set up a share point for the data so everyone can access.

- Tonnages for 2024 – Discussion with waste haulers on collecting the numbers their tonnages for each municipality (Emtera, WM). Collecting that data at the recycling center and other collection points
 - Recycling Rates – Long discussion on recycling in the 4 county region and what could be included or not included. Items that were discussed were food waste, electronics, oils, composting, yard waste, food pantries. Discussion on commercial food waste vs residential
 - EGLE Mega Data Review
 - Current Facilities/Transportation
 - Possible Needed Facilities/Transportation
 - Discussion on collection of data and updating the Mega Data. Most of the data is outdated and needs to be verified
4. **Old Business:**
- Committee By-Laws
 - Motion by D.Faber to approve the bylaws with the addition of 4.1 (d) to add language of 1 alternate per county; 2nd Gary Motion Passed
5. Public Comment – No public comment
6. Adjourn Motion by Chuck 2nd by Bill Lutz

Meetings location:

Peoples Building
171 N. State St
Caro, MI 48723



MINUTES

January 21, 2026

1:30 P.M.

1. Roll Call

a. Present

- Rachel Tompson
- Mike Davis
- Mary Babcock
- Chuck Aurand
- Gary Howell
- Gary Heberling
- Joanne Bye
- Patty McNinch
- Bill Lutz

b. Absent

- Valrie McCallum
- Ed Dawkins
- David Faber
- Sue Fortune or Repesnti
- Valrie McCallum
-

c. Additional

- Mike Miller
- DJ – EGLE
- Damian Wasick
- Lapeer Recycling Reps?

2. Minutes from November 19, 2026 **Motion by Lutz seconded by Howell APPROVED**

3. **New Business:**

- Sanilac County Township meeting – Confirm Details – **Sanilac County has set the date of their meeting for February 19 at 6pm. At 95 Dawson St in Sandusky. Rachel has provided the updated presentation and Miller provided the handout.**
- Tuscola County Meeting - **Tuscola's Township meeting has been set for March 4th at 6pm, in the Peoples Building 171 N State St, Caro.**
- Drop Off Sites for Lapeer and Huron – **Lapeer and Huron would still like to have Tuscola provide the services for drop off sites. More discussion is needed to determine the details.**
- Goal Review – **Rachel reviewed the draft goals with the Committee. Discussed having Haulers report their data to the Counties. Lutz and Heberling left the meeting at 11:44 p.m. and the quorum was lost. No action taken.**

5. Public Comment – **No public comments**

6. Adjourn: **Rachel Adjourned the Meeting**

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**



MINUTES

February 18, 2026

10:30 A.M.

1. Roll Call

a. Present

- Rachel Tompson
- Mike Davis
- Chuck Aurand
- Gary Howell
- Gary Heberling
- Joanne Bye
- Patty McNinch
- Bill Lutz
- Ed Dawkins
- David Faber
-

b. Absent

- Valrie McCallum
- Sue Fortune or Representative
- Mary Babcock
-

c. Additional

- Mike Miller
- Pat Lederle
- Ann Lederle

2. Minutes from January 21, 2026, **Motion by Howell seconded by Lutz to approve the minutes from January 21, 2026.**
3. **New Business:**
 - Sanilac County Township meeting – Confirm Details – **Sanilac County meeting had low turnout, only one township was in attendance.**
 - Tuscola County Meeting - **Tuscola's Township meeting has been set for March 4th at 6pm, in the Peoples Building 171 N State St, Caro.**
 - Goal Review – **Committee thought the review from last meeting was good and had no further questions**
 - Siting Process for new facilities -
 - 2026 Meeting Dates – **Move the December 16th meeting to December 9th.**
5. Public Comment – **No public comments**
6. Adjourn: **Rachel Adjourned the Meeting**

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**



MINUTES

March 18, 2026

10:30 A.M.

1. Roll Call

a. Present

- Rachel Tompson
- Mike Davis
- Chuck Aurand
- Pat Lederle
- Gary Heberling
- Patty McNinch
- Bill Lutz
- Valrie McCallum

b. Absent

- Joanne Bye
- Sue Fortune or Representative
- Mary Babcock
- Ed Dawkins
- Dave Faber
- Gary Howell

c. Additional

- Mike Miller
- Ann Lederle

2. Minutes from February 18, 2026, Motion by Howell seconded by Lutz to approve the minutes from February 18, 2026.

3. New Business:

- Sanilac County Township meeting – Confirm Details – **Sanilac County meeting had low turnout, only one township was in attendance.**
- Tuscola County Meeting - **Tuscola's Township meeting had no one attended.**
- Siting Process for new facilities – **Will work to have the Tuscola siting plan language worked to fit the planning area.**
- Goal Review – **Rachel has placed the goals on the drive for the Committee to review and comment.**
- Funding Mechanisms – **Rachel went over multiple funding options including PA 69, PA 138, PA 298 of 1917.**
- Community Outreach and Education – **These were separate items, but the discussion flowed together. Ideas that were discussed were Fairs, Farmers markets, Schools, Parades, and other local events.**
- Drop Sites for Lapeer – **Discussion was held on the drop sites for Lapeer. Questions about how it would be done and the locations. Miller explained that their will need to be**

5. Public Comment – No public comments

6. Adjourn: Rachel Adjourned the Meeting

Meetings location:

**Peoples Building
171 N. State St
Caro, MI 48723**

APPENDIX J

CAA Interlocal Agreements and MMP Approvals

APPENDIX K

Public Hearing and Comments

APPENDIX L

LUG MMP Approvals