

2027 — 2036

SOLID WASTE MANAGEMENT PLAN DRAFT

Prepared by:



TABLE OF CONTENTS

EXECUTIVE SUMMARY	1-1
SECTION i Solid Waste Management District Information	i-1
APPENDIX A Miscellaneous Information	A-1
APPENDIX B Recycling Infrastructure Inventory	B-1
APPENDIX C Population Data	C-1
APPENDIX D Disposal Data	D-1
APPENDIX E Residential/Commercial Reduction and Recycling Data	E-1
APPENDIX F Industrial Reduction and Recycling Data	F-1
APPENDIX G Waste Generation	G-1
APPENDIX H Strategic Analysis	H-1
APPENDIX I Conclusions, Priorities, and Program Descriptions	I-1
APPENDIX J Reference Year Opportunity to Recycle and Demonstration of Achieving Goal 1	J-1
APPENDIX K Waste Reduction and Recycling Rates and Demonstration of Achieving Goal 2	K-1
APPENDIX L Minimum Required Education Programs	L-1
APPENDIX M Waste Management Capacity Analysis	M-1
APPENDIX N Evaluating Greenhouse Gas Emissions	N-1
APPENDIX O Financial Data	O-1
APPENDIX P Designation	P-1
APPENDIX Q District Rules	Q-1
APPENDIX R Blank Survey Forms and Related Information	R-1
APPENDIX S Siting Strategy	S-1
APPENDIX T Miscellaneous Plan Documents	T-1
APPENDIX U Ratification Results	U-1
APPENDIX V Inventory of Open Dumps and Other Disposal Facilities	V-1
APPENDIX W District Map	W-1

Executive Summary

2027 Plan Update

Introduction

The Stark–Tuscarawas–Wayne Joint Solid Waste Management District (District) has updated its Solid Waste Management Plan in accordance with Ohio law and Ohio Environmental Protection Agency (Ohio EPA) requirements. This Plan Update serves as a guide for the District’s waste reduction, recycling, education, and enforcement programs during the 2027–2036 planning period.

The Plan demonstrates how the District will meet the goals while ensuring adequate landfill capacity to manage solid waste generated within Stark, Tuscarawas, and Wayne counties. Additionally, the Plan outlines how the District will continue to provide recycling opportunities, manage special wastes, and responsibly fund its programs and services.

The District is governed by the Boards of County Commissioners of Stark, Tuscarawas, and Wayne counties. The Solid Waste Management Policy Committee oversees plan development and adoption, while the District Board of Directors and District staff are responsible for implementation of approved programs and services. Within the District, most residents live in unincorporated townships. In Stark County, this accounts for 54% of the population, while in Tuscarawas County, it's 10%, and in Wayne County, it's 16%.

Analysis



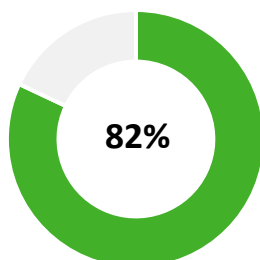
GOAL 1:

Provide residents with access to recycling opportunities equal to 80% or more of the population.

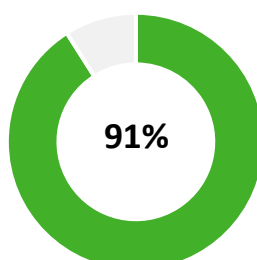
Households have access to recycling services at the curb and at community drop-off locations. Residential recycling is available based on the following:

- **20** Communities provide automatic curbside recycling & trash service.
- **29** Communities offer subscription curbside recycling for an additional fee.
- **72** drop-off locations throughout the three counties.

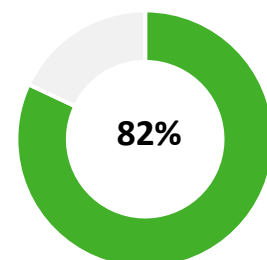
Stark County Access



Tuscarawas County Access

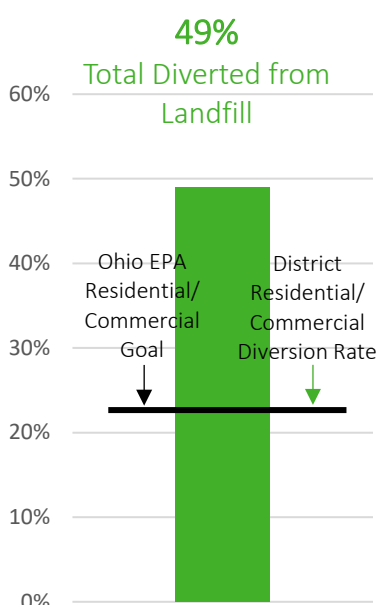


Wayne County Access



There are various outlets to collect single-stream recyclables, as well as source-separated recyclables like scrap metal and plastic grocery bags, in the District. Household recycling collection is provided through curbside and/or drop-off collection. The standard recyclables collected include metal cans, glass bottles and jars, plastic bottles and jugs, mixed paper and cardboard. Currently, source-separated recycling drop-offs are offered at 74 locations throughout the District. The District operates 38 public drop-off sites in Stark County and 20 public drop-off sites in Wayne County. Tuscarawas County drop-off sites are managed through a contract with Kimble Companies. Kimble

provides the containers, collects, and processes the materials from 16 public drop-off sites. Approximately 8,000 tons of recyclables from the District's curbside and drop-off programs under contract with Kimble are hauled to the Kimble Dover Materials Recovery Facility in Tuscarawas County to be processed.



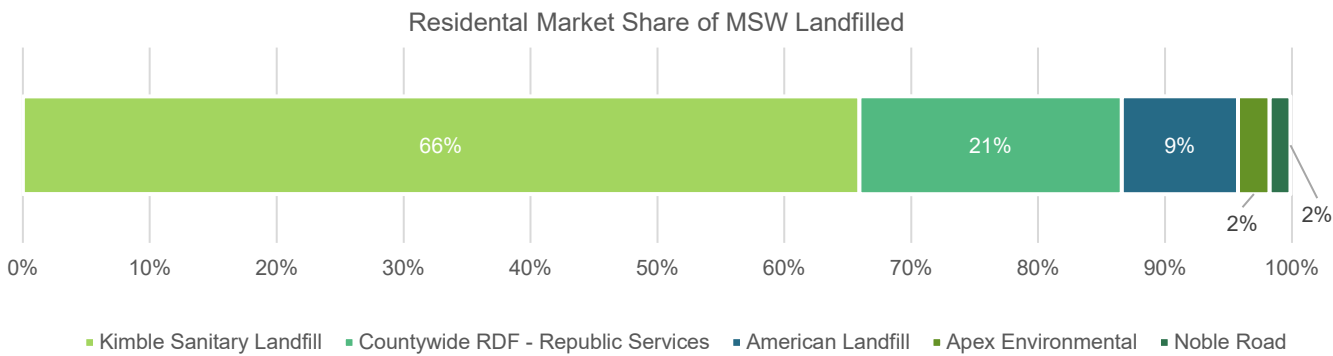
Total generated waste for the District was 1,883,947 tons in 2023, the baseline reference year. The sectors generating materials are approximately 38% generated from the residential/commercial sector and 62% from the industrial sector. Overall recycling and composting activities divert 49% of all waste generated. The remaining 51% of waste was landfilled. Based on the 2023-year data, the disposal rate shows 5.01 pounds per person per day of trash is disposed which is slightly lower than the state's average of 5.20 pounds per person per day. When compared to the State of Ohio, the District's diversion rate for residential and commercial waste meets the state's goal of 25% diversion of materials away from the landfill. A total of approximately 176,000 tons of material was recycled, with the top materials are yard waste, mixed recyclables, and cardboard.

Within the District, there are two Class II, seven Class III, and seventeen Class IV compost and yard waste management facilities. 64% of the yard waste collected from the District is sent to be composted at Earth 'N Wood Products in Stark County.

A significant portion of the District's waste, approximately 66%, is disposed of in the Kimble Sanitary Landfill in Tuscarawas County, with an additional 21% going to the Republic Countywide RDF in Stark County. The remaining waste is sent to various other landfills.

There are a total of 38 waste haulers operating in the District. In 2023, District waste was distributed among 17 Ohio landfills and one out-of-state landfill. Approximately 70% of the waste from the District is directly transported to a landfill, while the remaining 30% goes through a Transfer Facility before being landfilled.

	Total Number of Services
Non-Subscription Curbside	20
Subscription Curbside	29
Full-Time Urban Drop-Off	44
Part-Time Urban Drop-Off	1
Full-Time Rural Drop-Off	29
Total Recycled	26,841 tons



Programs

This plan update planning cycle covers the period from 2027 through 2036. Over these 10 years, the District is expecting to see an increase in waste generation, resultant of increases in waste disposal in both the residential and industrial sector.

To achieve the goals of the state plan and meet local needs, the District must ensure that a wide variety of stakeholders have access to reduction and recycling programs. These stakeholders include residents, businesses, institutions, schools, and community leaders. These programs and services collectively represent the District’s strategy for advancing waste reduction and recycling. The District will continue the following programming:

Curbside Recycling	Pharmaceutical Collection Sites	Recycling Market Grant (Ohio EPA) Promotion and Assistance
Dropoff Recycling	Permanent HHW Collection	Program Start-Up Grants (for political subdivisions)
Curbside Expansion Efforts	Scrap Tire Program - Permanent Sites and Outreach Efforts	Recycling Drop-Off Clean-Up/Host Community Center
Curbside Re-Start Program	Yard Waste Collection Sites	Pay-As-You-Throw Grants
PAYT Promotion Efforts	Electronics Collection Program	Sheriff Department
Drop-Off Promotion Program	Lead-Acid Battery Program	Health Department Grants
Implement Curbside Recycling for Targeted Areas	Appliance Collection Program	
Community Assistance Program	Expansion of HHW Collection	
School Recycling Program		
Government Building Recycling		

Revenue and Investment

The District has three active, publicly available landfills within its boundaries to dispose of solid waste. The District’s primary funding source (99%) is revenue derived from Tiered Disposal Fees collected at the landfills in the District. The disposal fees are \$1.00 per ton on every ton of solid waste generated in the District, \$2.00 per ton for solid waste accepted from out of the District but in the State of Ohio and \$1.00 per ton for out of state solid waste. Beginning in 2028, a \$0.50 per-ton fee increase is assumed, resulting in projected annual revenues of approximately \$4.4 million.

Section i.

Solid Waste Management District Information

Table i-1 Solid Waste Management District Information

SWMD Name	Stark-Tuscarawas-Wayne Joint Solid Waste Management District
Member Counties	Stark County, Tuscarawas County, Wayne County
Coordinator's Name (main contact)	David Held
Job Title	Executive Director
Street Address	9918 Wilkshire Boulevard, NE
City, State, Zip Code	Bolivar, Ohio 44612
Phone	800-678-9839
Fax	330-874-2449
Email address	david@timetorecycle.org
Webpage	www.timetorecycle.org

Table i-2 Members of Policy Committee

Stark County	
Member Name	Representing
Janet Weir Creighton	County Commissioners
John Highman	Municipal Corporations
Bob Fallot	Townships
Kirk Norris	Health District
Elaine Campbell	Generators
Pat Fallot	Citizens
Mark Cozy	Public

Tuscarawas County	
Member Name	Representing
Kristin Zemis	County Commissioners
Joel Day	Municipal Corporations
Matt Ritterbeck	Townships
Michael Kopko	Health District
Tom Farbizo	Generators
Zachary Phillips	Citizens
David Bennett	Public

Wayne County	
Member Name	Representing
Jonathan Hofstetter	County Commissioners
Phil Turske	Municipal Corporations
Bill Cletzer	Townships
Nicholas Cascarelli	Health District
Pamela Carter	Generators
Robert Holland	Citizens
Scott Myers	Public

Table i-3 Chairperson of the Policy Committee

Name	Janet Weir Creighton
Street Address	110 Central Plaza South
City, State, Zip Code	Canton, OH 44702
Phone	330-451-7376
Fax	330-451-7376
Email address	jwcreighton@starkcountyohio.gov

Table i-4 Board of County Commissioners

Commissioner Name	County	Chairperson/ President
Janet Weir Creighton	Stark	
Richard Regula	Stark	
Bill Smith	Stark	
Chris Abbuhl	Tuscarawas	
Greg Ress	Tuscarawas	
Kristin Zemis	Tuscarawas	
Ron Amstutz	Wayne	
Jonathan Hofstetter	Wayne	X
Sue Smail	Wayne	

Technical Advisory Committee

The District did not establish a technical advisory committee (TAC) for the preparation of this Plan Update.

APPENDIX A

MISCELLANEOUS INFORMATION

Appendix A. Miscellaneous Information

A. Reference Year

The reference year for this solid waste management plan is 2023.

B. Requirements of County and Joint Solid Waste Management Districts

The planning period for this solid waste management plan is **2027 to 2036**.

C. Goal Statement

The District will achieve the following Goal(s): **Goal 1**

Goal 1: The SWMD shall provide its residents and commercial businesses with access to opportunities to recycle solid waste. At a minimum, the SWMD must provide access to recycling opportunities to 80% of its residential population in each county and ensure that commercial generators have access to adequate recycling opportunities.

Goal 2: The SWMD shall reduce and recycle at least 25% of the solid waste generated by the residential/commercial sector.

D. Explanations of differences between data previously reported and data used in the solid waste management plan

1. Difference in Quantities of Materials Recovered Between the Annual District Report and the Solid Waste Management Plan

N/A

2. Differences in financial information reported in quarterly fee reports and the financial data used in the solid waste management plan

N/A

E. Process to Determine Material Change in Circumstances and Amend the Plan

In accordance with ORC 3734.56(D), the Stark-Tuscarawas-Wayne Joint Solid Waste Management District (District) Board of Directors (Board) will use three criteria to determine if and when a material change in circumstances has occurred. A material change in circumstances shall be defined as a change that adversely affects the ability of the Board to:

- Assure waste disposal capacity during the planning period
- Maintain compliance with applicable waste reduction or access goals
- Adequately finance implementation of the Plan based on waste generation changes

The Ohio Environmental Protection Agency's (EPA) Plan Format v4.0 does not require that the *Plan Update* include a description of the process the Board will use to determine when a material change in circumstances has occurred, and, as a result, requires an amended Plan. However, the Format

recommends that a process be included in Appendix A, and the District has developed procedures addressing material change in circumstances which are described below.

The Board shall make the determination of whether a material change in circumstances has occurred according to the following guidelines:

1. Assurance of Waste Disposal Capacity

a. Reduction in Available Capacity

If the Board determines that the extended or permanent closure of a facility utilized by the District or a combination of the closure of those landfills accepting solid waste generated in the District, impairs the capacity assurance requirement of the ORC 3734.53(A) or the Plan Format, then a material change in circumstances may have occurred. A material change in circumstances has not occurred, however, if the District is able to secure arrangements to manage the waste formerly received at the closed facility by any other properly licensed and permitted solid waste management facility.

The Board will convene within 30 days of the closure of a facility utilized by the District to determine whether alternate capacity is available to the District or whether a material change in circumstances has occurred.

b. Increase in Waste Generation

Future capacity needs of the District as outlined in the Plan Update are based on waste generation estimates. A significant increase in solid waste generation within the District may affect capacity requirements and result in diminished capacity for handling or disposing of solid waste. A material change in circumstances may have occurred if waste generation increases and the increase has a significant adverse impact on capacity for handling or disposing of solid waste generated within the District at facilities identified in the Plan Update. The District will consider a waste generation increase of 30% or greater within a calendar year (January through December) as grounds for the Board to be notified to review and then determine whether a material change in circumstance has occurred. A material change in circumstances has not occurred, however, if the District can secure arrangements to manage the increased waste volume at any other properly licensed and permitted solid waste management facility.

District staff, during the term of the Plan Update, will review waste generation figures and report to the Policy Committee and the Board quarterly any increase in solid waste generation within the District that warrants the Board's consideration of whether there is adequate capacity available to handle or dispose of the increased solid waste volume. The Board shall review the report and the availability of capacity for District solid waste and determine whether sufficient capacity is available to the District or a material change in circumstances has occurred.

2. Compliance with Applicable Waste Reduction or Access Goals

a. Delay in Program Implementation or Discontinuance of Essential Waste Reduction or Recycling Activities

The following are the goals of the 2020 State Solid Waste Management Plan.

Goal 1 – Recycling Infrastructure. The SWMD shall provide its residents and commercial businesses with access to opportunities to recycle solid waste. At a minimum, the SWMD must provide access to recycling opportunities to 80 percent of its residential population in each county and ensure that commercial generators have access to adequate recycling opportunities.

Goal 2 – Waste reduction and recycling rates. The SWMD shall reduce and recycle at least 25 percent of the solid waste generated by the residential/commercial sector. The industrial sector goal has been eliminated.

Goal 3 – Outreach and Education (Minimum Required Programs). The SWMD shall provide the following required programs:

- A web site
- A comprehensive resource guide
- An inventory of available infrastructure
- A speaker or presenter

Goal 4 – Outreach and Education. The SWMD shall provide education, outreach, marketing, and technical assistance regarding reduction, recycling, composting, reuse, and other alternative waste management methods to identified target audiences using best practices.

Goal 5 – Industrial Programs and Services. The SWMD shall incorporate a strategic initiative for the industrial sector into its solid waste management plan.

Goal 6 – Restricted Solid Wastes, Household Hazardous Waste (HHW) and Electronics. The SWMD shall provide strategies for managing scrap tires, yard waste, lead-acid batteries, HHW, and electronics.

Goal 7 – Economic Incentives. The SWMD shall explore how to incorporate economic incentives into source reduction and recycling programs.

Goal 8 – Measure Greenhouse Gas Reduction. The SWMD will use U.S. EPA's Waste Reduction Model (WARM) (or an equivalent model) to evaluate the impact of recycling programs on reducing greenhouse gas emissions.

Goal 9 – Market Development. The SWMD has the option of providing programs to develop markets for recyclable materials and the use of recycled-content materials.

Goal 10 – Reporting. The SWMD shall report annually to Ohio EPA regarding implementation of the SWMD's solid waste management plan.

Pursuant to the Ohio Revised Code, the Ohio Administrative Code and the *State Solid Waste Management Plan* (State Plan), the District has established specific goals regarding waste reduction and recycling within the District. The District will propose several strategies that will greatly reduce materials currently going to area landfills and also increase local participation rates for existing recycling programs. These strategies will be a major portion of the District's compliance plan for Access and Participation Standards. The Board and Policy Committee will review the implementation of these strategies annually to ensure that the implementation will include an assessment of any changes in these strategies for access and recycling rates. Should a significant delay in program implementation or the discontinuance of essential programs result in the inability of the District to achieve either goal, the Board shall, based on recommendations from the Executive Director, make a determination as to whether a material change in circumstances has occurred. A material change in circumstances has not occurred, however, where the Board is able to implement new programs or modify existing programs to meet the goals approved in this *Plan Update* to meet State of Ohio requirements.

Though the District is committing to achieving Goal #1 in this Plan Update, the District will strive to achieve Goal #2, as well.

3. Financing of Plan Implementation

a. Decrease in Waste Generation and/or Waste Disposal

The District obtains revenues to finance implementation of the *Plan Update* from a disposal fee on solid waste received by in-district landfills as authorized by the ORC 3734.573. A significant reduction in the receipt of solid waste within or from outside of the District could result in a significant decrease in revenue and adversely affect the ability of the Board to finance implementation of the *Plan Update*. The Finance Director for the District monitors revenues and reports changes in financial condition to the Board at routine Board meetings. The Board will, based on recommendations from the Executive Director and Finance Director, review and revise the budgets and funding priorities to successfully implement the *Plan Update*. A material change in circumstances may have occurred where a significant reduction in revenue adversely affects the Board's ability to finance plan implementation. The District will consider a waste generation decrease of 30% or greater within a calendar year (January through December) as grounds for the Board to be notified to review and then determine whether a material change in circumstance has occurred. No material change in circumstances has occurred, however, where the Board is able to maintain critical programs at current funding levels through re-allocation of District funds, an increase in District fees, or creation of other funding mechanisms as permitted by the Ohio Revised Code and the Plan.

b. Change in the Solid Waste Management Facilities Identified or designated by the Plan

Solid waste management facilities are identified in the *Plan Update* to ensure waste disposal options for the District. The District currently is not designating any facilities but reserves the right to do so in this *Plan Update*. If the facilities identified should close, or for some reason they are not able to handle the District waste disposal while no other substitutes are provided, the District would determine a material change. A material change in circumstances has not occurred, however, if the District is able to secure arrangements to manage the waste formerly received at the closed facility by any other properly licensed and permitted solid waste management facility.

The District has chosen to not identify specific trigger points in the above monitoring process. The District feels very comfortable that the above listed procedures will adequately serve the District in determining if a material change has occurred based on the information and data at the time of the evaluation.

4. Procedures Where Material Change in Circumstances has Occurred

The Executive Director will monitor the implementation of the District Plan if they determine that there is a change in circumstances such that the Board should assess and determine whether a material change in circumstances has occurred. The Executive Director shall monitor the implementation of the District Plan, and provide the Board with the following:

- a. Monthly and annual reports regarding the operation of the District.
- b. Quarterly reports of District revenues derived from the tipping fees received by the District and revenues derived from other sources identified in Appendix O of the District Plan.
- c. Reports and analyses of information included in the quarterly and annual district reports to the Director of the Ohio Environmental Protection Agency.
- d. Reports that evaluate complaints by residents of the District that claim that there is a deviation from, or noncompliance with, the implementation of the District Plan. Reports regarding verified resident complaints shall include any action undertaken or proposed to address resident complaints.
- e. Reports that contain information received by the District from state or local officials or owners and operators of solid waste, collection, disposal, transfer or recycling operations, which indicate material noncompliance with, or material failure to implement, the District Plan. Any such reports shall include actions undertaken or proposed to address a verified material noncompliance with, or material failure to implement, the District Plan.
- f. Reports and recommendations from the District Policy Committee regarding the District Policy Committee's annual review of the progress of the District in implementing the District Plan.

Notification Procedure After Making a Determination of a Material Change in Circumstances

If at any time the Board determines that a material change in circumstances has occurred and a revision to the *Plan Update* is necessary, the Board shall direct the Policy Committee to prepare a Draft Amended Plan. The Board shall proceed to adopt and obtain approval of the Amended Plan in accordance with the ORC 3734.55 (A) and (C).

The District shall constantly monitor the circumstances of whether there is a material change in this *Plan Update*. If the District determines a material change in circumstances has occurred, the Board shall notify Ohio EPA within 60 days.

APPENDIX B

RECYCLING INFRASTRUCTURE INVENTORY

Appendix B. Recycling Infrastructure Inventory

Appendix B provides an inventory of the recycling infrastructure that existed in the reference year. This inventory covers residential curbside collection services, drop-off recycling sites, mixed waste materials recovery facilities, waste companies providing recycling collection and trash collection services and composting facilities and yard waste management programs.

A. Curbside Recycling Services, Drop-off Recycling Locations, and Mixed Solid Waste Materials Recovery Facilities

1. Curbside Recycling Services

Table B-1a Inventory of Non-Subscription Curbside Recycling Services Available in the Reference Year

ID #	Name of Curbside Service	Service Provider	County	How Service is Provided	Collection Frequency	Materials Collected	Type of Collection	PAYT (Y/N)	Weight of Materials Collected (tons)	Service will Continue Throughout Planning Period (Y/N)
NSC-1	City of Alliance	Kimble	Stark	Contract between City and Hauler	Weekly	Paper, Cardboard, Plastic Bottles and Jugs, Metal Cans, Glass Bottles and Jars	Single-stream	Y	1,065	Y
NSC-2	City of Canal Fulton	Republic	Stark	Contract between City and Hauler	Once/ 2 weeks		Single-stream	Y	294	Y
NSC-3	City of Canton	City	Stark	City Operated	Weekly		Single-stream	N	1,213	Y
NSC-4	Village of Hartville	Republic	Stark	Contract between Village and Hauler	Weekly		Single-stream	N	181	Y
NSC-5	Village of Hills and Dales	Kimble	Stark	Contract between Village and Hauler	Weekly		Single-stream	N	0	Y
NSC-6	City of North Canton	Kimble	Stark	Contract between City and Hauler	Weekly		Single-stream	N	1,137	Y
NSC-7	Village of Baltic	Kimble	Tuscarawas	Contract between Village and Hauler	Once/ 2 weeks		Single-stream	Y	32	Y
NSC-8	Village of Bolivar	Kimble	Tuscarawas	Contract between Village and Hauler	Once/ 2 weeks		Single-stream	Y	48	Y
NSC-9	Village of Dennison	Kimble	Tuscarawas	Contract between Village and Hauler	Once/ 2 weeks		Single-stream	Y	135	Y
NSC-10	City of Dover	Kimble	Tuscarawas	Contract between City and Hauler	Once/ 2 weeks		Single-stream	N	673	Y
NSC-11	Village of Gnadenhutten	Village	Tuscarawas	Village Operated	Weekly		Single-stream	N	122	Y
NSC-12	City of New Philadelphia	City	Tuscarawas	City Operated	Weekly		Single-stream	N	447	Y
NSC-13	Village of Strasburg	Kimble	Tuscarawas	Contract between Village and Hauler	Weekly		Single-stream	Y	178	Y
NSC-14	Village of Sugarcreek	Kimble	Tuscarawas	Contract between Village and Hauler	Once/ 2 weeks		Single-stream	Y	123	Y
NSC-15	City of Uhrichsville	Kimble	Tuscarawas	Contract between City and Hauler	Once/ 2 weeks		Single-stream	Y	254	Y

ID #	Name of Curbside Service	Service Provider	County	How Service is Provided	Collection Frequency	Materials Collected	Type of Collection	PAYT (Y/N)	Weight of Materials Collected (tons)	Service will Continue Throughout Planning Period (Y/N)
NSC-16	Village of Doylestown	Kimble	Wayne	Contract between Village and Hauler	Weekly		Single-stream	Y	155	Y
NSC-17	Village of Marshallville	Kimble	Wayne	Contract between Village and Hauler	Weekly		Single-stream	N	34	Y
NSC-18	City of Orrville	Kimble	Wayne	Contract between City and Hauler	Weekly		Single-stream	N	470	Y
NSC-19	City of Rittman	Kimble	Wayne	Contract between City and Hauler	Weekly		Single-stream	N	351	Y
NSC-20	City of Wooster	Waste Management	Wayne	Contract between City and Hauler	Weekly		Single-stream	N	1,463	Y
Total									8,375	

Source: Annual District Report (2023)

Table B-1b Inventory of Subscription Curbside Recycling Services Available in the Reference Year

ID #	Name of Curbside Service	County	How Service is Provided	Collection Frequency	Materials Collected	Type of Collection	PAYT (Y/N)	Weight of Materials Collected from SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
SC-1	City of Massillon	Stark	Kimble	Weekly	Paper, Cardboard, Plastic Bottles and Jugs, Metal Cans, Glass Bottles and Jars	Single-stream	Y	1,500	Y
SC-2	City of Louisville	Stark	Kimble	Weekly		Single-stream	N	N/A	N, changed to NSC in 2024
SC-3	Navarre Village	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-4	Bethlehem Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-5	Village of Meyers Lake	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-6	Canton Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-7	Jackson Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-8	Lake Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-9	Lawrence Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-10	Lexington Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-11	Marlboro Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-12	Nimishillen Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-13	Village of East Canton	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-14	Osnaburg Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-15	Village of Minerva	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-16	Paris Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-17	Perry Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-18	Village of East Sparta	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-19	Pike Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y

ID #	Name of Curbside Service	County	How Service is Provided	Collection Frequency	Materials Collected	Type of Collection	PAYT (Y/N)	Weight of Materials Collected from SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
SC-20	Plain Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-21	Village of Magnolia	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-22	Village of Waynesburg	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-23	Sandy Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-24	Village of Beach City	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-25	Village of Brewster	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-26	Village of Wilmot	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-27	Sugar Creek Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-28	Tuscarawas Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
SC-29	Washington Township	Stark	Kimble	Weekly		Single-stream	Y	N/A	Y
Total								1,500	

Source: Annual District Report (2023)

2. Drop-off Recycling Locations

Table B-2a Inventory of Full-Time, Urban Drop-Off Sites Available in Reference Year

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
FTU-1	Alliance Recycling Center	District	Stark	District	M - F 8am - 4:30pm & Sat 8am – 12pm	Paper, Cardboard, Plastic Bottles and Jugs, Metal Cans, Glass Bottles and Jars	Y	DNR	Y
FTU-2	City of Canton	District	Stark	District	M - F 6am – 4pm & Sat 6am – 12pm		Y	DNR	Y
FTU-3	Canton Township (Township Building)	District	Stark	District	Dawn to Dusk		Y	172	Y
FTU-4	Jackson Township (Middle School)	District	Stark	District	Dawn to Dusk		Y	192	Y
FTU-5	Jackson Township (Parks Maint. Facility)	District	Stark	District	Dawn to Dusk		Y	321	Y
FTU-6	Jackson Township (Real Hope Church)	District	Stark	District	Dawn to Dusk		Y	177	Y
FTU-7	Jackson Township (Strausser Elementary)	District	Stark	District	Dawn to Dusk		Y	124	Y
FTU-8	Lake Township (Hartville Village)	District	Stark	District	Dawn to Dusk		Y	209	Y

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
FTU-9	Lake Township (Recycling Station)	District	Stark	District	M - F 7AM - 7PM, Sat - Sun 9AM - 5PM		Y	315	Y
FTU-10	Lawrence Township (Service Center)	District	Stark	District	Dawn to Dusk		Y	191	Y
FTU-11	Lexington Township (Fire Station #2)	District	Stark	District	Dawn to Dusk		Y	66	Y
FTU-12	City of Louisville (Louisville Service Center)	District	Stark	District	Dawn to Dusk		Y	216	Y
FTU-13	City of Massillon (City Garage)	District	Stark	District	Dawn to Dusk		Y	20	Y
FTU-14	City of Massillon (Recreation Center)	District	Stark	District	Dawn to Dusk		Y	177	Y
FTU-15	Village of Minerva (Paris Township)	District	Stark	District	Dawn to Dusk		Y	159	Y
FTU-16	Village of Navarre (Village Hall)	District	Stark	District	Dawn to Dusk		Y	138	Y
FTU-17	Nimishillen Township (Anthony Petitti Garden)	District	Stark	District	Dawn to Dusk		Y	137	Y
FTU-18	Nimishillen Township (Township Hall)	District	Stark	District	Dawn to Dusk		Y	155	Y
FTU-19	Osnaburg Township (Fire Station)	District	Stark	District	Dawn to Dusk		Y	104	Y
FTU-20	Paris Township (Service Center)	District	Stark	District	Dawn to Dusk		Y	59	Y
FTU-21	Perry Township (Garage)	District	Stark	District	Dawn to Dusk		Y	133	Y
FTU-22	Perry Township (Administration Building)	District	Stark	District	Dawn to Dusk		Y	210	Y
FTU-23	Perry Township (Recycling Station)	District	Stark	District	Dawn to Dusk		Y	277	Y
FTU-24	Plain Township (Diamond Park)	District	Stark	District	Dawn to Dusk		Y	283	Y
FTU-25	Plain Township (Easton St)	District	Stark	District	Dawn to Dusk		Y	210	Y
FTU-26	Plain Township (First Friends)	District	Stark	District	Dawn to Dusk		Y	163	Y
FTU-27	Plain Township (Saint Michael Church)	District	Stark	District	Dawn to Dusk		Y	85	Y
FTU-28	Sugar Creek Township - Village of Beach City (Behind Police Department)	District	Stark	District	Dawn to Dusk		Y	51	Y
FTU-29	Sugar Creek Township - Village of	District	Stark	District	Dawn to Dusk		Y	142	Y

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
	Brewster (Street Department)								
FTU-30	Tuscarawas Township (Township Office)	District	Stark	District	Dawn to Dusk		Y	137	Y
FTU-31	City of Dover (Parkside Buehlers)	Kimble	Tuscarawas	Kimble	Dawn to Dusk		Y	189	Y
FTU-32	Lawrence Township (Bolivar Giant Eagle)	Kimble	Tuscarawas	Kimble	Dawn to Dusk		Y	284	Y
FTU-33	City of New Philadelphia (Buehlers)	Kimble	Tuscarawas	Kimble	Dawn to Dusk		Y	381	Y
FTU-34	Village of Newcomerstown (Water Works)	Kimble	Tuscarawas	Kimble	Mon - Sun 7am-7pm		Y	171	Y
FTU-35	Chippewa Township (Village of Doylestown)	District	Wayne	District	Dawn to Dusk		Y	63	Y
FTU-36	Village of Apple Creek (East Union Township)	District	Wayne	District	Dawn to Dusk		Y	97	Y
FTU-37	City of Orrville (Buehler's Fresh Foods/Green Township)	District	Wayne	District	Dawn to Dusk		Y	87	Y
FTU-38	Congress Township (Service Department)	District	Wayne	District	Dawn to Dusk		Y	32	Y
FTU-39	Village of Dalton (Sugar Creek Township)	District	Wayne	District	Dawn to Dusk		Y	147	Y
FTU-40	Village of Kidron (Lehman Hardware and Appliances/Sugar Creek Township)	District	Wayne	District	Dawn to Dusk		Y	86	Y
FTU-41	Village of Smithville (Sam's Pizza & Heroes/Green Township)	District	Wayne	District	Dawn to Dusk		Y	112	Y
FTU-42	City of Wooster (Buehler's)	District	Wayne	District	Dawn to Dusk		Y	221	Y
FTU-43	Wooster Township (Valley College Grange)	District	Wayne	District	Dawn to Dusk		Y	170	Y
FTU-44	Wooster Township (OARDC)	District	Wayne	District	Dawn to Dusk		Y	28	Y
Total								6,691	

Source: Annual District Report (2023)

Table B-2b Inventory of Part-Time, Urban Drop-Off Sites Available in Reference Year

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
PTU-1	Canton Recycle Center	District	Stark	District	Tues, Fri 9am-3pm	Paper, Cardboard, Plastic Bottles and Jugs, Metal Cans, Glass Bottles and Jars, HHW, Scrap Tires, E-Waste	Y	226	Y
Total								226	

Source: Annual District Report (2023)

Table B-2c Inventory of Full-Time, Rural Drop-Off Sites Available in Reference Year

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
FTR-1	Marlboro Township (Service Center)	District	Stark	District	Dawn to Dusk	Paper, Cardboard, Plastic Bottles and Jugs, Metal Cans, Glass Bottles and Jars	Y	74	Y
FTR-2	Pike Township (Countywide RDF)	District	Stark	District	Dawn to Dusk		Y	DNR	Y
FTR-3	Pike Township (Fire Station)	District	Stark	District	Dawn to Dusk		Y	88	Y
FTR-4	Pike Township (Township Office)	District	Stark	District	Dawn to Dusk		Y	104	Y
FTR-5	Sandy Township (Administrative Building)	District	Stark	District	Dawn to Dusk		Y	77	Y
FTR-6	Village of Magnolia (Sandy Township)	District	Stark	District	Dawn to Dusk		Y	38	Y
FTR-7	Washington Township (Township Office)	District	Stark	District	Dawn to Dusk		Y	90	Y
FTR-8	Dover Township (Kimble)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	6	Y
FTR-9	Fairfield Township	Kimble	Tuscarawas	Contract between	Dawn to Dusk		Y	28	Y

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
	(Township Building)			District and Hauler					
FTR-10	Franklin Township - Strasburg (Kraus Pizza)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	118	Y
FTR-11	Jefferson Township (Township Garage)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	51	Y
FTR-12	Mill Township	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	150	Y
FTR-13	Perry Township (West Chester Community)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	20	Y
FTR-14	Sandy Township (Township Building)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	83	Y
FTR-15	Village of Sugarcreek (Baker's IGA)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	60	Y
FTR-16	Warwick Township (Community Center)	Kimble	Tuscarawas	Contract between District and Hauler	M - F 7:30am - 3:30pm & Sat 12pm – 7pm		Y	44	Y
FTR-17	Washington Township (Township Garage)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	18	Y
FTR-18	Wayne Township (Township Building)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	33	Y
FTR-19	Mill Township (Township Garage)	Kimble	Tuscarawas	Contract between District and Hauler	Dawn to Dusk		Y	150	Y
FTR-20	Baughman Township (Recycling Drop Off)	District	Wayne	District	Dawn to Dusk		Y	43	Y
FTR-21	Chester Township (Northwestern Elementary School)	District	Wayne	District	Dawn to Dusk		Y	61	Y
FTR-22	Congress Township - Village of West Salem	District	Wayne	District	Dawn to Dusk		Y	56	Y
FTR-23	Village of Creston (Canaan Township)	District	Wayne	District	Dawn to Dusk		Y	37	Y

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
FTR-24	Franklin Township (Township Hall)	District	Wayne	District	Dawn to Dusk		Y	37	Y
FTR-25	Milton Township (Township Garage)	District	Wayne	District	Dawn to Dusk		Y	36	Y
FTR-26	Paint Township (Service Center)	District	Wayne	District	Dawn to Dusk		Y	21	Y
FTR-27	Plain Township (Township Garage)	District	Wayne	District	Dawn to Dusk		Y	27	Y
FTR-28	Salt Creek Township - Village of Fredericksburg (Elementary School)	District	Wayne	District	Dawn to Dusk		Y	39	N
FTR-29	Wayne Township (Township Garage)	District	Wayne	District	Dawn to Dusk		Y	85	Y
Total								1,674	

Source: Annual District Report (2023)

Table B-2d Inventory of Part-Time, Rural Drop-Off Sites Available in Reference Year

ID#	Name of Drop-off Site	Service Provider	County	How Service is Provided	Days and Hours Available to the Public	Materials Collected	Drop-off Meets All Minimum Standards (Y/N)	Weight of Materials Collected from the SWMD (tons)	Service will Continue Throughout Planning Period (Y/N)
	None								

Source: Annual District Report (2023)

3. Mixed Municipal Solid Waste Recovery Facility

Table B-3 Mixed Municipal Solid Waste Material Recovery Facility

Name of Facility	Location	Communities Served	Types of Materials Recovered	Weight of Materials Recovered (tons)	Waste Processed (tons)	Bypass Waste (tons)	Total Waste (tons)	Recovery Rate in Reference Year (percent)
None								

A mixed solid waste materials recovery facility (MRF) gives residents access to recycling opportunities by removing recyclables from trash for residents. In the reference year, there were no mixed solid waste material recovery facilities that accepted District waste.

B. Curbside Recycling and Trash Collection Service Providers

Table B-4 Inventory of Curbside Recycling and Trash Collection Service Providers in the Reference Year

Name of Provider	Trash Collection Services			Curbside Recycling Services		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Canton Sanitation Department	✓	✓		✓		
New Philadelphia City	✓	✓		✓		
Gnadenhutten Village	✓	✓		✓		
123 Disposal, Inc.		✓				
Ace Roll-Off Service	✓	✓				
American Waste Management Services	✓	✓				
Bailey's Waste Service	✓	✓				
C. Martin Trucking	✓	✓	✓			
Cardinal Waste Service	✓	✓		✓	✓	
Cobra Rolloff	✓	✓	✓			
R & R Sanitation	✓	✓				
Darrel's Disposal LLC	✓	✓				
Earth 'N Wood Landscaping Supply	✓			✓		
J & J Refuse/Kimble Companies	✓	✓		✓	✓	
Toles and Son Waste Collection LLC	✓	✓				
Jim Bob's Refuse	✓	✓				
JMW Trucking Services		✓				
Kenstar Services	✓	✓				
Klein Hauling	✓	✓				
Jones Rolloff	✓	✓	✓			
Just Us Disposal	✓	✓				
Meta Waste	✓	✓				
Miller and Company	✓	✓	✓			
Miller's Reliable Waste Service	✓					
Pitstop Refuse	✓	✓				
Waste Management of Ohio (formerly listed as Metro)	✓	✓	✓	✓	✓	✓
Republic Service	✓	✓		✓	✓	
Rumpke Transportation	✓	✓		✓	✓	
Shaffing Hauling	✓	✓				
Spenser White Waste	✓	✓				
Stevens Hauling & Rubbish	✓	✓		✓		
Tippel's Rubbish Removal	✓	✓				
Tony's Hauling	✓	✓				
Trissel Rolloff	✓	✓				
Vaughn's Refuse	✓	✓				
Waste Management of Ohio	✓	✓		✓		
Whetstone Hauling	✓	✓				
William's Waste Service	✓	✓				

Source(s): 2023 – 2032 SWMP Plan

C. Composting Facilities

Table B-5 Inventory of Composting/ Yard Trimmings Management Activities Available in the Reference Year

Facility Name	Compost Facility Classification	Publicly Accessible (Y/N)	Location	Food Waste (tons)	Yard Waste (tons)	Total
Uniontown Topsoil & Mulch LLC	4	N	Stark		876	876
Kimble Sanitary Landfill	4	N	Stark		430	430
Earth 'N Wood Products Inc	4	N	Stark		45,132	45,132
Stark C & D Disposal Inc	4	N	Stark		834	834
Warstler Bros Landscaping	4	N	Stark		121	121
Earth 'N Wood Products Inc Class II	2	N	Stark		4,815	4,815
Zollinger Sand & Gravel Co	4	N	Stark		159	159
Number One Landscape	4	N	Stark		112	112
Yoderscape, Inc	4	N	Stark		332	332
Bull Country Composting	3	N	Stark		6,178	6,178
Mr Mulch	4	N	Stark		2,941	2,941
Kimble Sanitary Landfill	4	N	Tuscarawas		212	212
Tuscarawas, Village of	4	N	Tuscarawas		54	54
Bull Country Composting	3	N	Tuscarawas		4,949	4,949
Paradise Composting Class II	2	N	Wayne	172	0	172
Orrville Composting Facility	4	N	Wayne		255	255
Wayne Lawn and Landscape	4	Y	Wayne		52	52
Kimble Sanitary Landfill	4	N	Wayne		1	1
OARDC Ohio Agriculture Research	3	N	Wayne		109	109
Village of Shreve	4	N	Wayne		132	132
Paradise Lawn Care Inc	4	Y	Wayne		658	658
Zollinger Sand & Gravel Co	4	N	Wayne		673	673
Paradise Composting Co. Class III	3	N	Wayne		529	529
Smith Bros Inc	4	N	Wayne		386	386
Kellys Kompost	3	N	Wayne		17	17
Total				172	69,956	70,128

Source: 2023 Ohio EPA Compost Facility Report

Table B-5 identifies the yard waste management facilities and activities which received yard waste and other organic waste during the reference year. This table includes the facilities and programs that managed food waste and yard waste. As shown in the table, the District sent over 70,000 tons of material to 25 different composting facilities in the reference year – 99% being yard waste material.

D. Other Food and Yard Waste Management Programs

Table B-6 Inventory of Other Food and Yard Waste Management Activities Used in Reference Year

Facility or Activity Name	Activity Type	Location	Food Waste (tons)	Yard Waste (tons)
Hauler/Grocer Food Waste Data	Food Donation	Stark	366	0
Hauler/Grocer Food Waste Data	Food Donation	Tuscarawas	116	0
Hauler/Grocer Food Waste Data	Food Donation	Wayne	153	0
Total			635	0

Source(s): 2023 Ohio EPA Compost Facility Report

A reported total of 635 tons of material was diverted from hauler/grocer food waste businesses in the reference year.

E. Material Handling Facilities Used by the SWMD in the Reference Year

Table B-7 Inventory of Material Handling Facilities Used by the District in the Reference Year

Facility Name	County	State	Type of Facility	Weight of Material Accepted from SWMD (tons)
WM - Cleveland	Cuyahoga	Ohio	MRF	60
Rumpke Elmwood Recycling	Hamilton	Ohio	MRF	1
Richland County Materials Recovery Facility	Richland	Ohio	MRF	50
Kimble Dover Facility ¹	Tuscarawas	Ohio	MRF	7,817
Total				7,927

¹ The tons accepted from the District by Kimble were determined by summing the tonnages for all the curbside services in Table B-1a & B-1b and the drop-offs serviced in Table B-2a & B-2c that are under contract with Kimble.

Source(s): 2023 Ohio EPA Material Recovery Facility Report; Contract with Kimble.

Four MRF's reported receiving materials for processing. In the reference year, a total of 7,927 tons of material was sent to these facilities.

APPENDIX C

POPULATION DATA

Appendix C. Population Data

A. Reference Year Population

Table C-1a. Reference Year Population Adjustments

Stark County	Population
Before Adjustment	372,716
<i>Additions</i>	
Alliance city	45
Magnolia village	277
Minerva village	1,739
After Adjustment	374,777

Tuscarawas County	Population
Before Adjustment	91,874
<i>Additions</i>	
Baltic village	171
After Adjustment	92,045

Wayne County	Population
Before Adjustment	116,510
<i>Additions</i>	
Creston village	87
Rittman city	117
<i>Subtractions</i>	
Norton city	5
After Adjustment	116,709

Source(s):

"2023 Population Estimates for Cities, Villages, and Townships" prepared by Ohio Department of Development, Office of Research

"Population and Households: 2020, 2010, and 2000" prepared by Ohio Department of Development, Office of Research

U.S. Census Bureau County Quick Facts 2023 Population

Table C-1b: Total Reference Year Population

Unadjusted Population	Adjusted Population
581,100	583,531

Reference year population is taken from Ohio Department of Development Office (ODOD) and the U.S. Census Bureau. ODOD provided population numbers for 2023 based on the 2023 U.S. Census data by governmental unit. The District applied the 2023 ODOD population numbers by percent to the 2023 U.S.

Census county data. Note: Ohio law requires that the entire population of a municipality located in more than one solid waste management district be added to the solid waste management district containing the largest portion of the jurisdiction's population.

B. Population Projections

Table C-2: Population Projections

Year	Stark County	Tuscarawas County	Wayne County	Total District
2023	374,777	92,045	116,709	583,531
2024	372,867	91,737	116,390	580,994
2025	370,967	91,430	116,072	578,468
2026	369,076	91,124	115,755	575,954
2027	367,195	90,819	115,438	573,452
2028	365,323	90,515	115,123	570,961
2029	363,461	90,212	114,808	568,481
2030	361,609	89,910	114,494	566,013
2031	359,766	89,609	114,181	563,556
2032	357,932	89,309	113,869	561,111
2033	356,108	89,011	113,558	558,676
2034	354,293	88,713	113,248	556,253
2035	352,487	88,416	112,938	553,841
2036	350,691	88,120	112,629	551,440

Source: Ohio Department of Development, "2020 to 2050 Projected Population for Ohio Counties - Summary 2020 to 2050 Projected,"

Sample Calculation: 2024 Projected Population = 2023 population + (annual percent change + 2023 population)

Stark County = 374,777 + (-0.51% + 374,777) = 372,867

Tuscarawas County = 92,045 + (-0.33% + 92,045) = 91,737

Wayne County = 116,709 + (-0.27% + 116,709) = 116,390

Population projections for the entire planning period are shown above in **Table C-2**. The District population calculated are projection estimates from ODO. Linear interpolation was used to develop the population estimates for years between the five-year intervals listed above.

Population projections gauge future demand for services, but in projection calculations there is room for errors given the difficulty associated with forecasting. **Table C-2** shows a steady decrease in the population throughout the planning period. Total District population is expected to decrease by 5.8% from 2023 through 2036. This is an annual decrease of 0.4%. The population is estimated to decrease by roughly 10,000 residents from the first planning year (2027) through the fifth planning year (2030), a 2% decrease.

APPENDIX D

DISPOSAL DATA

Appendix D. Disposal Data

Appendix D provides an inventory of where waste was managed in the reference year, 2023, calculates the total waste disposed in the reference year, analyzes historical waste disposal quantities, and projects waste to be disposed.

A. Reference Year Waste Disposed

Table D-1a Waste Disposed in Reference Year – Publicly-Available Landfills (Direct Haul)

Facility Name	Location		Waste Accepted from the SWMD			
	County	State	Residential/ Commercial (tons)	Industrial (tons)	Excluded (tons)	Total (tons)
American Landfill	Stark	OH	39,533	259,579	3,040	302,152
Apex Environmental	Belmont	OH	13,180	6,680	9	19,870
Athens-Hocking Landfill	Athens	OH		4,004		4,004
Carbon Limestone Landfill	Mahoning	OH	16.54	28	24	68
Cherokee Run Landfill	Logan	OH			1	1
County Environmental of Wyandot	Wyandot	OH	6.01		1	7
Countywide RDF - Republic Services	Stark	OH	104,968	93,761	29,115	227,845
Crawford County Landfill	Crawford	OH	4		2	6
Evergreen Recycling & Disposal	Wood	OH			4	4
Geneva Landfill	Ashtabula	OH	2			2
Kimble Sanitary Landfill	Tuscarawas	OH	119,900	41,345	18,583	179,829
Mahoning Landfill	Mahoning	OH		17	153	169
Pine Grove Regional Facility	Fairfield	OH			1	1
Port Clinton Landfill	Ottawa	OH	8			8
Rumpke of Northern Ohio Noble Road Landfill	Richland	OH	531	12,638	247	13,417
Wood County Landfill	Wood	OH	1			1
Liberty Tire Services, Tire Monofill	Stark	OH	4,184			4,184
County Line Landfill	N/A	IN	39	59		98
Total			282,375	418,111	51,180	751,666

Source(s): Ohio Environmental Protection Agency, "2023 Ohio EPA Waste Flow Report" and Liberty Tire "Annual Operation Report for Scrap Tire Monofill and Monocell – 2024"

Note: Excluded wastes are classified as slag, uncontaminated earth, non-toxic fly ash, spent non-toxic foundry sand and material from mining, construction, or demolition operations.

A wide variety of waste is disposed in municipal solid waste landfills. Material disposed at these facilities includes waste from households, businesses, institutions, and industrial activities. If permitted, asbestos construction and demolition debris, dewatered sludge, soil, and incinerated ash may also be disposed in landfills. Industrial waste includes excluded waste. Waste flows to landfills either by direct haul or through a transfer facility.

A majority of private haulers provide waste collection services in the District. The District operates under a private, open market system that allows residents to choose their preferred waste hauler. In addition to private haulers, the District also has public sector haulers that offer waste collection services in certain areas, including Canton, New Philadelphia, and Gnadenhutten Village.

District waste was directly hauled to 18 landfills in the reference year shown above in **Table D-1a**. The majority of the residential/ commercial waste, 43%, was sent to the Kimble Sanitary Landfill located in Tuscarawas County and 37% was sent to the Countywide RDF Landfill located in Stark County.

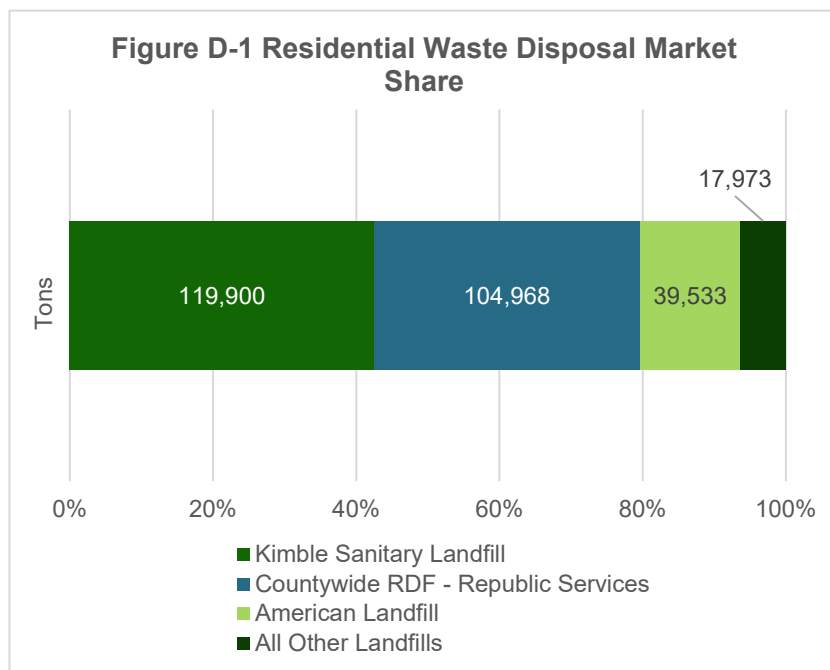


Table D-1b Reference Year Waste Disposed – Captive Landfills

Facility Name	Location		Waste Accepted from the District		
	County	State	Industrial (tons)	Excluded (tons)	Total (tons)
None					

Table D-1c Total Waste Disposal in Landfills (Direct Haul)

Residential/ Commercial (tons)	Industrial (tons)	Excluded (tons)	Total (tons)
282,375	418,111	51,180	751,666

Source(s): Ohio Environmental Protection Agency, "2023 Ohio EPA Waste Flow Report"

Note: Excluded wastes are classified as slag, uncontaminated earth, non-toxic fly ash, spent non-toxic foundry sand and material from mining, construction, or demolition operations.

The residential/commercial sector accounts for 38% of the total waste, and the industrial sector accounts for roughly 56%. Finally, excluded waste accounts for 7% of the waste stream.

Table D-2 Reference Year Waste Transferred

Facility Name	Location		Waste Received from the SWMD			
	County	State	Residential/ Commercial (tons)	Industrial (tons)	Excluded (tons)	Total (tons)
Akron Central Transfer Facility	Summit	OH	8,879	-	-	8,879
Browning Ferris Industries of Ohio - Glenwillow	Cuyahoga	OH	13	-	-	13
Cleveland Transfer / Recycling Station	Cuyahoga	OH	50	5	-	55
Girard Transfer Station	Trumbull	OH	4	-	-	4
Harvard Road Transfer Station	Cuyahoga	OH	-	-	10	10
Kimble Transfer & Recycling - Canton	Stark	OH	223,232	4,105	21,306	248,643
Kimble Transfer & Recycling - Carrollton	Carroll	OH	1,976	-	11	1,988
Kimble Transfer & Recycling - Twinsburg	Summit	OH	2,925	-	12	2,937
Kimble Transfer & Recycling Facility - Cambridge	Guernsey	OH	910	-	77	987
Ohio Valley Waste Warren	Trumbull	OH	0.42	-	-	0.42
Republic Akron Transfer Facility	Summit	OH	4,437	-	-	4,437
Rumpke Broadview Heights Transfer Facility	Cuyahoga	OH	1,450	-	116	1,566
Rumpke Richland County Transfer Facility	Richland	OH	7,214	-	24	7,238
Total			251,093	4,110	21,555	276,758

Source(s):

Ohio EPA "2023 Analytics Waste Flow Report"

Ohio EPA "2023 Facility Data Report"

Note: Excluded wastes are classified as slag, uncontaminated earth, non-toxic fly ash, spend non-toxic foundry sand and material from mining, construction, or demolition operations.

Transfer facilities are conveniently located where solid waste, delivered by collection companies and residents, is consolidated, temporarily stored, and loaded into semi-trailers for transport. Solid waste is then delivered to a processing facility or disposal site. In cases where waste is hauled from a transfer facility to a landfill, the county of origin is not recorded at the landfill. This means a load of trash disposed in a landfill from a transfer facility could have waste mixed from several counties. When a transfer facility hauls to more than one landfill, it becomes difficult to track which landfill received a county's waste. For planning purposes, the waste hauled through transfer facilities is listed separately identifying destination landfills.

Table D-2 above illustrates the waste transferred by the District in the reference year. Approximately 90% of the District's transferred waste went to the Kimble Transfer & Recycling Station – Canton located in Stark County.

Waste transferred through a transfer facility was hauled for final disposal to a landfill. In 2023, transfer facilities managing the District waste reported hauling to the destination landfill as follows:

Transfer Station	Destination Landfill	Location
Akron Central Transfer Facility	American Landfill	Stark
Browning Ferris Industries of Ohio - Glenwillow	Lorain County II Landfill	Lorain
Cleveland Transfer / Recycling Station	American Landfill	Stark
Girard Transfer Station	Seneca Landfill	PA
Harvard Road Transfer Station	Noble Rd Landfill	Richland
Kimble Transfer & Recycling - Canton	Kimble Sanitary Landfill	Tuscarawas
Kimble Transfer & Recycling - Carrollton	Kimble Sanitary Landfill	Tuscarawas
Kimble Transfer & Recycling - Twinsburg	Kimble Sanitary Landfill	Tuscarawas
Kimble Transfer & Recycling Facility - Cambridge	Kimble Sanitary Landfill	Tuscarawas
Ohio Valley Waste Warren	Seneca Landfill	PA
Republic Services of Ohio Akron Transfer Facility	Countywide RDF	Stark
Rumpke Broadview Heights Transfer Facility	Noble Rd Landfill	Richland
Rumpke Richland County Transfer Facility	Noble Road Landfill	Richland

Table D-3 Waste Incinerated/Burned for Energy Recovery in Reference Year

Facility Name	Facility Type	Location		Waste Accepted from the SWMD			
		County	State	Residential/ Commercial (tons)	Industrial (tons)	Excluded (tons)	Total (tons)
Covanta Environmental Solutions, LLC	SF	N/A	IN			23	23
Indianapolis Resource Recovery Facility	I	N/A	IN			8	8
Medassure Of Indiana Treatment Facility	MW	N/A	IN	8			8
Merrell Bros Inc Indy Disposal Solutions	SF	N/A	IN			4	4
Specific Waste Industries LLC	MW	N/A	IN			0.13	0
Tradebe Treatment & Recycling, LLC	SF	N/A	IN			44	44
Total				8	0	79	87

Source(s):

Ohio EPA "2023 Analytics Waste Flow Report"

Ohio EPA "2023 Facility Data Report"

Waste was managed by six incinerators located in Indiana during the reference year, as shown in Table D-3 above.

Table D-4 Reference Year Total Waste Disposed

	Residential/ Commercial (tons)	Industrial (tons)	Excluded (tons)	Total (tons)	% of Total Waste Disposed
Direct Hauled	282,375	418,111	0	700,486	73%
Transferred	251,093	4,110	0	255,202	27%
Incinerated	0	0	0	0	0%
Total	533,468	422,220	0	955,688	100%
Percent of Total	56%	44%	0%	100%	

Source(s):
Ohio EPA “2023 Analytics Waste Flow Report”
Ohio EPA “2023 Facility Data Report”
Indiana Department of Environmental Management “2023 Waste Received Report”

Note: Excluded wastes are classified as slag, uncontaminated earth, non-toxic fly ash, spend non-toxic foundry sand and material from mining, construction, or demolition operations.

Supplement to Table D-4 Reference Year Total Waste Disposed

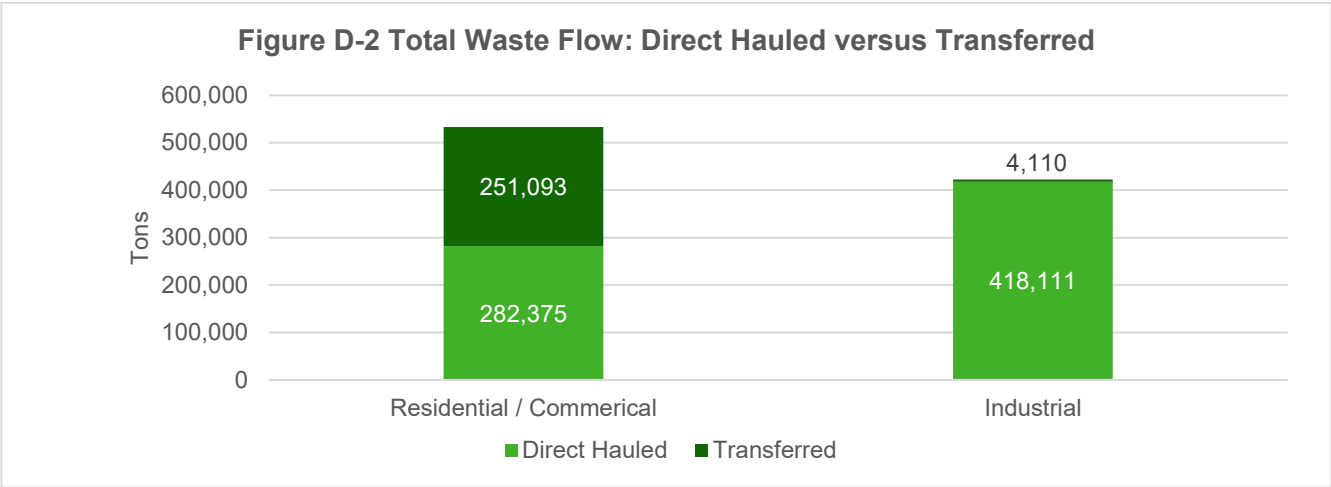
	Residential/ Commercial (tons)	Industrial (tons)	Excluded (tons)	Total (tons)	% of Total Waste Disposed
Direct Hauled	282,375	418,111	51,180	751,666	73%
Transferred	251,093	4,110	21,555	276,758	27%
Incinerated	8	0	79	87	0%
Total	533,476	422,220	72,815	1,028,511	100%

Percent of Total	52%	41%	7%	100%
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Excluded waste and incinerated waste have been included in this table but will be excluded from the rest of the Plan Update. According to Ohio EPA Format 4.2, if excluded waste is 10% or less of total disposal in the reference year, then Districts are not required to account for excluded waste or incinerated waste in the solid waste management plan. This waste accounts for less than 10% of the total disposal.

Most of the District’s waste is directly hauled to a landfill rather than first flowing through a transfer station. Roughly 73% of its waste is direct hauled and 27% transferred. One out-of-state landfill accepted District waste in the reference year.

Figure D-2 below shows the estimated portion of waste flow direct hauled versus transferred in the reference year.



Source(s):
Ohio EPA “2023 Analytics Waste Flow Report”
Ohio EPA “2023 Facility Data Report”

B. Historical Waste Analysis

Note to Ohio EPA All historical residential and commercial waste disposal tonnage figures have been adjusted to include the volume of tires disposed at the Liberty Tire Monofill. Because this tire tonnage is not reflected in the Ohio EPA ADR review forms or Facility Waste Flow reports, the historical disposal totals presented in Table D-5 and subsequent tables will differ accordingly.

Table D-5 Historical Disposal Data

Year	Population	Residential/ Commercial Solid Waste		Industrial Solid Waste	Excluded Waste	Total Waste
		Rate (ppd)	Weight (tons)	Weight (tons)	Weight (tons)	Weight (tons)
2019	583,531	4.82	513,169	390,443	N/A	903,612
2020	579,231	4.96	524,468	413,478	N/A	937,946
2021	583,044	5.08	540,307	522,283	N/A	1,062,590
2022	581,153	4.89	518,718	470,632	N/A	989,350
2023	583,531	5.01	533,468	422,220	N/A	955,688

Source(s): Ohio EPA ADR Review Forms for 2019, 2020, 2021 and 2022 for population and waste disposal data

Note: 2023 population was adjusted to match the population calculations in Appendix C

Residential/Commercial + Industrial + Excluded = Total Waste

$((\text{Residential/Commercial tons} * 2,000 \text{ pounds per ton}) / 365 \text{ days}) / \text{Population} = \text{Residential/Commercial disposal rate}$

Table D-5a Annual Percentage Change

	Residential / Commercial	Industrial Solid Waste	Excluded Waste	Total Waste
2019				
2020	2%	6%	N/A	4%
2021	3%	26%	N/A	13%
2022	-4%	-10%	N/A	-7%
2023	3%	-10%	N/A	-3%

Table D-5b Annual Change in Tons Disposed

	Residential / Commercial	Industrial Solid Waste	Excluded Waste	Total Waste
2019				
2020	11,299	23,035	N/A	34,334
2021	15,839	108,805	N/A	124,644
2022	-21,589	-51,651	N/A	-73,240
2023	14,750	-48,412	N/A	-33,661

Table D-5c Average Annual Percentage Change

Average Annual Percent Change	
Residential/Commercial	1%
Industrial Waste	3%
Excluded Waste	N/A

Table D-5d Average Annual Change in Tons Disposed

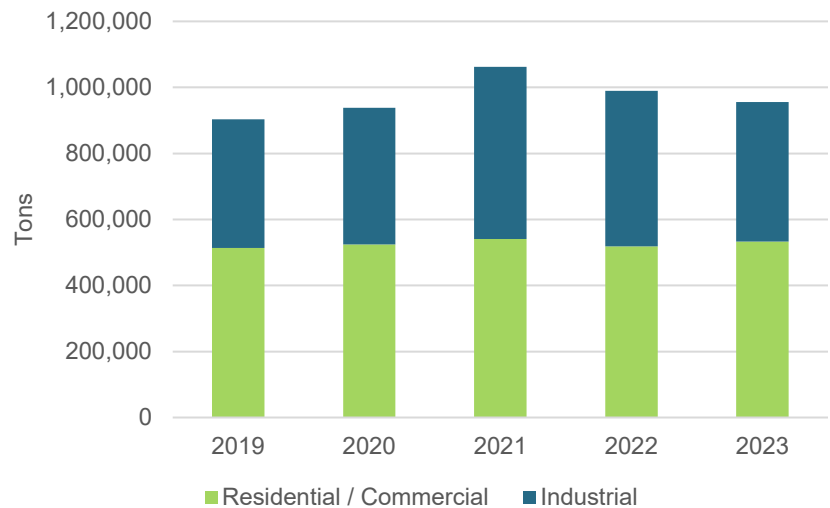
Average Annual Change in Tons Disposed	
Residential/Commercial	5,075
Industrial	7,944
Excluded	N/A

Table D-5e Average Per Capita Disposal Over Time

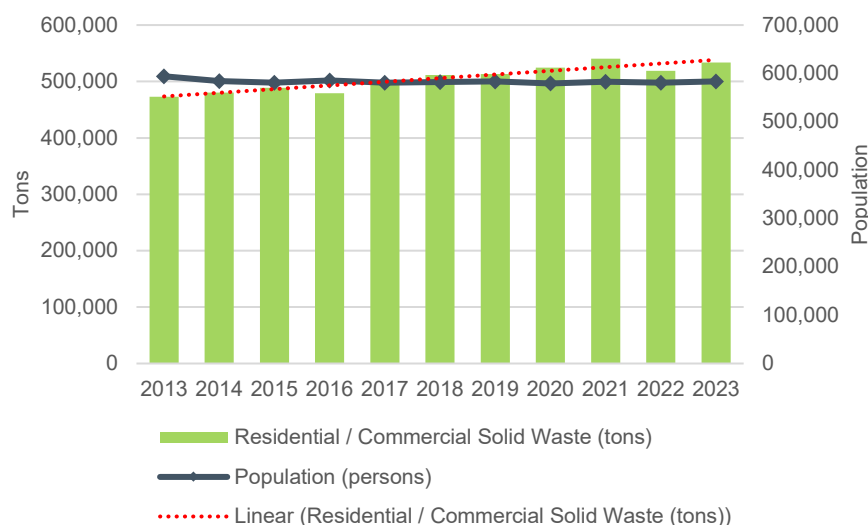
Average Per Capita Disposal Over Time (5 Years)	
Residential/Commercial	4.95

The disposal tonnages for the residential/commercial sector and the industrial sector are shown above. As seen, residential/commercial and industrial waste has historically contributed on average 54% and 46% of all waste disposed respectively.

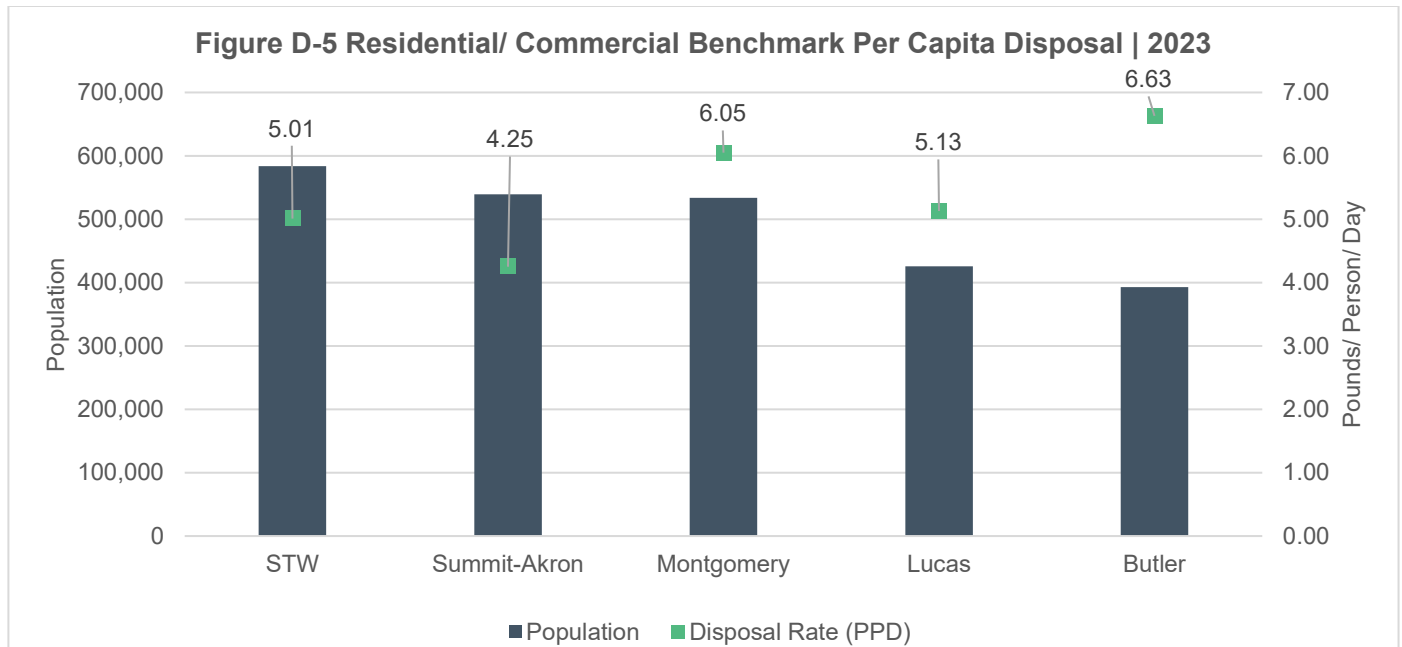
During the five-year period from 2019 to 2023, the District's total disposal increased from roughly 900,000 tons to roughly 955,000 tons. This is a roughly 55,000-ton increase, or about a 6% increase from the 2019 waste disposal tonnages. The following analysis will explore these patterns in more detail.

Figure D-3 Historical Waste Disposal

1. Residential/ Commercial Disposal

Figure D-4 Historical Residential / Commercial Disposal

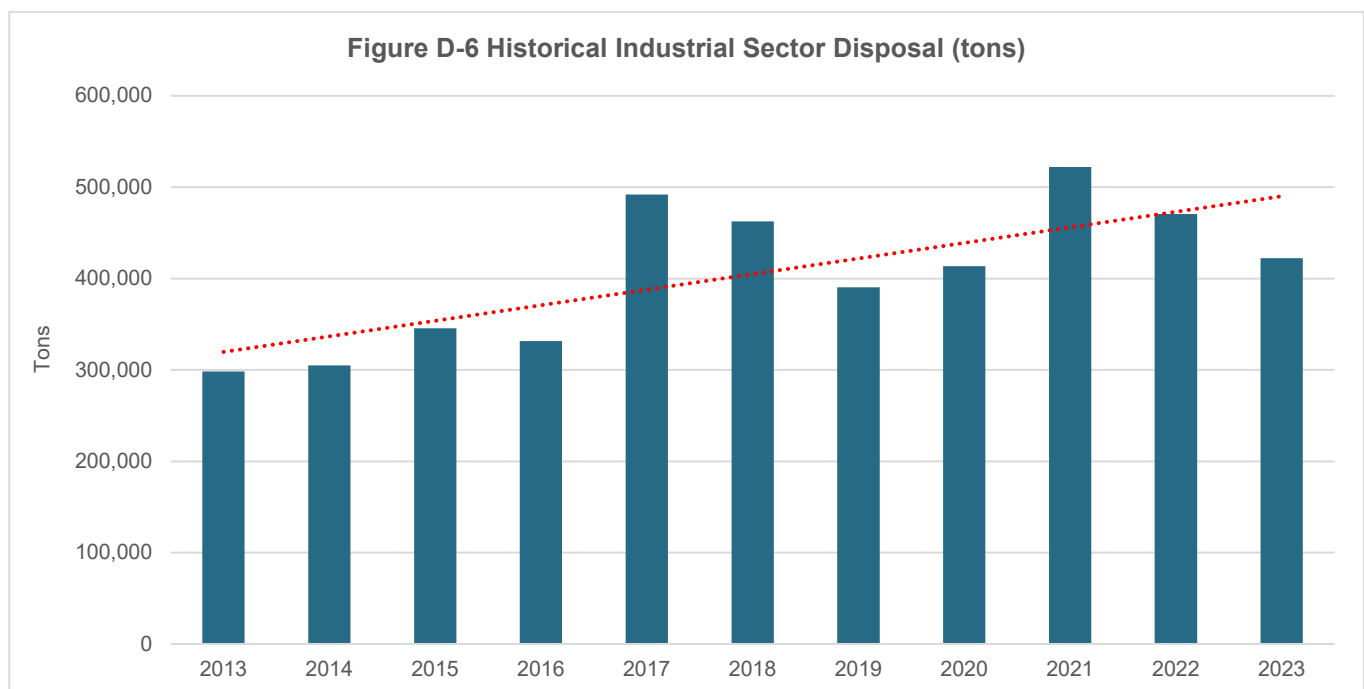
Over the last 10 years, residential/commercial waste disposal followed a gradual increasing trend, despite some fluctuations, as shown in **Figure D-4** (below), despite the population fluctuating. While population levels vary, waste disposal continues to rise, leading to an increasing annual per capita disposal rate.



Source(s): OEPA Disposal, Recycling, and Generation Report 2023

Figure D-5 compares the District's residential/ commercial disposal rate to other Districts with similar sized populations. The District has the second lowest disposal rate, behind Summit-Akron, despite having the highest population. Households in the District are disposing of approximately 5.01 pounds per person per day.

2. Industrial Sector Disposal



Source(s): OEPA Disposal, Recycling, and Generation Report 2013-2023.

Industrial waste historically accounts for roughly 44% on average of the total waste disposed of. Despite strong variation in recent years, the District has seen an increasing trend over the past 10 years. The District peaked at approximately 522,000 tons of industrial waste in 2021.

3. Excluded Waste Disposal

Per Ohio EPA Format 4.2, excluded waste will not be accounted for in this plan update as it comprises less than 10% of waste disposed.

C. Disposal Projections

There are several methods that can be used for projecting waste disposal through the planning period, such as taking into account historical per capita, historical averages, and historical trends. After conducting the historical analysis and considering factors that could change historical disposal trends, waste disposal for the planning period is projected in **Table D-6**.

Table D-6 Waste Disposal Projections

Year	Residential/ Commercial Solid Waste (tons)	Industrial Solid Waste (tons)	Excluded Waste (tons)	Total Waste (tons)	Waste Transferred (tons)	Waste Transferred (percent)
						27%
2023	533,468	422,220	0	955,688	255,202	
2024	538,895	434,929	0	973,825	260,045	
2025	544,378	448,021	0	992,399	265,005	
2026	549,917	461,506	0	1,011,423	270,085	
2027	555,512	475,397	0	1,030,909	275,289	
2028	561,163	489,707	0	1,050,870	280,619	
2029	566,873	504,447	0	1,071,320	286,080	
2030	572,640	519,631	0	1,092,271	291,675	
2031	578,466	535,272	0	1,113,738	297,407	
2032	584,352	551,384	0	1,135,735	303,281	
2033	590,297	567,980	0	1,158,277	309,301	
2034	590,297	567,980	0	1,158,277	309,301	
2035	590,297	567,980	0	1,158,277	309,301	
2036	590,297	567,980	0	1,158,277	309,301	

Source(s):

2023 Ohio EPAADR Review Form

1. Residential / Commercial Waste Projections

For the reference year and the nine years prior, residential/commercial disposal fluctuated but increased from 472,815 tons to 533,468 tons. This is a 1.14% increase annually on average. From 2019 to 2023 the disposal tonnages showed yearly variability but overall increased roughly 1.02% annually. The District used the 5-year historical average increase to project. Projections flatline after the 7th year of the planning period in 2033.

Sample Calculation 2027:

2027 Disposal = (2026 disposal * annual growth rate) + 2026 disposal

555,512 = (549,917 * 0.0102) + 549,917

2. Industrial Waste Projections

The total percentage change from 2019 through 2023 for the industrial sector was 3%. Industrial waste disposal averaged roughly 444,000 tons over these five years. Annualizing this number yields an average annual increase of 3%. This rate was used to project industrial disposal numbers until projections flatline in 2033.

Sample Calculation 2026:

2027 Disposal = (2026 disposal * annual growth rate) + 2026 disposal

475,397 = (461,506 * 0.0301) + 461,506

3. Excluded Waste Projections

Per Ohio EPA Format 4.2, excluded waste will not be accounted for going forward in this plan update as it comprises less than 10% of waste disposed.

APPENDIX E

RESIDENTIAL/COMMERCIAL REDUCTION AND RECYCLING DATA

Appendix E. Residential/Commercial Recovery Data

This appendix presents the reduction and recycling data for the residential and commercial sectors in the 2023 reference year. To avoid double-counting tonnages, adjustments were made to tonnages reported by different types of entities, such as programs, brokers, and scrap yards. A material is “double counted” if the quantities from both respondents are calculated in the total recovery. A historic analysis of the residential/commercial sector’s recycling is included in this Appendix. Information in this section as well as information from other sources was used to calculate the recycling projections from 2024 to 2036 which are included at the end of this Appendix.

A. Reference Year Recovery Data

Table E-1 Commercial Survey Results

NAICS	Appliances/ "White Goods"	Electronics	Lead-Acid Batteries	Food	Glass	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Textiles	Wood	Rubber	Commingled Recyclables	Yard Waste	Tires	Other	Total
44	84	45	21	20	18	110	5,953	2,185	652	25	3,523	1,005	625	939	2	4,097	22	19,326
72									0.8									1
81	31		40			917	9											997
Other				218		1	18	6,348	26	228		761		378	454		112	8,545
Unadj. Total	115	45	61	238	18	1,028	5,980	8,533	679	254	3,523	1,766	625	1,317	456	4,097	134	28,869
Adj.															456	4,097		4,553
Adj. Total	115	45	61	238	18	1,028	5,980	8,533	679	254	3,523	1,766	625	1,317	0	0	134	24,316

Sample Calculation:

Unadjusted Total – Adjustments = Total

28,869 – 4,553 = 24,316

NAICS stands for The North American Industry Classification System and is used by the United States, Canada, and Mexico to classify businesses by industry.

Source(s) of Information: Calendar year 2023 survey data as reported by commercial businesses.

Note: Numbers are rounded to the nearest whole number.

Table E-1 is reserved for commercial data obtained from District survey efforts. The District conducted a recycling survey to capture 2023 diversion data for the commercial sector. In the reference year, adjustments were made to eliminate double counting from two respondents and the Ohio EPA reports. Double counting occurs when the same material is reported by more than one survey respondent, typically both the generator of the material and the processor that receives the material from the generator.

Table E-2 Data from Other Recycling Facilities

Source of Materials	Appliances/ "White Goods"	Electronics	Lead-Acid Batteries	Glass	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Commingle Recyclables	Yard Waste	Total
Buybacks												
None												
Brokers												
BR1		5					30	353				388
Processors												
PR1				3			1,611	11,369				12,983
PR2		0.9				0.02	113	472	0.1	269		855
PR3							8,945					8,945
PR4			7			156		35				199
MRFs												
MR1							50					50
MR2							1					1
MR3							3	56				60
MR4							98			10,718		10,815
Unadjusted Total		6	7	3		156	10,851	12,286	0	10,971		34,296
Adjustments												
Adjusted Total		6	7	3		156	10,851	12,286	0	10,971		34,296

Source(s) of Information: 2023 Ohio EPA Material Recovery Facility and Commercial Recycling Data.

Note: Numbers greater than 1 are rounded to the nearest whole number.

Sample Calculation:

Unadjusted Total – Adjustments = Total

34,296 – 0 = 34,296

Quantities reported in **Table E-2** were obtained from buyback surveys and Ohio EPA's Material Recovery Facility (MRF) and Commercial Recycling Data report on processors. Processors, buybacks, and MRFs capture the recyclables and process them in preparation for recycling. No adjustments were needed to subtract for double counting of recyclable materials.

Table E-3 Data Reported to Ohio EPA by Commercial Businesses

Ohio EPA Data Source	Plastic	Cardboard	All Other Paper	Ferrous	Wood	Commingled Recyclables	Other	Total
Advance Auto Parts	1	18		2	7		296	325
Aldi	13	1,417						1,431
AutoZone	1	61		89	76		671	898
Buehler's	38	990	7	0		0		1,035
CVS		89				15		104
Kohls	29	271					1	301
Meijer	83	428		18		1		530
Target	16	455	1	10		8		489
Walmart	131	6,327	9	0			363	6,830
Unadjusted Total	314	10,055	17	119	83	24	1,331	11,943
Adjustments								
Adjusted Total	314	10,055	17	119	83	24	1,331	11,943

Source(s) of Information: 2023 Ohio EPA Material Recovery Facility and Commercial Recycling Data

Note: Numbers greater than 1 are rounded to the nearest whole number.

Sample Calculation:

Unadjusted Total – Adjustments = Total

11,943 – 0 = 11,943

Quantities reported in **Table E-3** were obtained from Ohio EPA MRF and Commercial Recycling Data reports. Ohio EPA reported a total of 11,943 tons of material diverted from commercial businesses in Stark, Tuscarawas, and Wayne Counties. No adjustments were needed to subtract for double counting of recyclable materials.

Table E-4 Other Recycling Programs / Other Sources of Data

Other Programs	HHW	Electronics	Scrap Tires	Food	Glass	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Commingled Recyclables	Yard Waste	Total
Curbside											9,876		9,876
Drop-Off						47	47		13		8,329		8,436
School Recycling									162		478		640
Government Recycling					0.1	0.3	0.3	4	5	0.5	131		141
Misc. Collections	45	9			0.1	0.1	69		6	0.2	6		136
Composting (Wayne Co.)				913								7,443	8,356
Food Waste Hauler Data				635									635
Pharmaceutical Take-Back	6												6

Other Programs	HHW	Electronics	Scrap Tires	Food	Glass	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Commingled Recyclables	Yard Waste	Total
Ohio EPA Scrap Tire Report			14,148										14,148
Ohio EPA Compost Report				172								70,617	70,789
Scrap Tire Program			436										436
Unadjusted Total	51	9	14,584	1,720	0	47	116	4	186	1	18,821	78,060	113,599
Adjustments			436									7,443	7,879
Adjusted Total	51	9	14,148	1,720	0	47	116	4	186	1	18,821	70,617	105,720

Source(s) of Information: 2023 Ohio EPA Scrap Tire Report, 2022 Ohio EPA Compost Report, Internal District Data

Note: Numbers greater than 1 are rounded to the nearest whole number.

HHW = Household Hazardous Waste

Sample Calculation:

Unadjusted Total – Adjustments = Total

113,599 – 7,879 = 105,720

Table E-4 presents the quantities diverted through programs and services during the reference year, including all residential/commercial efforts contributing to total diversion. To prevent double counting, adjustments were made for materials also reported by Ohio EPA. Specifically, scrap tires collected through District-sponsored events were adjusted as they are already reflected in Ohio EPA's Scrap Tire data. Additionally, yard waste from the District's composting program was adjusted to account for its inclusion in the Ohio EPA Compost Report. These adjustments ensure that materials recovered through District programs are accurately represented in this appendix without duplication.

Table E-5 Residential/Commercial Material Recovered in Reference Year

Material	Quantity (tons)
Appliances / "White Goods"	115
Household Hazardous Waste	51
Used Motor Oil	0
Electronics	60
Scrap Tires	14,148
Dry Cell Batteries	0
Lead-Acid Batteries	68
Food	1,958
Glass	20
Ferrous Metals	1,195
Non-Ferrous Metals	6,252
Corrugated Cardboard	29,442
All Other Paper	13,169
Plastics	569
Textiles	3,523

Material	Quantity (tons)
Wood	1,849
Rubber	625
Commingled Recyclables	31,149
Yard Waste	70,617
Other (Aggregated)*	1,465
Total	176,275

Source(s) of Information: 2023 Annual District Report Calculation Spreadsheets, 2023 Ohio EPA MRF and Commercial Data Reports, 2023 Ohio EPA Scrap Tire Report, 2023 District program data, 2023 Ohio EPA Compost Report, 2023 Annual District Report (ADR).

Note: All numbers are rounded to the nearest whole number.

*Other materials include ink and Ohio EPA's other.

The District diverted 176,275 tons from the residential/commercial sector. **Table E-5** presents the quantities of each material diverted. A majority of the District's diverted waste is yard waste (40%), commingled recyclables (18%) and corrugated cardboard (17%).

Table E-6 Quantities Recovered by Program/Source

Program / Source of R/C Recycling Data	Quantities (Tons)
Commercial Survey	24,316
Data from Other Recycling Facilities	34,296
Ohio EPA Commercial Businesses	11,943
Curbside	9,876
Drop-Off	8,436
School Recycling	640
Government Recycling	141
Misc. Collections	136
Composting	8,356
Food Waste Hauler Data	635
Pharmaceutical Take-Back	6
Ohio EPA Scrap Tire Report	13,712
Ohio EPA Compost Report	63,346
Scrap Tire Program	436
Total	176,275

Source(s) of Information: Tables E-1 E-2, E-3, and E-4.

Table E-6 reports tonnages diverted for each program/source in the reference year using information from **Tables E-1 to E-4** above. **Figure E-1** below displays this information by the percentage of recovered materials from the programs detailed.

B. Historical Recovery

In the reference year, the three largest sources of recycling data for the District are Ohio EPA's compost report, "Other Recycling Facilities" (scrap yards, brokers, and processors), and commercial surveys, accounting for 69% of all recycling data reported. The remaining recycling information comes from District programs and Ohio EPA's reports.

Figure E-1 Recycling by Source

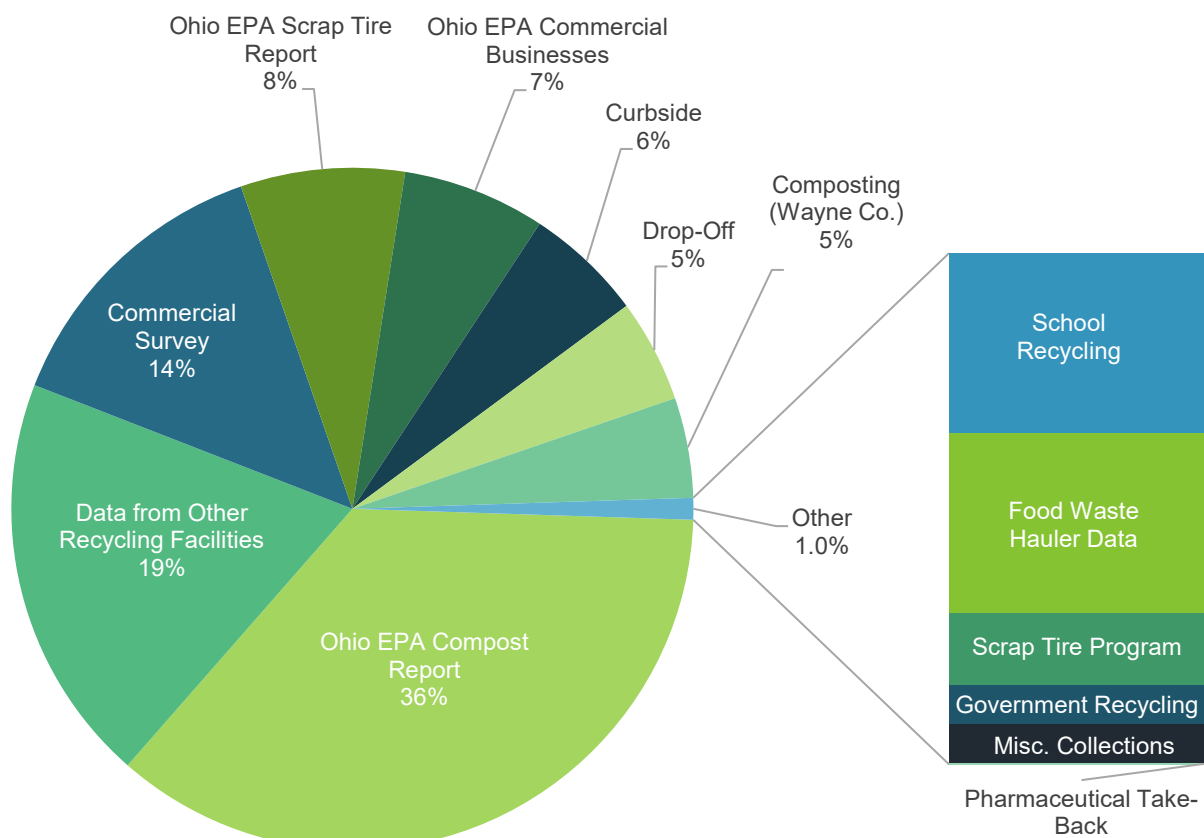


Table E-7 Historical Residential/Commercial Recovery by Program/Source

Year	Commercial Survey	Data from Other Recycling Facilities	Ohio EPA Commercial Businesses	Curbside	Drop-Off	School Recycling	Government Recycling	Misc. Collections	Composting	Food Waste Hauler Data	Pharmaceutical Take-Back	Ohio EPA Scrap Tire Report	Ohio EPA Compost Report	Scrap Tire Program	Total
2019	21,624	68,896	13,718	11,204	11,616	841	126	105	3,102	945	6	12,274	71,527	354	216,339
2020	24,041	58,209	16,441	11,517	9,893	730	109	56	11,809	1,700	5	11,120	55,014	488	201,132
2021	15,599	41,360	13,751	11,167	8,972	671	125	78	6,952	1,305	6	10,638	43,968	378	154,969
2022	21,540	26,679	15,684	10,068	8,858	403	106	78	6,952	1,008	6	12,158	41,537	378	145,454
2023	24,316	34,296	11,943	9,876	8,436	640	141	136	8,356	635	6	13,712	63,346	436	176,275

Table E-7a1 Annual Percent Change in Tons Recovered

2019															
2020	11%	-16%	20%	3%	-15%	-13%	-14%	-46%	281%	80%	-27%	-9%	-23%	38%	-7%
2021	-35%	-29%	-16%	-3%	-9%	-8%	15%	38%	-41%	-23%	23%	-4%	-20%	-23%	-23%
2022	38%	-35%	14%	-10%	-1%	-40%	-16%	0%	0%	-23%	0%	14%	-6%	0%	-6%
2023	13%	29%	-24%	-2%	-5%	59%	33%	75%	20%	-37%	7%	13%	53%	16%	21%

Table E-7a2 Average Percentage Change in Tons Recovered

	7%	-13%	-2%	-3%	-8%	4%	5%	17%	65%	-1%	1%	3%	1%	8%	-4%
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Table E-7a3 Annual Change in Tons Recovered

2019															
2020	2,416	-10,686	2,724	313	-1,724	-111	-18	-48	8,707	755	-2	-1,154	-16,513	134	-15,207
2021	-8,441	-16,849	-2,691	-349	-921	-59	17	21	-4,858	-395	1	-482	-11,047	-111	-46,163
2022	5,941	-14,681	1,933	-1,100	-114	-268	-20	0	0	-296	0	1,520	-2,430	0	-9,515
2023	2,775	7,617	-3,741	-192	-422	238	35	58	1,404	-374	0	1,554	21,808	59	30,821

Table E-7a4 Annual Per Capita Recovery Rate (pounds/person/day)

2019	0.20	0.65	0.13	0.11	0.11	0.01	0.00	0.00	0.03	0.01	0.00	0.12	0.67	0.00	2.03
2020	0.23	0.55	0.16	0.11	0.09	0.01	0.00	0.00	0.11	0.02	0.00	0.10	0.52	0.00	1.90
2021	0.15	0.39	0.13	0.10	0.08	0.01	0.00	0.00	0.07	0.01	0.00	0.10	0.41	0.00	1.46
2022	0.20	0.25	0.15	0.09	0.08	0.00	0.00	0.00	0.07	0.01	0.00	0.11	0.39	0.00	1.37
2023	0.23	0.32	0.11	0.09	0.08	0.01	0.00	0.00	0.08	0.01	0.00	0.13	0.59	0.00	1.66

Table E-7a5 Average Per Capita Recovery Rate

	0.20	0.43	0.13	0.10	0.09	0.01	0.00	0.00	0.07	0.01	0.00	0.11	0.52	0.00	1.68
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Table E-7a6 Average Tons of Material Recovered

	21,424	45,888	14,307	10,766	9,555	657	121	90	7,434	1,119	6	11,980	55,078	407	178,834
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Sources:

2019, 2020, 2021, 2022, and 2023 Annual District Reports.

Commercial Survey from District survey efforts

Data from other recycling facilities from Ohio EPA MRF report

Ohio EPA commercial retail data from Ohio EPA MRF report

Yard Waste composted from Annual District Report

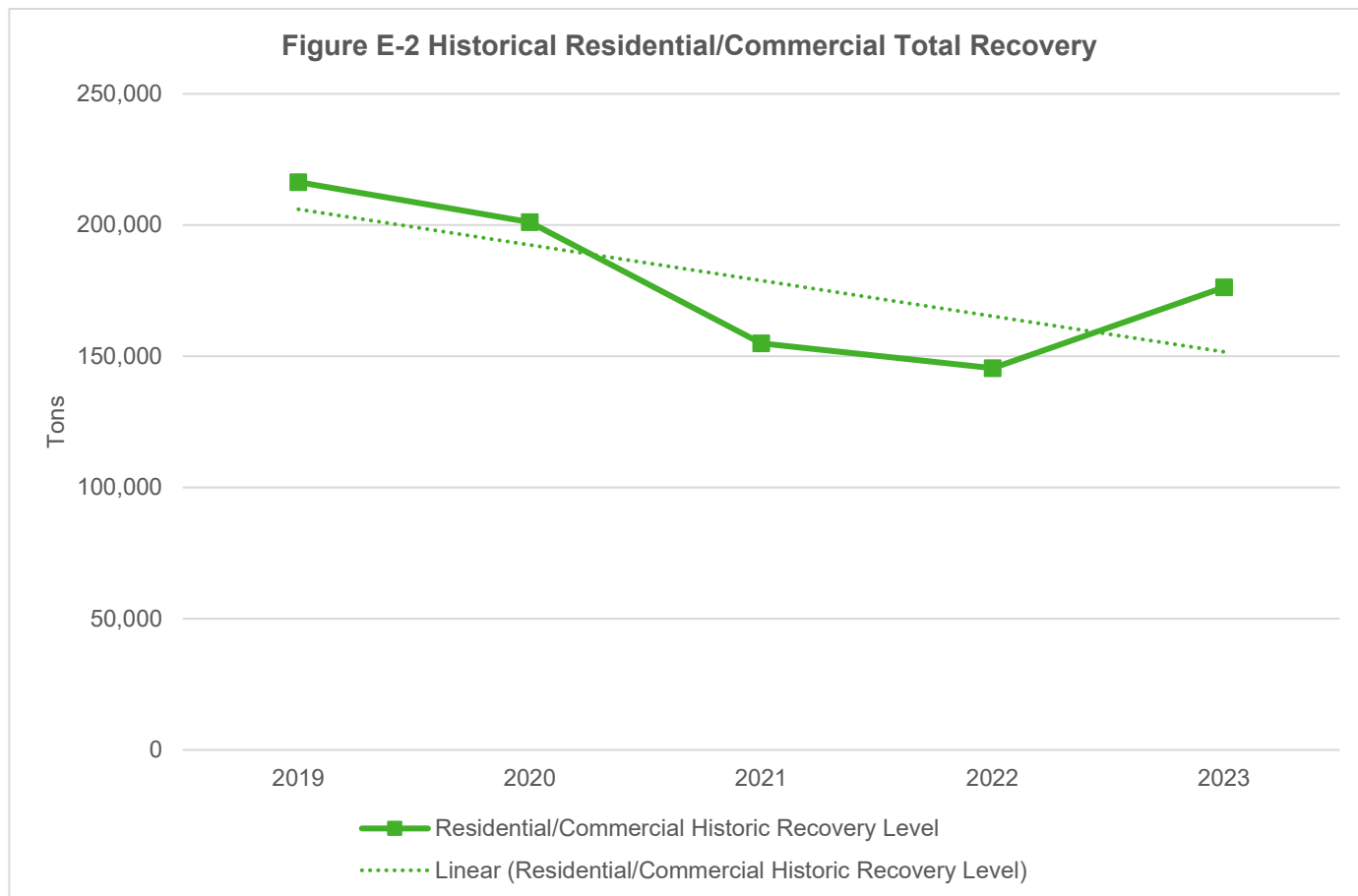
Food waste hauled reported from Annual District Report

Ohio EPA scrap tire data from Ohio EPA reports

Specific program data from historical Annual District Reports

Tables E-7 through **E-7a6** show historical recycling data collected from the District. The challenge with analyzing programmatic data such as above is that each year there may be differences in how the data is recorded. These differences can result in fluctuations between recording years and can present challenges for data analysis.

As seen in the tables above, the five-year average tons of material recovered was roughly 178,834 tons with a decreasing average percent change of 4%. Analyzing on a year-to-year basis, the recovery tonnages demonstrate annual swings. Diversion ranged from roughly 145,000 to 216,000 tons. These fluctuations are driven by a few programs.



From 2019 to 2022, total residential/commercial recovery declined by over 70,000 tons, decreasing from 216,339 tons in 2019 to 145,454 tons in 2022. This decline was influenced by multiple factors, including the COVID-19 pandemic, which disrupted operations and waste generation patterns across many sectors. Additionally, business closures, reduced response rates to the District's commercial survey, and fewer businesses being captured in Ohio EPA's reports contributed to the lower reported recovery. In 2023, total recovery rebounded to 176,275 tons—a roughly 31,000-ton increase from the previous year. Total residential/commercial recovery increasing roughly 31,000-ton in 2023 was driven mainly by the Ohio EPA compost report data which resulted in almost a 22,000-ton increase from the year prior. Other contributors include the District's surveying efforts which include the commercial survey data and the data from other recycling facilities which combined, showed an increase almost 10,000 tons.

C. Residential/Commercial Recovery Projections

Table E-8 Residential/Commercial Recovery Projections by Source

Year	Commercial Survey	Data from Other Recycling Facilities	Ohio EPA Commercial Businesses	Curbside	Drop-Off	School Recycling	Government Recycling	Misc. Collections	Composting	Food Waste Hauler Data	Pharmaceutical Take-Back	Ohio EPA Scrap Tire Report	Ohio EPA Compost Report	Scrap Tire Program	Total
2023	24,316	34,296	11,943	9,876	8,436	640	141	136	8,356	635	6	13,712	63,346	436	176,275
2024	24,210	34,147	11,943	10,747	9,537	664	147	136	7,426	635	6	13,712	63,346	407	177,063
2025	24,105	33,999	11,943	10,700	9,495	688	154	136	7,394	635	6	13,712	63,346	407	176,720
2026	24,000	33,851	11,943	10,653	9,454	714	161	136	7,362	635	6	13,712	63,346	407	176,380
2027	23,896	33,704	11,943	10,607	9,413	740	169	136	7,330	635	6	13,712	63,346	407	176,043
2028	23,792	33,557	11,943	10,561	9,372	767	177	136	7,298	635	6	13,712	63,346	407	175,709
2029	23,688	33,412	11,943	10,515	9,331	795	185	136	7,266	635	6	13,712	63,346	407	175,379
2030	23,586	33,267	11,943	10,469	9,291	824	194	136	7,235	635	6	13,712	63,346	407	175,051
2031	23,483	33,122	11,943	10,424	9,251	855	203	136	7,203	635	7	13,712	63,346	407	174,726
2032	23,381	32,978	11,943	10,379	9,210	886	213	136	7,172	635	7	13,712	63,346	407	174,405
2033	23,280	32,835	11,943	10,334	9,170	919	223	136	7,141	635	7	13,712	63,346	407	174,087
2034	23,280	32,835	11,943	10,334	9,170	919	223	136	7,141	635	7	13,712	63,346	407	174,087
2035	23,280	32,835	11,943	10,334	9,170	919	223	136	7,141	635	7	13,712	63,346	407	174,087
2036	23,280	32,835	11,943	10,334	9,170	919	223	136	7,141	635	7	13,712	63,346	407	174,087

Commercial Survey Projections:

The 2023 annual per capita recovery rate was applied to calculate projections from 2023 through 2032. The annual per capita recovery rate was 0.23 pounds per person per day in the reference year.

Sample Calculation 2027: 0.23 pounds per person recovery * 573,452 / 2000 * 365 = 23,896 tons

Data from Other Recycling Facilities Projections:

The 2023 annual per capita recovery rate was applied to calculate projections from 2023 through 2032. The annual per capita recovery rate was 0.32 pounds per person per day in the reference year.

Sample Calculation 2027: 0.32 pounds per person recovery * 573,452 / 2000 * 365 = 33,704 tons

Ohio EPA Commercial Retail Data Projections:

These projections were held constant throughout the planning period as this data is independently acquired by the Ohio EPA and is out of the District's control.

Curbside Projections:

The 5-year average per capita recovery rate was applied to calculate projections from 2024 through 2033. The average annual per capita recovery rate was 0.10 pounds per person per day.

Sample Calculation 2027: 0.10 pounds per person recovery * 573,452 / 2000 * 365 = 10,607 tons

Drop-off Projections:

The 5-year average per capita recovery rate was applied to calculate projections from 2024 through 2033. The average annual per capita recovery rate was 0.09 pounds per person per day.

Sample Calculation 2027: 0.09 pounds per person recovery * 573,452 / 2000 * 365 = 9,413 tons

School Recycling Projections:

The 5-year average percent change in tons was applied to calculate projections from 2024 through 2033. The average percent change rate was 3.7 percent from 2019 to 2023. The average percent change is used because it reflects the rising trend documented.

Sample Calculation 2027: 714 tons (2026) * 0.037 + 714 tons (2026) = 740 tons

Government Recycling Projections:

The 5-year average percent change in tons was applied to calculate projections from 2024 through 2033. The average percent change rate was 4.7 percent from 2019 to 2023. The average percent change is used because it reflects the rising trend documented.

Sample Calculation 2027: 161 tons (2026) * 0.047 + 161 tons (2026) = 169 tons

Misc. Collections Projections:

These projections are held at the reference year value. There was not enough historical data to project and the program is continuing.

Composting Projections:

The 2023 annual per capita recovery rate was applied to calculate projections from 2024 through 2033. The 2023 annual per capita recovery rate was 0.07 pounds per person per day.

Sample Calculation 2027: 0.07 pounds per person recovery * 573,452 / 2000 * 365 = 7,330 tons

Food Waste Hauler Data Projections:

These projections were held constant throughout the planning period as this data is independently acquired by the Ohio EPA and is out of the District's control.

Pharmaceutical Take-Back Projections:

The 5-year average percent change in tons was applied to calculate projections from 2024 through 2033. The average percent change rate was 0.9 percent from 2019 to 2023. The average percent change is used because it reflects the rising trend documented.

Sample Calculation 2027: 6.3 tons (2026) * 0.009 + 6.3 tons (2026) = 6 tons

Ohio EPA Scrap Tire Report Projections:

These projections were held constant throughout the planning period as this data is independently acquired by the Ohio EPA and is out of the District's control.

Ohio EPA Compost Report Projections:

These projections were held constant throughout the planning period as this data is independently acquired by the Ohio EPA and is out of the District's control.

Scrap Tire Program Projections:

These projections are held at the 5-year average tons of materials recovered. The average recovery was 407 tons from 2019 to 2023.

APPENDIX F

INDUSTRIAL REDUCTION AND RECYCLING DATA

Appendix F. Industrial Recovery Data

Appendix F contains an inventory of materials recovered from the industrial sector in the reference year, adjusts quantities for double counting, calculates total adjusted quantities of material recovered, analyzes historical quantities recovered and projects quantities to be recovered.

A. Reference Year Recovery Data

Tables F-1 through **F-4** account for all material being credited to the waste reduction and recycling rate for the industrial sector.

Table F-1 Industrial Survey Results

NAICS	Food	Glass	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Wood	Commingled Recyclables	Total
31 - 33	6,677	2	457,652	53	238,149	298	2,844	5,844	520	712,039
Unadjusted Total	6,677	2	457,652	53	238,149	298	2,844	5,844	520	712,039
Adjustments										
Adjusted Total	6,677	2	457,652	53	238,149	298	2,844	5,844	520	712,039

NAICS stands for The North American Industry Classification System and is used by the United States, Canada, and Mexico to classify businesses by industry.

Source(s) of Information: Calendar year 2023 survey data as reported by industrial businesses.

Note: Numbers are rounded to the nearest whole number.

Sample Calculation:

Unadjusted Total – Adjustments = Total

712,039 – 0 = 712,039

Table F-1 accounts for material recovered as reported by industrial businesses from the 2023 surveys. In some cases, businesses chose not to respond to the reference year but did respond to a prior year's survey. In these cases, the analysis used data from up to two previous years. There were no adjustments to subtract for double counting to the 2023 industrial survey.

Table F-2 Data from Other Recycling Facilities

Program and/ or Source of Materials/ Data	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Textiles	Wood	Rubber	Commingle Recyclables	Total
Buybacks										
None										
Brokers										
BR1	13,367	6,467							6,748	26,582
BR2	3,437	473								3,910
Processors										
PR1	419		4,921		433					5,773
PR2			1							1
PR3	11		3,003	66	601					3,680
MRFs										
None										
Unadjusted Total	17,234	6,940	7,924	66	1,034	0	0	0	6,748	39,946
Adjustments										
Adjusted Total	17,234	6,940	7,924	66	1,034	0	0	0	6,748	39,946

Source(s) of Information: Calendar year 2023 survey data as reported by industrial businesses.

Ohio EPA Material Recovery Facility and Commercial Recycling Data 2023 report.

Note: Numbers are rounded to the nearest whole number.

Sample Calculation:

Unadjusted Total – Adjustments = Total

39,946 – 0 = 39,946

Table F-2 data is obtained from the district's processor and buyback surveys and Ohio EPA's MRF and Commercial Recycling Data reports on processors/MRFs, scrap yards, and brokers. There was one scrap yard that reported diverting 39,946 tons of material. The District checked the reported ferrous tonnage with the reporting entity in 2023 and confirmed the tonnage did not include C&DD debris or end-of-life auto metals that are excluded from the industrial recovery calculation.

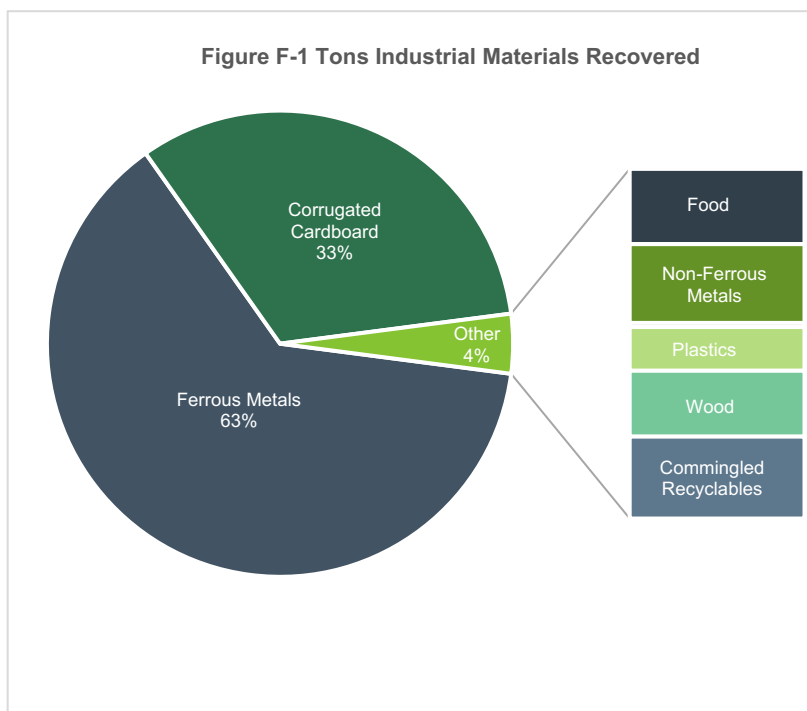
Table F-3 Other Recycling Programs/Other Sources of Data

Other Recycling Programs/Other Sources of Data	Food	Glass	Ferrous Metals	Non-Ferrous Metals	Corrugated Cardboard	All Other Paper	Plastics	Textiles	Wood	Rubber	Commingle Recyclables	Total
None												

There was no data reported for other sources of recycling.

Table F-4 Industrial Waste Reduced/Recycled in Reference Year

Material	Quantity (tons)
Food	6,677
Glass	2
Ferrous Metals	474,886
Non-Ferrous Metals	6,993
Corrugated Cardboard	246,074
All Other Paper	364
Plastics	3,878
Textiles	0
Wood	5,844
Rubber	0
Commingled Recyclables (Mixed)	7,268
Ash	0
Non-Excluded Foundry Sand	0
Flue Gas Desulfurization	0
Other (Aggregated)	0
Total	751,984



Source(s) of Information: 2023 Annual District Report Calculation Spreadsheets, 2023 Ohio EPA MRF and Commercial Data Reports, 2023 Ohio EPA Compost Report, 2023 ADR Review Forms

Note(s): Numbers are rounded to the nearest whole number. Figure F-1 does not include glass, and all other paper as these materials had values that made up less than 1% of the stream.

Table F-4 records quantities for each material diverted in the District as reported by the industrial waste survey. There was a total of 751,984 tons of waste diverted from the industrial sector. A majority of the industrial waste diverted was from ferrous metals, accounting for 63%, while all corrugated cardboard was another large portion of waste diverted, accounting for 33%.

Table F-5 Quantities Recovered by Program/Source

Program/ Source of Industrial Recycling Data	Quantity (tons)
Industrial survey	712,039
Data from other recycling facilities	39,946
Total	751,984

Source(s) of Information: Tables F-1 and F-2

B. Historical Recovery**Table F-6 Historical and Industrial Recovery by Program/ Source**

Year	Industrial survey	Data from other recycling facilities	Totals
2019	749,049	67,145	816,194
2020	927,514	77,118	1,004,633
2021	740,109	98,321	838,431
2022	700,372	59,498	759,870
2023	712,039	39,946	751,984

Table F-6a1 Annual Percentage Change in Tons Recovered

2019	N/A	N/A	N/A
2020	24%	15%	23%
2021	-20%	27%	-17%
2022	-5%	-39%	-9%
2023	2%	-33%	-1%

Table F-6a2 Average Annual Percentage Change in Tons Recovered

-0.02%	-8%	-1%
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Table F-6a3 Annual Change in Tons Recovered

2019	N/A	N/A	N/A
2020	178,465	9,974	188,439
2021	-187,405	21,203	-166,202
2022	-39,738	-38,823	-78,561
2023	11,667	-19,553	-7,886

Table F-6a4 Average Annual Change in Tons Recovered

-9,253	-6,800	-16,052
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Table F-6a5 Average Tons of Material Recovered

765,817	68,406	834,222
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Source(s):

District Industrial Surveys for 2019 – 2023

"Material Recovery Facility and Commercial Recycling Data" for 2019 – 2023

As seen from **Table F-6**, overall industrial recovery, combining surveys and other facilities, fell by about 1% per year, while survey-reported tonnage held roughly flat.

C. Industrial Recovery Projections

Table F-7 Industrial Recovery Projections

Year	Industrial Survey	Data From Other Recycling Facilities	Total
2023	712,039	39,946	751,984
2024	708,265	39,946	748,211
2025	704,511	39,946	744,457
2026	700,777	39,946	740,723
2027	697,063	39,946	737,009
2028	693,369	39,946	733,314
2029	693,369	39,946	733,314
2030	693,369	39,946	733,314
2031	693,369	39,946	733,314
2032	693,369	39,946	733,314
2033	693,369	39,946	733,314
2034	693,369	39,946	733,314
2035	693,369	39,946	733,314
2036	693,369	39,946	733,314

Industrial Survey Projections

The Ohio Department of Development estimates that the region will experience an average 5.3% decline in manufacturing through 2028. The District estimates that a decline in manufacturing will also result in a decline of industrial recovery by a corresponding decrease of 0.53% annually until 2028. Tonnages after 2028 are flatlined as reflected in the above table.

Data From Other Recycling Facilities

The projections for the data from other recycling facilities were held at the 2023 tonnage reports from 2024 through the end of the planning period.

APPENDIX G

WASTE GENERATION

Appendix G. Waste Generation

A. Historical Waste Generated

Table G-1 Reference Year and Historical Waste Generated

Year	Population	Residential/ Commercial				Industrial			Total (tons)
		Disposed (tons)	Recycled (tons)	Generated (tons)	Per Capita Generated (ppd)	Disposed (tons)	Recycled (tons)	Generated (tons)	
2019	583,531	513,169	216,339	729,508	6.85	390,443	816,194	1,206,637	1,936,145
2020	579,231	524,468	201,132	725,600	6.86	413,478	1,004,633	1,418,111	2,143,710
2021	583,044	540,307	154,969	695,276	6.53	522,283	838,431	1,360,714	2,055,989
2022	581,153	518,718	145,454	664,172	6.26	470,632	759,870	1,230,502	1,894,674
2023	583,531	533,468	176,275	709,742	6.66	422,220	751,984	1,174,205	1,883,947

Source(s) of Information:

Disposal Data from Appendix D

Recycle Data from Appendices E and F

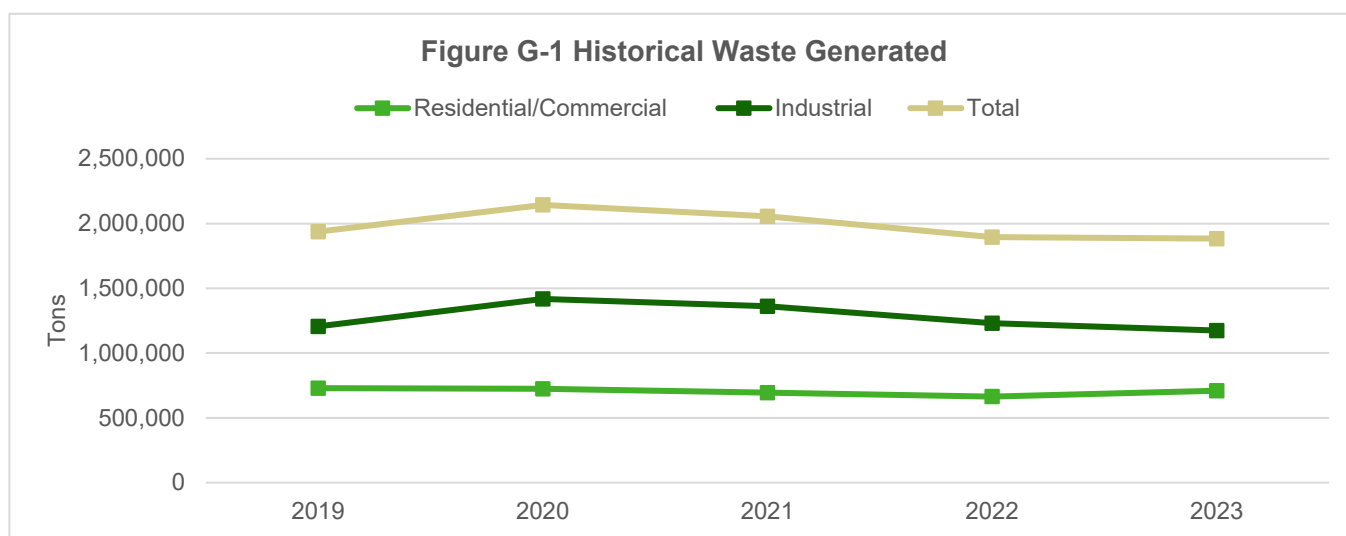
Populations: 2019-2023 ADRs

Sample Calculations:

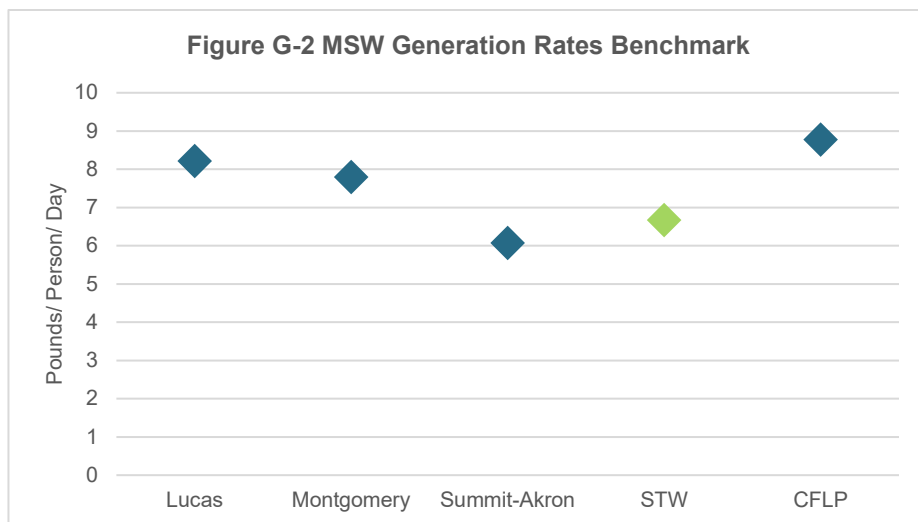
Waste generation = disposed + recycled = generated

Per Capita Generation (calculated for the R/C sector only) = ((generated * 2,000) / 365) / population

Waste generation is calculated by adding the quantities of waste disposed from Appendix D and the quantities recycled from Appendices E and F. Tonnages resulting from disposal and recycling, as presented in **Table G-1**, represent the total waste generation for the District.



From 2019 to 2023, waste generation showed a general decline, with total waste generation decreasing from roughly 2.10 million tons in 2020 to 1.88 million tons in 2023, as shown in the graph in **Figure G-1**. This decline was primarily driven by reductions in industrial waste, which dropped from 1,418,111 tons in 2020 to 1,174,205 tons in 2023. Residential/ commercial waste fluctuated over the same period, decreasing from 725,600 tons in 2020 to 709,742 tons in 2023.

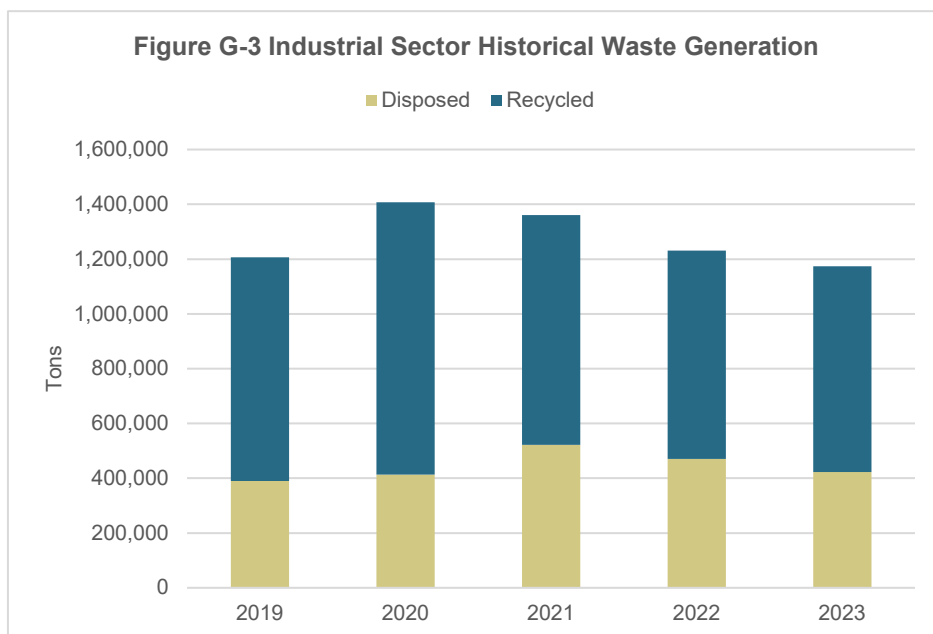


Population size is a key factor in the amount of waste generated and while calculating a district's pounds per person per day of trash generated normalizes the total waste on a per person basis, the overall size of the population impacts funding, resources, and diversion opportunities. To better gauge where the District compares to other similar sized districts, four peer districts were benchmarked.

In 2023, the District reported a residential/commercial per capita waste generation rate of 6.66 pounds per person per day (PPD). Of this total, approximately 1.66 pounds were diverted through recycling or other recovery methods, while the remaining 5 pounds were landfilled. This indicates that about 25% of the District's total waste stream is being diverted.

When compared to other solid waste management districts with similar population sizes—as illustrated in **Figure G-2**—the District's residential/commercial per capita generation rate is consistent with these peer districts. For example, Lucas County reported a significantly higher rate of 8.21 PPD, while Montgomery County, which shares a similar population size and urban-rural composition with STW, reported 7.79 PPD. CFLP (Coshocton-Fairfield-Licking-Perry) had the highest rate in this group at 8.77 PPD. In contrast, only Summit-Akron reported a lower PPD than the District, at 6.07. These comparisons show that District's waste generation is consistent with similar districts, while also demonstrating relatively strong performance in terms of waste minimization.

From 2019 to 2023, waste generated by the industrial sector in the District fluctuated, with annual totals ranging between 1.17 to 1.42 million tons. The highest amount of waste was generated in 2020, totaling 1,418,111 tons, largely driven by a spike in recycled material. This was followed by a slight decrease in 2021 to 1,360,714 tons. The downward trend continued through 2023, with total generation reaching a five-year low of 1,174,205 tons.



B. Generation Projections

Table G-2 Generation Projections

Year	Population	Residential/ Commercial				Industrial			Total (tons)
		Disposal (tons)	Recycle (tons)	Generation (tons)	Per Capita Generation (PPD)	Disposal (tons)	Recycle (tons)	Generation (tons)	
2023	583,531	533,468	176,275	709,742	6.66	422,220	751,984	1,174,205	1,883,947
2024	580,994	538,895	177,063	715,958	6.75	434,929	748,211	1,183,140	1,899,098
2025	578,468	544,378	176,720	721,098	6.83	448,021	744,457	1,192,478	1,913,575
2026	575,954	549,917	176,380	726,297	6.91	461,506	740,723	1,202,229	1,928,526
2027	573,452	555,512	176,043	731,555	6.99	475,397	737,009	1,212,406	1,943,961
2028	570,961	561,163	175,709	736,873	7.07	489,707	733,314	1,223,021	1,959,894
2029	568,481	566,873	175,379	742,251	7.15	504,447	733,314	1,237,761	1,980,013
2030	566,013	572,640	175,051	747,691	7.24	519,631	733,314	1,252,945	2,000,636
2031	563,556	578,466	174,726	753,193	7.32	535,272	733,314	1,268,586	2,021,779
2032	561,111	584,352	174,405	758,757	7.41	551,384	733,314	1,284,698	2,043,455
2033	558,676	590,297	174,087	764,384	7.50	567,980	733,314	1,301,295	2,065,678
2034	556,253	590,297	174,087	764,384	7.53	567,980	733,314	1,301,295	2,065,678
2035	553,841	590,297	174,087	764,384	7.56	567,980	733,314	1,301,295	2,065,678
2036	551,440	590,297	174,087	764,384	7.60	567,980	733,314	1,301,295	2,065,678

Source(s) of Information:

Disposal from Appendix D

Recycled from Appendices E and F

The historical and reference year data assists in forecasting waste generation. Population declined and the total waste generation followed a decreasing trend driven from industrial sector decline. The District believes the industrial waste disposal is expected to increase. Residential and commercial waste generation grows from 709,742 tons in 2023 to 764,384 tons in 2033, and industrial waste generation rises from 1,174,205 tons to 1,301,295 tons over the same period. Total waste generation rises from 1,883,947 tons in 2023 to 2,065,678 tons in 2033, with disposal waste following a similar upward trend. Per capita waste generation also increases gradually, from 6.66 pounds per day (PPD) in 2023 to 7.50 PPD in 2033, reflecting a rising trend in individual waste production despite the declining population. While the District population decreases, waste generation continues to grow, with an increasing per capita output and stable recycling rates.

C. Waste Composition

Table G-3 Composition of Residential/ Commercial Waste

Material	Percent of Generation	2023	2024	2025	2026	2027	2028	2029	2030	2031
Paper & Paperboard	23%	163,951	165,386	166,574	167,775	168,989	170,218	171,460	172,717	173,987
Glass	4%	29,809	30,070	30,286	30,504	30,725	30,949	31,175	31,403	31,634
Ferrous	7%	46,843	47,253	47,592	47,936	48,283	48,634	48,989	49,348	49,711
Aluminum	1%	9,227	9,307	9,374	9,442	9,510	9,579	9,649	9,720	9,792
Other Nonferrous	1%	6,388	6,444	6,490	6,537	6,584	6,632	6,680	6,729	6,779
Plastics	12%	86,589	87,347	87,974	88,608	89,250	89,898	90,555	91,218	91,889
Rubber & Leather	3%	22,002	22,195	22,354	22,515	22,678	22,843	23,010	23,178	23,349
Textiles	6%	41,165	41,526	41,824	42,125	42,430	42,739	43,051	43,366	43,685
Wood	6%	44,004	44,389	44,708	45,030	45,356	45,686	46,020	46,357	46,698
Other	2%	10,646	10,739	10,816	10,894	10,973	11,053	11,134	11,215	11,298
Food	22%	153,304	154,647	155,757	156,880	158,016	159,164	160,326	161,501	162,690
Yard Trimmings	12%	85,879	86,631	87,253	87,882	88,518	89,162	89,812	90,471	91,136
Misc inorganic	1%	9,936	10,023	10,095	10,168	10,242	10,316	10,392	10,468	10,545
Total		709,742	715,958	721,098	726,297	731,555	736,873	742,251	747,691	753,193

Material	2032	2033	2034	2035	2036
Paper & Paperboard	175,273	176,573	176,573	176,573	176,573
Glass	31,868	32,104	32,104	32,104	32,104
Ferrous	50,078	50,449	50,449	50,449	50,449
Aluminum	9,864	9,937	9,937	9,937	9,937
Other Nonferrous	6,829	6,879	6,879	6,879	6,879
Plastics	92,568	93,255	93,255	93,255	93,255
Rubber & Leather	23,521	23,696	23,696	23,696	23,696
Textiles	44,008	44,334	44,334	44,334	44,334
Wood	47,043	47,392	47,392	47,392	47,392
Other	11,381	11,466	11,466	11,466	11,466
Food	163,891	165,107	165,107	165,107	165,107
Yard Trimmings	91,810	92,490	92,490	92,490	92,490
Misc inorganic	10,623	10,701	10,701	10,701	10,701
Total	758,757	764,384	764,384	764,384	764,384

Source(s):

Percent of Total Generation: Advancing Sustainable Materials Management: 2018 Tables and Figures

Waste Generated: Table G-2

Table G-3 presents the residential/commercial waste generated totals from **Table G-2** and the estimated percent of total generation by material. Using the quantities of waste generated and the estimated percent of total generation, each material is projected during the planning period. The estimations above are based on a U.S. EPA National Study of waste generated from 2018. It is important to note that there are likely differences between the actual waste generation composition and the estimated composition above.

APPENDIX H

STRATEGIC ANALYSIS

Appendix H. Strategic Analysis

The main purpose of the state plan is to reduce Ohio's reliance on using solid waste landfill facilities to manage solid waste. To do this, the state plan establishes the waste reduction and recycling goals for both the State and Ohio's 52 solid waste management districts (SWMDs). The recycling and reduction goals that guide the programs provided by the District, are outlined in the state plan. The current state solid waste management plan is the 2020 Solid Waste Management Plan (2020 State Plan), which established ten goals as follows:

Goal #1

- The SWMD shall ensure that there is adequate infrastructure to give residents and commercial businesses opportunities to recycle solid waste. At a minimum, the SWMD must provide access to recycling opportunities to 80% of its residential population in each county and ensure that commercial generators have access to adequate recycling opportunities

Goal #2

- The SWMD shall reduce and recycle at least 25 percent of the solid waste generated by the residential/commercial sector.

Goal #3

- The SWMD shall provide the following required programs: a web site; a comprehensive resource guide; an inventory of available infrastructure; and a speaker or presenter.

Goal #4

- The SWMD shall provide education, outreach, marketing and technical assistance regarding reduction, recycling, composting, reuse and other alternative waste management methods to identified target audiences using best practices.

Goal #5

- The SWMD shall incorporate a strategic initiative for the industrial sector into its solid waste management plan.

Goal #6

- The SWMD shall provide strategies for managing scrap tires, yard waste, lead-acid batteries, household hazardous waste and obsolete/end-of-life electronic devices.

Goal #7

- The SWMD shall explore how to incorporate economic incentives into source reduction and recycling programs.

Goal #8

- The SWMD will use U.S. EPA's Waste Reduction Model (WARM) (or an equivalent model) to evaluate the impact of recycling programs on reducing greenhouse gas emissions.

Goal #9

- The SWMD has the option of providing programs to develop markets for recyclable materials and the use of recycled-content materials.

Goal #10

- The SWMD shall report annually to Ohio EPA regarding implementation of the SWMD's solid waste management plan.

A SWMD's solid waste management plan will provide programs to meet up to eight of the goals. Goal 9 (market development) is an optional goal. Goal 10 requires submitting annual reports to Ohio EPA, providing evidence the approved Solid Waste Plan is implemented each year.

Appendix H in earlier Format versions required a strategic process to evaluate the District's reduction and recycling efforts. Appendix H is a module designed to lead the District through and an evaluation of its programs and services in the context of factors that need to be considered when developing recycling and waste reduction programs. Completion of the Appendix H module in Format 4.2 is voluntary. However, Ohio EPA encourages the policy committee to conduct an analysis—either using the agency's recommended methodology or an alternative approach—to support a more holistic review of the District.

In this 2027 Plan, the District chose to conduct a Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis. SWOT was chosen because it offers a structured yet flexible framework that captures both internal and external pressures. A SWOT highlights what is working, where challenges exist, and what future conditions may shape program success. District staff conducted the SWOT analysis over two focused, two-hour working sessions to evaluate recycling and waste reduction programs. District programs were organized into four thematic areas, each of which underwent a separate SWOT analysis.

1	2	3	4
Education & Outreach	Grants	Collection (Common Recyclables)	Collection (Hard-to-Recycle)
› Drop-Off Map › Waste Audits › Campaign to reduce commercial use of residential yard waste drop-off sites › Commercial and Industrial Technical Assistance › Waste Audit Manual › Computer/Electronics Recycling End Use Audit › HHW Management Outreach Program › Food Waste Management Program › Yard Waste Partnership Program › Yard Waste Program Enhancement Initiative › District website › Recycling and Reuse Guide or Newsletter › Education and Awareness Program › Yard Waste Management Education and Outreach › HHW Management Education and Outreach › Special Events Initiative › Waste Reduction Report Card	› Recycling Market Grant (Ohio EPA) › Promotion and Assistance › Program Start- Up Grants (for political subdivisions) › Recycling Drop- Off Clean- Up/Host › Community Center › Pay- As- You- Throw Grants › Sheriff Department › Health Department Grants	› Curbside Recycling › Drop-off Recycling › Curbside Expansion Efforts › Curbside Re- Start Program › PAYT Promotion Efforts › Drop- Off Promotion Program › Implement Curbside Recycling for Targeted Areas › Community Assistance Program › School Recycling Program › Government Building Recycling	› Pharmaceutical Collection Sites › Permanent HHW Collection › Scrap Tire Program - Permanent Sites and Outreach Efforts › Yard Waste Collection Sites › Electronics Collection Program › Lead- Acid Battery Program › Appliance Collection Program › Expansion of HHW Collection

In each thematic area, the District identified specific strengths to build upon, weaknesses needing attention, opportunities that could expand program capacity, and threats outside of the District's control. The results highlight areas for improvement while also providing a foundation for setting goals and priorities.

RESULTS

1. Education & Outreach

Awareness alone is not sufficient to drive measurable change. Relying solely on awareness-raising campaigns assumes that the necessary infrastructure exists and that the target audience is willing, able, and motivated to overcome barriers independently. While awareness is a vital component of any education strategy, it must be supported by resources that enable informed, audience-driven, and evidence-based approaches. Unfortunately, budget constraints often limit education programs to awareness-focused tactics, leaving deeper engagement and behavior change underfunded.

Messaging – District communication is broad and multi-channel, supported by signage, newsletters, social media, and the Master Recycler program. Messaging is essential; however, messaging alone may not be enough to change or influence behavior. The District has cultivated strong brand awareness and meaningful relationships, helping to build a recognizable brand that fosters trust, loyalty, and familiarity with its services.

Format and Distribution Channels – The District's goal is to guide the audience from awareness to understanding, and ultimately to active participation. To move the audience along these points, the District could lean into modernizing outreach through technology such as SMS alerts or AI-enabled appointment scheduling at the Canton Recycling Center (CRC). Current staffing levels are considered adequate, but the engagement is uneven and outreach at drop-off sites is inconsistent. Additionally, stronger engagement with local officials and more deliberate interaction with residents at drop-off sites could reinforce the knowledge and changed behavior.

Target Audiences – District education programs cross all five target audiences identified by Ohio EPA: residents, commercial businesses and institutions, schools, industries, and communities and elected officials.

Behavior Changing – To create behavior changing education the programs must address the core drivers of human behavior: capability, opportunity, and motivation. Several of the District's programs address the key barriers to recycling: lack of knowledge, confusion, and inconvenience.

Deployment – multi-channel outreach is best practices for education outreach. Examples the District uses includes:

- Print items - the Recycling Newsletter is mailed to all households.
- Digital – the District's Facebook has 2,747 followers
- In-Person – the District delivers face to face education at drop-offs

Opportunities:

- Explore cell phone SMS alerts and AI technology for CRC scheduling.
- Strengthen engagement with elected officials.
- Increase outreach with drop-off users at drop-off sites.
- Offer incentives such as recognition programs, or discounts

2. Grants

The District has established programs that provide direct assistance to political subdivisions and community groups.

- Recycling Market Grant (Ohio EPA) – without strong markets, collected recyclables will not be manufactured into new products, thus closing the loop. The support to local manufacturers provided through this grant stimulates the demand for recycled feedstock and the local economy.
- Program Start- Up Grants (for political subdivisions) - Encourages new recycling programs at the local level. Provides financial support for infrastructure and initial implementation. Builds capacity in underserved areas.
- Recycling Drop- Off Clean- Up/Host – Improves site aesthetics and functionality, enhancing public perception. Supports community engagement and volunteer participation. Reduces contamination and operational issues at drop-off sites.
- Community Center – Provides centralized location for education and recycling services. Facilitates outreach and community engagement. Can serve as a hub for multiple programs (education, collection, events).
- Pay- As- You- Throw Grants – Proven strategy to incentivize waste reduction and recycling. Aligns with state goals for source reduction. Encourages behavioral change through economic incentives. Though, little interest in grant.
- Sheriff Department – Supports enforcement and compliance for illegal dumping waste. Enhances public health and safety through targeted programs. Benefits are limited to enforcement rather than prevention or diversion.
- Health Department Grants – Provide support to monitor landfills. Builds inter-agency collaboration. Health departments receive other funding to perform the monitoring tasks.

Figure H-1 Ohio SWMDs Law Enforcement Department Spend (2021)

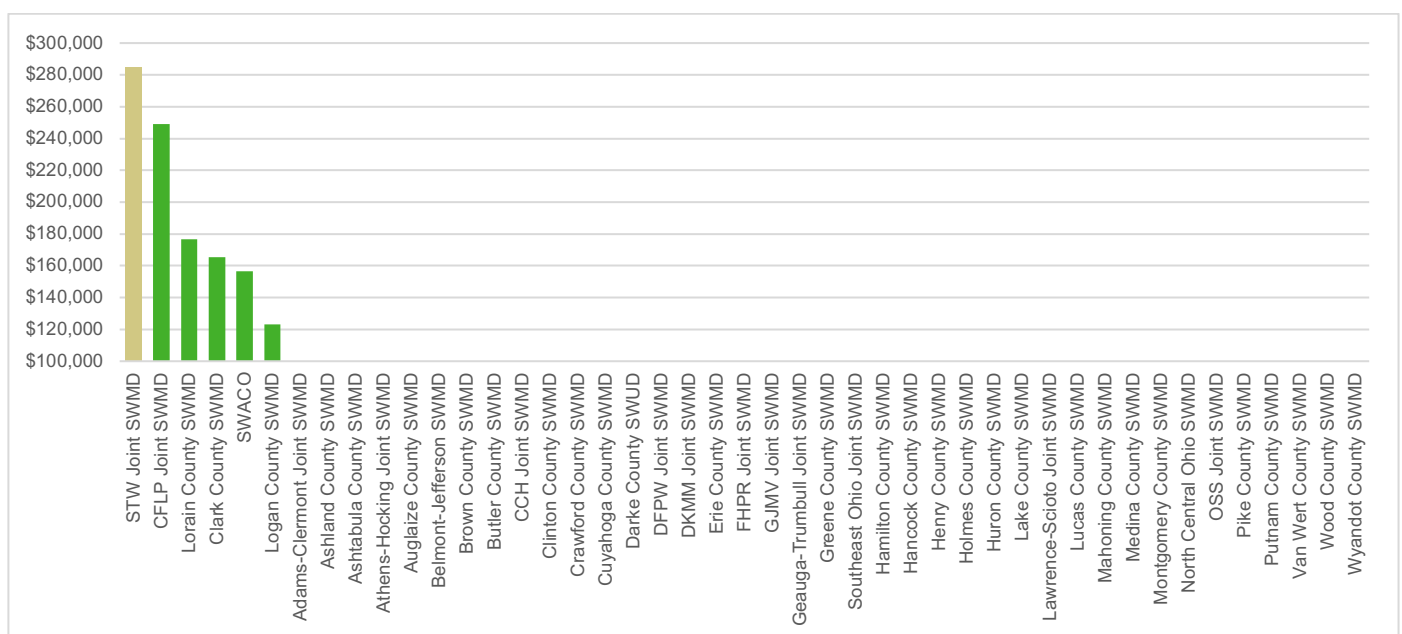


Figure H-2 District Law Enforcement Department Spend (2021)

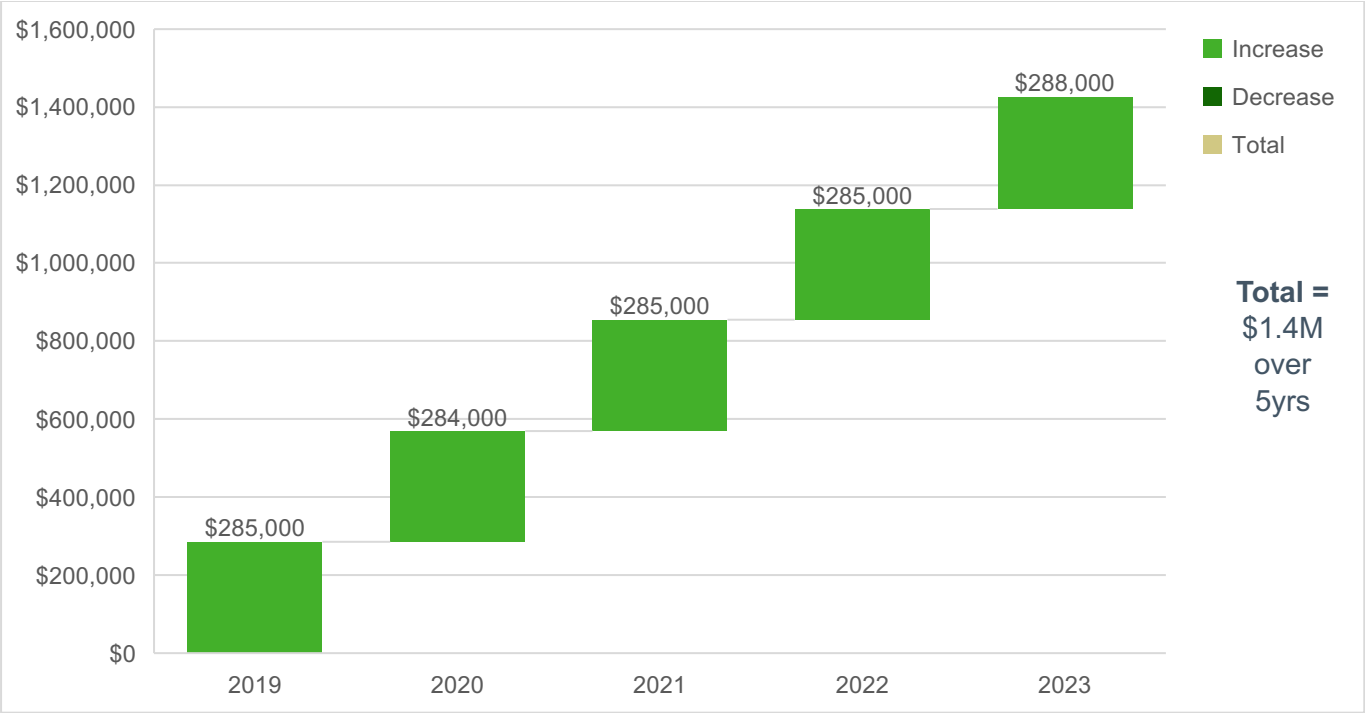


Table H-3 Ohio SWMDs Health Department Spend (2021)

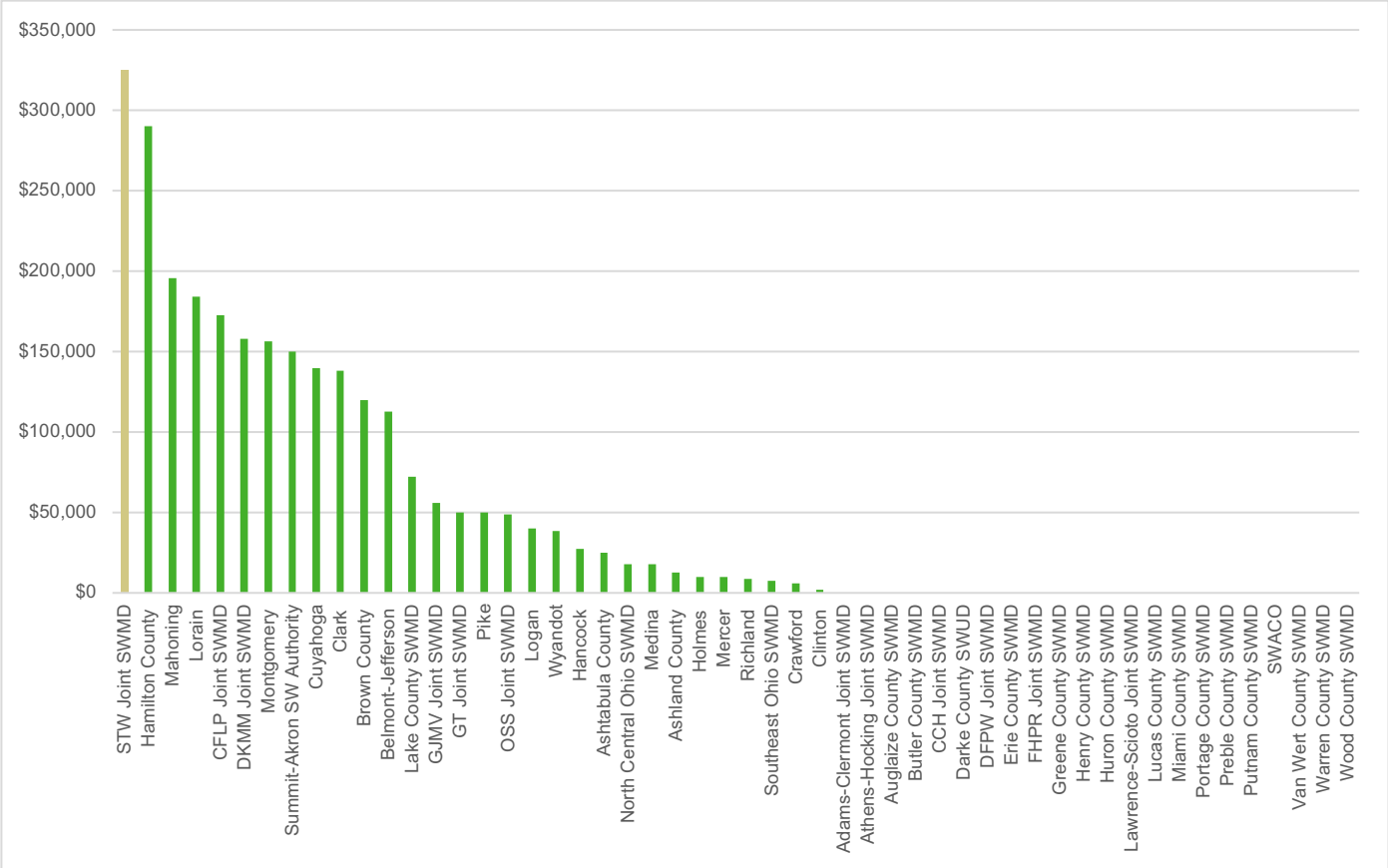


Table H-4 District Health Department Spend (2021)

Grant programs are effective when implemented but are not always advertised consistently or delivered on predictable timelines. Compounding this issue, the availability of funds has declined in recent years. The District could improve its grant programming by streamlining timelines, setting clearer expectations, and aligning funding more directly with strategic goals. External grant opportunities exist in pursuing Ohio EPA or The Recycling Partnership to diversify funding.

Opportunities:

- Streamline timelines and expectations for existing District grant programs.
- Pursue external grant opportunities (e.g., Ohio EPA, The Recycling Partnership).
- Align grants with District goals.

3. Collection (Common Recyclables)

The District has strong recycling services supported by both curbside programs and a wide network of host drop-off sites across the three counties. This dual approach ensures accessibility for residents and businesses, supporting participation rates and state access infrastructure goals.

Government and school paper collection programs generate clean, marketable material, particularly OCC and paper, which provide a revenue stream.

Operational improvements, such as refining collection routes, removing problematic sites, and upgrading bins/labels, have further strengthened system performance for the drop-off program. However, cost pressures and capacity remain a challenge.

The District provides a high level of service with the collection program and is continuously observing areas for improvement. Opportunities such as private hauler partnerships could re-allocate District resources. Contracting with a private hauler to manage school and government drop-off sites, could relieve District staff capacity while preserving service.

Switching the drop-off program to source separated almost eliminated contamination at the sites. Routing is strategic but could it make sense to commingle the containers at select sites. This could help with routing,

volume and site location space constraints. Conducting a pilot for commingled glass and metal at select sites will provide data on routing, contamination, confusion, etc.

Opportunities:

- Explore contracts with private haulers to service government and school drop-off sites.
- Pilot commingled glass and metal at select drop-off sites.

4. Collection (Hard-to-Recycle)

The District's Household Hazardous Waste (HHW) program, delivered through the Canton Recycle Center (CRC), is widely regarded as one of the most impactful and essential services offered to residents. This program provides year-round, convenient access for the safe disposal of materials that pose significant environmental and public health risks if improperly managed. These include household hazardous waste, tires, scrap metal, electronics, computers, and other hard-to-recycle items. By offering a centralized, reliable facility, the District ensures that residents have a trusted resource for responsible disposal, reducing illegal dumping and contamination in the waste stream.

Partnerships with scrap tire processors and yard waste programs expand access for hard to recycle collection of materials. However, rising HHW disposal costs, CRC staff turnover, and limited facility capacity are concerns where the District is assessing future changes. At the time of preparing this 2027 Plan, the CRC was switching departments for the management of the CRC. The District is expecting less turnover which will help maintain this cornerstone program.

As the program expands opportunities include promoting food waste and e-waste programs more aggressively and planning for long-term organics management.

Opportunities:

- Increase promotion of food waste and e-waste programs.
- Strengthen long-term planning for organics.

SWOT SESSION

1

Education & Outreach

Strengths

Signage: bins, updated labels	Phone calls/ appointments with residents	Website: simplified	Messaging: Constant and repetitive	Multiple HHW facets: blogs, social media, face-to- face, handouts	Campaigns: radio, newspaper ads, annual newsletter (mailed to all residents)
Meeting presentation requirements	Sustainable budget to support programs	Master Recycler program & activities	Staff		

Weaknesses

Curbside contamination	Limited points of contacts	Limited outreach to elected officials	Staff education	Communication with residents at drop-offs	Frequency of drop-off engagement
Before changes to signage- drop- off contamination	Yard Waste				

Opportunities

Appointment set up use of AI	Master Recycler program usage	SMS notification system	Universal message to residents	Expand youth programming	Yard waste
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Threats

Vendors/ MRFs: acceptable materials	Columbiana County new landfill	Medina County facility	Yard Waste	Funding	Apathy toward recycling
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2

Grants

Strengths

Funding opportunities for communities	Offering grants: influence communities,	Keep/build infrastructure	Application process	Many partnerships	Encourage new programs
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Weaknesses

Less available funds	Focusing less of grant funding	No prescribed application deadlines	Lack of yard waste assistance
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Opportunities

Streamline to set expectations	Unadvertised	One grant more flexible	Support District missions & goals	Yard waste assistance	Reimburse for actual expenses
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Threats

Decreased grant funding	Columbiana & Medina county facilities	Funding	Costs of recycling
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3

Collection (Common Recyclables)

Strengths

Drop-off: Refining routes	Drop-off: Removing problematic sites	Drop-off: New bright colored bins & labels	Drop-off: District services 7 days/week 365/year	Drop-off: 2 clean-up pick-up trucks to keep sites clean	Drop-off: Contract in Tusc. County (distance & cost)	Drop-off: Paper and OCC fullness	Drop-off: Earned revenue from paper and OCC
Drop-off: Local governments partnerships with sites	Curbside: 100% resident paid	Curbside: Weekly collection (majority)	Curbside: All 12 municipalities have access	Government Building Recycling: paper and occ revenue	Government Building Recycling: 7 days/wk	Curbside Promotion: Community reaches out for curbside higher success	

Weaknesses

Gov: CoM	Capital, maintenance & repair costs	Purchase availability of trucks	Number of driver to bins/routes	Curbside: changing frequency (bi-weekly) still high volume in drop-off program	Drop-off: Collecting in 5 material streams is problematic in some locations with site capacity	Reliance on various political subdivisions
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Opportunities

Converting gov and school drop-off programs to private sector	Drop-off: Commingling glass & metal	Assist agencies with curbside programs
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Threats

Royal Oaks reduced funding/service to schools, non-profits	Lack of service from Royal Oaks is adding pressure to the District to service smaller businesses	Smaller businesses serviced by Royal Oaks are now needing service	Curbside: "Free" service collection	Curbside Promotion: Twp autonomy	Curbside Promotion: Village support of local haulers due to price (low population)	Tusc. school collection changing	PAYT Promotion: Industry standards
Drop-off: Mixed messaging and increased contamination (if commingled glass & metal)	Drop-off: Private sector add of cost for recyclables	Reliance on various political subdivisions					

4

Collection (Hard To Recycle)

Strengths

CRC: Collect year round in a central location (Canton)	CRC: Appointment only to control flow and cost (contamination) throughout the year	One-stop-shop for hard to recycle materials for residents	Scrap Tire Program: Ohio EPA partnership	CRC: City of Canton provides building and personnel	2 food waste drop-off sites	Eliminating drug collection boxes (cut costs)	Yard Waste Collection Sites Communities operate collection for a fee (no District \$\$ assistance)
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Weaknesses

Scrap Tire Program: Ohio EPA program may go away	HHW: rising cost of disposal (pop-up events more \$\$ than CRC)	CRC: Employee turnover & training new employees	CRC: Landlords not knowing and decision is up to District to turn away	CRC: Building problems	CRC: Free service and assessment for acceptable cost to accept materials	CRC: Not accepting tanks	CRC: Unknown chemicals (explosives) and potential exposures
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Oppourtunities

HHW Facility: New facility	Yard Waste: Stark and Tusc. to adopt the Wayne model	Adjustment of fees could help to add additional collection events	E-waste vendor collecting the collection drop	Food Waste: Promote exisiting infrastructure/ programs	Continue to explore incoming opportunities	Expand site locations
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Threats

Promoting to MFH	Scrap Tire Program: Ohio EPA program may go away	Yard Waste: Reduction of services (community opposition)	Vendors/ MRFs: acceptable materials	Disposal costs	Availability of disposal	Safety
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Note: MFH = Multi-Family Housing

CONCLUSION

Education and outreach programs are well developed, yet engagement with elected officials and consistency at drop-off sites should be prioritized to strengthen trust and participation. Grants remain a valuable tool, but the District may benefit from streamlining the process, making timelines more predictable, and proactively seeking supplemental funding.

On the collection side, the District has built a strong recycling system with curbside collection and reliable drop-off infrastructure, but cost pressures tied to equipment and staffing require attention. Contracting school and government drop-off with private haulers, expanding commingling where appropriate will improve efficiency and participation. For hard-to-recycle materials, opportunity exists in promotion of existing food waste and e-waste programs.

By addressing improvement areas, the District will position itself with opportunities to improve targeted outreach, modernize services through technology, and streamline funding programs. While external pressures such as shifting vendor standards and rising program costs remain challenges, the District is moving in the right direction. The District will focus on refining engagement, streamlining processes, expanding innovative approaches, and building resilience against external pressures.

To meet future challenges and state goals, the District must move beyond maintaining current operations and embrace a proactive, strategic approach. Key priorities include:

- **Modernizing Engagement:** Expand education and outreach beyond awareness campaigns by leveraging technology (e.g., SMS alerts, AI scheduling) and fostering deeper partnerships with elected officials and community leaders.
- **Streamlining Funding Mechanisms:** Improve grant program predictability through clearer timelines and alignment with District priorities, while aggressively pursuing external funding sources such as Ohio EPA and The Recycling Partnership.
- **Optimizing Collection Systems:** Address cost pressures and capacity constraints by exploring private hauler partnerships, piloting commingled material strategies, and upgrading infrastructure to reduce contamination and improve efficiency.
- **Expanding Hard-to-Recycle Solutions:** Strengthen promotion of food waste and e-waste programs, and develop a long-term organics management strategy to meet growing demand and regulatory expectations by shifting to the program structure.
- **Building Resilience:** Anticipate external threats such as rising disposal costs and shifting vendor standards by diversifying markets, investing in local processing capacity, and incorporating economic incentives to drive participation.

By implementing these strategies, the District will not only meet compliance requirements but also continue to position itself as a leader in sustainable materials management. This forward-thinking approach ensures that programs remain adaptable, cost-effective, and impactful; ultimately reducing landfill reliance and advancing circular economy goals.

APPENDIX I

CONCLUSIONS, PRIORITIES, AND PROGRAM DESCRIPTIONS

Appendix I.

Conclusions, Priorities, and Program Descriptions

This Appendix provides all the information about the District's programs. Program descriptions describe what was available in the reference year and what will be available during the planning period. Education and outreach programs are described in Appendix L.

A. Actions and Priorities

1. Actions

Appendix H evaluates the District's performance of programs and strategies in offering and maintaining services. Evaluation of these programs involves determining whether the performance observed was expected or desired. If these strategies did not perform as anticipated, suggestions were presented to improve and strengthen programs and performance and increase effectiveness.

The evaluation in Appendix H evaluates the District's performance of strategies/programs in offering and maintaining services. As part of this analysis a list of opportunities was created, identifying possibilities for the District's future programming. Suggested areas of improvement do not bind the District to commit to every action listed.

2. Priorities

As part of the planning process, the District held two Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis sessions focusing on District programs. During these sessions, District staff identified specific strengths to build upon, weaknesses needing attention, opportunities that could expand program capacity, and threats outside of the District's control. The results highlight areas for improvement while also providing a foundation for setting goals and priorities.

B. Program Descriptions

RESIDENTIAL RECYCLING PROGRAMS

Curbside Recycling Services

Name	Start Date	End Date	Goal(s)
Non-Subscription Curbside			
City of Alliance	Ongoing	Ongoing	1 and 2
City of Canal Fulton	Ongoing	Ongoing	1 and 2
City of Canton	Ongoing	Ongoing	1 and 2
Village of Hartville	Ongoing	Ongoing	1 and 2
Village of Hills and Dales	Ongoing	Ongoing	1 and 2
City of North Canton	Ongoing	Ongoing	1 and 2
Village of Baltic	Ongoing	Ongoing	1 and 2
Village of Bolivar	Ongoing	Ongoing	1 and 2
Village of Dennison	Ongoing	Ongoing	1 and 2
City of Dover	Ongoing	Ongoing	1 and 2

Name	Start Date	End Date	Goal(s)
Village of Gnadenhutten	Ongoing	Ongoing	1 and 2
City of New Philadelphia	Ongoing	Ongoing	1 and 2
Village of Strasburg	Ongoing	Ongoing	1 and 2
Village of Sugarcreek	Ongoing	Ongoing	1 and 2
City of Uhrichsville	Ongoing	Ongoing	1 and 2
Village of Doylestown	Ongoing	Ongoing	1 and 2
Village of Marshallville	Ongoing	Ongoing	1 and 2
City of Orrville	Ongoing	Ongoing	1 and 2
City of Rittman	Ongoing	Ongoing	1 and 2
City of Wooster	Ongoing	Ongoing	1 and 2
City of Louisville	Ongoing	Ongoing	1 and 2
Subscription Curbside			
City of Massillon	Ongoing	Ongoing	1 and 2
Navarre Village	Ongoing	Ongoing	1 and 2
Bethlehem Township	Ongoing	Ongoing	1 and 2
Village of Meyers Lake	Ongoing	Ongoing	1 and 2
Canton Township	Ongoing	Ongoing	1 and 2
Jackson Township	Ongoing	Ongoing	1 and 2
Lake Township	Ongoing	Ongoing	1 and 2
Lawrence Township	Ongoing	Ongoing	1 and 2
Lexington Township	Ongoing	Ongoing	1 and 2
Marlboro Township	Ongoing	Ongoing	1 and 2
Nimishillen Township	Ongoing	Ongoing	1 and 2
Village of East Canton	Ongoing	Ongoing	1 and 2
Osnaburg Township	Ongoing	Ongoing	1 and 2
Village of Minerva	Ongoing	Ongoing	1 and 2
Paris Township	Ongoing	Ongoing	1 and 2
Perry Township	Ongoing	Ongoing	1 and 2
Village of East Sparta	Ongoing	Ongoing	1 and 2
Pike Township	Ongoing	Ongoing	1 and 2
Plain Township	Ongoing	Ongoing	1 and 2
Village of Magnolia	Ongoing	Ongoing	1 and 2
Village of Waynesburg	Ongoing	Ongoing	1 and 2
Sandy Township	Ongoing	Ongoing	1 and 2
Village of Beach City	Ongoing	Ongoing	1 and 2
Village of Brewster	Ongoing	Ongoing	1 and 2
Village of Wilmot	Ongoing	Ongoing	1 and 2
Sugar Creek Township	Ongoing	Ongoing	1 and 2
Tuscarawas Township	Ongoing	Ongoing	1 and 2
Washington Township	Ongoing	Ongoing	1 and 2

Curbside recycling will continue to be offered by communities during the planning period and provide collection of metal cans, glass bottles and jars, paper and cardboard, and plastic bottles and jugs. The District maintains an updated list of recyclables accepted on the website under the How to Recycle drop-down feature.

The District offers communities technical assistance to help with contracting for solid waste and recycling services and to implement best practices for collection. The District has helped many communities contract for curbside recycling which has increased recycling.

In 2022, The Village of Doylestown increased container size from totes to wheeled carts. The Village-operated program in Gnadenhutten continued though they expressed concerns about the program's continuation into the future due to the cost of replacing the packer of their only truck. They requested \$98,500 through the District's Program Startup Grant and the District awarded \$25,000 to be used toward the replacement contingent upon the inclusion of a cart tipper. The decision was made due to the low population in the Village, the fact that the District previously funded the purchase of wheeled carts (that Village staff have bin manually tipping), and the results of the Comprehensive Studies of the Solid Waste Collection Operations the District had conducted by GT Environmental in 2017 (for the Cities of Canton and New Philadelphia), which concluded that wheeled cart curbside programs are safest and most efficient with at least a semi-automated tipper. The Village ultimately forfeited the funding. The District will continue communicating with them about best practices for program sustainability and safety.

In 2023, the City of New Philadelphia expressed concerns about the continuation of their curbside recycling program as the rates to recycle what they collect were set to increase substantially. The District plans to work with them throughout 2024 to evaluate whether the program can be modified to be sustainable or whether existing drop-off sites could be expanded or new sites added to provide access if they discontinue. The District previously funded a Comprehensive Study of the Solid Waste Collection Operations conducted by GT Environmental for the City that could be used for reference. The District's Board approved offering a Program Startup Grant to the city of Louisville to incentivize them to move toward a curbside recycling program, but they ultimately did not move forward with it. The Village of Tuscarawas expressed some interest in moving toward a curbside program, so we will provide technical assistance and potentially grant funding as an incentive.

In 2024, the City of New Philadelphia faced rising recycling costs and considered ending its curbside program. The District stepped in to explore sustainable options, including service modifications and expanded drop-off access. The city ultimately chose to continue the program and adjust rates to cover expenses. Meanwhile, the District provided direction and support for the City of Louisville to launch a new curbside recycling program by late 2024—an exciting win for local sustainability efforts. The Village of Tuscarawas showed interest but decided not to pursue a program at this time.

Target for Next 5-Years: The District expects these curbside programs to continue through the planning period.

Drop-off Recycling Services

Name	Start Date	End Date	Goal(s)
Full-Time, Urban Drop-offs			
Alliance Recycling Center	Ongoing	Ongoing	1 and 2
City of Canton	Ongoing	Ongoing	1 and 2
Canton Township (Township Building)	Ongoing	Ongoing	1 and 2
Jackson Township (Middle School)	Ongoing	Ongoing	1 and 2
Jackson Township (Parks Maint. Facility)	Ongoing	Ongoing	1 and 2
Jackson Township (Real Hope Church)	Ongoing	Ongoing	1 and 2
Jackson Township (Strausser Elementary)	Ongoing	Ongoing	1 and 2
Lake Township (Hartville Village)	Ongoing	Ongoing	1 and 2
Lake Township (Recycling Station)	Ongoing	Ongoing	1 and 2
Lawrence Township (Service Center)	Ongoing	Ongoing	1 and 2
Lexington Township (Fire Station #2)	Ongoing	Ongoing	1 and 2
City of Louisville (Louisville Service Center)	Ongoing	Ongoing	1 and 2
City of Massillon (City Garage)	Ongoing	Ongoing	1 and 2
City of Massillon (Recreation Center)	Ongoing	Ongoing	1 and 2
Village of Minerva (Paris Township)	Ongoing	Ongoing	1 and 2
Village of Navarre (Village Hall)	Ongoing	Ongoing	1 and 2
Nimishillen Township (Anthony Petitti Garden)	Ongoing	Ongoing	1 and 2
Nimishillen Township (Township Hall)	Ongoing	Ongoing	1 and 2
Osnauburg Township (Fire Station)	Ongoing	Ongoing	1 and 2
Paris Township (Service Center)	Ongoing	Ongoing	1 and 2
Perry Township (Garage)	Ongoing	Ongoing	1 and 2
Perry Township (Administration Building)	Ongoing	Ongoing	1 and 2
Perry Township (Recycling Station)	Ongoing	Ongoing	1 and 2
Plain Township (Diamond Park)	Ongoing	Ongoing	1 and 2
Plain Township (Easton St)	Ongoing	Ongoing	1 and 2
Plain Township (First Friends)	Ongoing	Ongoing	1 and 2
Plain Township (Saint Michael Church)	Ongoing	Ongoing	1 and 2
Sugar Creek Township - Village of Beach City (Behind Police Department)	Ongoing	Ongoing	1 and 2
Sugar Creek Township - Village of Brewster (Street Department)	Ongoing	Ongoing	1 and 2
Tuscarawas Township (Township Office)	Ongoing	Ongoing	1 and 2
City of Dover (Parkside Buehlers)	Ongoing	Ongoing	1 and 2
Lawrence Township (Bolivar Giant Eagle)	Ongoing	Ongoing	1 and 2
City of New Philadelphia (Buehlers)	Ongoing	Ongoing	1 and 2
Village of Newcomerstown (Water Works)	Ongoing	Ongoing	1 and 2
Chippewa Township (Village of Doylestown)	Ongoing	Ongoing	1 and 2
Village of Apple Creek (East Union Township)	Ongoing	Ongoing	1 and 2
City of Orrville (Buehler's Fresh Foods/Green Township)	Ongoing	Ongoing	1 and 2
Congress Township (Service Department)	Ongoing	Ongoing	1 and 2
Village of Dalton (Sugar Creek Township)	Ongoing	Ongoing	1 and 2
Village of Kidron (Lehman Hardware and Appliances/Sugar Creek Township)	Ongoing	Ongoing	1 and 2
Village of Smithville (Sam's Pizza & Heroes/Green Township)	Ongoing	Ongoing	1 and 2
City of Wooster (Buehler's)	Ongoing	Ongoing	1 and 2
Wooster Township (Valley College Grange)	Ongoing	Ongoing	1 and 2
Wooster Township (OARDC)	Ongoing	Ongoing	1 and 2

Name	Start Date	End Date	Goal(s)
Part-Time, Urban Drop-offs			
Canton Recycle Center	Ongoing	Ongoing	1 and 2
Full-Time, Rural Drop-offs			
Marlboro Township (Service Center)	Ongoing	Ongoing	1 and 2
Pike Township (Countywide RDF)	Ongoing	Ongoing	1 and 2
Pike Township (Fire Station)	Ongoing	Ongoing	1 and 2
Pike Township (Township Office)	Ongoing	Ongoing	1 and 2
Sandy Township (Administrative Building)	Ongoing	Ongoing	1 and 2
Village of Magnolia (Sandy Township)	Ongoing	Ongoing	1 and 2
Washington Township (Township Office)	Ongoing	Ongoing	1 and 2
Dover Township (Kimble)	Ongoing	Ongoing	1 and 2
Fairfield Township (Township Building)	Ongoing	Ongoing	1 and 2
Franklin Township - Strasburg (Kraus Pizza)	Ongoing	Ongoing	1 and 2
Jefferson Township (Township Garage)	Ongoing	Ongoing	1 and 2
Mill Township	Ongoing	Ongoing	1 and 2
Perry Township (West Chester Community)	Ongoing	Ongoing	1 and 2
Sandy Township (Township Building)	Ongoing	Ongoing	1 and 2
Village of Sugarcreek (Baker's IGA)	Ongoing	Ongoing	1 and 2
Warwick Township (Community Center)	Ongoing	Ongoing	1 and 2
Washington Township (Township Garage)	Ongoing	Ongoing	1 and 2
Wayne Township (Township Building)	Ongoing	Ongoing	1 and 2
Baughman Township (Recycling Drop Off)	Ongoing	Ongoing	1 and 2
Chester Township (Northwestern Elementary School)	Ongoing	Ongoing	1 and 2
Congress Township - Village of West Salem	Ongoing	Ongoing	1 and 2
Village of Creston (Canaan Township)	Ongoing	Ongoing	1 and 2
Franklin Township (Township Hall)	Ongoing	Ongoing	1 and 2
Mill Township (Township Garage)	Ongoing	Ongoing	1 and 2
Milton Township (Township Garage)	Ongoing	Ongoing	1 and 2
Paint Township (Service Center)	Ongoing	Ongoing	1 and 2
Plain Township (Township Garage)	Ongoing	Ongoing	1 and 2
Salt Creek Township - Village of Fredericksburg (Elementary School)	Ongoing	Ongoing	1 and 2
Wayne Township (Township Garage)	Ongoing	Ongoing	1 and 2
Part-Time, Rural Drop-offs			
None			

Drop-off recycling opportunities will continue to be offered during the planning period. Currently, source-separated recycling drop-offs are offered at 72 locations throughout the District. The standard recyclables collected include metal cans, glass bottles and jars, plastic bottles and jugs, mixed paper and cardboard. The District's website also provides outlets for residents to drop-off other materials not accepted at a drop-off site or through curbside.

In 2020, the District completed the replacement of nearly all of the public recycling containers at the 35 public drop-off sites in Stark County and the 21 public drop-off sites in Wayne County - a total of 416 bins (6 and 8-yard containers). The 15 Tuscarawas County drop-off sites are managed through a contract with the Kimble Company. Kimble provides the containers, collects, and processes the materials. The District worked with the Kimble Company to design and place new labels upon every Kimble bin in the contract. In

total, the District spent \$500k in bins, decals, signs, and site upgrades. Receiving the Ohio EPA community grant helped to make this possible. The District's largest privately operated drop-off site, the Jackson Township Recycling Center, permanently closed on Saturday, August 22, 2020, after 37 years. As a result, the District placed four new public drop-off sites in the township.

The first year with the new labels, 2021, showed marked decreases in contamination at the recycling drop-off sites. The District measured 67% in May of 2020 and 0% in July 2021. The District also began tracking drop-off data in ReTrac. Drivers track bin counts and total tonnage to determine the estimated tonnage collected per site. The system subtracts contamination if a load is considered contaminated from the site totals. Because it was the first full year using the new system, the site weights were less consistent with the prior year more so than they would have been with the old system.

In 2022, the District continued to review the optimization of the number of drop-off sites/access gained by the site versus the amount of dumping and contamination at the sites. The following sites were removed or relocated between 2021 and 2022 (in the case of site removal, residents were redirected to other nearby sites and additional bins were added to those sites to assist with the increase in volume expected):

- Canal Fulton (consolidated with Lawrence Township (Stark))
- Robertsville (removed)
- Hartville (relocated from the Flea Market to a lot near Samantha's Frontier Restaurant)
- Newcomerstown (relocated from behind Baker's IGA to the Water Works)
- Wilmot (removed)
- Navarre, St. Clement Church (consolidated with other site in Navarre)
- Gale's Recycle It + tire drop-off site (users directed to the Canton Recycle Center)

In 2023, the District was able to extend its contracts with S. Slesnick Company and Kimble Company through 2027. These contracts secure recyclable processing of District collected materials in Stark and Wayne Counties and the recyclable collection and processing of materials from the Tuscarawas County sites. The District saw an increase in the cost sharing contract expenses (Kimble contract only), which are based on the market commodity rates, and will have to continue to monitor these throughout the life of the contracts.

Target for Next 5-Years: The District expects the sites listed will continue through the planning period. In this next planning cycle, sites may need to be relocated. Any changes will be reflected in the Annual District Report.

The City of Louisville hosts a recycling site and worked with the District to relocate their recycling site in 2025 to the Louisville Police Department whereas the Village of Tuscarawas opted to maintain their current location.

Curbside Recycling Initiatives

Name	Start Date	End Date	Goal(s)
Curbside Expansion Efforts	Existing	Ongoing	1, 2

Curbside recycling is convenient access and diverts more per household. The District works with communities to implement or expand non-subscription curbside recycling programs.

The District didn't receive any expansion requests in 2020, 2021, 2022, and 2023.

In 2024, the City of Louisville initiated its transition to a non-subscription curbside recycling program. The contract for service was approved, with implementation planned for March 2025. This milestone marked Louisville as the final municipality in Stark County to adopt curbside recycling.

The Village of Tuscarawas showed interest but decided not to pursue a program.

Target for Next 5-Years: The District will continue to work with cities, villages, and townships to expand curbside. Large population centers in townships, such as census designated places, or residential communities will also be targets.

Name	Start Date	End Date	Goal(s)
Curbside Re-Start Program	Existing	Ongoing	1, 2

In the event a cancellation occurs, the District prioritizes re-establishing curbside collection whenever feasible. If reinstatement is not possible, the District assesses the affected community for the potential placement of a recycling drop-off site to ensure continued access to recycling services.

All District curbside programs remained in place from 2020 through 2023.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Implement Curbside Recycling for Targeted Areas	Existing	2025	2, 4, 7

In response to ongoing changes in recycling markets, the District has placed a strategic emphasis on supporting communities with established recycling programs—particularly those serving larger populations. This targeted approach ensures that resources are directed where they can have the greatest impact, helping to strengthen program stability and improve overall recycling outcomes.

Target for Next 5-Years: This program is repetitive of the Curbside Expansion Efforts. Refer to the Curbside Expansion Efforts program for planned targets. This will be removed from the Plan implementation table.

Name	Start Date	End Date	Goal(s)
Approach municipality regarding new curbside programs	Existing	Ongoing	1, 2

An initiative by the District is to approach the Mayor of the only municipality without a curbside program in the District about exploring a curbside program. This program will not continue as the District has successfully worked with the City of Louisville to get curbside recycling in their community starting in 2025.

Target for Next 5-Years: This program will discontinue.

Name	Start Date	End Date	Goal(s)
Conduct workshops with 2-3 villages that do not have curbside programs	N/A	2025	1, 2

An initiative by the District is to conduct workshops with 2 to 3 villages that do not have curbside programs to promote curbside recycling. The workshops will provide technical assistance in creating the program and funding opportunities.

The District experienced reductions in staffing and was unable to implement this new program.

Target for Next 5-Years: Staffing levels are expected to hold at current levels. This program will not continue through this planning period. Efforts will be focused on other programs.

Name	Start Date	End Date	Goal(s)
Promote and utilize program start up grants	Existing	2026	1, 2

The District awards funding to be used to start or improve curbside programs, recycling drop-offs and/or yard waste drop-offs. Promotion is through direct communication by the District staff, website, and policy committee meetings. The District awarded six grants in 2020, six in 2021, and 4 in 2022. No grants were offered in 2023 or 2024.

Target for Next 5-Years: The grant programs are restructuring. This program is discontinuing.

Name	Start Date	End Date	Goal(s)
Promote and utilize mini-grants to incentivize communities	Existing	2024	1, 2

Historically, the District provided mini-grants to communities for things such as incentivizing communities to include recycling when they bid out curbside waste programs or conducting their own E-waste events.

The mini-grant program didn't receive funding in the 2024 cycle, and the District announced the phase-out of Mini-Grants by Dec. 31, 2024.

Target for Next 5-Years: The grant programs are restructuring. This program is discontinuing.

Drop-off Recycling Initiatives

Name	Start Date	End Date	Goal(s)
Drop-Off Map	Existing	2025	1

The District's website features a facility locator tool that assists residents in finding drop-off locations for a wide range of recyclables and special waste materials. This tool provides essential site-specific information, including addresses, directions, contact numbers, and accepted materials, making it easier for residents to access appropriate disposal options.

Target for Next 5-Years: The drop-off map is no longer a feature on the website. The location of the drop-offs can be found by searching for "How to Recycle" a specific material.

Other Drop-off Recycling Initiatives

Name	Start Date	End Date	Goal(s)
Additional camera systems for contamination	Existing	Ongoing	1, 2

The District adds camera systems and enforcement to reduce contamination and drop-off site abuse as the budget allows. This activity is based on the following actions:

- Identification of highest contamination sites that do not have cameras.
- Evaluation of the costs for implementation of cameras per site identified.

- Presentation of the contamination metrics and costs for cameras to the Board of Directors (if needed due to the cost).
- Implementation of tabling of this initiative will be based on decisions from the Board of Directors.

In 2024, cameras were added in Jackson Township (South Park) to address the dumping issues.

Target for Next 5-Years: Maintain cameras and add as budget allows for needed sites.

Name	Start Date	End Date	Goal(s)
Add open dump ORC language on signs at recycling drop-off sites	Existing	Ongoing	1, 2

The District adds open dump Ohio Revised Code (ORC) language on signs at recycling drop-off sites to drive home the message that dumping materials at the sites is against the law and there are penalties for breaking the law.

The District drop-off signs currently utilize ORC language to prevent dumping.

Target for Next 5-Years: Monitor drop-off sites and replace with signs with open dumping ORC language as necessary.

Name	Start Date	End Date	Goal(s)
Drop-off information sheet receptacle	N/A	2024	1, 2

An initiative by the District is to create an information sheet receptacle at each drop-off or targeted drop-off sites that includes detailed acceptable and non-acceptable materials for the program.

The District experienced reductions in staffing and was unable to implement this new program.

Target for Next 5-Years: This program is discontinuing.

Name	Start Date	End Date	Goal(s)
Drop-off hauler engagement session	Existing	2024	1, 2

An initiative by the District is to conduct an annual or more frequent hauler engagement session to understand barriers and other factors that prevent drop-off recycling from expanding in the District.

In the reference year, the District successfully transitioned to new vendors for both tire hauling and e-waste processing at CRC, finalizing all necessary contracts and vendor payments.

Target for Next 5-Years: This program is discontinuing.

Name	Start Date	End Date	Goal(s)
Create temporary site signage about site-specific issues	Existing	Ongoing	1, 2

An initiative by the District is to create temporary site signage about site-specific issues that could draw more attention than permanent signage and could be used across multiple sites.

The District experienced staffing losses and was unable to implement this new program.

Target for Next 5-Years: Continue through the planning period.

Other Residential Recycling Programs

Name	Start Date	End Date	Goal(s)
PAYT Promotion Efforts	Existing	Ongoing	1, 2

Several municipalities in the District use volume-based billing, mostly through "bag programs" where residents pay a lower monthly fee but buy pre-approved bags for their trash—rewarding those who generate less waste. The District works with targeted political subdivisions that offer curbside recycling but do not have PAYT to promote establishment of PAYT programs.

There were no new PAYT or volume-based programs implemented from 2020 to the reference year. Discussions with political leaders demonstrate low interest.

Target for Next 5-Years: The District will help communities interested in PAYT with technical assistance to calculate fee structures as they negotiate with haulers.

Name	Start Date	End Date	Goal(s)
Community Assistance Program	Existing	Ongoing	2, 4, 7

The District continues to target at least one community each year to work on improving recovery rates. Outreach can be focused on curbside, drop-offs, yard waste or a combination. Assistance priority is based on working with communities who do one of the following:

- Make a request for promotion assistance directly.
- Regularly communicate to the District because they are grant recipients.
- Seem to be low performing for their population density.
- Would be prime candidates because of an apparent lack of promotion (for example, a tire drop-off site could be communicated to residents of a community that is observed to have an increased mosquito control concern).

The District's primary focus regarding assisting communities in 2020 was working with Jackson Township to ensure their residents had adequate opportunity to recycle due to the closure of the Jackson Township Recycling Station. Four new public drop-off sites were opened, and the District and Township worked together to promote what is acceptable at the sites.

The District assisted the following communities in 2021:

- Plain Township (Stark County) received funding from the District to pave the lots at the Diamond Park and St. Michael's recycling drop-off sites
- The Village of Newcomerstown (Tuscarawas County) worked with the District to relocate and secure their recycling site as the prior location was frequently dumped and was not able to be secured with a gate due to its location
- OSU Wooster also received both District and Ohio EPA grant funding to develop a new public recycling site as well as implement a campus-wide recycling and compost collection program.

The District assisted the following communities in 2022:

- Plain Twp (Wayne Co) received funding from the District to add a concrete pad to their recycling drop off site
- Perry Twp (Stark Co) received funding to repave the lot at the site located at their Administration Building.
- The District paid to replace the garage doors, safety switches, and electronic readers at Canton Recycle Center
- Funded Lawrence Twp (Tuscarawas Co) to extend the concrete pad at their yard waste site.

In 2023, due to continued increasing costs of other budgeted line items, the District reduced spending for this program. Even though community assistance projects were not budgeted, the Board approved offering a Program Startup Grant to the City of Louisville to incentivize them to move toward a curbside recycling program, but they ultimately did not move forward with it.

In 2024, costs continued to rise in other budgeted line items. As a result, funding was not allocated for community assistance projects during this budget cycle.

Target for Next 5-Years: The District will offer technical assistance to any community helping to start new or improve diversion programs but does not guarantee financial assistance.

Name	Start Date	End Date	Goal(s)
Driver Collection Routing Program name change from "Work with drivers to cover part-time hours"	Existing	Ongoing	1, 2

District collection driver routes are reviewed and balanced over the full and part-time drivers.

In 2020, the District completed negotiations for the new collective bargaining agreement with Teamsters Local 92 covering its full- and part-time recycling truck drivers.

In 2021, acquiring and retaining part-time drivers remained a struggle, but full-time drivers worked a rotation of weekend overtime shifts to ensure routes were completed.

In 2023, due to the departure of one key full-time staff member, in addition two other departures, the remaining District staff expanded their typical roles/responsibilities to cover required areas. The District replaced one staff member to provide additional support leaving us with 5 administrative staff and 12 drivers.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Driver Safety Incentives Program name changed from "Incentive for drivers to enhance their safe driving ability"	Existing	Ongoing	N/A

The District incentivizes full-time drivers to increase their certification from a Class B to a Class A CDL and continue to enhance their safe driving ability. The District is powering up its efforts by investing in staff training across several vital areas to boost performance and service. This is a management and staffing

based activity and will occur as needed throughout the planning period. Types of incentives offered include meetings where food is provided and the drive cam safety program.

In 2020, the District continued coaching the recycling truck drivers on safe driving behaviors through the Lytx DriveCam program. The program records video with g-force triggered events (hard braking, fast accelerating, collision, etc.), which allows identification of risky driving behaviors and coaching.

In 2022, the Lytx cameras in the District's recycling trucks were upgraded and are now equipped with MV+AI (machine vision + artificial intelligence).

In 2023, the District continued enhancing fleet safety through successful implementation of the Lytx Drive Cam System.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Truck Leasing/Ownership Assessments	Existing	Ongoing	N/A

The District frequently explores the benefits of leasing versus owning recycling trucks.

In 2020, the District contracted with R&R Truck and Equipment Services to lease three new Mack recycling trucks.

In 2023, the District was able to extend the lease agreement for three of its recycling trucks and purchase a new cleanup truck.

Target for Next 5-Years: Continual ongoing annual assessment options.

Name	Start Date	End Date	Goal(s)
Alternative Fuel Program for Trucks	Existing	Ongoing	N/A

The District explores the cost of compressed natural gas, fuel cell, electric, biodiesel, etc. for District collection vehicles to determine if long term cost savings could be achieved.

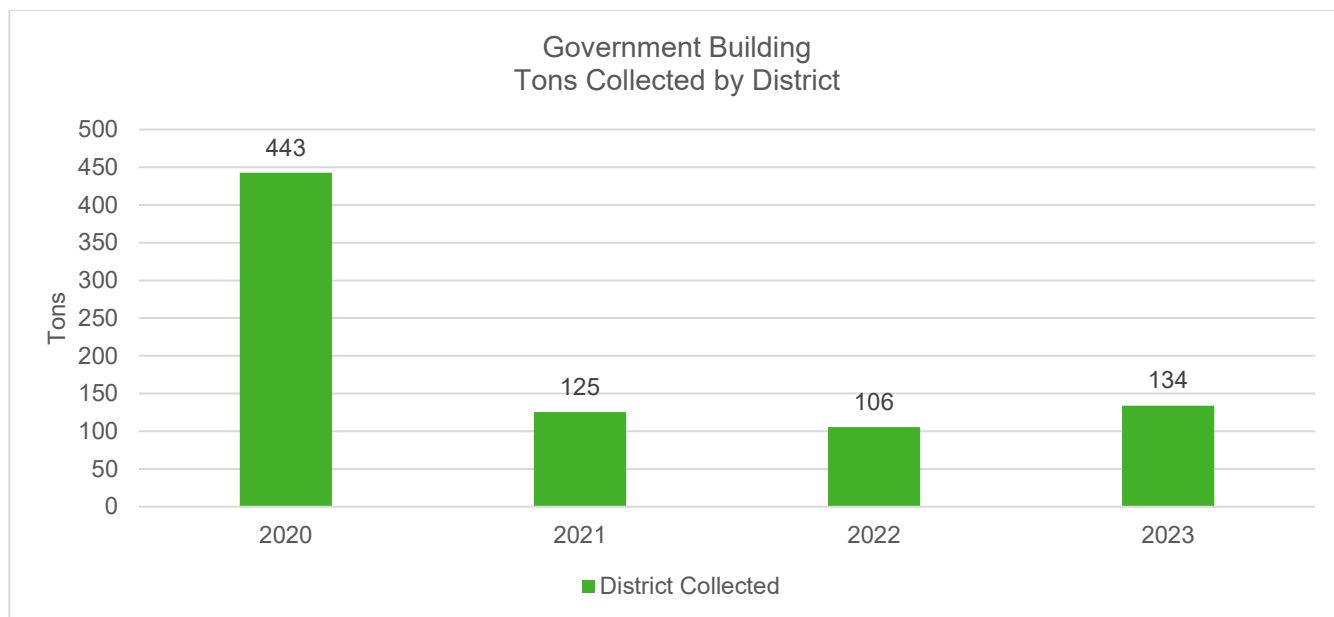
Target for Next 5-Years: Continual ongoing annual assessment options.

COMMERCIAL / INSTITUTIONAL RECYCLING PROGRAMS

Collection Services

Name	Start Date	End Date	Goal(s)
Government Building Recycling	Existing	Ongoing	1, 2, 3, 4

The District operates the Government Building Recycling program in each of the three counties. The District also collects data from private recyclers providing services to government buildings and libraries within the District.



Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Campaign to reduce commercial use of residential yard waste drop-off sites	Existing	2026	4

The District provides assistance to established yard waste sites in the form of Host Community cleanup grant funding that can be utilized on signs and cameras to reduce commercial dumping. With the introduction of the Yard Waste Host Site Block Grant Program in 2018, the District was able to de-incentivize sites from encouraging commercial users at the sites as any hauling expenses that exceed the block grant amounts would have to be absorbed by the host sites.

The District continued to offer Block Grant during 2021, the District was able to de-incentivize sites from encouraging commercial users at the sites as any hauling expenses that exceed the block grant amounts would have to be absorbed by the host sites. In 2021, Lake Township decided to privatize their site, this was only for their residents.

The District continued to offer Block Grant during 2022 and 2023, the District was able to de-incentivize sites from encouraging commercial users at the sites as any hauling expenses that exceed the block grant amounts would have to be absorbed by the host sites.

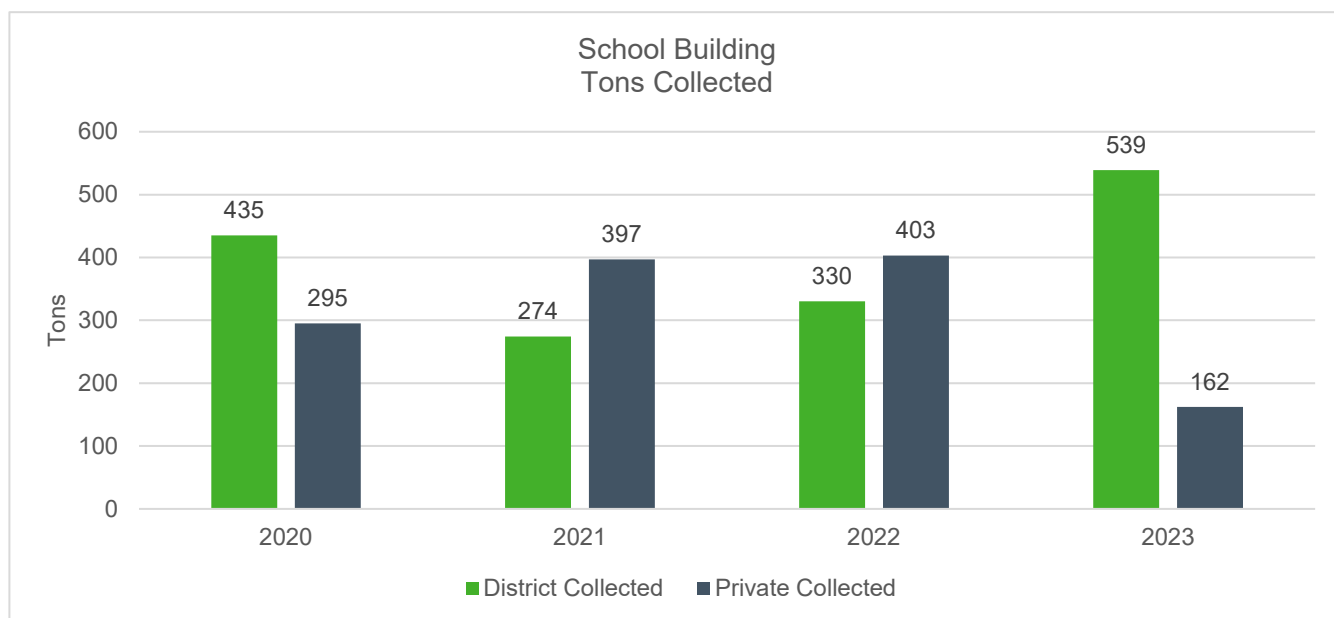
The District expects for the residential yard waste drop-off sites to be privatized and thus will not need campaign assistance to deter commercial use.

Target for Next 5-Years: This program will not continue in this next plan as all yard waste sites under the current program will be phased out.

School Recycling

Name	Start Date	End Date	Goal(s)
School Recycling Program	Existing	Ongoing	1, 2, 3, 4

The District collects mixed paper and office paper from schools located throughout the three-county area (or paid individuals/companies to collect). Some of the school programs also accept plastics, glass, aluminum, and steel. The District also collected data from local businesses that provided recycling services to schools, which include Royal Oaks Recycling and Sanmandy.



Target for Next 5-Years: Moving the schools towards private sector recycling collection service versus the District provided service will alleviate scheduling and other pressure impacts on the drivers and operations side. The District will provide technical assistance and help negotiate contracts between schools and private sector hauler providers.

Waste Assessment & Audits

Name	Start Date	End Date	Goal(s)
Waste Audits	Existing	Ongoing	4

The District completes waste audits for commercial businesses, industries, agricultural operations, and non-profit organizations upon request for no cost. Audits evaluate the waste streams of each business/industry, the current disposal practices and costs, current recycling practices and costs, and provide recommendations for recycling, source reduction, reuse and composting. Audits can be requested via email, telephone, or by responding the Annual Recycling Survey.

From 2020 to the reference year, no audits were requested.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Waste audit manual	2008	Ongoing	4, 5

The District provides a waste audit manual at no cost to commercial businesses, industrial facilities, agricultural operations, and non-profit organizations upon request. These audits assist in evaluating waste streams, current disposal and recycling practices, associated costs, and offer tailored recommendations for improving recycling, source reduction, reuse, and composting efforts. The District completed the Waste Audit Manual in 2008.

In 2021, the District did an internal evaluation of whether the district staff should conduct waste audits, or if the district needs to direct companies to consulting firms.

In 2022, the District was awarded a Community Development Grant of \$44,800 to create a manual for conducting waste and recycling audits for commercial business and other entities (among other outreach initiatives). The updated manual provides an easy step by step guide for conducting self-waste audits.

In 2024, the District expanded access by making the waste audit manuals publicly available on its website for all users.

Target for Next 5-Years: This program will continue through the planning period.

Other Commercial/ Institutional Programs

Name	Start Date	End Date	Goal(s)
Commercial and Industrial Technical Assistance	Existing	Ongoing	4, 5

The District provides resources for the commercial and industrial sector on its website which includes information about grant opportunities, managing special materials such as food or construction waste, office recycling guides, and waste audit manuals. Printed copies of the Waste Audit Manual and Office Recycling Guide were available upon request.

Diversion, source reduction, procurement, and/or assistance to find outlets for special materials are all types of assistance the District may provide.

Target for Next 5-Years: The District will track the number of businesses and type of assistance provided to businesses.

Name	Start Date	End Date	Goal(s)
Commercial/institutional recycling assistance	Existing	Ongoing	3, 4

The District will assist commercial and institutional businesses in starting recycling programs by providing technical assistance such as reviewing contracts, calculating cost benefit analysis, etc.

The District did not track the number of businesses reached.

Target for Next 5-Years: The District will track the number of businesses and type of assistance provided to businesses.

Name	Start Date	End Date	Goal(s)
Develop and promote resources to aid the commercial sector	Existing	Ongoing	4

The District provides online resources for the commercial and industrial sector, including information on grant opportunities, management of special materials (e.g., food and construction waste), office recycling guides, and waste audit manuals.

Target for Next 5-Years: The District will continue to maintain these resources.

INDUSTRIAL SECTOR REDUCTION AND RECYCLING PROGRAMS

Waste Assessment & Audits

Name	Start Date	End Date	Goal(s)
Waste Audits	Existing	Ongoing	4

The District made waste audit manuals available at no cost to commercial businesses, industrial operations, agricultural entities, and non-profit organizations upon request. These manuals are designed to help users evaluate their waste streams, assess current disposal and recycling practices and costs, and identify opportunities for recycling, source reduction, reuse, and composting.

However, no requests for audit manuals were received from 2020 through the reference year.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Waste Audit Manual	2008	Ongoing	4, 5

The District provides a waste audit manual at no cost to commercial businesses, industrial facilities, agricultural operations, and non-profit organizations upon request. These audits assist in evaluating waste streams, current disposal and recycling practices, associated costs, and offer tailored recommendations for improving recycling, source reduction, reuse, and composting efforts. The District completed the Waste Audit Manual in 2008.

In 2021, the District did an internal evaluation of whether the district staff should conduct waste audits, or if the district needs to direct companies to consulting firms.

In 2022, the District was awarded a Community Development Grant of \$44,800 to create a manual for conducting waste and recycling audits for commercial business and other entities (among other outreach initiatives). The updated manual provides an easy step by step guide for conducting self-waste audits.

Target for Next 5-Years: This program will continue through the planning period.

Other Industrial Programs

Name	Start Date	End Date	Goal(s)
Commercial and Industrial Technical Assistance	Existing	Ongoing	4, 5

The District provides online resources for the commercial and industrial sector, including information on grant opportunities, management of special materials (e.g., food and construction waste), office recycling guides, and waste audit manuals. Printed copies of the Waste Audit Manual and Office Recycling Guide are available upon request. District staff also offers on-site waste audits, which could be requested by email, phone, or through the Annual Recycling Survey.

However, no requests were received from 2020 through the reference year.

Target for Next 5-Years: This program will continue through the planning period.

FUNDING/GRANTS

Name	Start Date	End Date	Goal(s)
Community and Litter Grant	Existing	Ongoing	1, 2 and 6

The District received a 2019 Ohio EPA Community and Litter Grant for \$100,000 which was awarded in 2020. The grant funded a contamination reduction project including camera systems, new decals, and signage at select drop-off sites as well as the production of a coloring book for increased outreach. The grant monies were used to:

- 1) Purchase updated decals/signage for the sites to make it clearer which items are acceptable and reduce contamination;
- 2) Install cameras of high dumping sites to catch and cite those who illegally dump;
- 3) Create and distribute a coloring book for continued outreach.

The District applied for another \$100,000 grant for further drop-off program expansion, surveillance, and education, but the Ohio EPA did not award any grants in 2020.

In 2021, the District assisted two partners in applying directly for Community Development Grants (Canton Public Health Department requested \$47,200 for improvements at the Canton Recycle Center, and the Ohio State University Wooster Campus requested \$99,987 for the supplies and equipment needed to implement a campus-wide recycling program). Ohio EPA awarded the funding for both projects.

In 2022, the District was awarded a Community and Litter Grant of \$44,800 to research and further develop the Master Recycler Program curriculum, conduct a recycling drop-off study at the Wooster Buehler's site, and create a manual for conducting waste and recycling audits for commercial business and other entities. The District also assisted the Wayne County Farm Bureau in applying for a Community and Litter Grant for financial assistance with an Agricultural Tire Amnesty Event.

In 2023, the District closed out the 2023 Ohio EPA Community & Litter Grant and applied for the 2024 Ohio EPA Community & Litter Grant which was ultimately awarded.

In 2024, the District submitted a 2025 grant application to the Ohio EPA and closed out the 2024 Ohio EPA Community & Litter Grants. Unfortunately the District was not awarded of the 2025 grant application.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Sheriff Department Grant	Existing	Ongoing	4 and 6

Duties performed by the Sheriff Departments varied by county but included patrolling near landfills, litter enforcement, monitoring the District's drop-off sites, collecting prescription medications deposited at drop boxes at local police stations, assisting with HHW collection events, and conducting litter collection on public roadways with a crew.

The District awarded three Sheriff Department Grants totaling \$285,000 in 2020. The District awarded \$95,000 each to the following: Stark County Sheriff Department, Tuscarawas County Sheriff Department, and Wayne County Sheriff Department. Duties performed by the Sheriff Departments varied by county but included patrolling near landfills, litter enforcement, monitoring the District's drop-off sites, collecting prescription medications deposited at dropboxes at local police stations, assisting with HHW collection events, and conducting litter collection on public roadways with a crew.

In 2020:

- 1157 hours pick up litter
- 15,389 miles of road
- 30.83 tons of trash collected
- 6.44 tons of recyclables collected

The District awarded three Sheriff Department Grants totaling \$285,000 in 2021. The District awarded \$95,000 each to the following: Stark County Sheriff Department, Tuscarawas County Sheriff Department, and Wayne County Sheriff Department. Duties performed by the Sheriff Departments varied by county but included patrolling near landfills, litter enforcement, monitoring the District's drop-off sites, collecting prescription medications deposited at dropboxes at local police stations, assisting with HHW collection events, and conducting litter collection on public roadways with a crew.

In 2021:

- 797 hours pick up litter
- 17,353 miles of road
- 26.43 tons of trash collected
- 21.66 tons of recyclables collected

The District awarded three Sheriff Department Grants totaling \$285,000 in 2022 (\$95,000 to each of the three counties' Sheriff's Offices). Duties performed varied by county but included patrolling near landfills, litter enforcement, monitoring the District's drop-off sites, collecting prescription medications deposited at dropboxes at local police stations, assisting with HHW collection events, and conducting litter collection on public roadways with a crew.

In 2022:

- 555 hours pick up litter
- 14778 miles of road
- 24.13 tons of trash collected
- 15.97 tons of recyclables collected

The District awarded three Sheriff Department Grants totaling \$285,000 in 2023 (\$95,000 to each of the three counties' Sheriff's Offices). Duties performed varied by county but included patrolling near landfills, litter enforcement, monitoring the District's drop-off sites, collecting prescription medications deposited at dropboxes at local police stations, assisting with HHW collection events, and conducting litter collection on public roadways with a crew.

In 2023:

- 609 hours pick up litter
- 11,610 miles of road covered
- 26 tons of trash collected
- 8 tons of recyclables collected

Target for Next 5 Years: Duties of the Sheriff Department will be re-framed for the next planning period. The Sheriff Department will no longer need to collect prescription medications deposited at drop boxes at local police stations. These dropboxes will be removed and the District no longer has a need to maintain these drop boxes. Through District efforts, local pharmacies are offering collection points and managing drug take-back programs.

Name	Start Date	End Date	Goal(s)
Health Department Grant	Existing	Ongoing	1 and 4

Historically the District provided funding in the form of a grant to Ohio EPA approved Health Departments for solid waste inspection, enforcement, and well monitoring. Enforcement is defined as investigating open burning or open dumping cases. All litter complaints/enforcement is usually directed to the District's environmental enforcement officer via the Sheriff Department Grants. Only approved health departments on the Ohio EPA Director's List of Approved Health Departments are eligible. The District awarded:

2020 | 4 Health Department Grants totaling \$325,000

- Stark County Health Department: \$170,000
- Tuscarawas County Health Department: \$85,000
- Wayne County Health Department: \$35,000
- Canton City Health Department: \$35,000

2021 | 4 Health Department Grants totaling \$325,000

- Stark County Health Department: \$170,000
- Tuscarawas County Health Department: \$85,000
- Wayne County Health Department: \$35,000
- Canton City Health Department: \$35,000

2022 | 4 Health Department Grants totaling \$325,000

- Stark County Health Department: \$170,000
- Tuscarawas County Health Department: \$85,000
- Wayne County Health Department: \$35,000
- Canton City Health Department: \$35,000

2023 | 4 Health Department Grants totaling \$325,000

- Stark County Health Department: \$170,000
- Tuscarawas County Health Department: \$85,000
- Wayne County Health Department: \$35,000
- Canton City Health Department: \$35,000

Target for Next 5-Years: The grants to Health Department will be re-framed for the next planning period.

Name	Start Date	End Date	Goal(s)
STW Diversion Grant Program name change from "Recycling and Composting Infrastructure Enhancement Grant"	Existing	Ongoing	1, 2 and 6

The STW Diversion Enhancement Grant is a program that is not currently budgeted for or publicized; rather, the intent of not eliminating the program all together is that the program could be utilized in the case where a company that collects from residential drop-off sites in the District may not be able to provide adequate capacity for the planned programs. Priority would be sponsoring the company for an Ohio EPA Market Development Grant, but if the grant is not awarded and funding were available in the approved budget, the Board could move money into the program. In 2023, the District did not award any grants.

The STW Diversion Grant remains on standby as a strategic backup—not eliminated, but ready to activate if needed. While not currently funded or widely promoted, the program is designed to step in if a company handling residential drop-off collections in the District can't meet future capacity needs.

The District's first priority would be to help such companies pursue an Ohio EPA Market Development Grant. However, if that funding falls through and budget space allows, the Board could allocate resources to support the program directly. Although no grants were awarded in 2024, the program remains a valuable tool the District can deploy when needed.

Target for Next 5-Years: The program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Recycling Makes Sense Grant	Existing	2026	1, 2 and 6

This program is only offered to municipal (cities, villages, and township) programs that are not operated by the District directly with District equipment and staff. Municipal programs are defined as a program that is under contract with a private contractor to provide the service or the program is operated by the municipality directly.

Starting in 2019, the District introduced a different rate structure for its Recycling Makes Sense Grant program wherein grantees received a higher amount if they have a PAYT program or program with a limitation on the amount of trash residents can put out. The hope is that this will serve as an incentive for communities when it comes time for their contracts to be re-bid or renewed.

The District awarded:

- 21 Recycling Makes Sense Grants in 2020. The District paid \$429,671 for recyclable tonnage generated in 2020 to the following communities: Alliance, Baltic, Bolivar, Canal Fulton, Canton, Dennison, Dover, Doylestown, Gnadenhutten, Hartville, Jackson Recycling Station, Marshallville, Massillon, New Philadelphia, North Canton, Orrville, Rittman, Strasburg, Sugarcreek, Uhrichsville, and Wooster.
- 20 Recycling Makes Sense Grants in 2021. The District paid \$367,865.30 for recyclable tonnage generated in 2021 to the following communities: Alliance, Baltic, Bolivar, Canal Fulton, Canton, Dennison, Dover, Doylestown, Gnadenhutten, Hartville, Marshallville, Massillon, New Philadelphia, North Canton, Orrville, Rittman, Strasburg, Sugarcreek, Uhrichsville, and Wooster.
- 20 Recycling Makes Sense Grants in 2022. The District paid \$332,617.95 for recyclable tonnage generated in 2022 to the following communities: Alliance, Baltic, Bolivar, Canal Fulton, Canton, Dennison, Dover, Doylestown, Gnadenhutten, Hartville, Marshallville, Massillon, New Philadelphia, North Canton, Orrville, Rittman, Strasburg, Sugarcreek, Uhrichsville, and Wooster.

Due to increasing appropriations for other District programs (Household Hazardous Waste Management, Yard Waste Management, etc.), the District reduced the expenses of the Recycling Makes Sense Grant Program by restructuring the funding levels to encourage program expansions and enhancements that will achieve greater waste reduction rates while still incentivizing a community's implementation or continuation of a curbside recycling program. Funding tiers were communicated to grantees in the Recycling Makes Sense Grant Agreement were evaluated and adjusted each grant cycle. The rate structure for the District's Recycling Makes Sense Grant program incentivizes grantees to have a PAYT program as they receive a higher amount if they have a program with a limitation on the amount of trash residents can put out. After the funding reduction the following grants were awarded:

- 20 Recycling Makes Sense Grants in 2023. The District paid \$150,000 for recyclable tonnage generated in 2023 to the following communities: Alliance, Baltic, Bolivar, Canal Fulton, Canton, Dennison, Dover, Doylestown, Gnadenhutten, Hartville, Marshallville, Massillon, New Philadelphia, North Canton, Orrville, Rittman, Strasburg, Sugarcreek, Uhrichsville, and Wooster.
- 20 Recycling Makes Sense Grants, distributing \$150,000 to support recyclable tonnage efforts across 20 communities. This marks the final year of the grant in its original form, as it transitions to a reimbursement-based model moving forward.

In 2024, the Recycling Makes Sense grant, originally designed to encourage contracted curbside recycling and increase volume, was restructured into a reimbursement grant. The focus is on quality over quantity; thus funding is now based on population rather than performance metrics. Communities receiving less RMS funding can apply for a reimbursement grant or seek Ohio EPA grants with District support.

Target for Next 5-Years: This grant will not be offered in the next planning cycle.

Name	Start Date	End Date	Goal(s)
Market Grant Promotion and Assistance	Existing	Ongoing	1, 2 and 6

The District continues to promote the Ohio EPA's Market Development Grant within the tri-county area. This includes a dedicated portion of the District's website for recycling grant promotional activities.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Program Start-up Grant	Existing	Ongoing	1, 2 and 6

The District awards funding to be used to start or improve curbside programs, recycling drop-offs and/or yard waste drop-offs, as well as purchase equipment needed to operate the program and structural components needed to complete drop-off sites, such as concrete pads and fencing. The District awarded:

- 6 new Recycling Program Start-Up Grants to communities in 2020 totaling \$142,123.08 (of which, \$124,477.25 was distributed during 2020).
- 6 new Recycling Program Start-Up Grants to communities in 2021 totaling \$102,654 (of which, \$61,971.76 was distributed during 2021). The District also awarded \$29,500 in Program Startup Grant funding for a concrete pad and 12 new recycling bins to develop a new public recycling drop-off site at the OSU Wooster Campus.
- 4 new Recycling Program Start-Up Grants to communities in 2022 totaling \$101,950 (\$25,000 ended up being forfeited).

The District did not award any Program Start-Up grants in 2023. The Board budgeted \$0 initially due to increased costs of required portions of the Plan though they subsequently approved offering a Program Startup Grant to the City of Louisville to incentivize them to move toward a curbside recycling program (they ultimately did not move forward with it).

Target for Next 5-Years: This program will continue through the planning period. For large communities, the District will offer up to \$2,500 in grants for communities to include curbside in the waste collection request for proposals. If the automatic curbside program option is selected the community may receive up to \$10,000.

Name	Start Date	End Date	Goal(s)
Host Community Grant Program name change from "Recycling Drop-off Clean-Up / Host Community Grant"	Existing	Ongoing	1, 2 and 6

The District continues to utilize Host Communities to assist with the clean-up and operation of recycling drop-off sites. Host Communities also help the District determine if a change in service frequency or container placement is necessary.

At the beginning of 2018, the District transitioned to an Annual Host Community Cleanup Signoff Form instead of having the host sites submit their hours worked quarterly. The signoff form includes the following language:

“Program participants receive up to \$2,500 annually for the purpose of cleaning up or maintaining targeted sites such as high-volume sites or sites with significant dumping. Expenses associated with hosting a site can include hours worked cleaning up the site, cost for disposing of nonrecyclable items dumped at the site, and cost for maintaining the site such as hours worked, materials purchased, or equipment used fixing potholes, spreading gravel, etc. The amount will be paid annually upon completing this sign off form and can be used toward any of these expenses throughout the year.”

The District awarded:

- 49 Host Community Cleanup grants totaling \$122,500 in 2020.
- 49 Host Community Cleanup grants totaling \$122,500 in 2021.
- 46 Host Community Cleanup grants totaling \$115,000 in 2022.
- 45 Host Community Cleanup grants totaling \$112,500 in 2023.

The Host Community Cleanup Grant got a major upgrade in 2024—now operating as a reimbursement-based program that rewards real, on-the-ground improvements at cleanup sites. This shift ensures funding goes directly toward meaningful results, with a continued top priority on resident safety and community well-being.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Pay-As-You-Throw Grants	Existing	2025	1, 2 and 6

This grant option is a part of the Program Start-Up Grant program and is not considered a standalone program. Grant requests under the Program Start-Up Grant may include funding for automated carts, PAYT program start-up, and ton limits based on a scale to give incentive for higher performance.

The District can also offer Program Startup Grants to communities to support existing PAYT programs, which could include assistance purchasing equipment or carts for automated pickup, or help them to implement a PAYT program. In 2019, the District did assist the City of New Philadelphia to purchase a new recycling truck with a cart tipper on the back through this grant program with the hopes that they might move to wheeled carts for increased safety and recovery rates in the future.

From 2020-2023 no new community requests.

At the close of 2024, the District gave the Recycling Makes Sense Grant a bold new direction—restructuring it into a reimbursement-based program that puts accountability and impact front and center. This change ensures funding directly supports communities that deliver real recycling results.

Target for Next 5-Years: This program will not continue through the planning period.

RESTRICTED/DIFFICULT TO MANAGE WASTES

Name	Start Date	End Date	Goal
Canton Recycling Center	Existing	Ongoing	6

The Stark-Tuscarawas-Wayne Recycling District, along with the City of Canton, runs a household hazardous waste collection at the Canton Recycle Center.

The Canton Recycling Center accepts the following restricted and difficult to manage materials:

- Appliances
- Lead Acid Batteries
- Computer/Electronics
- HHW
- Scrap tires (residential only, maximum 10 tires at a time)

Other materials accepted:

- Residential recyclables
- Scrap metal

Appointments are required. Users must sign up with the online scheduling link found on the District's webpage. The Canton Recycle Center is open on Tuesdays and Fridays from 9am-3pm unless holiday hours apply.

In 2024, the District ended the contract with Midwest Comtel and signed a new one with Summit E-Waste for processing.

Target for Next 5-Years: Implement AI-assisted appointment scheduling to improve participation flow; target a 20% increase in scheduled appointments and reduced wait times.

Name	Start Date	End Date	Goal(s)
Computer/Electronics Recycling End Use Audit	Existing	2024	6

The Responsible Recycling (R2) Leader program was designed to advance the safe, responsible, and sustainable repair and recycling of used electronics. The District met with Goodwill Industries to identify how electronics are managed after collection. Goodwill, which is R2 certified, meets the latest standards in terms of environmental health and safety regarding e-waste recycling. The District may monitor this and other locations it promotes as accepting these items to ensure they are managed properly after collection.

Target for Next 5-Years: This program will not continue.

Name	Start Date	End Date	Goal(s)
Work with Communities to Conduct their Own E-Waste Events	2022	Ongoing	6

The District offers support to communities/organizations wishing to host electronics collection events for their residents. The District organizes events, vendors, and establishes the locations within the community. Coordination of the advertising is also provided.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
HHW Pop-up Events Collection	2022	Ongoing	6

The District evaluates pop-up events in Tuscarawas and Wayne County that could be added as needed if funding is available. This initiative will be conducted as an evaluation and decision point on an annual basis though may be evaluated a second time closer to the end of the year to check in on how much funding remains and how it would be best utilized for the remainder of the year without going overbudget. These events could also assist the District to establish partnerships in the local region that could lead to a permanent site and partnership.

Criteria for determining whether to conduct pop-up collection events include:

- Budgetary availability
- Fairground schedule/location availability
- Partnership schedule/staff availability
- Attendance
- Time of year

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Food Waste Management Program	Existing	Ongoing	6

The District encourages in-home and backyard composting on the website and with brochure handouts. There is one private-owned and operated compost facility in Wayne County which accepts food scraps. There is one private-owned and operated compost facility in Stark County which accepts food scraps.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Yard Waste Collection Sites	Existing	2026	6

The District will continue to operate the yard waste collection program. The District may provide grants to political subdivisions to offset the costs of operating a yard waste drop-off site. Funding level is primarily based upon prior years' hauling expenses. Sites must be open to all District residents to receive funding.

In 2024, the District continued its Yard Waste Block Grant program to support host sites operating recycling and yard waste drop-off locations but announced the phase-out of these grants by Dec. 31, 2025.

Target for Next 5-Years: This program will not continue. The District will watch the markets and may reassess if conditions improve pending budgetary availability and efficiency of potential program.

Name	Start Date	End Date	Goal(s)
Yard Waste Partnership Program	Existing	Ongoing	6

The District directs residents with yard waste to private sector facilities or locally managed township and village sites willing to accept the material (some at no cost) in all three counties. The District will continue

exploring partnerships/promoting these facilities as the markets evolve. The District would like for the private owned and operated facilities to take yard waste materials directly from residents. The District will:

- Identify the best organics management facility(s) in each of three counties of the District that can accept materials directly from residential generators.
- Develop a working relationship with the owner and or operator of each site.
- Develop an agreement between each facility as to what services, products, waste streams and or materials they are willing to accept from residents and conditions of delivery.
- Work with each facility to ensure the details of their operations are promotable to residents via the engagement platforms used by the District.
- Make available to District engagement platform subscribers the opportunities each facility provides to the community.
- Expand to other facilities as appropriate.

Target for Next 5-Years: This program will not continue.

Name	Start Date	End Date	Goal(s)
Incentivize Yard Waste Site Privatization	2022	2025	6

The District incentivizes site privatization by offering funding infrastructure necessary for a township or village yard waste collection site to privatize.

This initiative was completed in 2025 by adjusting the appropriate District grant program to allow for this funding. Promotion of this grant was conducted through existing communication initiatives utilized by the District.

Target for Next 5-Years: This program will not continue.

Name	Start Date	End Date	Goal(s)
Transition Yard Waste Drop-off Sites to Existing or New Private Sector Site	2022	2025	6

The District transitioned District funded drop-off sites to township or village operated sites. This initiative was completed in 2025.

Target for Next 5-Years: This program will not continue.

Name	Start Date	End Date	Goal(s)
Pharmaceutical Collection	Existing	2026	6

Multiple prescription drug collection boxes are maintained across each county within the District. The District provides funding through a Sheriff's grant to provide Sheriff's Deputy to provide for weekly collection and disposal of the prescription drugs in Stark and Tuscarawas Counties through drug take back bins located at the majority local police departments. The District also provides funding to promote the DEA collection events. The program is currently under evaluation to assess its efficiency and alignment with local DEA-sponsored collection initiatives.

Target for Next 5-Years: Local pharmacies are taking pharmaceuticals in their take-back programs. This provides more convenient access than the District's program. This program will not continue.

Explore If DEA May Be Willing To Incinerate Drugs

A new initiative by the District is to explore if DEA may be willing to incinerate drugs collected at drop boxes as well as those collected at DEA collection event(s), reducing disposal cost. This initiative will be conducted as an evaluation and decision point on an annual basis.

Exciting developments are also underway with the prescription drug drop box program. In partnership with local Sheriff's Offices, the District is evaluating its long-term effectiveness and sustainability. The aim? To cut down on contamination and misuse, and establish a cost efficient and cost effective collection method with the DEA, StarkMAHR, and other stakeholders.

Target for Next 5-Years: This program will not continue.

Encourage Stark County Officials To Participate In DEA Takeback Day

The District encourages Stark County officials to participate in DEA takeback day for program consistency and cost reduction. This initiative will be conducted as an evaluation and decision point on an annual basis.

The District provides funding to promote the DEA collection events. The program is currently under evaluation to assess its efficiency and alignment with local DEA-sponsored collection initiatives.

Target for Next 5-Years: This program will not continue.

Name	Start Date	End Date	Goal(s)
Scrap Tire Collection	Existing	Ongoing	6

There are four residential scrap tire drop-off sites.

- Wooster collects tires, managed by the Wayne County Health Department
- Massillon collects tires, managed by the Massillon Street Department
- Canton Recycling Center collects tires, managed by the City of Canton
- New Philadelphia collects tires, managed by New Philadelphia Health Department

Additionally, there is a special, EPA-funded program which accepts tires for a nominal fee. All of the locations mentioned above, except for Massillon offer this EPA program. Canton Township in Stark County offers the EPA-funding program.

All scrap tire drop-off sites are available by appointment only, except for Massillon which is available during the street department hours of operation.

In 2021, the residential scrap tire drop-off site at Goodwill Industries was discontinued (upon their request). Since the next nearest District-sponsored site is in Massillon, the District collected fewer tires in Wayne County; however, the Wayne County Health Department stepped in and created an appointment-based drop-off site as well as an EPA dumped tire collection site.

The District operates permanent scrap tire collection sites and the tire pass program for local municipalities to properly manage illegally dumped tires collected.

2020:

Permanent Scrap Tire Collection Sites:

- Stark County: 283.57 tons
- Tuscarawas County: 171.53tons
- Wayne County: 24.41tons
- **Total: 479.51 tons**

Ohio EPA's Consensual Scrap Tire Remediation Program:

- 148 tons

2021:

Permanent Scrap Tire Collection Sites:

- Stark County: 181.59tons
- Tuscarawas County: 171.53tons
- Wayne County: 24.41tons
- **Total: 377.53 tons**

Ohio EPA's Consensual Scrap Tire Remediation Program:

- 148 tons of tires were collected through this program.

2022:

Permanent Scrap Tire Collection Sites:

- Stark County: 150.92tons
- Tuscarawas County: 109.65tons
- Wayne County: 27.14tons
- Taken directly to the District's tire processor (Liberty Tire) through the tire pass program: 43.52 tons

Ohio EPA's Consensual Scrap Tire Remediation Program:

- 179.92 tons

2023:

Permanent Scrap Tire Collection Sites:

- Stark County: 129.88 tons
- Tuscarawas County: 25.01 tons
- Wayne County: 26.22 tons

Target for Next 5-Years: This program will continue through the planning period.

OTHER PROGRAMS

Name	Start Date	End Date	Goal(s)
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Audit Committee	Existing	Ongoing	N/A
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The District Audit Committee meets to review the financial affairs of the District. The Audit Committee consists of three members of the Board of Directors, two Policy Committee members, the Executive Director, the Finance Director, and the District's legal counsel.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal
ADR Data Collection	Existing	Ongoing	1

The District continues to annually survey commercial and industrial waste generators using an online survey platform. Letters are mailed to brokers, industries, commercial and institutional entities, and businesses and organizations that accept special materials for recycling such as electronics, textiles, and appliances. The letters direct survey recipients to a web address where the survey could be completed online.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Disaster Debris Management	2010	Ongoing	1 and 4

The District developed a policy for managing disaster debris events in 2010. A copy of the document can be found on our website: www.timetorecycle.org.

Target for Next 5-Years: This program will continue through the planning period.

APPENDIX J

REFERENCE YEAR OPPORTUNITY TO RECYCLE AND DEMONSTRATION OF ACHIEVING GOAL 1

Appendix J.

Reference Year Opportunity to Recycle and Demonstration of Achieving Goal 1

A. Residential Sector Opportunity to Recycle

The 2020 State Solid Waste Management Plan requires SWMD's to demonstrate adequate infrastructure to provide at least 80% of the residential population in a County with convenient opportunities to recycle. The SWMD must demonstrate one of the following:

- a. Demonstrate that there was adequate infrastructure in the reference year to provide at least 80% of the residential population within Stark, Tuscarawas, and Wayne Counties the opportunity to recycle.
- b. Demonstrate that the SWMD will implement new and/or upgraded recycling infrastructure sufficient to provide at least 80% of the residential population within Stark, Tuscarawas, and Wayne Counties the opportunity to recycle.
- c. Apply for a waiver from Ohio EPA to provide less than 80% of the residential population with opportunities to recycle.

Additionally, the SWMD must:

- 1) Demonstrate that the SWMD will meet the applicable standards established in the Format for the remainder of the planning period.
- 2) Calculate the solid waste reduction and recycling rate for the residential/commercial sector. If less than 25% in the reference year, then demonstrate achieving annual increases during the planning period in the solid waste reduction and recycling rate for the residential/commercial sector.
- 3) Demonstrate that commercial and institutional generators of solid waste have adequate opportunities to recycle solid waste.
- 4) Demonstrate that the SWMD will encourage participation in available recycling infrastructure.
- 5) Demonstrate that the SWMD will maintain the required infrastructure throughout the entire planning period.

Technical elements of the demonstration include:

- 1) Components of the residential recycling infrastructure must collect at least 5 materials from the list of materials specified in Solid Waste Plan Format 4.2.
- 2) The SWMD must demonstrate that the commercial sector has adequate opportunities to collect at least 5 materials from a specified list in Solid Waste Plan Format 4.2.
- 3) Solid Waste Plan Format 4.2 will specify the "credits" for various types of infrastructure. The amount of the credit assigned is dependent upon the type of recycling service being provided.
 - Non-Subscription Curbside Recycling: Credit the entire population of each community.
 - Subscription Curbside Recycling: Credit 25% of the community population.
 - Full-Time Urban Drop-off Recycling: Credit 5,000.
 - Full-Time Rural Drop-off Recycling: Credit 2,500.
 - Part-Time Urban Drop-off Recycling: Credit 2,500.
 - Part-Time Rural Drop-off Recycling: Credit 2,500.
- 4) The following minimum standards apply to drop-offs:

- Residents can easily find and access the recycling site.
- All drop-off sites must provide a minimum of 6-cubic yards of recycling capacity.
- There are signs that are adequate to, at a minimum:
 - i. Direct the public to the recycling site or indicates the location of the site;
 - ii. Lists the materials that are accepted for recycling; and
 - iii. Provide days and hours of operation.
- The SWMD has made a reasonable attempt to meet the demand of the population to use drop-off recycling sites.

5) "Credit" for infrastructure is limited to the total population of a township or city.

Table J-1 Opportunity to Recycle

Stark County					
ID #	Name of Community (City, Village, Township)	2023		2036	
		Community Population	Population Credit	Community Population	Population Credit
Non-subscription curbside					
NSC-1	City of Alliance	21,525	21,525	20,142	20,142
NSC-2	City of Canal Fulton	5,333	5,333	4,990	4,990
NSC-3	City of Canton	69,197	69,197	64,750	64,750
NSC-4	Village of Hartville	3,385	3,385	3,167	3,167
NSC-5	Village of Hills and Dales	245	245	229	229
NSC-6	City of North Canton	17,637	17,637	16,504	16,504
NSC-21	City of Louisville	0	0	9,077	9,077
Subscription curbside					
SC-1	City of Massillon	32,439	8,110	30,354	7,589
SC-2	City of Louisville	9,700	2,425	0	0
SC-3	Navarre Village	1,805	Non-credible	1,689	Non-credible
SC-4	Bethlehem Township	3,726	932	3,487	872
SC-5	Village of Meyers Lake	721	180	675	169
SC-6	Canton Township	11,776	2,944	11,019	2,755
SC-7	Jackson Township	42,959	10,740	40,198	10,050
SC-8	Lake Township	26,914	6,729	25,184	6,296
SC-9	Lawrence Township	8,198	2,050	7,671	1,918
SC-10	Lexington Township	4,909	Non-credible	4,594	Non-credible
SC-11	Marlboro Township	4,252	1,063	3,979	995
SC-12	Nimishillen Township	9,284	Non-credible	8,687	Non-credible
SC-13	Village of East Canton	1,509	377	1,412	353
SC-14	Osnaburg Township	3,954	Non-credible	3,700	Non-credible
SC-15	Village of Minerva	3,701	Non-credible	3,463	Non-credible
SC-16	Paris Township	3,720	Non-credible	3,481	Non-credible
SC-17	Perry Township	28,151	7,038	26,342	6,585
SC-18	Village of East Sparta	743	186	695	174
SC-19	Pike Township	3,076	Non-credible	2,878	Non-credible
SC-20	Plain Township	35,387	8,847	33,113	8,278
SC-21	Village of Magnolia	1,014	254	949	237
SC-22	Village of Waynesburg	919	230	860	215
SC-23	Sandy Township	1,899	475	1,777	444
SC-24	Village of Beach City	923	231	864	216
SC-25	Village of Brewster	2,103	526	1,968	492
SC-26	Village of Wilmot	280	70	262	66
SC-27	Sugar Creek Township	3,190	Non-credible	2,985	Non-credible
SC-28	Tuscarawas Township	5,784	1,446	5,412	1,353

Stark County

ID #	Name of Community (City, Village, Township)	2023		2036	
		Community Population	Population Credit	Community Population	Population Credit
SC-29	Washington Township	4,419	1,105	4,135	1,034
Full-time, urban drop-off					
FTU-1	Alliance Recycling Center	21,525	Non-credible	20,142	Non-credible
FTU-2	City of Canton	69,197	Non-credible	64,750	Non-credible
FTU-3	Canton Township (Township Building)	11,776	5,000	11,019	5,000
FTU-4	Jackson Township (Middle School)	42,959	5,000	40,198	5,000
FTU-5	Jackson Township (Parks Maint. Facility)	42,959	5,000	40,198	5,000
FTU-6	Jackson Township (Real Hope Church)	42,959	5,000	40,198	5,000
FTU-7	Jackson Township (Strausser Elementary)	42,959	5,000	40,198	5,000
FTU-8	Lake Township (Hartville Village)	26,914	5,000	25,184	5,000
FTU-9	Lake Township (Recycling Station)	26,914	5,000	25,184	5,000
FTU-10	Lawrence Township (Service Center)	8,198	5,000	7,671	5,000
FTU-11	Lexington Township (Fire Station #2)	4,909	5,000	4,594	5,000
FTU-12	City of Louisville (Louisville Service Center)	9,700	5,000	9,077	Non-credible
FTU-13	City of Massillon (City Garage)	32,439	5,000	30,354	5,000
FTU-14	City of Massillon (Recreation Center)	32,439	5,000	30,354	5,000
FTU-15	Village of Minerva (Paris Township)	3,701	5,000	3,463	5,000
FTU-16	Village of Navarre (Village Hall)	1,805	5,000	1,689	5,000
FTU-17	Nimishillen Township (Anthony Petitti Garden)	9,284	5,000	8,687	5,000
FTU-18	Nimishillen Township (Township Hall)	9,284	5,000	8,687	5,000
FTU-19	Osnaburg Township (Fire Station)	3,954	5,000	3,700	5,000
FTU-20	Paris Township (Service Center)	3,720	5,000	3,481	5,000
FTU-21	Perry Township (Garage)	28,151	5,000	26,342	5,000
FTU-22	Perry Township (Administration Building)	28,151	5,000	26,342	5,000
FTU-23	Perry Township (Recycling Station)	28,151	5,000	26,342	5,000
FTU-24	Plain Township (Diamond Park)	35,387	5,000	33,113	5,000
FTU-25	Plain Township (Easton St)	35,387	5,000	33,113	5,000
FTU-26	Plain Township (First Friends)	35,387	5,000	33,113	5,000
FTU-27	Plain Township (Saint Michael Church)	35,387	5,000	33,113	5,000
FTU-28	Sugar Creek Township - Village of Beach City (Behind Police Department)	3,190	5,000	2,985	5,000
FTU-29	Sugar Creek Township - Village of Brewster (Street Department)	3,190	Non-credible	2,985	Non-credible
FTU-30	Tuscarawas Township (Township Office)	5,784	5,000	5,412	5,000
Part-time, urban drop-off					
PTU-1	Canton Recycle Center	69,197	Non-credible	64,750	Non-credible
Full-time, rural drop-off					
FTR-10	Marlboro Township (Service Center)	4,252	2,500	3,979	2,500
FTR-15	Pike Township (Fire Station)	3,076	2,500	2,878	2,500
FTR-16	Pike Township (Township Office)	3,076	2,500	2,878	2,500
FTR-19	Sandy Township (Administrative Building)	1,899	2,500	1,777	2,500
FTR-22	Sandy Township (Village of Magnolia)	1,899	Non-credible	1,777	Non-credible
FTR-25	Washington Township (Township Office)	4,419	2,500	4,135	2,500
Part-time, rural drop-off					
	None				
Mixed municipal waste material recovery facility					
	None				
Total County Population		374,777		350,691	
Total Population Credit		320,776		311,447	
Percent of Population		86%		89%	

Note: County population adjusted per Ohio EPA Format 4.2 Guidelines (see Appendix C for explanation).

Tuscarawas County

ID #	Name of Community (City, Village, Township)	2023		2036	
		Community Population	Population Credit	Community Population	Population Credit
Non-subscription curbside					
NSC-7	Village of Baltic	826	826	773	773
NSC-8	Village of Bolivar	965	965	903	903
NSC-9	Village of Dennison	2,653	2,653	2,482	2,482
NSC-10	City of Dover	12,985	12,985	12,150	12,150
NSC-11	Village of Gnadenhutten	1,209	1,209	1,131	1,131
NSC-12	City of New Philadelphia	17,440	17,440	16,319	16,319
NSC-13	Village of Strasburg	2,753	2,753	2,576	2,576
NSC-14	Village of Sugarcreek	2,331	2,331	2,181	2,181
NSC-15	City of Uhrichsville	5,155	5,155	4,824	4,824
Subscription curbside					
	None				
Full-time, urban drop-off					
FTU-31	City of Dover (Parkside Buehlers)	12,985	Non-credible	12,150	Non-credible
FTU-32	Lawrence Township (Bolivar Giant Eagle)	4,729	Non-credible	4,425	Non-credible
FTU-33	City of New Philadelphia (Buehlers)	17,440	Non-credible	16,319	Non-credible
FTU-34	Village of Newcomerstown (Water Works)	3,646	Population switches from urban to rural	3,412	Population switches from urban to rural
Part-time, urban drop-off					
	None				
Full-time, rural drop-off					
FTR-8	Dover Township (Kimble)	4,168	2,500	3,900	2,500
FTR-9	Fairfield Township (Township Building)	1,485	2,500	1,390	2,500
FTR-10	Franklin Township - Strasburg (Kraus Pizza)	2,029	2,500	1,899	2,500
FTR-11	Jefferson Township (Township Garage)	786	2,500	735	2,500
FTR-12	Mill Township	2,020	2,500	1,890	2,500
FTR-13	Perry Township (West Chester Community)	436	2,500	408	2,500
FTR-14	Sandy Township (Township Building)	2,308	2,500	2,160	2,500
FTR-15	Village of Sugarcreek (Baker's IGA)	2,331	Non-credible	2,181	Non-credible
FTR-16	Warwick Township (Community Center)	1,699	2,500	1,590	2,500
FTR-17	Washington Township (Township Garage)	755	2,500	706	2,500
FTR-18	Wayne Township (Township Building)	2,401	2,500	2,247	2,500
FTR-19	Mill Township (Township Garage)	2,020	Non-credible	1,890	Non-credible
FTR-30	Village of Newcomerstown (Water Works)	3,646	2,500	3,412	2,500
Part-time, rural drop-off					
	None				
Mixed municipal waste material recovery facility					
	None				
Total County Population		92,045		88,120	
Total Population Credit		73,817		70,840	
Percent of Population		80%		80%	

Note: County population adjusted per Ohio EPA Format 4.2 Guidelines (see Appendix C for explanation).

Wayne County

ID #	Name of Community (City, Village, Township)	2023		2036	
		Community Population	Population Credit	Community Population	Population Credit
Non-subscription curbside					
NSC-16	Village of Doylestown	3,053	3,053	2,857	2,857

Wayne County

ID #	Name of Community (City, Village, Township)	2023		2036	
		Community Population	Population Credit	Community Population	Population Credit
NSC-17	Village of Marshallville	790	790	739	739
NSC-18	City of Orrville	8,422	8,422	7,881	7,881
NSC-19	City of Rittman	6,105	6,105	5,713	5,713
NSC-20	City of Wooster	27,030	27,030	25,293	25,293
Subscription curbside					
	None				
Full-time, urban drop-off					
FTU-35	Chippewa Township (Village of Doylestown)	6,758	5,000	6,324	5,000
FTU-36	Village of Apple Creek (East Union Township)	5,777	5,000	5,406	5,000
FTU-37	City of Orrville (Buehler's Fresh Foods/Green Township)	3,454	Population switches from urban to rural	3,232	Population switches from urban to rural
FTU-38	Congress Township (Service Department)	2,891	Population switches from urban to rural	2,705	Population switches from urban to rural
FTU-39	Village of Dalton (Sugar Creek Township)	5,233	5,000	4,897	5,000
FTU-40	Village of Kidron (Lehman Hardware and Appliances/Sugar Creek Township)	5,233	5,000	4,897	5,000
FTU-41	Village of Smithville (Sam's Pizza & Heroes/Green Township)	3,454	Population switches from urban to rural	3,232	Population switches from urban to rural
FTU-42	City of Wooster (Buehler's)	27,030	Non-credible	25,293	Non-credible
FTU-43	Wooster Township (Valley College Grange)	4,598	Population switches from urban to rural	4,302	Population switches from urban to rural
FTU-44	Wooster Township (OARDC)	4,598	Population switches from urban to rural	4,302	Population switches from urban to rural
Part-time, urban drop-off					
	None				
Full-time, rural drop-off					
FTR-20	Baughman Township (Recycling Drop Off)	2,985	2,500	2,793	2,500
FTR-21	Chester Township (Northwestern Elementary School)	3,025	2,500	2,831	2,500
FTR-22	Congress Township - Village of West Salem	2,891	2,500	2,705	2,500
FTR-23	Village of Creston (Canaan Township)	2,759	2,500	2,582	2,500
FTR-24	Franklin Township (Township Hall)	4,228	2,500	3,956	2,500
FTR-25	Milton Township (Township Garage)	2,955	2,500	2,765	2,500
FTR-26	Paint Township (Service Center)	3,304	2,500	3,092	2,500
FTR-27	Plain Township (Township Garage)	3,067	2,500	2,870	2,500
FTR-28	Salt Creek Township - Village of Fredericksburg (Elementary School)	4,092	2,500	3,829	2,500
FTR-29	Wayne Township (Township Garage)	4,008	2,500	3,750	2,500
FTR-30	City of Orrville (Buehler's Fresh Foods/Green Township)	3,454	2,500	3,232	2,500
FTR-31	Congress Township (Service Department)	2,891	2,500	2,705	2,500
FTR-32	Village of Smithville (Sam's Pizza & Heroes/Green Township)	3,454	2,500	3,232	2,500
FTR-33	Wooster Township (Valley College Grange)	4,598	2,500	4,302	2,500
FTR-34	Wooster Township (OARDC)	4,598	2,500	4,302	2,500
Part-time, rural drop-off					
	None				

Wayne County					
ID #	Name of Community (City, Village, Township)	2023		2036	
		Community Population	Population Credit	Community Population	Population Credit
Mixed municipal waste material recovery facility					
	None				
Total County Population		116,709		112,629	
Total Population Credit		102,900		99,982	
Percent of Population		88%		89%	

Per Ohio EPA, “credit” for infrastructure in a community is limited to the population of an entire community, up to and including the entire credit for a drop-off that would be needed to achieve providing 100% of the residential population with access to recycling infrastructure. In other words, once a community achieves 100% of the population recycling infrastructure credit no additional population credit can be added. Communities with non-subscription curbside recycling count for 100% of population credit. Adding additional drop-off recycling does not result in additional population credits for those areas with 100% access.

B. Commercial Sector Opportunity to Recycle

Table J-2 Demonstration of Commercial Opportunity to Recycle

Service Provider	Type of Recycling Service Provided	Cardboard	Newspaper	Mixed Paper	Steel Containers	Aluminum Containers
Cardinal Waste Service	Curbside	X	X	X	X	X
Kimble Companies	Curbside	X	X	X	X	X
WM	Curbside	X	X	X	X	X
Republic Services	Curbside	X	X	X	X	X
Rumpke	Curbside	X	X	X	X	X

The SWMD obtains data for commercial infrastructure to meet Goal 1 from recycling services that offer collection to commercial/industrial generators throughout the county. All five service providers above met the minimum material requirements: cardboard, newspaper, mixed paper, steel containers, aluminum cans.

C. Demonstration of Meeting Other Requirements for Achieving Goal 1

1. Residential/Commercial Waste Reduction and Recycling Rate

To achieve Goal 1 the SWMD must demonstrate that the District achieved 25% residential/commercial waste reduction and recycling rate or that the District will achieve annual reduction rate increases during the planning period. Appendix K calculates the residential/commercial solid waste reduction and recycling rate for the reference year and planning period. The recycling rate in the reference year was 25%. However, the District projects a gradual decline in recycling rates to 23% over the planning period.

Annual recovery tonnages fluctuate, with an average year-to-year decrease of approximately 4%. As described in Appendix E, 36% of the reported diversion is from the Ohio EPA Compost Report, which varies significantly each year. The 2023 recovery total increased by approximately 31,000 tons, largely due to a 22,000-ton increase in compost data compared to the prior year. This spike is expected to normalize to historical levels. Additionally, a declining population is projected to contribute to a slight decrease in total diversion over time.

2. Encouraging Participation

The District will continue to encourage residents and commercial generators to participate in existing recycling infrastructure. Appendices I and L provide more detail on education and outreach programs anticipated within the planning period.



APPENDIX K

WASTE REDUCTION AND RECYCLING RATES AND DEMONSTRATION OF ACHIEVING GOAL 2

Appendix K.

Waste Reduction and Recycling Rates and Demonstration of Achieving Goal 2

GOAL 2: WASTE REDUCTION AND RECYCLING RATES

The District shall reduce and recycle at least 25% of the solid waste generated by the residential/commercial sector.

In accordance with the 2020 State Solid Waste Management Plan, the District has elected to demonstrate compliance with Goal 2, which pertains to achieving and maintaining a residential/commercial waste reduction and recycling rate of at least 25%. The methodology and results for this goal demonstration are detailed in Appendix K.

Table K-1 Residential/Commercial Annual Rate of Waste Reduction

Year	Population	Recycled	Disposed	Total Generated	Waste Reduction & Recycling Rate (%)	Per Capita Waste Reduction & Recycling Rate (ppd)
2023	583,531	176,275	533,468	709,742	25%	1.66
2024	580,994	177,063	538,895	715,958	25%	1.67
2025	578,468	176,720	544,378	721,098	25%	1.67
2026	575,954	176,380	549,917	726,297	24%	1.68
2027	573,452	176,043	555,512	731,555	24%	1.68
2028	570,961	175,709	561,163	736,873	24%	1.69
2029	568,481	175,379	566,873	742,251	24%	1.69
2030	566,013	175,051	572,640	747,691	23%	1.69
2031	563,556	174,726	578,466	753,193	23%	1.70
2032	561,111	174,405	584,352	758,757	23%	1.70
2033	558,676	174,087	590,297	764,384	23%	1.71
2034	556,253	174,087	590,297	764,384	23%	1.71
2035	553,841	174,087	590,297	764,384	23%	1.72
2036	551,440	174,087	590,297	764,384	23%	1.73

Note: Numbers are rounded to the nearest whole number.

ppd stands for pounds per person per day

Source(s):

Population – Appendix C, Table C-1

Recycled – Appendix E, Table E-8

Disposed – Appendix D, Table D-3

Calculation(s):

- Total Generated = Recycled + Disposed
- Waste Reduction & Recycling Rate = Recycled / Total Generated
- Per Capita Waste Reduction & Recycling Rate = (Recycled x 2000 lbs/ton) / (Population x 365 days)

In the reference year, the District achieved a 25% residential/commercial waste reduction and recycling rate, meeting the State Plan's Goal 2 requirement. Projections indicate the District will maintain or exceed the 25% target through 2025.

However, starting in 2026, the projected diversion rate declines slightly to 24%, and further decreases to 23% by 2031, which is maintained through the remainder of the planning period. These projections are based on current trends and program performance, and have been flatlined from the seventh year (2033) to reflect a stable, long-term rate in the absence of significant programmatic or population changes.

In the District's 2023 Plan, the reference year (2019) waste reduction and recycling rate was 30%, with a projected decline to 27% by the end of 2032. That plan estimated between 216,000 and 219,000 tons of residential/commercial waste would be reduced or recycled annually. However, in the current Plan's reference year (2023), approximately 34,000 fewer tons were diverted than projected. This shortfall in recycled tonnage accounts for the observed decline in the recycling rate.

Table K-2 Industrial Annual Rate of Waste Reduction

Year	Waste Reduced and Recycled (tons)	Waste Disposed (tons)	Non-Recyclable Waste	Waste Generated (tons)	Waste Reduction and Recycling Rate (percent)
2023	751,984	422,220	0	1,174,205	64%
2024	748,211	434,929	0	1,183,140	63%
2025	744,457	448,021	0	1,192,478	62%
2026	740,723	461,506	0	1,202,229	62%
2027	737,009	475,397	0	1,212,406	61%
2028	733,314	489,707	0	1,223,021	60%
2029	733,314	504,447	0	1,237,761	59%
2030	733,314	519,631	0	1,252,945	59%
2031	733,314	535,272	0	1,268,586	58%
2032	733,314	551,384	0	1,284,698	57%
2033	733,314	567,980	0	1,301,295	56%
2034	733,314	567,980	0	1,301,295	56%
2035	733,314	567,980	0	1,301,295	56%
2036	733,314	567,980	0	1,301,295	56%

Note: Numbers are rounded to the nearest whole number.

Source(s):

Recycled – Appendix F, Table F-5

Disposed – Appendix D, Table D-3

Calculation(s):

- Total Generated = Recycled + Disposed
- Waste Reduction & Recycling Rate = Recycled / Total Generated

The Ohio EPA 2020 State Plan no longer requires Solid Waste Management Districts to demonstrate the industrial sector percentage goal of 66% diverted waste.

Table K-3 Total Solid Waste Annual Rate of Waste Reduction

Year	Waste Reduced and Recycled (tons)	Waste Disposed (tons)	Waste Generated (tons)	Waste Reduction and Recycling Rate (percent)
2023	928,259	955,688	1,883,947	49%
2024	925,273	973,825	1,899,098	49%
2025	921,177	992,399	1,913,575	48%
2026	917,103	1,011,423	1,928,526	48%
2027	913,052	1,030,909	1,943,961	47%
2028	909,024	1,050,870	1,959,894	46%
2029	908,693	1,071,320	1,980,013	46%
2030	908,365	1,092,271	2,000,636	45%
2031	908,041	1,113,738	2,021,779	45%
2032	907,719	1,135,735	2,043,455	44%
2033	907,401	1,158,277	2,065,678	44%
2034	907,401	1,158,277	2,065,678	44%
2035	907,401	1,158,277	2,065,678	44%
2036	907,401	1,158,277	2,065,678	44%

Note: Numbers are rounded to the nearest whole number.

Source(s):

Recycled – Appendix E, Table E-8; Appendix F, Table F-5

Disposed – Appendix D, Table D-3

Sample Calculation(s):

Total Generated = Recycled + Disposed

Waste Reduction & Recycling Rate = Recycled / Total Generated

Overall, in comparing the 2023 Plan projections to the actual data, less material was generated than was predicted. The previous plan projected the total recycling rate of the District to reach about 55% during the planning period, whereas this plan predicts the District will reach about 44%. The following table highlights the differences between this plan's projections and the previous 2023 Plan.

Table K-4 Plan Projection Comparison

Sector	Material	Projections Compared to 2023 Plan	Sector Outcome
Residential/ Commercial	Recycling Tons	↓ Small decrease in projected tons	↓ Decrease in projected recycling rate
	Disposed Tons	↓ Medium decrease in projected tons	
Industrial	Recycling Tons	↓ Larger decrease in projected tons	↓ Decrease in projected recycling rate

APPENDIX L

MINIMUM REQUIRED EDUCATION PROGRAMS: OUTREACH AND MARKETING PLAN AND GENERAL EDUCATION REQUIREMENTS

Appendix L.

Minimum Required Education Programs: Outreach and Marketing Plan and General Education Requirements

A. Minimum Required Education Programs

In accordance with Goal 3 of the 2020 State Plan, the District is required to provide four minimum education programs: a website, a comprehensive resource list, an inventory of available infrastructure, and a speaker or presenter. The District met each of these requirements in the reference year.

Name	Start Date	End Date	Goal(s)
Website	Existing	Ongoing	3, 4

The District maintains a website at www.timetorecycle.org, which serves as the central platform for recycling and waste reduction information across Stark, Tuscarawas, and Wayne Counties. In 2023, the District made a major investment in the website to improve the searchability of items and provide an easier platform for residents to access the information they were looking for on the site.



The site is designed for multiple audiences—including residents, businesses, churches and non-profits, and government and schools—and provides a valuable repository for each audience to find the services and guidance they need. Core functions include a searchable directory of drop-off recycling and disposal locations, appointment scheduling for special materials such as electronics, tires, and household hazardous waste, and access to District publications and reports. The site also features educational materials on how to start a recycling program, best practices for handling recyclables and special materials, a blog that highlights current issues in waste reduction, and a calendar of District events.

Updates occur on a continual basis, such as posting new newsletters, adding upcoming events, and refreshing educational content. District staff are responsible for keeping the site accurate and relevant. More recent updates included adding a sort by material category function and added dropdowns to more easily allow the user to find where to recycle/manage materials.

In addition to the website, the District maintains social media pages to increase connections with the residents and businesses in the three county communities. Events and pertinent information are shared via these mediums.

Target for Next 5-Years: This program will continue through the planning period

Name	Start Date	End Date	Goal(s)
Recycling Newsletter Program name change from "Comprehensive Resource Guide"	Existing	Ongoing	3, 4

The District publishes an annual recycling newsletter that is mailed to every household in the District. The newsletters are also found on the website at the following URL: <https://www.timetorecycle.org/resources/district-reports-publications/>

Each newsletter is specific to each County. The newsletter informs the households how to recycle materials and provides other relevant information on topics. Topics include composting, flattening cardboard, recycling right, etc. Each newsletter contains the District's contact information and where to find us on social media.

One feature the Recycling Newsletter contains is the Waste Reduction Report Card which shows the tonnages by community diverted for drop-offs and curbside recycling. The newsletter includes county-specific recycling report cards for each reporting year. The Waste Reduction Report Card can also be posted separately.

The 2024 newsletter did not feature the county-specific recycling report cards for that year. Instead, the report card was made available on the District's website to allow for more information to be included in the newsletter. While the District temporarily scaled back the e-newsletter and social media presence after June 2023 due to staffing changes, our commitment to keeping residents informed remains strong.

Target for Next 5-Years: Use report card data to reduce contamination rates by 10% by 2030, measured through drop-off and curbside audits.

Target for Next 5-Years: This program will continue through the planning period



Name	Start Date	End Date	Goal(s)
Inventory of Available Infrastructure	Existing	Ongoing	3, 4

The District provides a complete infrastructure inventory within the solid waste management plan, which is updated every 5 years. In addition, the District maintains an inventory of recycling and disposal infrastructure accessible through the "How To Recycle?" tool on the website. This inventory tool catalogs drop-off centers, special material collection sites, and community recycling events within the three-county area. The inventory is continually updated as new facilities or services come online or as changes occur in hours, accepted materials, or operations.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Speaker/Presenter	Existing	Ongoing	3, 4

Schools, community groups, businesses, and local governments can schedule presentations through the website's "Request a Speaker" feature or by contacting District staff directly. Presentations cover a range of topics including recycling basics, waste reduction strategies, special material handling, and updates on District programs.

In June of 2023, the District's full-time Outreach Coordinator resigned. During the rest of 2023, District staff performed presentations to keep up on outreach. The District will continue to assess responsibilities in the office in 2024.

Target for Next 5-Years: The Executive Director and Assistant Executive Director will serve as speaker and presenters. This program will continue through the planning period.

B. Outreach and Education – Outreach Plan and General Education Requirements

As prescribed by the 2020 State Plan, each SWMD will provide education, outreach, marketing, and technical assistance regarding education and reuse through an outreach and marketing plan. Per Format 4.2 the outreach and marketing plan needs to have the following components:

1. Five target audiences as identified in Ohio EPA Format 4.2.
2. Follow basic best practices when developing and selecting outreach programs.
3. Outreach priority.
4. Education and outreach programs to all appropriate audiences in the context of the priority using social marketing principles and tools.

The outreach and marketing plan needs to demonstrate the following best practices:

- Demonstrate that the SWMD will address all of the five target audiences;
- Explain how the SWMD will align its outreach and education programs with recycling opportunities (both existing and needed); and
- Explain how the SWMD will incorporate principles and tools for changing behavior into the outreach and marketing plan.

The 2023 Approved Plan included a comprehensive list of education programs, but some redundancies were identified. The 2027 Plan aims to eliminate these redundancies and streamline the program offerings. **Table L-1** provides a comparison of the programs listed in the 2023 Approved Plan and those included in the 2027 Plan.

Table L-1 Education and Outreach Programs

Programs in 2023 Approved Plan Listed on the ADR Implementation Schedule	Programs in 2027 Plan
Minimum Requirements	Minimum Requirements
District Website	District Website
Recycling and Reuse Guide or Newsletter	Recycling Newsletter
Inventory of Available Infrastructure	Inventory of Available Infrastructure
Speaker/Presenter Education and Awareness Program	Speaker/Presenter
Target Audience: Residents	Target Audience: Residents
Recycling and Reuse Guide or Newsletter	Recycling Newsletter
	Master Recycler Program
	Social Media
Yard Waste Management Education and Outreach	Composting Guide
HHW Management Education and Outreach	HHW Management Education and Outreach
Waste Reduction Report Card	Recycling Newsletter
E-waste/Lead Acid Batteries/Appliances promotion of the Canton Recycle Center	Promotion of the Canton Recycle Center
E-waste: list of private sector retail and scrap yard locations	Promotion of the Canton Recycle Center
Lead Acid Batteries: list of private sector retail and scrap yard locations	Promotion of the Canton Recycle Center
Appliances: list of private sector retail and scrap yard locations	Promotion of the Canton Recycle Center
Campaign to education residents on the local opportunities	Drop-off Promotion Program
	Surveys at Drop-off Sites
Promote the two Class II compost facilities in the District to accept more food waste for diversion	Composting Guide
Track the recycling tonnages per location over time	Not education, see Drop-off Program
Promote the bottle cap-to-benches program	Discontinue
Promote litter collection kit loan program	Discontinue
Grow the District residential e-newsletter audience	Recycling Newsletter
Target Audience: Schools	Target Audience: Schools
Promote local food waste entities to schools and institutions	School Technical Assistance
	School Connection
Target Audience: Commercial Businesses and Institutions	Target Audience: Commercial Businesses and Institutions
Special Events Initiative	Away From Home Assistance
District program promotion with Area Chambers of Commerce	Business Outreach
Promote local food waste entities to restaurants/grocery stores	Business Outreach
	Away From Home Assistance
Target Audience: Industries	Target Audience: Industries
	Ohio EPA Marketplace
Target Audience: Community and Elected Officials	Target Audience: Community and Elected Officials
	Elected Official Outreach

The refined list of programs found in **Table L-2** is organized according to the minimum, five target audiences (residents, schools and institutions, industries, and commercial businesses, communities and elected officials) and by type of format and distribution channel.

Table L-2 Program Reach by Target Audience

Program	Events	Digital Comms	School Outreach	Contests	Presentations	Media / Radio	Dynamic Website	Flyers & Postcards, and Direct Mail	Specific Outreach to Target Audiences
District Website		X					X		
Recycling Newsletter							X		
Inventory of Available Infrastructure							X		
Speaker/Presenter	X		X		X				X
Residents									
Recycling Newsletter		X						X	
Master Recycler Program	X	X							X
Social Media		X							
Composting Guide		X					X		
HHW Management Education and Outreach		X				X			
Promotion of Canton Recycle Center		X				X		X	
Drop-off Promotion		X				X	X		
Surveys at Drop-off Sites									X
Commercial Businesses and Institutions									
Away From Home Assistance									X
Business Outreach									X
Schools									
School Technical Assistance			X		X				X
School Connection			X		X				X
Industries									
Ohio EPA Marketplace		X					X		X
Communities & Elected Officials									
Elected Official Outreach		X			X		X	X	X

Digital comms includes email, instant messaging, social media, video conferencing and mobile apps.

Alongside the website, the District provides a comprehensive set of resources for the public. This includes downloadable recycling guides, fact sheets, and publications that explain the benefits of recycling, correct preparation of materials, and opportunities for participation in District programs. Printed versions of key materials are also distributed at outreach events, ensuring accessibility for all community members.

1. RESIDENTS

The District endeavors to educate residents through several existing channels. While the District website is a primary source of information available for residents, other mechanisms are used as well to convey solid waste, recycling, and sustainability practices to the public. All of the District's programs are intended for use by the residential sector. This includes the drop-off recycling program, yard waste collection

program, household hazardous waste collection program, and scrap tire drop-off program and promotion of this available infrastructure is done through advertising campaigns, the District website, District publications, and presentations. The District collaborates with local communities to raise awareness about recycling contamination and proper disposal practices.

Name	Start Date	End Date	Goal(s)
Recycling and Newsletter	Existing	Ongoing	3, 4

See description above.

Name	Start Date	End Date	Goal(s)
Master Recycler Program	Existing	Ongoing	3, 4

The Master Recycler Program was originally developed as a multi-week training course designed to educate and engage community volunteers in waste reduction, recycling, and sustainability topics. Historically, the program included a series of classes, facility tours, and volunteer opportunities intended to prepare participants to serve as community ambassadors for recycling and waste reduction.

Members of the Master Recycler Program serve communities in Stark, Tuscarawas and Wayne Counties. Each member must volunteer at least 20 hours at various events over the course of a year to receive official certification. Master recyclers are devoted to in-person engagements with neighbors of the community to foster positive behavior change. Engaging with community members creates lasting impacts and shifts social norms. Activities may include volunteering at farmers markets, festivals, litter clean-ups, etc. Along with volunteer work, strong attendance is critical in gaining the knowledge and understanding to positively change behaviors. In order to complete the Master Recycler Program, members are required to attend seven out of eight classes.

While the program was previously offered as a seven-week training course, the District anticipates that the program structure may evolve over time. The District will continue to maintain and engage the existing network of Master Recyclers through volunteer opportunities, District meetings, and community outreach events. Periodically, the District may host single-day educational workshops or refresher courses to provide updates on recycling practices, sustainability initiatives, and emerging waste management issues.

If community interest and District resources allow, the District may offer a more comprehensive Master Recycler training course in the future; however, the program may be offered on an as-needed basis rather than annually.

Target for Next 5-Years: Continue to involve the Master Recycler's in various outreach events for extended presence throughout the three counties.

Name	Start Date	End Date	Goal(s)
Social Media	Existing	Ongoing	3, 4

In addition to distributing the annual recycling newsletter to all residents, the District actively promotes drop-off site locations and recycling guidance through its website and Facebook page, ensuring residents had multiple ways to access accurate and timely information.

Target for Next 5-Years: Conduct scrap tire campaign (digital + mail + SMS) highlighting the Ohio EPA Scrap Tire Program to boost tire collections and reduce improper tire dumping complaints by 15% over five years.

Name	Start Date	End Date	Goal(s)
Composting Guide	Existing	Ongoing	3, 4

The District offers residents comprehensive information on local yard waste composting opportunities through its website. This online resource is regularly updated to provide guidance on where and how to properly compost yard waste within the region. Additionally, a composting guide is included on the District's website as well as a summary in the annual newsletter to support continued education and outreach.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
HHW Management Education and Outreach	Existing	Ongoing	3, 4

The District provides information on household hazardous waste (HHW) disposal through its website and includes key HHW details in the annual Recycling Newsletter, which is mailed directly to residents.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Promotion of the Canton Recycle Center (E-Waste/ Lead Acid Batteries/ Appliances)	Existing	Ongoing	3, 4

The District made available year-round recycling of special items such as electronics, lead acid batteries, and appliances at the Household Hazardous Waste Collection Center in Canton. Radio campaigns, radio station interviews, and radio spotlight on education are all methods used by the District for outreach.

Target for Next 5-Years: This program will continue through the planning period.

Name	Start Date	End Date	Goal(s)
Drop-off Promotion Program	Existing	Ongoing	3, 4

The District collaborates with local communities to raise awareness about recycling contamination and proper disposal practices. In addition to distributing the annual recycling newsletter to all residents, the District actively promotes drop-off site locations and recycling guidance through its website and Facebook page, ensuring residents had multiple ways to access accurate and timely information.

In 2020, the District received an Ohio EPA Community and Litter Grant for contamination awareness and reduction. This allowed for working with several communities to inform their residents about the new decals, signs and other changes.

In 2021 and 2022, information was shared on Facebook to the followers of several specific community pages: Canton City Public Health, Wayne County OH Government, Canton Township, Stark Parks, City of Orrville, North Canton Farmers Market, and more. The District also worked with the radio stations in all three counties to conduct targeted digital ad campaigns directing residents to take a recycling quiz.

Target for Next 5-Years: Various outreach methods will be used in this planning period to engage the public. Continued awareness of the drop-offs and what is acceptable will continue.

Name	Start Date	End Date	Goal(s)
Surveys at Drop-off Sites	Existing	Ongoing	3, 4

To continually connect with drop-off users/participants, the District randomly conducts surveys. The surveys communicate participation requirements and ascertain why residents use the sites and what they know on correct recycling. This activity is based on the following actions:

- District staff availability.
- Internship or volunteer opportunities for staffing.
- Local groups or organizations interested in conducting the survey work.
- District financial resources.
- Direction from the Policy Committee and Board of Directors.
- Local, state, and federal grants.
- Other factors as discovered or determined.

The District experienced reductions in staffing and was unable to implement this program.

Target for Next 5-Years: The District will target surveying 1 drop-off a year and plans to enlist Master Recyclers. An online survey accessible with a phone will be developed and used to gather the data.

2. SCHOOLS

The District provides several methods for schools to obtain information about solid waste management and sustainability. The District provides education and outreach through some of these outreach methods.

Name	Start Date	End Date	Goal(s)
School Technical Assistance	Existing	Ongoing	3, 4

The District has several technical resources for schools, including information on grant opportunities, management of special materials (e.g., food and construction waste), and waste audit manuals. Printed copies of the Waste Audit Manual and Office Recycling Guide are available upon request. District staff also offer on-site waste audits, which can be requested by email, phone, or through the Annual Recycling Survey.

The District provides services to the schools to collect paper. There are several private service providers offering collection service for paper as well as other materials. Discussions with the school boards, superintendents, and/or principals are necessary to transition school programs to private hauler services.

Target for Next 5-Years: The District will target 3 schools a year to transition to private hauler services.

Name	Start Date	End Date	Goal(s)
School Connection	Existing	Ongoing	3, 4

For years the District's Education and Awareness Program reached the school audience by presentations. Until June 2023, the District's full-time Outreach Coordinator was actively engaging schools with informative presentations on recycling, waste reduction, household hazardous waste, and conservation. The school presentations transitioned to the Executive Director and Assistant Executive Director providing the presentations. Presentations are continuing but occur on limited scale. In 2023, the District delivered 9 presentations and revamped the Master Recycler Program, bringing fresh energy and education to the community of passionate recyclers and sustainability advocates.

Target for Next 5-Years: The District will transition to as requested presentations to the school classrooms and assemblies.

Name	Start Date	End Date	Goal(s)
Promote the Bottle Cap-To-Benches Program	Existing	Ongoing	3, 4

The Bottle-Caps-To-Benches program allows schools, church youth groups and community youth organizations to obtain recycled-content benches/tables. This is primarily completed through direct engagement with the schools through the District's Education & Awareness program. This can occur only if a company that recycles the caps can be secured. Educational materials for programs such as the bottle-caps-to-benches program, and the litter cleanup kit loan program are available on the District's website.

Target for Next 5-Years: This program was a success but takes a lot of volunteer time to collect and sort bottle caps that are donated. For the past few years, this program was not implemented because of little interest, thus this program will not continue.

3. COMMERCIAL BUSINESSES AND INSTITUTIONS

The District provides several methods for commercial businesses and institutions to obtain information about solid waste management and sustainability. The District provides education and outreach through some of these outreach methods.

Name	Start Date	End Date	Goal(s)
Business Outreach	Existing	Ongoing	4, 5

The District provides a variety of services to assist businesses with recycling technical assistance as described in Appendix I. The one-on-one direct contact is beneficial for implementing recycling programs at businesses. The educational materials for businesses such as how to set up a recycling program are digital and added to the website. The website also provides links to Ohio EPA's Material Marketplace.

Target for Next 5 Years: The District will use its network to connect businesses with goods they seek to repurpose / recycle to available outlets. The District will target two grocer and/or restaurants a year to promote food reduction as well as local food waste composting.

Name	Start Date	End Date	Goal(s)
Away From Home Assistance	Existing	Ongoing	1, 2

The District promotes recycling collection at away from home venues such as parks, community events, county fairs, etc. The Wayne County Fair contracts with a private hauler to provide recycling services.

Target for Next 5 Years: Wayne County Fair's model will be shared with others interested in how to set up an away from home program for diversion. The District will target two away from home events in each county to demonstrate successes with setting up a program.

4. INDUSTRIES

The District provides several methods for industries to obtain information about solid waste management and sustainability. The District provides education and outreach through some of these outreach methods.

Name	Start Date	End Date	Goal(s)
Ohio EPA Marketplace	Existing	Ongoing	4, 5

The Ohio Materials Marketplace is an online resource for finding outlets for unwanted surplus material, and source specific types of materials that are needed. This resource is listed on the District's webpage.

In conducting recycling surveys, the District updated its list of industrial business contacts which will be maintained and updated annually.

Target for Next 5 Years: The District will track how many industrial businesses connect with the Ohio EPA Marketplace. Another opportunity the District will explore is connecting local businesses and economic partners to determine the desire for materials management and reporting.

5. COMMUNITIES & ELECTED OFFICIALS

The District primarily educates the government offices about infrastructure through routine communication with these offices due to partnership with the District hosting drop-off sites or participation in District grant programs. In addition, the District's Executive Director meets with elected officials when they are considering a program change or implementation.

Name	Start Date	End Date	Goal(s)
Elected Official Outreach	Existing	Ongoing	1, 2

The District provides timely communications with township elected officials through the Township Trustee Association which meets throughout the year as well as through City council meetings. The District meets to advance the approval of the District Solid Waste Management Plan, curbside recycling

programs, and general education at various community events. The Recycling Newsletter is available to communities and elected officials.

Target for Next 5 Years: This program will continue through the planning period.

C. Outreach Priority

The District has identified “Connected Access” as the outreach priority for the 2027–2036 planning period. This priority emphasizes reducing contamination and increasing participation by making recycling and diversion opportunities more accessible, consistent, and easy to use across Stark, Tuscarawas, and Wayne Counties.

While the 2023 plan focused primarily on “Recycle Right and Often,” the District now aims to go further by directly connecting residents, schools, businesses, and industries with both core recycling programs and specialized services. Outreach will include HHW collection (spotlighting the Ohio EPA Scrap Tire Program at the Canton Recycle Center), electronics and appliance recycling, and yard waste/food waste composting. By focusing on these high-impact programs, the District will reduce illegal dumping of problem materials and increase diversion of items that are often mismanaged.

To simplify participation, the District will expand the use of technology tools such as a district-wide SMS notification system for program reminders and updates, and a user-friendly online scheduling system enhanced by AI for HHW appointments. These tools will help reduce barriers, spread participation more evenly across events, and give residents real-time access to program information.

The District will also invest in building long-term community capacity by revitalizing the Master Recycler Program. This initiative will train at least 25 new volunteers by 2032, each completing one outreach activity annually. Master Recyclers will assist with events, presentations, and school programs, serving as trusted community champions who extend the District’s outreach reach beyond staff capacity.

Finally, all outreach will be unified under a universal recycling message. Whether through newsletters, social media, flyers, SMS notifications, or direct presentations, the same consistent message will reinforce what is recyclable, where special materials can be taken, and why correct participation matters. This consistency will build trust, reduce confusion, and support measurable behavior change across all audiences.

Name	Start Date	End Date	Goal(s)
Connected Access	2029	2036	1, 4, 6

Audience:

- Residents
- Communities and Elected Officials

Goals:

- Deploy SMS notifications and website tools to provide timely reminders about recycling rules, HHW appointments, and special collection opportunities.

- Implement a consistent recycling message across all District communications (newsletter, website, social media, flyers, and SMS).
- Increase participation in recycling and special materials programs (tires, HHW, electronics, composting).
- Conduct contamination audits every other year at curbside and drop-off programs.
- Use data from audits, HHW scheduling, and CRC tire collections to evaluate success.
- Leverage fairs, festivals, and community events as touchpoints for the universal message.

Key Objectives:

- Engage at least 25% of residents through SMS or digital subscriptions by 2030.
- Train 25 Master Recyclers to deliver at least one community outreach activity by 2032.
- Reduce illegal dumping complaints by 15% by 2036.
- Reduce contamination in curbside and drop-off recycling programs by 10% by 2036.

APPENDIX M

WASTE MANAGEMENT CAPACITY ANALYSIS

Appendix M.

Waste Management Capacity Analysis

This appendix outlines the District's strategy for maintaining access to sufficient solid waste management infrastructure throughout the planning period.

A. Access to Publicly Available Landfill Facilities

Table M-1 presents publicly available municipal solid waste (MSW) landfills that received waste from the District during the reference year. This includes residential, industrial, and exempt waste, whether delivered directly or via a transfer facility. Some landfills listed may have only accepted construction and demolition debris (CDD) but are still included due to their designation as MSW landfills.

Table M-1 Remaining Operating Life of MSW Publicly Available Landfills

Facility	Location	Years of Remaining Capacity Based on Waste Accepted as of 12-31-2024	Applicable Dates
In-State			
American Landfill	Stark	93	31-Dec-24
Apex Environmental	Belmont	13	31-Dec-24
Athens-Hocking Landfill	Athens	45	31-Dec-24
Carbon Limestone Landfill	Mahoning	25	31-Dec-24
Cherokee Run Landfill	Logan	32	31-Dec-24
County Environmental of Wyandot	Wyandott	93	31-Dec-24
Countywide RDF - Republic Services	Stark	70	31-Dec-23
Crawford County Landfill	Crawford	14	31-Dec-24
Evergreen Recycling & Disposal	Wood	41	31-Dec-23
Geneva Landfill	Ashtabula	51	31-Dec-24
Kimble Sanitary Landfill	Tuscarawas	40	31-Dec-24
Mahoning Landfill	Mahoning	47	31-Dec-24
Pine Grove Regional Facility	Fairfield	106	31-Dec-24
Port Clinton Landfill	Ottawa	73	31-Dec-24
Rumpke of Northern Ohio Noble Road Landfill	Richland	12	31-Dec-24
Wood County Landfill	Wood	109	31-Dec-24
Lorain County II Landfill	Lorain	18	31-Dec-24
Out-of-State			
Seneca Landfill	Pennsylvania	N/A	31-Dec-23
County Line Landfill	Indiana	N/A	31-Dec-23

Source:

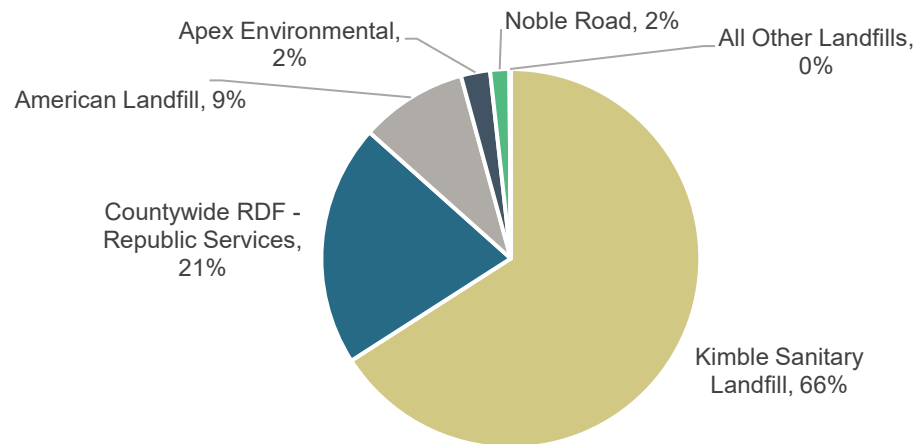
Ohio EPA Waste Flow Report 2023

2023 Ohio Solid Waste Facility Data Report Tables (Table 13) published by Ohio EPA

2024 Ohio Solid Waste Facility Data Report Tables (Table 13) published by Ohio EPA

Within the District's boundaries, there are three municipal solid waste landfills and one tire monofill (not listed in Table M-1). During the reference year, waste from the District was disposed of at eighteen in-state landfills and two out-of-state landfills. Three facilities — Kimble Sanitary Landfill, American Landfill, and Countywide RDF, Republic Services Landfill — accepted the majority of the District's waste. Together, these three sites received 96% of the District's total residential waste volume.

Figure M-1 Residential Market Share of MSW Landfilled



Kimble Sanitary Landfill accepts roughly 66% via transfer and 34% direct hauled, as described in Appendix D.

Ohio EPA's Format 4.2 guides that adequate landfill capacity is demonstrated when the facilities receiving at least 75% of the District's waste have sufficient remaining life to operate through the first eight years of the planning period. The District's demonstration in Table M-1 shows adequate capacity in both Kimble Sanitary Landfill and Countywide RDF, Republic Services Landfill.

Kimble Sanitary Landfill, which accepts 66% of the District's waste, has 40 years of remaining capacity at the end of 2024. American Landfill, which receives 9%, has 93 years of remaining capacity. Countywide RDF – Republic Services, which accepts 21%, has 70 years of remaining capacity. These three facilities have more than adequate combined capacity to meet the needs of the District during the required timeframe.

B. Access to Captive Landfills

Captive landfills, also known as residual waste landfills, are privately operated facilities permitted to accept only waste generated by the industrial entity that owns the landfill. These landfills are not authorized to receive municipal solid waste and are specifically designed to manage industrial byproducts from one or more of seven regulated industrial sectors, as defined by Ohio EPA. No captive or residual waste landfills were utilized by the District during the reference year.

APPENDIX N

EVALUATING GREENHOUSE GAS EMISSIONS

Appendix N.

Evaluating Greenhouse Gas Emissions

The Waste Reduction Model (WARM)

WARM is a tool that the US EPA developed to quantify the effects of waste management decisions on greenhouse gas emissions. The model demonstrates the benefits of alternative waste management technologies over traditional waste management methods. The WARM model is updated regularly. A district can use a different but comparable modeling program to calculate greenhouse gas emission reductions provided the model accounts for waste management and recycling activities. The District is using the WARM model to compare municipal solid waste management scenarios with data derived from the residential/commercial sector.

The District utilized the WARM model twice:

- For the first run, all quantities recycled in the reference year were placed in the landfill column (for the baseline year) and for the alternative scenario, all quantities recycled were placed in the recycled column.
- For the second run, the quantities of residential/commercial material recycled in the reference year were placed in the tons recycled column (for the baseline scenario), and then the quantities projected to be recycled were entered in the sixth year of the planning period in the alternative scenario column.

A. GHG Measurement

Gases that trap heat in the atmosphere are called greenhouse gases (GHG). These gases include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluorinated gases. Each gas has its own global warming potential (GWP) with carbon dioxide establishing the baseline global warming potential, all other gases are compared in units of carbon dioxide equivalent (CO₂e). Each gas has varying degrees of effects on the climate and is dependent on the quantity in the atmosphere, the time they remain in the atmosphere, and how strong their GWP is on the atmosphere. Disposal and treatment of materials result in greenhouse gas emissions from collection, transportation, disposal, manufacturing, etc.

The most common method to measure the climate impact of waste management is to measure it in terms of carbon dioxide equivalents. Because waste reduction and waste disposal result in multiple types of greenhouse gases, the conversion to a standard carbon equivalent measurement allows for a total quantification of impacts. It also establishes a standard language to compare these sources of emissions to other sources like transportation and energy reduction efforts. A carbon dioxide equivalent means the number of metric tons of CO₂ emissions with the same global warming potential as one metric ton of another greenhouse gas. The international standard for reporting CO₂ emissions is metric tons. Carbon dioxide quantities will be reported as MTCO₂e, metric tons of carbon dioxide equivalent.

Produced by the US EPA, the Waste Reduction Model (WARM) was designed to help solid waste planners, municipal leaders, and other stakeholder organizations track and report greenhouse gas emissions reductions. It is a tool that helps decision-makers predict the strategies that have the greatest impact on reducing GHG emissions. The WARM model calculates GHG emissions across six waste management

modalities (source reduction, recycling, composting, anaerobic digestion, combustion, and landfilling). Modeling different combinations of waste management practices allows decision-makers to see which approach leads to the least GHG entering the atmosphere.

WARM is a standard tool used for waste management GHG impacts, however, the model does have limitations. For example, the WARM GHG-related impacts of composting organics were developed within the framework of the larger WARM development effort and the presentation of results, estimation of emissions and sinks, and description of ancillary benefits are not comprehensive. Also, the material categories within the model are not exhaustive therefore materials like household hazardous wastes (HHW) are excluded from the modeling because they have no relevant WARM proxy.

The reports below show the metric tons of carbon dioxide equivalent (MTCO_{2e}) which describes the global warming potential of all common greenhouse gases as an equivalent to CO₂. Negative values indicate savings while positive values indicate increasing emissions.

In 2023, the District generated roughly 705,000 tons of waste from the residential and commercial sectors, of which 174,000 tons (25%) were diverted from landfills. The tons diverted was input in the WARM model to determine the GHG emission savings from the diverted materials.

Table N-1 Reference Year Waste Diversion

Total GHG Emissions from Baseline – Year 2023	(302,089) MTCO _{2e}
Total GHG Emissions from Alternative – Year 2033	(305,814) MTCO _{2e}
Incremental GHG Emissions Savings	(300,083) MTCO_{2e}

Note: Negative values indicate GHG savings

By the District having diversion programs, the diverted tons of residential/commercial material in the reference year resulted in 300,083 MTCO_{2e} prevented from being emitted into the atmosphere. To better illustrate the amount saved by the District, the diversion programs are equivalent to:

- Removing annual emissions from 63,712 vehicles
- Conserving 33,766,514 gallons of gasoline
- Conserving 12,503,459 households' annual energy consumption

With the projected decrease in diversion by 2033, there is still an estimated additional reduction of of 3,724 MTCO_{2e} of greenhouse gases. The estimated diversion is equivalent to:

- Removing annual emissions from an additional 791 vehicles
- Conserving an additional 419,064 gallons of gasoline
- Conserving an additional 155,176 household's energy consumption

APPENDIX O

FINANCIAL DATA

Appendix O. Financial Data

Ohio Revised Code Section 3734.53(B) requires a solid waste management plan to present a budget. This budget accounts for how the District will obtain money to pay for operating the District and how the District will spend that money. For revenue, the solid waste management plan identifies the sources of funding the District will use to implement its approved solid waste management plan. The plan also provides estimates of how much revenue the District expects to receive from each source. For expenses, the solid waste management plan identifies the programs the District intends to fund during the planning period and estimates how much the District will spend on each program. The plan must demonstrate that planned expenses will be made in accordance with eleven (11) allowable uses prescribed in ORC Section 3734.57(G), as amended by recent statutory updates including Senate Bills 119 and 147.

Ultimately, the solid waste management plan must demonstrate that the District will have adequate money to implement the approved solid waste management plan for a period from 2027 to 2036.

A. Funding Mechanisms and Revenue Generated

This section examines the funding mechanisms expected to be used by the District. In addition, anticipated revenues from each source listed below are projected for each year of the planning period.

DISPOSAL FEE

Disposal fees are collected on each ton of solid waste that is disposed at landfills in the levying District. There are three components, or tiers, to the fee. The tiers correspond to where waste was generated – in-district, out-of-district, and out-of-state. In-district waste is solid waste generated by counties within the levying District and disposed at landfills in that District. Out-of-district waste is solid waste generated in Ohio counties that are not part of the District and disposed at landfills in the District. Out-of-state waste is solid waste generated in other states and disposed at landfills in the District.

Ohio's law prescribes the following limits on disposal fees:

- The in-district fee must be $\geq \$1.00$ and $\leq \$2.00$;
- The out-of-district fee must be $\geq \$2.00$ and $\leq \$4.00$; and
- The out-of-state fee must be equal to the in-district fee.

Statue allows the District to generate revenues by levying fees on any waste disposed in landfills located in the District. The District's disposal fee structure is as follows:

	2019 - 2027	2028 - 2036
In-District:	\$1.00	\$1.50
Out-of-District:	\$2.00	\$2.50
Out-of-State:	\$1.00	\$1.50

Disposal fees are projected to increase by \$0.50 in 2028 and remain at this level throughout the planning period.

The District's primary source of revenue is disposal fees. The total disposal fee revenue remained stable, though followed a declining trend from 2019 through 2023. Total revenue peaked in 2019 at approximately \$4.0 million and declined gradually over the five-year period, reaching its lowest level in 2023 at approximately \$3.5 million. **Figure O-1** and **Figure O-2** show annual revenues from each fee category and the average contribution of each category to the total revenue, respectively. Both figures show the main contributors of the District's disposal fee revenue comes from out-of-district disposal and in-district disposal. Out-of-district disposal generated on average over \$2.8 million in revenue and attributed 75% of the disposal fee revenue.

Table O-1 below shows the historical and projected revenues from disposal fees.

IN-DISTRICT REVENUE PROJECTIONS: Revenue from 2019 through 2024 are actual revenues reported on the District's quarterly fee reports. The District is projecting \$900,000 revenue in 2025. Revenues from 2026 through the end of the planning period are projected to increase at an average annual growth rate of approximately 0.5 percent, based on the observed trend from 2019 through 2023. Beginning in 2028, a \$0.50 per ton fee increase will result in projected annual revenues of approximately \$1.35 million.

OUT-OF-DISTRICT REVENUE PROJECTIONS: Revenue from 2019 through 2024 are actual revenues reported on the District's quarterly fee reports. The District projects revenue of approximately \$2.7 million in 2025. Using the average annual tonnage disposed between 2019 and 2024 (~1.41 million tons), revenues for 2026 and 2027 are projected at approximately \$2.81 million per year. Beginning in 2028, a \$0.50 per-ton fee increase is assumed, resulting in projected annual revenues of approximately \$3.51 million, which are held constant through the remainder of the planning period.

OUT-OF-STATE REVENUE PROJECTIONS: Revenue from 2019 through 2024 are actual revenues reported on the District's quarterly fee reports. Using the average annual revenue received between 2019 and 2024, revenues for 2026 and 2027 are projected at \$39,129. The District is projecting to

Figure O-1 Disposal Fee Revenue

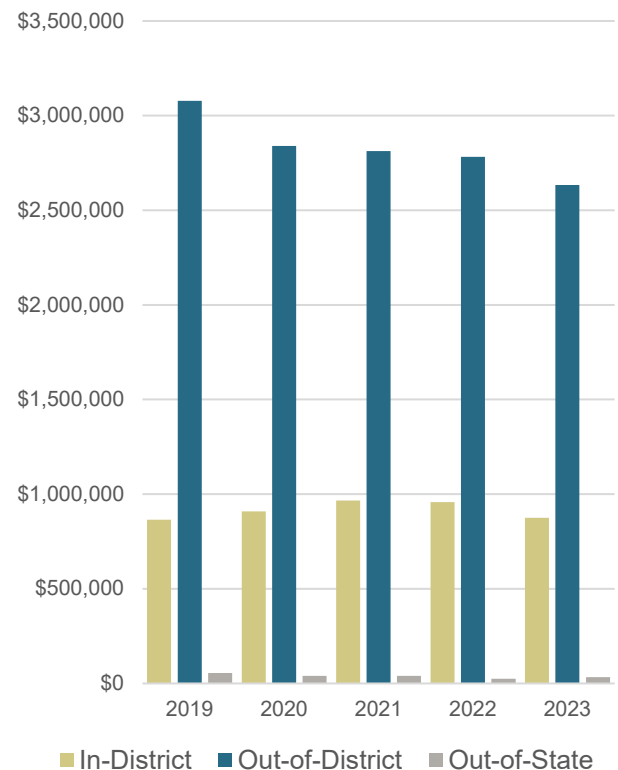
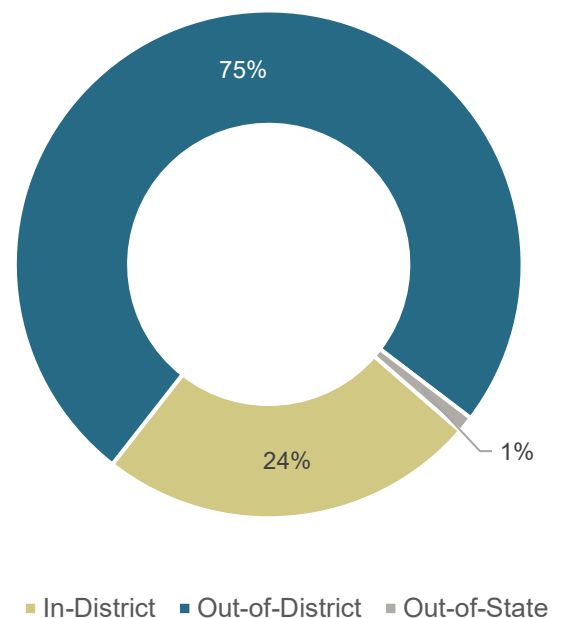


Figure O-2 Average Disposal Fee Revenue Distribution (2018-2023)



hold this flat through the planning period. Revenues will increase in 2028 and after from the \$0.50 per ton fee increase, resulting in approximately \$58,700 in projected annual revenue.

Table O-1 Disposal Fee Schedule and Revenue (in accordance with ORC Section 3734.57(B))

Year	Disposal Fee Schedule (\$/ton)			Revenue (\$)			Total Disposal Fee Revenue (\$)
	In-District	Out-of-District	Out-of-State	In-District	Out-of-District	Out-of-State	
2019	\$1.00	\$2.00	\$1.00	\$864,764	\$3,078,827	\$55,696	\$3,999,287
2020	\$1.00	\$2.00	\$1.00	\$909,680	\$2,839,676	\$40,606	\$3,789,962
2021	\$1.00	\$2.00	\$1.00	\$966,469	\$2,813,363	\$40,255	\$3,820,088
2022	\$1.00	\$2.00	\$1.00	\$957,338	\$2,782,222	\$25,409	\$3,764,970
2023	\$1.00	\$2.00	\$1.00	\$874,616	\$2,634,081	\$33,676	\$3,542,374
2024	\$1.00	\$2.00	\$1.00	\$814,413	\$2,720,930	\$27,702	\$3,563,044
2025	\$1.00	\$2.00	\$1.00	\$900,000	\$2,700,000	\$30,000	\$3,630,000
2026	\$1.00	\$2.00	\$1.00	\$901,041	\$2,811,517	\$39,129	\$3,751,686
2027	\$1.00	\$2.00	\$1.00	\$902,084	\$2,811,517	\$39,129	\$3,752,729
2028	\$1.50	\$2.50	\$1.50	\$1,354,691	\$3,514,396	\$58,693	\$4,927,780
2029	\$1.50	\$2.50	\$1.50	\$1,356,259	\$3,514,396	\$58,693	\$4,929,347
2030	\$1.50	\$2.50	\$1.50	\$1,357,828	\$3,514,396	\$58,693	\$4,930,916
2031	\$1.50	\$2.50	\$1.50	\$1,359,399	\$3,514,396	\$58,693	\$4,932,487
2032	\$1.50	\$2.50	\$1.50	\$1,360,972	\$3,514,396	\$58,693	\$4,934,060
2033	\$1.50	\$2.50	\$1.50	\$1,362,546	\$3,514,396	\$58,693	\$4,935,635
2034	\$1.50	\$2.50	\$1.50	\$1,364,123	\$3,514,396	\$58,693	\$4,937,211
2035	\$1.50	\$2.50	\$1.50	\$1,365,701	\$3,514,396	\$58,693	\$4,938,790
2036	\$1.50	\$2.50	\$1.50	\$1,367,281	\$3,514,396	\$58,693	\$4,940,370

GENERATION FEE

In accordance with ORC 3734.573, a solid waste management district may levy fees on the generation of solid wastes within the District. The District does not receive any revenue from generation fees.

Table O-2 Generation Fee Schedule and Revenue

Year	Generation Fee Schedule (\$ per ton)	Total Revenue from Generation Fee (\$)
N/A		

DESIGNATION FEE

In accordance with Ohio Revised Code 343.014, a solid waste management district may adopt designation fees to ensure adequate financing to implement the approved solid waste plan. Designation fees can be levied on any solid waste landfill that is designated by the District to receive District-generated waste. The District does not receive revenues from designation fees.

Table O-3 Designation Fee Schedule and Revenue

Year	Designation Fee Schedule (\$ per ton)	Total Designation Fee Revenue (\$)
N/A		

LOANS

The District does not have any outstanding debt due to existing loans and does not anticipate securing loans during this planning period.

Table O-4 Debt

Year Debt Was/Will be Obtained	Outstanding Balance	Lending Institution	Repayment Term (years)	Annual Debt Service (\$)
N/A				

OTHER SOURCES OF REVENUE

From 2019 to 2024, the District received revenue from recycling materials, reimbursements, grants, and miscellaneous sources.

Figure O-3 Other Sources of Revenue

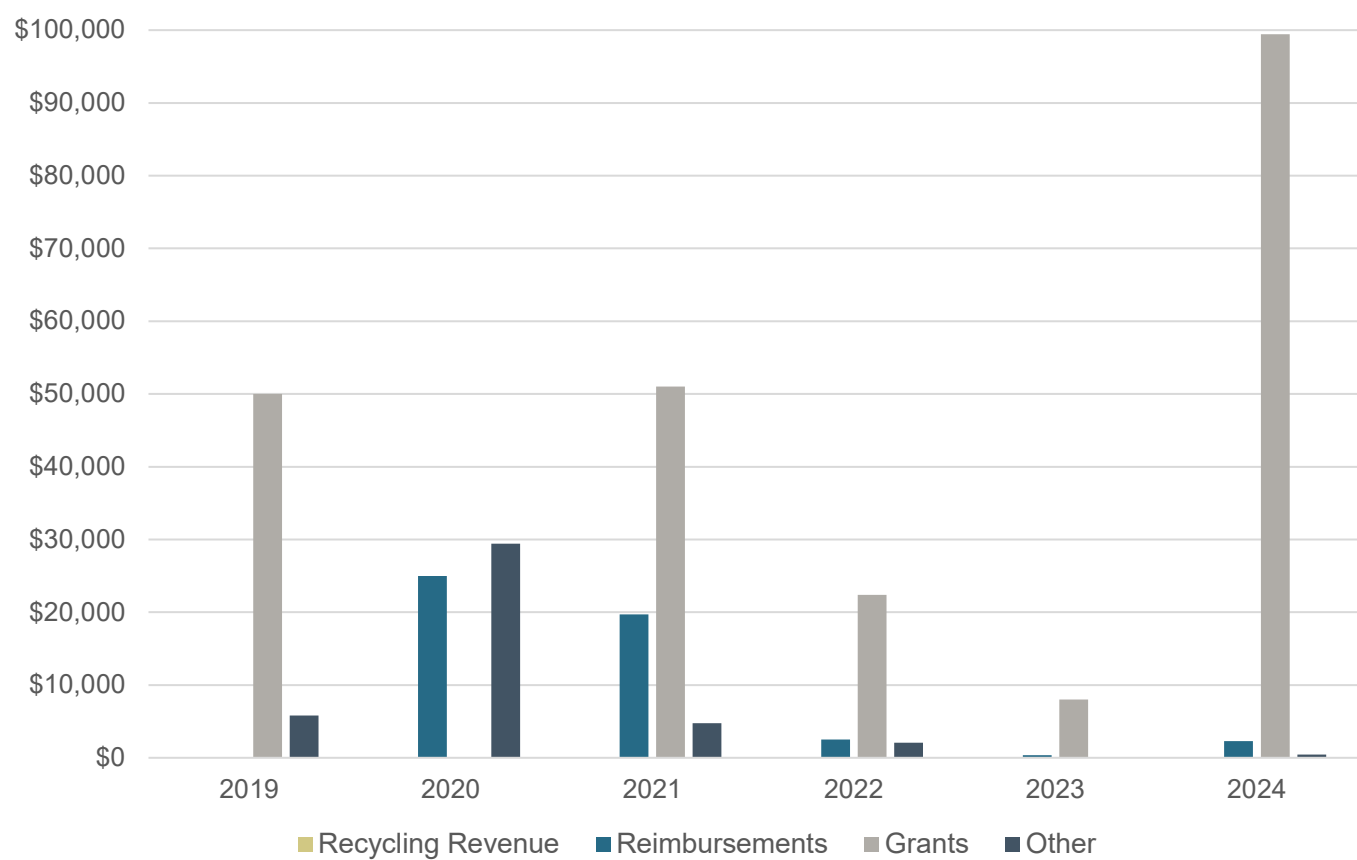


Table O-5 below shows the historical and projected revenues from other sources of revenue.

Recycling Revenue: The District receives revenue from the sale of collected recyclable materials. The District did not receive recycling revenue from 2019 through 2024, therefore recycling revenue is not projected in the planning period.

Interest/Landfill Settlement: Reimbursement revenue includes miscellaneous income such as interest, landfill settlement funds, and other minor receipts. From 2019 through 2024, reimbursement revenues varied significantly from year to year, ranging from \$372 to \$25,000. \$0 is held constant through the planning period.

Grants: Grant revenues were received intermittently from 2019 through 2024 and varied widely by year, including a peak of approximately \$99,425 in 2024. Funding from grants is competitive and not a guaranteed source of income, therefore revenues from grants are not projected in the planning period.

Other Sources: Revenue includes other miscellaneous income including Bureau of Worker's Comp refunds and Master Recycler registration fees. From 2019 through 2024, revenues from other sources ranged from \$22 to \$29,441. \$0 is held constant through the planning period.

Table O-5 Other Sources of Revenue

Year	Recycling Revenue	Interest/Landfill Settlement	Grants	Other	Total Other Revenue
2019	\$0	\$0	\$50,000	\$5,806	\$55,806
2020	\$0	\$25,000	\$0	\$29,441	\$54,441
2021	\$0	\$19,721	\$51,000	\$4,741	\$75,462
2022	\$0	\$2,505	\$22,400	\$2,071	\$26,976
2023	\$0	\$372	\$8,006	\$22	\$8,400
2024	\$0	\$2,289	\$99,425	\$440	\$102,154
2025	\$0	\$0	\$0	\$0	\$0
2026	\$0	\$0	\$0	\$0	\$0
2027	\$0	\$0	\$0	\$0	\$0
2028	\$0	\$0	\$0	\$0	\$0
2029	\$0	\$0	\$0	\$0	\$0
2030	\$0	\$0	\$0	\$0	\$0
2031	\$0	\$0	\$0	\$0	\$0
2032	\$0	\$0	\$0	\$0	\$0
2033	\$0	\$0	\$0	\$0	\$0
2034	\$0	\$0	\$0	\$0	\$0
2035	\$0	\$0	\$0	\$0	\$0
2036	\$0	\$0	\$0	\$0	\$0

Source(s):

2019 to 2024 actual revenue reports

2025 to 2036 projected revenue

SUMMARY OF DISTRICT REVENUES

Table O-6 Total Revenue (in accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573)

Year	Disposal Fees	Generation Fees	Designation Fees	Other Revenue	Total Revenue
2019	\$3,999,287	\$0	\$0	\$55,806	\$4,055,093
2020	\$3,789,962	\$0	\$0	\$54,441	\$3,844,404
2021	\$3,820,088	\$0	\$0	\$75,462	\$3,895,549
2022	\$3,764,970	\$0	\$0	\$26,976	\$3,791,946
2023	\$3,542,374	\$0	\$0	\$8,400	\$3,550,774
2024	\$3,563,044	\$0	\$0	\$102,154	\$3,665,198
2025	\$3,630,000	\$0	\$0	\$0	\$3,630,000
2026	\$3,751,686	\$0	\$0	\$0	\$3,751,686
2027	\$3,752,729	\$0	\$0	\$0	\$3,752,729
2028	\$4,927,780	\$0	\$0	\$0	\$4,927,780
2029	\$4,929,347	\$0	\$0	\$0	\$4,929,347
2030	\$4,930,916	\$0	\$0	\$0	\$4,930,916
2031	\$4,932,487	\$0	\$0	\$0	\$4,932,487
2032	\$4,934,060	\$0	\$0	\$0	\$4,934,060
2033	\$4,935,635	\$0	\$0	\$0	\$4,935,635
2034	\$4,937,211	\$0	\$0	\$0	\$4,937,211
2035	\$4,938,790	\$0	\$0	\$0	\$4,938,790
2036	\$4,940,370	\$0	\$0	\$0	\$4,940,370

B. Cost of Implementing Plan

Table O-7 Expenses

Line #	Category/Program	2019	2020	2021	2022	2023	2024	2025
1	Plan Monitoring/Prep.	\$10,468	\$9,500	\$36,410	\$28,451	\$9,951	\$11,743	\$32,364
1.a	Plan Preparation			\$27,110	\$18,751	\$315	\$2,107	
1.b	Plan Monitoring	\$10,468	\$9,500	\$9,300	\$9,700	\$9,636	\$9,636	\$32,364
1.c	Other							
2	Plan Implementation	\$3,579,319	\$3,907,145	\$3,671,295	\$3,462,754	\$3,386,802	\$3,417,094	\$3,334,978
2.a	District Administration	\$590,286	\$658,331	\$671,608	\$692,750	\$652,196	\$746,278	\$891,350
2.a.1	Personnel	\$448,906	\$458,564	\$496,082	\$495,720	\$512,728	\$580,758	\$685,000
2.a.2	Office Overhead	\$136,625	\$197,817	\$173,460	\$192,935	\$133,637	\$161,796	\$196,350
2.a.3	Other	\$4,755	\$1,950	\$2,065	\$4,095	\$5,831	\$3,723	\$10,000
2.b	Facility Operation							
2.b.1	MRF/Recycling Center							
2.b.2	Compost							
2.b.3	Transfer							
2.b.4	Special Waste							
2.c	Landfill Closure/Post-Closure							
2.d	Recycling Collection	\$1,978,559	\$2,424,510	\$2,106,467	\$1,955,110	\$1,939,092	\$1,976,088	\$1,835,092
2.d.1	Curbside	\$453,065	\$429,671	\$383,820	\$349,969	\$189,819	\$150,000	\$150,000
2.d.2	Drop-off	\$1,521,922	\$1,994,839	\$1,722,647	\$1,605,141	\$1,749,273	\$1,826,088	\$1,685,092
2.d.3	Combined Curbside/Drop-off							
2.d.4	Multi-family							
2.d.5	Business/Institutional							
2.d.6	Other (Site Improvements/Capital Assets)							
2.e	Special Collections	\$407,146	\$329,632	\$369,232	\$389,592	\$334,282	\$305,422	\$315,000
2.e.1	Tire Collection	\$108,485	\$92,435	\$93,791	\$105,857	\$71,784	\$99,180	\$90,000
2.e.2	HHW Collection	\$291,727	\$234,713	\$273,512	\$282,030	\$262,498	\$206,242	\$225,000
2.e.3	Electronics Collection	\$1,620						
2.e.4	Appliance Collection							
2.e.5	Other Collection Drives	\$5,315	\$2,483	\$1,929	\$1,704			
2.f	Yard Waste/Other Organics	\$367,668	\$235,018	\$283,349	\$166,666	\$201,855	\$216,493	\$58,536
2.g	Education/Awareness	\$220,197	\$259,655	\$239,920	\$257,738	\$259,376	\$172,813	\$190,000
2.g.1	Education Staff	\$58,541	\$59,897	\$62,990	\$65,864	\$76,653		
2.g.2	Advertisement/Promotion	\$145,683	\$185,954	\$157,215	\$172,688	\$165,294	\$152,902	\$190,000
2.g.3	Other	\$15,972	\$13,803	\$19,715	\$19,186	\$17,429	\$19,912	
2.h	Recycling Market Development							
2.h.1	General Market Development Activities							
2.h.2	EPA Pass-Through Grant							
2.i	Service Contracts							
2.j	Feasibility Studies							
2.k	Waste Audits							
2.l	Dump Cleanup							
2.m	Litter Collection/Education							
2.n	Emergency Debris Management	\$7,160		\$720	\$900			
2.o	Loan Payment							
2.p	Other (Cleanup Grant)	\$8,303						\$45,000
2.q	Other (Diversion Grant)							
3	Health Dept. Enforcement*	\$298,750	\$351,250	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000
	Canton City, Stark County, Tuscarawas County, and Wayne County Health Department	\$298,750	\$351,250	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000
4	County Assistance**							
5	Well Testing							
6	Out-of-State Waste Inspection							
7	Open Dump, Litter Law Enforcement	\$285,000	\$284,000	\$285,000	\$285,000	\$288,000	\$285,000	\$285,000
7.a	Health Departments							
7.b	Local Law Enforcement	\$285,000	\$284,000	\$285,000	\$285,000	\$288,000	\$285,000	\$285,000
7.c	Other							
8	Health Department Training							
9	Municipal/Township Assistance							
10	Compensation to Affected Community (ORC Section 3734.35)							
11	Public Health, Safety & Welfare Mitigation (ORC 3734.57)							
Total Expenses		\$4,173,537	\$4,551,895	\$4,317,705	\$4,101,205	\$4,009,753	\$4,038,837	\$3,977,342

Line #	Category/Program	2026	2027	2028	2029	2030	2031	2032
1	Plan Monitoring/Prep.	\$15,500	\$10,300	\$42,109	\$16,427	\$11,255	\$43,093	\$17,441
1.a	Plan Preparation	\$5,500		\$31,500	\$5,500		\$31,500	\$5,500
1.b	Plan Monitoring	\$10,000	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941
1.c	Other							
2	Plan Implementation	\$3,003,185	\$3,078,281	\$3,950,629	\$4,027,298	\$4,106,267	\$4,207,605	\$4,291,383
2.a	District Administration	\$867,541	\$893,567	\$920,374	\$947,985	\$976,424	\$1,005,717	\$1,035,889
2.a.1	Personnel	\$655,000	\$674,650	\$694,890	\$715,736	\$737,208	\$759,325	\$782,104
2.a.2	Office Overhead	\$202,241	\$208,308	\$214,557	\$220,994	\$227,623	\$234,452	\$241,486
2.a.3	Other	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299
2.b	Facility Operation							
2.b.1	MRF/Recycling Center							
2.b.2	Compost							
2.b.3	Transfer							
2.b.4	Special Waste							
2.c	Landfill Closure/Post-Closure							
2.d	Recycling Collection	\$1,635,645	\$1,684,714	\$2,135,256	\$2,184,313	\$2,234,843	\$2,286,888	\$2,340,495
2.d.1	Curbside							
2.d.2	Drop-off	\$1,635,645	\$1,684,714	\$1,635,256	\$1,684,313	\$1,734,843	\$1,786,888	\$1,840,495
2.d.3	Combined Curbside/Drop-off							
2.d.4	Multi-family							
2.d.5	Business/Institutional							
2.d.6	Other (Site Improvements/Capital Assets)			\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
2.e	Special Collections	\$305,000	\$305,000	\$550,000	\$550,000	\$550,000	\$550,000	\$550,000
2.e.1	Tire Collection	\$90,000	\$90,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
2.e.2	HHW Collection	\$215,000	\$215,000	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000
2.e.3	Electronics Collection							
2.e.4	Appliance Collection							
2.e.5	Other Collection Drives			\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
2.f	Yard Waste/Other Organics							
2.g	Education/Awareness	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$180,000	\$180,000
2.g.1	Education Staff							
2.g.2	Advertisement/Promotion	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$180,000	\$180,000
2.g.3	Other							
2.h	Recycling Market Development							
2.h.1	General Market Development Activities							
2.h.2	EPA Pass-Through Grant							
2.i	Service Contracts							
2.j	Feasibility Studies							
2.k	Waste Audits							
2.l	Dump Cleanup							
2.m	Litter Collection/Education							
2.n	Emergency Debris Management							
2.o	Loan Payment							
2.p	Other (Cleanup Grant)	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
2.q	Other (Diversion Grant)			\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
3	Health Dept. Enforcement*	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000
	<i>Canton City, Stark County, Tuscarawas County, and Wayne County Health Department</i>	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000
4	County Assistance**							
5	Well Testing							
6	Out-of-State Waste Inspection							
7	Open Dump, Litter Law Enforcement	\$285,000	\$285,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
7.a	Health Departments							
7.b	Local Law Enforcement	\$285,000	\$285,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
7.c	Other							
8	Health Department Training							
9	Municipal/Township Assistance							
10	Compensation to Affected Community (ORC Section 3734.35)							
11	Public Health, Safety & Welfare Mitigation (ORC 3734.57)							
Total Expenses		\$3,628,685	\$3,698,581	\$4,467,738	\$4,518,725	\$4,592,522	\$4,725,698	\$4,783,824

Line #	Category/Program	2033	2034	2035	2036
1	Plan Monitoring/Prep.	\$12,299	\$12,668	\$13,048	\$13,439
1.a	Plan Preparation				
1.b	Plan Monitoring	\$12,299	\$12,668	\$13,048	\$13,439
1.c	Other				
2	Plan Implementation	\$4,377,675	\$4,402,222	\$4,427,505	\$4,453,547
2.a	District Administration	\$1,066,965	\$1,091,512	\$1,116,796	\$1,142,838
2.a.1	Personnel	\$805,567	\$829,734	\$854,626	\$880,265
2.a.2	Office Overhead	\$248,730	\$248,730	\$248,730	\$248,730
2.a.3	Other	\$12,668	\$13,048	\$13,439	\$13,842
2.b	Facility Operation				
2.b.1	MRF/Recycling Center				
2.b.2	Compost				
2.b.3	Transfer				
2.b.4	Special Waste				
2.c	Landfill Closure/Post-Closure				
2.d	Recycling Collection	\$2,395,709	\$2,395,709	\$2,395,709	\$2,395,709
2.d.1	Curbside				
2.d.2	Drop-off	\$1,895,709	\$1,895,709	\$1,895,709	\$1,895,709
2.d.3	Combined Curbside/Drop-off				
2.d.4	Multi-family				
2.d.5	Business/Institutional				
2.d.6	Other (Site Improvements/Capital Assets)	\$500,000	\$500,000	\$500,000	\$500,000
2.e	Special Collections	\$550,000	\$550,000	\$550,000	\$550,000
2.e.1	Tire Collection	\$150,000	\$150,000	\$150,000	\$150,000
2.e.2	HHW Collection	\$375,000	\$375,000	\$375,000	\$375,000
2.e.3	Electronics Collection				
2.e.4	Appliance Collection				
2.e.5	Other Collection Drives	\$25,000	\$25,000	\$25,000	\$25,000
2.f	Yard Waste/Other Organics				
2.g	Education/Awareness	\$180,000	\$180,000	\$180,000	\$180,000
2.g.1	Education Staff				
2.g.2	Advertisement/Promotion	\$180,000	\$180,000	\$180,000	\$180,000
2.g.3	Other				
2.h	Recycling Market Development				
2.h.1	General Market Development Activities				
2.h.2	EPA Pass-Through Grant				
2.i	Service Contracts				
2.j	Feasibility Studies				
2.k	Waste Audits				
2.l	Dump Cleanup				
2.m	Litter Collection/Education				
2.n	Emergency Debris Management				
2.o	Loan Payment				
2.p	Other (Cleanup Grant)	\$35,000	\$35,000	\$35,000	\$35,000
2.q	Other (Diversion Grant)	\$150,000	\$150,000	\$150,000	\$150,000
3	Health Dept. Enforcement*	\$325,000	\$325,000	\$325,000	\$325,000
	<i>Canton City, Stark County, Tuscarawas County, and Wayne County Health Department</i>	\$325,000	\$325,000	\$325,000	\$325,000
4	County Assistance**				
5	Well Testing				
6	Out-of-State Waste Inspection				
7	Open Dump, Litter Law Enforcement	\$150,000	\$150,000	\$150,000	\$150,000
7.a	Health Departments				
7.b	Local Law Enforcement	\$150,000	\$150,000	\$150,000	\$150,000
7.c	Other				
8	Health Department Training				
9	Municipal/Township Assistance				
10	Compensation to Affected Community (ORC Section 3734.35)				
11	Public Health, Safety & Welfare Mitigation (ORC 3734.57)				
Total Expenses		\$4,864,973	\$4,889,889	\$4,915,553	\$4,941,986

Sample Calculation: 2036 value Plan Monitoring = (2035 value * 0.03) + 2035 value
 (\$13,048 * 0.03) + \$13,048 = \$13,439

The expense line items in **Table O-7** match those the District uses to report expenses in the quarterly fee reports. Each expense applicable to the District allocated to line items in **Table O-7** are explained here:

1. PLAN MONITORING/PREP.

1.A PLAN PREPARATION

2019 – 2024 – Budget includes estimated expenses related to retaining a consultant for assistance with plan preparation for each 3-year update that will occur during the planning period.

2025 – 2036 – Budgeted consultant expenses for developing Solid Waste Management Plan.

1.B PLAN MONITORING

2019 – 2024 – Budget includes estimated expenses related to retaining a consultant for assistance with plan monitoring for Annual District Reports during the planning period.

2025 – 2036 – Expenses are adjusted to increase 3% annually.

1.C PLAN MONITORING/PREP – OTHER

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2. PLAN IMPLEMENTATION

2.A DISTRICT ADMINISTRATION

2.a.1 Personnel –

2019 – 2024 – Budget includes expenditures for District Administrative staff salaries, OPERS, workers' compensation, Medicare, and health insurance.

2025 – 2036 – The District budgeted \$685,000 in 2025 and \$655,000 in 2026. Expenditures are projected to increase 3% annually from 2027 through the planning period based on historic trends and District practices.

2.a.2 Office Overhead –

2019 – 2024 – Budget includes supplies & administrative expenses which include prop/liability insurance, CMI/Re-TRAC subscriptions, IT support, utilities, maintenance, postage, copier service, etc.

2025 – 2036 – The District is budgeting an increase of \$196,350 in 2025 and multiplied the 2025 value by an assumed annual inflation rate of 3% annually through the planning period.

2.a.3 Admin Other –

2019 – 2024 – The budget included all direct costs of legal services.

2025 – 2036 – The approved budget for 2026 was used to project an increase of 3% annually throughout the planning period. This is based on the amount not to exceed for annual legal counsel as determined by the District over the past few years.

2.B. FACILITY OPERATION

2.b.1 MRF/Recycling Center –

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.b.2 Compost –

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.b.3 Transfer –

2019 – 2024 – No direct expenses.

- 2025 – 2036 – No planned direct expenses.
- 2.b.4 Special Waste –
2019 – 2024 – No direct expenses.
2025 – 2036 – No planned direct expenses.
- 2.C. LANDFILL CLOSURE/POST-CLOSURE**
2019 – 2024 – No direct expenses.
2025 – 2036 – No planned direct expenses.
- 2.D. RECYCLING COLLECTION**
- 2.d.1 Curbside –
2019 – 2024 – In 2024, the Recycling Makes Sense grant, originally designed to encourage contracted curbside recycling and increase volume, was restructured into a reimbursement grant.
2025 – 2036 – Due to increasing appropriations for other District programs (Household Hazardous Waste Management, Yard Waste Management, etc.), the District reduced the expenses of the Recycling Makes Sense Grant Program by restructuring the funding levels to encourage program expansions and enhancements that will achieve greater waste reduction rates while still incentivizing a community's implementation or continuation of a curbside recycling program. This grant will not be offered in the next planning cycle, there are no planned direct expenses.
- 2.d.2 Drop-off –
2019 – 2024 – Expenses in this line item includes the cost of maintaining the drop-off bins. District recycling truck driver salaries are included in this line item.
2025 – 2036 – The budget includes the cost of maintaining the drop-off bins. An annual inflation cost of 3% is applied through the planning period.
- 2.d.3 Combined Curbside/Drop-off –
2019 – 2024 – No direct expenses.
2025 – 2036 – No planned direct expenses.
- 2.d.4 Multi-Family –
2019 – 2024 – No direct expenses.
2025 – 2036 – No planned direct expenses.
- 2.d.5 Business/Institutional –
2019 – 2024 – No direct expenses.
2025 – 2036 – No planned direct expenses.
- 2.d.6 Other – Site Improvements/Capital Assets
2019 – 2024 – This item has not previously been included in our plan but was recommended by the Ohio EPA for addition to our Plan Budget. The budget will now include leasing trucks, bins, and other capital assets.
2025 – 2036 – The budget is holding \$500,000 annually beginning in 2028 through the planning period. Estimated costs include:
- Truck lease: approximately \$450,000;
 - 8-yard bin purchase: approximately \$1,500 per bin;
 - Bin replacement: with 500 bins in rotation, about 64 bins will likely need replacement each year (on an 8-year cycle), totaling roughly \$96,000 annually.
- This line item will also serve as a contingency fund to cover capital expenses if Ohio EPA grant requests are unsuccessful or if the District identifies a specific need such as site improvement.
- 2.E. SPECIAL COLLECTIONS**
- 2.e.1 Tire Collection –

2019 – 2024 – Costs include collecting tires at four residential tire drop-offs in Canton, Massillon, New Philadelphia, & Wooster. The District's residential tire drop-off sites are appointment-based, so appointments could be discontinued until the following year if the budgeted amount is met.

2025 – 2036 – Historic budgets allocated approximately \$90,000 to operate four residential tire collection sites across all three counties. The District is budgeting an additional \$60,000 in this budget to provide flexibility to cover the disposal costs of tires that fall outside our residential tire program—such as those identified through resident requests or referrals from local health departments.

2.e.2. HHW Collection –

2019 – 2024 – Expenses include direct costs of collecting HHW including Canton Recycling Center (CRC) appointments Tu/Fr 9-6; one pop-up fairground event (4 hours/225-appts.) in Tuscarawas/Wayne Counties.

2025 – 2036 – The 2025 budget of \$225,000 allocates the following: \$170,000 for disposal costs; \$40,000 for site management in partnership with the City of Canton; \$5,000 for assistance from the Wayne and Tuscarawas County Health Departments during collection events. Additional funds covered miscellaneous expenses such as iPads, licenses, supplies, and data services.

Looking ahead to 2028, the increased funding will be used to establish more localized pop-up collection events within each county. The District plans to continue to keep the Tuscarawas and Wayne County HHW collections but reduce services at the CRC. This keeps the \$40,000 through the HHW management agreement with the City of Canton and \$5,000 for HHW pop-up events for Tuscarawas and Wayne County Health Departments.

2.e.3. Electronics Collection –

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.e.4. Appliance Collection –

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.e.5. Other Collection Drives –

2019 – 2024 – Expenses include actual contractor costs for other event costs.

2025 – 2036 – This line item allocates funding for the District to host additional collection events based on community feedback. These events may include paper shredding, electronics recycling, battery and appliance collections, TV disposal, and other localized material collections that address specific needs within individual communities.

2.F. YARD WASTE/OTHER ORGANICS

2019 – 2024 – Expenses in this line item include funding for the yard waste grant program. Yard waste sites are eligible depending on site needs.

2025 – 2036 – The District expects for the residential yard waste drop-off sites to be privatized and thus will not need campaign assistance to deter commercial use. No other planned direct expenses are planned from 2026 through the planning period.

2.G. EDUCATION/AWARENESS

2.g.1. Education Staff–

2019 – 2023 – The Outreach Coordinator salary is included in the line item. The position became vacant in July of 2023.

2024 – 2036 – The District does not plan to fill the vacant Outreach Coordinator position therefore there are no planned direct expenses.

2.g.2. Advertisement/Promotion–

2019 – 2024 – Expenses in this line item include non-payroll expenses. These include expenses for the newsletter, marketing, design work, website, fair/presentation expos, Master Recycler program, government/school bags/bins, and other outreach activities.

2025 – 2036 – The District is budgeting \$160,000 for outreach activities for the plan period.

2.g.3. Other–

2019 – 2024 – In 2023, the District spent \$17,429.

2025 – 2036 – No planned direct expenses.

2.H. RECYCLING MARKET DEVELOPMENT

2.h.1 General Market Development Activities –

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.h.2 EPA pass-through grant –

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.I SERVICE CONTRACTS

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.J FEASIBILITY STUDIES

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.K WASTE ASSESSMENTS/AUDITS

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.L DUMP CLEANUP

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.M. LITTER COLLECTION/EDUCATION

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.N. EMERGENCY DEBRIS MANAGEMENT

2019 – 2024 – Expenses in this line item occurred in 2019, 2021, and 2022.

2025 – 2036 – No planned direct expenses.

2.O. LOAN PAYMENT

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

2.P. OTHER (CLEANUP GRANT)

2019 – 2024 – In 2019, the District spent \$8,303.

2025 – 2036 – The budget includes funding for Host Community Cleanup Grants -- \$25,000 recycle, \$10,000 tires, \$10,000 yard waste. We anticipate an approximate reimbursement of up to \$15,000 for these grants at its highest for the Recycle, \$10,000 for the tire and \$10,000 for the yard waste in 2025. Following 2025, the District is budgeting \$35,000 annually through the planning period. This assumes that \$10,000 each year will be provided to the District's four tire sites and up to \$25,000 for reimbursements for repairs at recycle sites for the plan budget.

2.Q. OTHER (STW DIVERSION GRANT) (fka. "Program Start-Up Grant")

2019 – 2024 – No direct expenses.

2025 – 2036 – The District is budgeting \$125,000 starting in 2028 and held through the plan period to provide funding to the STW Diversion Grant. The STW Diversion Grant will help communities divert materials from landfills through innovative special projects. This competitive grant program provides funding for initiatives that reduce waste and/or increase the diversion of recoverable materials that would otherwise be sent to a sanitary landfill for disposal. No reoccurring operating expenses.

Eligible applicants include local government entities such as cities, townships, and villages. Proposed projects should: Address the unique waste reduction, diversion, and recycling needs of the District; Emphasize partnership-building and collaboration; Identify opportunities to leverage the waste stream for community benefit. Eligible expenses include capital asset purchases and infrastructure enhancements that makes the operation more efficient, improves safety, etc.

Preference is given to projects submitted by the cities of Canton, New Philadelphia, and Wooster. Applications are accepted annually from September 1 through October 1.

3. HEALTH DEPT. ENFORCEMENT

CANTON CITY, STARK COUNTY, TUSCARAWAS COUNTY, AND WAYNE COUNTY HEALTH DEPARTMENT

2019 – 2024 – Expenses in this line item include direct funding expenses for the Canton City, Stark County, Tuscarawas County, and Wayne County Health Department.

2025 – 2036 – A flat annual budget of \$325,000 is allocated to this program.

4. COUNTY ASSISTANCE

4.A. MAINTAINING ROADS

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

5. WELL TESTING

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

6. OUT-OF-STATE WASTE INSPECTION

2019 – 2024 – No direct expenses.

2025 – 2036 – No planned direct expenses.

7. OPEN DUMP, LITTER LAW ENFORCEMENT

7.B. SHERIFF'S DEPARTMENT REIMBURSEMENT GRANT

2019 – 2024 – Expenses in this line item include funding for the Sheriff's Department Reimbursement Grant program. This grant program supports training and educational initiatives for local political subdivisions and is reimbursable upon completion. Eligible training and education efforts must focus on topics such as illegal dumping prevention, federal motor carrier requirements, or the promotion of District programs—including initiatives like the DEA Take Back and other related community outreach activities.

2025 – 2036 – Beginning in 2028, the budget includes a flat amount of \$150,000 through the plan period. Duties of the Sheriff Department will be re-framed for the next planning period. The Sheriff Department will no longer need to collect prescription medications deposited at drop boxes at local police stations. These dropboxes will be removed and the District no longer has a need to maintain these drop boxes. Through District efforts, local pharmacies are offering collection points and managing drug take-back programs.

8. HEALTH DEPARTMENT TRAINING

2019 – 2024 – No direct expenses

2025 – 2036 – No planned direct expenses

9. MUNICIPAL/TOWNSHIP ASSISTANCE

2019 – 2024 – No direct expenses

2025 – 2036 – No planned direct expenses

10. COMPENSATION TO AFFECTED COMMUNITY (ORC SECTION 3734.35)

2019 – 2024 – No direct expenses

2025 – 2036 – No planned direct expenses

11. PUBLIC HEALTH, SAFETY & WELFARE MITIGATION (ORC 3734.57)

2019 – 2024 – No direct expenses

2025 – 2036 – No planned direct expenses

Table O-8 Budget Summary

Year	Revenue	Expenses	Annual Surplus/Deficit (\$)	Balance (\$)
2018			Ending Balance	\$3,790,837
2019	\$4,055,093	\$4,169,964	-\$114,872	\$3,675,965
2020	\$3,844,404	\$4,551,895	-\$707,491	\$2,968,474
2021	\$3,895,549	\$4,317,705	-\$422,156	\$2,546,318
2022	\$3,791,946	\$4,101,205	-\$309,260	\$2,237,058
2023	\$3,550,774	\$4,009,753	-\$458,979	\$1,778,079
2024	\$3,665,198	\$4,038,837	-\$373,639	\$1,404,440
2025	\$3,630,000	\$3,977,342	-\$347,342	\$1,057,098
2026	\$3,751,686	\$3,628,685	\$123,001	\$1,180,099
2027	\$3,752,729	\$3,698,581	\$54,148	\$1,234,248
2028	\$4,927,780	\$4,467,738	\$460,042	\$1,694,289
2029	\$4,929,347	\$4,518,725	\$410,622	\$2,104,911

Year	Revenue	Expenses	Annual Surplus/Deficit (\$)	Balance (\$)
2030	\$4,930,916	\$4,592,522	\$338,394	\$2,443,305
2031	\$4,932,487	\$4,725,698	\$206,790	\$2,650,095
2032	\$4,934,060	\$4,783,824	\$150,237	\$2,800,331
2033	\$4,935,635	\$4,864,973	\$70,661	\$2,870,993
2034	\$4,937,211	\$4,889,889	\$47,322	\$2,918,315
2035	\$4,938,790	\$4,915,553	\$23,237	\$2,941,551
2036	\$4,940,370	\$4,941,986	-\$1,617	\$2,939,935

ALTERNATIVE BUDGET

The District does not anticipate the need to identify any type of contingent funding or financing that would be necessary to fund any type of program activity in conjunction with Plan implementation efforts.

Plan Update Budget Demonstration Policy

The budget projections were prepared in good faith using the best and most current information available. The District has prepared the budget section of this Plan Update to meet the requirements in the Ohio Revised Code, Section 3734.53 (A)(13)(d):

The methods of financing implementation of the plan and a demonstration of the availability of financial resources for that purpose.

The budget tables prepared for this Plan Update demonstrates that the District has the financial funding throughout the planning period to implement the planned programs and initiatives.

Nothing contained in these budget projections should be construed as a binding commitment by the District to spend a specific amount of money on a particular strategy, facility, program and/or activity. The Board, with the advice and assistance of the District's Executive Director, will review and revise the budget as needed to implement the planned strategies, facilities, programs and/or activities as effectively as possible with the funds available.

Revenues, not otherwise committed to an existing strategy, facility, program, or activity may be used to increase funding to improve the effectiveness of an existing strategy, facility, program or activity and to provide funding for a new strategy, facility, program or activity the Board concludes is justified based on the District's Executive Director recommendations and the content of this Plan Update.

The District reserves the right to revise the budget and reallocate funds as programs change or when otherwise determined to be in the best interest of the District. If the budget in this Plan Update is affected to the point that it must be revised, the District will first determine if a material change in circumstance has occurred. If a material change in circumstance has not occurred but budget revisions are needed that go beyond normal adjustments, the District may revise the budget per ORC Section 3734.56(E) and follow the appropriate ratification requirements to finalize the budget revisions.

The District is committed to implementing planned strategies, facilities, programs and/or activities in a cost-effective manner. The District is committed to improving the effectiveness and reduce the cost of all District strategies, facilities, programs and activities. The District Board is authorized to expend District funds among other uses included in the Plan Update when costs are reduced. Additionally, the Board is authorized to use reduced costs to provide grant funds or direct funding to evaluate, test and/or implement new strategies, facilities, programs and activities that are in compliance with this Plan Update are not a “material change in circumstance” regarding the implementation of this Plan Update.

Any transfer of funding between line items will not constitute a material change of circumstances or require a ratification of the budget unless deemed necessary by the Board of Commissioners. The Board of Commissioners will determine if a material change in circumstances has occurred and will refer to Appendix A for those requirements and guidelines.

APPENDIX P

DESIGNATION

Appendix P.

Designation

A. Statement Authorizing Designation/ Precluding Designation

Ohio law gives each SWMD the ability to control where waste generated from within the SWMD can be taken. Such control is generally referred to as flow control. In Ohio, SWMDs establish flow control by designating facilities. SWMDs can designate any type of solid waste facility, including recycling, transfer, and landfill facilities¹.

Even though a SWMD has the legal right to designate, it cannot do so until the policy committee (or the Board in the case of an Authority) specifically conveys that authority to the board of directors. The policy committee does this through a solid waste management plan. If the SWMD desires to have the ability to designate facilities, then the policy committee includes a clear statement in the solid waste management plan giving the designation authority to the board of directors. The policy committee can also prevent the board of directors from designating facilities by withholding that authority in the solid waste management plan.

Even if the policy committee grants the board of directors the authority to designate in a solid waste management plan, the board of directors decides whether or not to act on that authority. If it chooses to use its authority to designate facilities, then the board of directors must follow the process that is prescribed in ORC Section 343.014. If it chooses not to designate facilities, then the board of directors simply takes no action.

Once the board of directors designates facilities, only designated facilities can receive the SWMD's waste. In more explicit terms, no one can legally take waste from the SWMD to undesignated facilities and undesignated facilities cannot legally accept waste from the SWMD. The only exception is when the board of directors grants a waiver to allow an undesignated facility to take the SWMD's waste. Ohio law prescribes the criteria that the board must consider when deciding whether to grant a waiver and the time period available to the board for making a decision on a waiver request.

1. AUTHORIZATION STATEMENT TO DESIGNATE

The District is hereby authorized to establish facility designations in accordance with ORC Section 343.013, 343.014 and 343.015.

2. DESCRIPTION OF THE SWMDs DESIGNATION PROCESS

Decisions regarding designation, if implemented, or the granting of a designation waiver, if applicable, shall be made by the District, following a review of the request by the Policy Committee.

¹ Source-separated recyclables delivered to a "legitimate recycling facility" as defined in Ohio law are not subject to the requirements of designation. (A legitimate recycling facility is loosely defined as a facility which consistently recycles a majority of the materials processed on-site.)

If the District designates facilities, it may grant a waiver to a non-designated entity to provide solid waste disposal, transfer or resource recovery facilities or activities at any time after the plan update is approved and in accordance with the criteria specified in ORC 343.01(I)(2). The Policy Committee will evaluate each request for designation or waiver based upon, at least, the following general criteria:

- The facility's compatibility with the District's Solid Waste Management Plan.
- Other criteria as defined in Section C of this appendix.

B. Designated Facilities

The District continues to support an open market for the collection, transport and disposal of solid waste. As required in Section 3734.53(A)(13)(a) of the Ohio Revised Code, the District is identifying all Ohio licensed and permitted solid waste landfill, transfer and resource recovery facilities and all licensed and permitted out-of-state landfill, transfer and resource recovery facilities. The District is also identifying recycling and composting programs and facilities that are identified in Appendix B Inventories.

The District is not designating any facilities in this 2026 Plan Update as shown in Table P-1.

Table P-1 Designated Facilities

Facilities Currently Designated		
Facility Name	County	State
None		

C. Waiver Process for the Use of Undesignated Facilities

The District is authorized to designate solid waste facilities. If the Board elects to designate solid waste facilities after this Plan Update is approved by the Director of the Ohio EPA, the following waiver process may be followed by any person, municipal corporation, township or other entity that wishes to deliver waste to a solid waste facility not designated by the District.

In the event that any person, municipal corporation, township or other entity requests permission to use a facility, other than a designated facility, for the disposal of solid waste generated within the District, the entity must submit a written request for a waiver of designation to the Board. The request must contain the following information:

1. Identification of the persons, municipal corporation, township or other entity requesting the waiver;
2. Identification of the generators(s) of the solid waste for which the waiver is requested;
3. Identification of the type and quantity (in tons per year) of solid waste for which the waiver is requested;
4. Identification of the time period(s) for which the waiver is requested;
5. Identification of the disposal facility(s) to be used if the waiver is granted;
6. If the solid waste is to be disposed in an Ohio landfill, a letter from the Solid Waste Management District where the solid waste will be disposed, acknowledging that the activity is consistent with that District's current plan;

7. An estimate of the financial impact to the District that would occur with issuance of the requested waiver; and
8. An explanation of the reason(s) for requesting the waiver.

Upon receipt of the written request containing all of the information listed above, District staff will review it and may request additional information necessary to conduct its review. The Board shall act on a waiver request within ninety days following receipt of the request. The Board may grant the request for a waiver only if the Board determines that:

1. Issuance of the waiver is not inconsistent with projections contained in the District's approved Plan Update under Section 3734.53 (A)(6) and (A)(7) of the Ohio Revised Code;
2. Issuance of the waiver will not adversely affect implementation and financing of the District's approved Plan Update; and
3. The entity is willing to enter into an agreement requiring the payment of a waiver fee to the District if the generation fee is not collected.

APPENDIX Q

DISTRICT RULES

Appendix Q. District Rules

A. Existing Rules

According to Ohio Revised Code Section **3734.53(C)**, a county or joint solid waste management district may adopt rules under division (G) of Section **343.01 of the Revised Code** after approval of the district's solid waste management plan.

The Stark–Tuscarawas–Wayne Joint Solid Waste Management District (“District”) reserves the authority for the Board of Directors (“Board”) to adopt rules consistent with Ohio Revised Code Chapters **343 and 3734**.

The District previously adopted rules on **November 3, 2006**. Following litigation regarding enforceability under the District's approved Plan at that time, the District adopted rules associated with the **2010 Plan**.

The District repealed its previous rules in **March 2026** and proposes to adopt the rules contained in this Appendix upon approval of this Solid Waste Management Plan.

B. Authority

These Rules are adopted pursuant to:

- Ohio Revised Code Section 343.01(G)
- Ohio Revised Code Section 3734.53(C)

These statutes authorize a county or joint solid waste management district to adopt rules necessary to implement and administer its approved solid waste management plan.

The District's authority under these Rules is limited and does not replace or duplicate regulatory authority exercised by the Ohio Environmental Protection Agency (Ohio EPA) or other agencies with jurisdiction over solid waste facilities.

C. Purpose and Scope

The purpose of these Rules is to establish a process for the District to review proposed solid waste facilities and modifications to existing facilities for **consistency with the District Solid Waste Management Plan (“Plan”)**.

These Rules are intended to ensure that solid waste facilities located within the District:

- are consistent with the projections and strategies contained in the Plan; and
- do not materially impair the District's ability to implement the Plan.

These Rules **do not regulate the engineering design, construction, environmental performance, or operational compliance of solid waste facilities**, which are matters under the jurisdiction of **Ohio EPA and other applicable regulatory authorities**.

In the event of any conflict between these Rules and state or federal law or regulations, the determination of the agency with regulatory authority shall control.

D. Definitions

For purposes of these Rules:

Applicant

Any person proposing to construct, modify, expand, or renew a permit for a Solid Waste Facility within the District.

Board

The Board of Directors of the Stark–Tuscarawas–Wayne Joint Solid Waste Management District.

District

The Stark–Tuscarawas–Wayne Joint Solid Waste Management District.

Plan

The District Solid Waste Management Plan approved pursuant to Ohio Revised Code Section **3734.53**, including any amendments.

Solid Waste Facility

Has the same meaning as defined in Ohio Revised Code Section **3734.01**.

All other terms shall have the meanings provided in Ohio Revised Code Chapters **343 and 3734**

E. Plan Consistency

1. Applicability

Plan consistency review applies to the following activities occurring within the District:

- construction of a new Solid Waste Facility;
- modification or expansion of an existing Solid Waste Facility; or
- permit renewals or operational changes that may materially affect the District's ability to implement the Plan.

The District's review under these Rules is limited to determining whether the proposed activity is **consistent with the Plan**.

2. Relationship to Ohio EPA Permitting

Nothing in these Rules replaces or duplicates the permitting authority of the Ohio Environmental Protection Agency.

Technical, environmental, engineering, and operational compliance determinations for solid waste facilities are under the jurisdiction of **Ohio EPA and other applicable regulatory agencies**.

Applicants are encouraged to submit materials for District review **after issuance of a conditional permit-to-install by Ohio EPA**, or at another stage appropriate for evaluating Plan consistency.

F. Submission Requirements

An Applicant seeking a Plan consistency determination shall submit sufficient information to allow the District to evaluate whether the proposed facility or modification is consistent with the Plan.

Information may include:

- description of the proposed facility or modification;
- projected waste types and volumes;
- anticipated waste sources;
- general site location and site plan;
- transportation routing information;
- documentation of local zoning or land-use approvals if applicable; and
- a written narrative describing how the proposal is consistent with the Plan.

The Board may request **additional information reasonably necessary** to complete its review.

G. Scope of District Review

The District's review shall be limited to evaluating whether the proposed activity is consistent with the District Plan, including consideration of:

- waste capacity projections contained in the Plan;
- waste flow assumptions contained in the Plan;
- recycling, diversion, and waste reduction strategies included in the Plan; and
- the District's ability to meet statutory planning obligations.

The District shall **not establish technical design standards or environmental performance requirements** for solid waste facilities.

The District may reference the subjects of Appendix S- Strategy S.04.

H. Technical Review and Consultants

To assist in evaluating Plan consistency, the Board may:

- request assistance from county sanitary engineers, health departments, or regional planning agencies;
- obtain written input from host communities or other political subdivisions; and

- retain engineers, planners, attorneys, or other professional consultants.

Pursuant to Ohio Revised Code Section **343.01(G)(2)**, the District reserves the right to seek reimbursement for costs incurred in extraordinary circumstances, at the sole discretion of the Board.

I. Review Process and Timelines

1. Completeness Determination

Within **forty-five (45) days** of receiving a submission, the District will endeavor to determine whether the materials provided contain sufficient information to begin review.

If additional information is required, the District shall notify the Applicant.

2. Review Period

After determining that the submission is complete, the District may have **one hundred twenty (120) days** and issue a determination.

The Board may extend this review period for an additional **sixty (60) days** if necessary to:

- obtain technical review from consultants,
- evaluate additional information submitted by the Applicant, or
- allow for coordination with local governmental entities.

3. Determination

Upon completion of its review, the Board shall determine whether the proposed activity is:

- **consistent with the District Plan**, or
- **not consistent with the District Plan.**

The Board may issue written findings explaining its determination.

4. Effect of Determination

A finding of non-consistency will be communicated in writing to the applicant. The Board may, at its discretion, provide a copy of the non-consistency finding to the Ohio EPA for consideration in connection with any related permitting action. No further enforcement action by the District is required or implied.

J. Information Sharing

Owners or operators of solid waste facilities located within the District shall cooperate with reasonable District requests for information necessary to:

- evaluate implementation of the Plan;
- verify waste capacity or waste flow assumptions contained in the Plan; or
- assist in preparation of future Plan updates.

Nothing in this Rule authorizes the District to require monitoring, testing, or reporting beyond that required by Ohio EPA or other regulatory agencies.

K. Waiver

The Board may waive procedural requirements of these Rules by majority vote if the Board determines that the waiver:

- will not impair implementation of the Plan; and
- is in the best interest of the District.

L. Severability

If any provision of these Rules is determined to be invalid by a court of competent jurisdiction, the remaining provisions shall remain in full force and effect.

M. Rule Adoption

Rules adopted by the Board pursuant to these provisions shall be adopted in accordance with **Ohio Revised Code Section 343.01(G)** and may be amended or repealed by the Board as necessary to implement the District Solid Waste Management Plan.

APPENDIX R

BLANK SURVEY FORMS AND RELATED INFORMATION



STARK-TUSCARAWAS-WAYNE JOINT SOLID WASTE MANAGEMENT DISTRICT

9918 Wilshire Blvd NE • Bolivar, OH 44612
330-874-2258 • 800-678-9839 • 330-874-2449 FAX
www.timetorecycle.org • district@timetorecycle.org

David Held
Executive Director

Erica Wright
Finance Director

February 2024

Dear Commercial/Industrial Facility Manager:

WE NEED YOUR HELP.

We are required to submit recycling data to the Ohio EPA. Please take a moment to fill out the below survey to help us achieve our required goals.

How to participate in our brief survey:

The survey asks for the total tons recycled in **2023**, which can typically be found on hauler invoices or receipts from processors/brokers of recyclable materials. If weights are not provided to you, you may be able to request this information from your service provider. Completing the survey should take only a few minutes.

Please complete your survey by **April 1, 2024** by following the steps below:

- Visit <https://bit.ly/3SjJtr4>*
- Follow the instructions for completing the survey, check for accuracy, and click "Submit Survey".

If you have questions about the survey or would like to complete a paper survey, please contact Lizzie Van Deusen, the District's consultant, at GT Environmental. Lizzie can be reached at lvandeusen@gtenvironmental.com.

We greatly appreciate your willingness to participate and value your feedback.

Sincerely,

David J. Held
Executive Director
Stark-Tuscarawas-Wayne Joint Solid Waste Management District

*In the event you cannot reach the survey by the shortened link above,
please scan the QR code with your smart phone camera:



BOARD of DIRECTORS

Stark
Janet Weir Creighton
Richard Regula
Bill Smith

Tuscarawas
Chris Abbuhl
Greg Ress
Kristin Zemis

Wayne
Ron Amstutz
Jonathan Hofstetter
Sue Smal

STARK-TUSCARAWAS-WAYNE JOINT SOLID WASTE MANAGEMENT DISTRICT

2023 RECYCLING SURVEY

Instructions: Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated from Stark, Tuscarawas, and Wayne Counties. **Confidentiality:** The Stark-Tuscarawas-Wayne Joint Solid Waste Management District will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled. If you have any questions or need assistance completing the survey, contact the District's consultant, Lizzie Van Deusen, at (614) 794-3570 ext. 113.

PLEASE RETURN COMPLETED SURVEY BY USING ONE OF THESE METHODS:

Email: lvandeusen@gtenvironmental.com or Fax: (614) 899-9255

1. Contact Information (this information will be kept private):

Company Name: _____
 Mailing Address: _____
 Contact Name: _____ No. of Employees: _____
 Phone Number: _____ Email address: _____

☐ I would like someone to reach out to me for more information about recycling options.

2. Does your organization recycle? (please check one)

- ☐ Yes (**CONTINUE**)
☐ No (**END – Please return survey as directed above**)

3. Materials Recycled in 2023

Data recorded in this table should include all of the materials recycled by your company in **2023** along with the processor/recycler/broker/landfill/transfer station/incinerator used for each material. Please estimate the quantities of each type of material recycled in tons. The data in the recycled column is used to calculate the District's progress in meeting state and local recycling goals. For data conversions assume the following: 2000 Pounds = 1 ton and 3 cubic yards = 1 ton.

Cardboard Dumpster	Size of Dumpster (cubic Yards) (a)	Percentage Full When Picked up (b)	No of Pickups per week (c)	Estimated Cardboard Recycled (Tons) (a) x (b) x (c) x 52 / 20
<i>Example</i>	<i>6 cubic yards</i>	<i>80% full</i>	<i>1 time/week</i>	<i>(6 x 0.80 x 1 x 52 / 20) = 12.48 tons</i>
1				
2				
3				
Total Cardboard Recycled in Tons (Enter in Cardboard row below)				

Mixed/Commingled Recyclables Dumpster	Size of Dumpster (cubic Yards) (a)	Percentage Full When Picked up (b)	No of Pickups per week (c)	Estimated Mixed/Commingled Recycled (Tons) (a) x (b) x (c) x 52 / 18
<i>Example</i>	<i>8 cubic yards</i>	<i>75% full</i>	<i>1 time/week</i>	<i>(8 x 0.75 x 1 x 52 / 18) = 17.33 tons</i>
1				
2				
3				
Total Mixed/Commingled Recycled in Tons (Enter in Mixed/Commingled row below)				

4. Materials Recycled in 2023 Survey

Material	Amount	Measurement		Name of Recycler or Hauler
<i>Example:</i> <i>Mixed/Commingled Recycling</i>	<i>3.5</i>	☐ Pounds ☒ Tons	☐ Cubic Yards	<i>Recycling Brothers of Ohio</i>
Mixed/Commingled Recycling		☐ Pounds ☐ Tons	☐ Cubic Yards	
Paper (Newsprint, Office, Glossy, Books etc.)		☐ Pounds ☐ Tons	☐ Cubic Yards	
Cardboard/Paperboard		☐ Pounds ☐ Tons	☐ Cubic Yards	
Glass		☐ Pounds ☐ Tons	☐ Cubic Yards	
Ferrous Metals (Steel, Iron): Do not report auto bodies or construction/ demolition materials such as rebar		☐ Pounds ☐ Tons	☐ Cubic Yards	
Non-Ferrous Metals (Aluminum, Copper, Brass): Do not report auto bodies or construction/ demolition materials such as aluminum siding		☐ Pounds ☐ Tons	☐ Cubic Yards	
Plastics (#1-#7)		☐ Pounds ☐ Tons	☐ Cubic Yards	
Other Plastic Bags/Film Plastics		☐ Pounds ☐ Tons	☐ Cubic Yards	
Wood (Except Pallets)		☐ Pounds ☐ Tons	☐ Cubic Yards	
Wood - Pallets		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Number/Units	
Food (Do NOT include Cooking Oil)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Gallons	
Appliances (White Goods)		☐ Pounds ☐ Tons	☐ Cubic Yards	
Rubber (Not including Tires)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Number/Units	
Used Tires		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Gallons	
Used Motor Oil (Residential Only)		☐ Pounds ☐ Tons	☐ Cubic Yards	
Used Antifreeze (Residential Only)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Number/Units	
Electronics (Residential: Computers, TVs, Cellphones, etc.)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Gallons	
Rechargeable/Household Batteries		☐ Pounds ☐ Tons	☐ Cubic Yards	
Lead-acid Batteries (Automotive Batteries)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Gallons	
Ink/Toner Cartridges		☐ Pounds ☐ Tons	☐ Cubic Yards	
Textiles (Clothing, Fabrics)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Number/Units	
Non-Exempt Foundry Sand		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Gallons	
Yard Waste (Grass, Leaves, Branches)		☐ Pounds ☐ Tons	☐ Cubic Yards ☐ Gallons	
Other (specify):		☐ Pounds ☐ Tons	☐ Cubic Yards	
Other (specify):		☐ Pounds ☐ Tons	☐ Cubic Yards	

THANK YOU FOR YOUR HELP!



STARK-TUSCARAWAS-WAYNE JOINT SOLID WASTE MANAGEMENT DISTRICT

9918 Wilkshire Blvd NE • Bolivar, OH 44612
330-874-2258 • 800-678-9839 • 330-874-2449 FAX
www.timetorecycle.org • district@timetorecycle.org

David Held
Executive Director

Erica Wright
Finance Director

February 2024

Dear Manager,

WE NEED YOUR HELP.

We are required to submit recycling data to the Ohio EPA. Please take a moment to fill out the below survey to help us achieve our required goals.

Please complete your survey by **April 1, 2024** by following the steps below:

- Visit <https://bit.ly/493Sb3e>*
- Follow the instructions for completing the survey, check for accuracy,
- and click "Submit Survey".

If you have questions about the survey or would like to complete a paper survey, please contact Lizzie Van Deusen, the District's consultant, at GT Environmental. Lizzie can be reached at lvandeusen@gtenvironmental.com.

We greatly appreciate your willingness to participate and value your feedback.

Sincerely,

David J. Held
Executive Director
Stark-Tuscarawas-Wayne Joint Solid Waste Management District

*In the event you cannot reach the survey by the shortened link above,
please scan the QR code with your smart phone camera:



BOARD of DIRECTORS

Stark
Janet Weir Creighton
Richard Regula
Bill Smith

Tuscarawas
Chris Abbuhl
Greg Ress
Kristin Zemis

Wayne
Ron Amstutz
Jonathan Hofstetter
Sue Smail

STARK-TUSCARAWAS-WAYNE JOINT WASTE MANAGEMENT DISTRICT

2023 RECYCLING SURVEY

Instructions: Please complete the survey to the best of your ability. Only report materials generated within Stark, Tuscarawas, and Wayne Counties in Ohio. **Confidentiality:** The Stark-Tuscarawas-Wayne Joint Solid Waste Management District will use the information in this survey for summary purposes only to identify local recycling rates. If you have any questions or need assistance completing the survey, contact the District's consultant, Lizzie Van Deusen, at (614) 794-3570 ext. 113.

PLEASE RETURN COMPLETED SURVEY BY USING ONE OF THESE METHODS

Email: lvandeusen@gtenvironmental.com or Fax: (614) 899-9255

1. Contact Information (this information will be kept private):

Company Name: _____
Mailing Address: _____
Contact Name: _____ No. of Employees: _____
Phone Number: _____ Email address: _____

2. Facility Information: In 2023, where did your facility accept material from? Please check all that apply.

- ☐ Stark, Tuscarawas, and/or Wayne Counties
☐ Only Ohio Counties other than Stark, Tuscarawas, and/or Wayne Counties ☐ Areas Outside Ohio

3. Materials Recycled in 2023

Please report the amount of materials recycled in **2023** that were generated *within* Stark, Tuscarawas, and Wayne Counties in Ohio in the following table. Indicate whether materials were generated by the residential/commercial sector or the industrial sector using the columns below. Residential/commercial sector refers to recycling generated from households, commercial businesses, and institutions such as schools; Industrial sector refers to recycling generated by manufacturing facilities. **The data in the tonnage columns is used to calculate the District's progress in meeting state and local recycling goals.** For data conversions assume the following: 2,000 pounds = 1 ton, 3 cubic yards = 1 ton, 7.5 lbs = 1 gallon of used oil, and 8 lbs = 1 gallon of used antifreeze.

Material	Residential/ Institutional/ Commercial Quantity	Measurement	Industrial Quantity	Measurement
Mixed/Commingled Recycling		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Paper (Newsprint, Office, Glossy, Books etc.)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Cardboard/Paperboard		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Glass		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Ferrous Metals (Steel, Iron): Do not report auto bodies or construction/ demolition materials such as rebar.		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Non-Ferrous Metals (Aluminum, Copper, Brass): Do not report auto bodies or construction/demolition materials such as aluminum siding		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Plastics (#1-#7)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Other Plastic Bags/Film Plastics		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons

Material	Residential/ Institutional/ Commercial Quantity	Measurement	Industrial Quantity	Measurement
Wood (Except Pallets)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Wood - Pallets		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Food (Do NOT include Cooking Oil)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Appliances (White Goods)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Rubber (Not including Tires)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Used Tires		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Used Motor Oil (Residential Only)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Used Antifreeze (Residential Only)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Electronics (Residential: Computers, TVs, Cellphones, etc.)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Rechargeable/Household Batteries		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Lead-acid Batteries (ex. Automotive Batteries)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Ink/Toner Cartridges		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Textiles (Clothing, Fabrics)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Non-Exempt Foundry Sand		☐ Pounds ☐ Cubic Yards ☐ Tons ☒ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☒ Gallons
Yard Waste (Grass, Leaves, Branches)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Other (specify):		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Other (specify):		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons

4. Other Processors

If materials collected by your establishment that were reported above are sent to another company to be processed or recycled, please identify the type, quantity, and destinations of materials in the table below. This information is used to avoid double-counting material that has been recycled within the District.

Facility	Type of Recyclable	Amount



STARK-TUSCARAWAS-WAYNE JOINT SOLID WASTE MANAGEMENT DISTRICT

9918 Wilshire Blvd NE • Bolivar, OH 44612
330-874-2258 • 800-678-9839 • 330-874-2449 FAX
www.timetorecycle.org • district@timetorecycle.org

David Held
Executive Director

Erica Wright
Finance Director

February 2024

Dear Ohio Recycling Broker,

WE NEED YOUR HELP.

We are collecting data related to recycling in our area. Please take a moment to fill out the below survey to help us achieve our required goals.

How to participate in our brief survey:

Please complete the survey using only **calendar year 2023 information**. Only materials generated within Stark, Tuscarawas, and Wayne Counties in Ohio should be reported. Completing this survey should take only a few minutes.

Please complete your survey by **April 1, 2024** by following the steps below:

- Visit <https://bit.ly/3SvZ4F4>*
- Follow the instructions for completing the survey, check for accuracy,
- and click "Submit Survey".

If you have questions about the survey or would like to complete a paper survey, please contact Lizzie Van Deusen, the District's consultant, at GT Environmental. Lizzie can be reached at lvandeusen@gtenvironmental.com.

We greatly appreciate your willingness to participate and value your feedback.

Sincerely,

David J. Held
Executive Director
Stark-Tuscarawas-Wayne Joint Solid Waste Management District

*In the event you cannot reach the survey by the shortened link above,
please scan the QR code with your smart phone camera:



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Wayne
Ron Amstutz
Jonathan Hofstetter
Sue Smail

STARK-TUSCARAWAS-WAYNE JOINT WASTE MANAGEMENT DISTRICT 2023 RECYCLING FACILITY/BROKER/PROCESSOR SURVEY

Instructions: Please complete the survey to the best of your ability. Only report materials generated within Stark, Tuscarawas, and Wayne Counties in Ohio. **Confidentiality:** The Stark-Tuscarawas-Wayne Joint Solid Waste Management District will use the information in this survey for summary purposes only to identify local recycling rates. If you have any questions or need assistance completing the survey, contact the District's consultant, Lizzie Van Deusen, at (614) 794-3570 ext. 113.

PLEASE RETURN COMPLETED SURVEY BY USING ONE OF THESE METHODS:

Email: lvandeusen@gtenvironmental.com or Fax: (614) 899-9255

1. Contact Information (this information will be kept private):

Company Name: _____
Mailing Address: _____
Contact Name: _____ No. of Employees: _____
Phone Number: _____ Email address: _____

2. Facility Information: In 2023, where did your facility accept material from? Please check all that apply.

- ☐ Stark, Tuscarawas, and/or Wayne Counties
☐ Only Ohio Counties other than Stark, Tuscarawas, and/or Wayne Counties ☐ Areas Outside Ohio

3. Materials Recycled in 2023

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Material	Residential/ Institutional/ Commercial Quantity	Measurement	Industrial Quantity	Measurement
Mixed/Commingled Recycling		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Paper (Newsprint, Office, Glossy, Books etc.)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Cardboard/Paperboard		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Glass		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Ferrous Metals (Steel, Iron): Do not report auto bodies or construction/ demolition materials such as rebar.		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Non-Ferrous Metals (Aluminum, Copper, Brass): Do not report auto bodies or construction/demolition materials such as aluminum siding		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Plastics (#1-#7)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Other Plastic Bags/Film Plastics		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons

Material	Residential/ Institutional/ Commercial Quantity	Measurement	Industrial Quantity	Measurement
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Wood - Pallets		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Food (Do NOT include Cooking Oil)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Appliances (White Goods)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Rubber (Not including Tires)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Used Tires		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Used Motor Oil (Residential Only)		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Used Antifreeze (Residential Only)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Electronics (Residential: Computers, TVs, Cellphones, etc.)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Rechargeable/Household Batteries		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Lead-acid Batteries (ex. Automotive Batteries)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Ink/Toner Cartridges		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Textiles (Clothing, Fabrics)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Number/Units
Non-Exempt Foundry Sand		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Yard Waste (Grass, Leaves, Branches)		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons		☐ Pounds ☐ Cubic Yards ☐ Tons ☐ Gallons
Other (specify):		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons
Other (specify):		☐ Pounds ☐ Cubic Yards ☐ Tons		☐ Pounds ☐ Cubic Yards ☐ Tons

4. Other Processors

If materials collected by your establishment that were reported above are sent to another company to be processed or recycled, please identify the type, quantity, and destinations of materials in the table below. This information is used to avoid double-counting material that has been recycled within the District.

Facility	Type of Recyclable	Amount

THANK YOU FOR YOUR HELP!

APPENDIX S

SITING STRATEGY

Appendix S.

Siting Strategy

Purpose and Scope

This Siting Strategy establishes the District's policy framework for evaluating whether the construction or modification of solid waste facilities within the District is consistent with the District Solid Waste Management Plan ("Plan").

This Strategy supports the implementation of the District Rules governing Plan consistency review and is intended to guide the Board's evaluation of proposals under those Rules.

This Strategy does not create independent permitting requirements, technical standards, or land use regulations and does not replace or duplicate the regulatory authority of the Ohio Environmental Protection Agency ("Ohio EPA") or other applicable agencies.

This Strategy shall be implemented through the District Rules and procedures contained in Appendix Q.

Strategy S.01 — Applicability

This Siting Strategy applies to proposals to:

- A. Construct a new Solid Waste Facility within the District; or
- B. Modify or expand an existing Solid Waste Facility in a manner that may affect Plan consistency.

This Strategy applies to facilities proposed by any Person, other than facilities proposed and developed directly by the District.

Applicability of District review is governed by Appendix Q.

Strategy S.02 — Relationship to District Rules and Regulatory Agencies

- A. This Siting Strategy shall be implemented through the District's Rules governing Plan consistency review.
- B. The Board's review under this Strategy is limited to Plan consistency and District planning considerations.
- C. Technical, engineering, environmental, and operational compliance determinations for solid waste facilities are under the jurisdiction of Ohio EPA and other applicable regulatory agencies.
- D. Nothing in this Strategy is intended to establish solid waste facility design standards or environmental performance requirements prohibited by Ohio Revised Code Section 343.01(G).

Strategy S.03 — Plan Consistency Objectives

In evaluating Plan consistency under the District Rules, the Board seeks to ensure that proposed facilities or modifications:

- A. Are consistent with waste capacity projections contained in the Plan;
- B. Do not materially alter waste flow assumptions or facility utilization projections relied upon in the Plan;
- C. Do not impair the District's ability to implement recycling, diversion, and waste reduction strategies identified in the Plan; and
- D. Do not materially impair the District's ability to meet its statutory planning obligations under Ohio Revised Code Chapter 3734.

Strategy S.04 — Planning Considerations

The following considerations may inform the Board's evaluation of whether a proposal is consistent with the Plan. These considerations do not establish siting standards or regulatory requirements and are evaluated only to the extent they relate to implementation of the Plan.

In determining whether a proposal is consistent with the Plan, the Board may consider:

A. Location and Land Use Compatibility

Whether the proposed facility location is generally compatible with surrounding land uses or applicable local land use plans.

B. Transportation and Access

Whether transportation routes and access patterns appear reasonable in relation to existing roadway infrastructure and the Plan's waste flow assumptions.

C. Community Considerations

Whether the proposed facility, as described in the submission materials, appears reasonably designed to minimize impacts such as noise, odors, litter, lighting, or visual effects.

D. Public Infrastructure

Whether the proposed facility appears capable of being served by existing public infrastructure consistent with Plan assumptions.

E. Environmental or Cultural Resources

Whether potential environmental or cultural resource impacts are addressed through applicable regulatory review processes.

Evaluation of these considerations is informational and planning-oriented only and does not replace determinations made by Ohio EPA or other agencies with regulatory authority.

Strategy S.05 — Consistency with Ohio EPA Requirements

A proposal shall not be considered inconsistent with the Plan solely because Ohio EPA or another regulatory agency imposes conditions or requirements as part of its permitting process.

The Board may rely on Ohio EPA determinations regarding environmental or technical compliance when evaluating Plan consistency.

Strategy S.06 — Applicant Responsibility

Submissions shall include the information required under the District Rules governing Plan consistency review and shall provide sufficient documentation to allow the Board to evaluate the proposal in relation to the Plan's projections, strategies, and implementation obligations.

Strategy S.07 — Board Determination

The Board shall determine whether the proposed activity is:

- Consistent with the District Plan, or
- Not Consistent with the District Plan.

The Board may issue written findings explaining its determination consistent with the procedures established in Appendix Q.

Strategy S.08 — Severability

If any provision of this Siting Strategy is held invalid by a court of competent jurisdiction, such invalidity shall not affect the remaining provisions, which shall remain in full force and effect.

This Siting Strategy provides planning guidance only. If any provision of this Appendix is inconsistent with the District Rules contained in Appendix Q, the Rules contained in Appendix Q shall control.

APPENDIX T

MISCELLANEOUS PLAN DOCUMENTS

Appendix T.

Miscellaneous Plan Documents

During the process of preparing a plan, the policy committee signs three official documents certifying the plan. These documents are as follows:

1. Certification Statement for the Draft Solid Waste Management Plan –The Policy committee signs this statement to certify that the information presented in the draft solid waste management plan submitted to Ohio EPA is accurate and complies with the Format 4.2.
2. Resolution Adopting the Solid Waste Management Plan (adopted prior to distributing the draft plan for ratification) – The policy committee signs this resolution to accomplish two purposes:
 - Adopt the draft solid waste management plan
 - Certify that the information in the solid waste management plan is accurate and complies with Format 4.2.
3. Resolution Certifying Ratification of the Solid Waste Management Plan – The policy committee signs this resolution to certify that the solid waste management plan was ratified properly by the political jurisdictions within the solid waste management district. The policy committee signs this resolution after the solid waste management plan is ratified and before submitting the ratified plan to Ohio EPA).

CERTIFICATION STATEMENT FOR THE DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee (PC) of the Stark-Tuscarawas-Wayne Joint Solid Waste Management District (District), do hereby certify that to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the draft Stark-Tuscarawas-Wayne Joint Solid Waste Management Plan Update, and the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the 10-year period covered by the Plan Update are accurate and are in compliance with the requirements in the *District Solid Waste Management Plan Format*, revision 4.2.

Motion Made By

Kristin Zemis

Seconded the Motion

Mark Cozy

Vote was taken and resulted as follows:
Policy Committee Members:

17
Yes

0
No



Certified by Chairperson of Policy Committee

Bill Smith, Stark County

March 20, 2026

Date Signed

APPENDIX U

RATIFICATION RESULTS

Stark County				
Board of County Commissioners Approval			CHECK IF YES	
Community	Approved	Rejected	Date Resolution Adopted	2024 Population
Cities				
Alliance city (adjusted)				21,415
Canal Fulton city				5,306
Canton city				68,844
Louisville city				9,651
Massillon city				32,274
North Canton city				17,547
Townships				
Bethlehem township				3,707
Canton township				11,716
Jackson township				42,740
Lake township				26,777
Lawrence township				8,156
Lexington township				4,884
Marlboro township				4,230
Nimishillen township				9,237
Osnaburg township				3,934
Paris township				3,701
Perry township				28,008
Pike township				3,060
Plain township				35,207
Sandy township				1,889
Sugar Creek township				3,174
Tuscarawas township				5,755
Washington township				4,396
Villages				
Beach City village				918
Brewster village				2,092
East Canton village				1,501
East Sparta village				739
Hartville village				3,368
Hills and Dales village				244
Magnolia village (adjusted)				1,009
Meyers Lake village				717
Minerva village (adjusted)				1,796
Navarre village				17,547
Waynesburg village				914
Wilmot village				279
Total	0	0		386,731
Reference Year Population	372,867			
Ratification percentage	0%			

*Ratification requires approval of largest city in the District, 60% of the combined population if ge

Tuscarawas County				
Board of County Commissioners Approval			CHECK IF YES	
Community	Approved	Rejected	Date Resolution	2024 Population
Cities				
Dover City				12,919
New Philadelphia City				17,351
Uhrichsville City				5,129
Townships				
Auburn township				1,099
Bucks township				1,203
Clay township				704
Dover township				4,147
Fairfield township				1,477
Franklin township				2,019
Goshen township				3,812
Jefferson township				782
Lawrence township				4,705
Mill township				2,010
Oxford township				1,018
Perry township				434
Rush township				836
Salem township				1,023
Sandy township				2,296
Sugar Creek township				2,039
Union township				1,177
Warren township				1,061
Warwick township				1,690
Washington township				751
Wayne township				2,389
York township				1,269
Villages				
Baltic Village				822
Barnhill Village				374
Bolivar Village				960
Dennison Village				2,639
Gnadenhutten Village				1,203
Midvale Village				650
Mineral City Village				619
Newcomerstown Village				3,627
Parral Village				198
Port Washington Village				542
Roswell Village				211
Stone Creek Village				143
Strasburg Village				2,739

Sugarcreek Village				2,319
Tuscarawas Village				1,019
Zoar Village				172
Total	0	0		91,576
Reference Year Population	91,576			
Ratification percentage	0%			

*Ratification requires approval of largest city in the District, 60% of the combined population if ge

Wayne County				
Board of County Commissioners Approval			CHECK IF YES	
Community	Approved	Rejected	Date Resolution	2024 Population
Cities				
Rittman city (adjusted)				6,074
Orrville city				8,379
Wooster city				26,892
Townships				
Baughman township				2,970
Canaan township				2,745
Chester township				3,010
Chippewa township				6,724
Clinton township				1,658
Congress township				2,876
East Union township				5,748
Franklin township				4,206
Green township				3,436
Milton township				2,940
Paint township				3,287
Plain township				3,051
Salt Creek township				4,071
Sugar Creek township				5,206
Wayne township				3,988
Wooster township				4,575
Villages				
Apple Creek village				1,177
Burbank village				292
Congress village				131
Creston village (adjusted)				2,127
Dalton village				1,914
Doylestown village				3,037
Fredericksburg village				403
Marshallville village				786
Mount Eaton village				168
Shreve village				1,490
Smithville village				1,326
West Salem village				1,427

Total	0	0		116,114
Reference Year Population	116,114			
Ratification percentage	0%			

*Ratification requires approval of largest city in the District, 60% of the combined population if ge

Total District Population	580,557
Total % Ratified	0%

APPENDIX V

INVENTORY OF OPEN DUMPS AND OTHER DISPOSAL FACILTIES

Appendix V.

Inventory of Open Dumps and Other Disposal Facilities

A. Existing Open Dumps and Waste Tire Dumps

To report an open dump complaint in Canton or Stark County, those are directed to use the [Stark County Health Department](#)'s environmental health services or the [CantonOhio.gov](#) website's SeeClickFix portal.

There are no ongoing open dump or tire dumps in the three counties that are recorded.

Table V-1 Inventory of Solid Waste Open Dumps

Site Location (Address, description of site location)	Materials at Site (fly ash, bottom ash, foundry sand, and/or slag)
None	

Most of the open dumping (tires, furniture, renovation waste, trash, etc.) is found on vacant lots and along roadways. Some are investigated and resolved by inspectors (i.e. small cleanups that do not require much time and are easy for one person to complete) and some are referred to Recycle Center crew to complete as non-billable cleanups.

The table below identifies the list of open dump complaint investigations between 2019 through 2023.

Table V-1A Inventory of Open Dump Investigations

Year	Number of Complaints			
	Stark County Health Department	Tuscarawas County Health Department	Wayne County Health Department	City of Canton Health Department
2019	158	57	29	429
2020	130	41	15	327
2021	182	65	39	317
2022	133	87	42	233
2023	136	42	36	334

B. Ash, Foundry Sand, and Slag Disposal Sites

Table V-2 Existing Ash, Foundry Sand, and Slag Disposal Sites

Site Location (Address, description of site location)	Materials at Site (fly ash, bottom ash, foundry sand, and/or slag)
None	

APPENDIX W

DISTRICT MAP

Appendix W. District Map

Figure W-1. District Access to Drop-Off Recycling

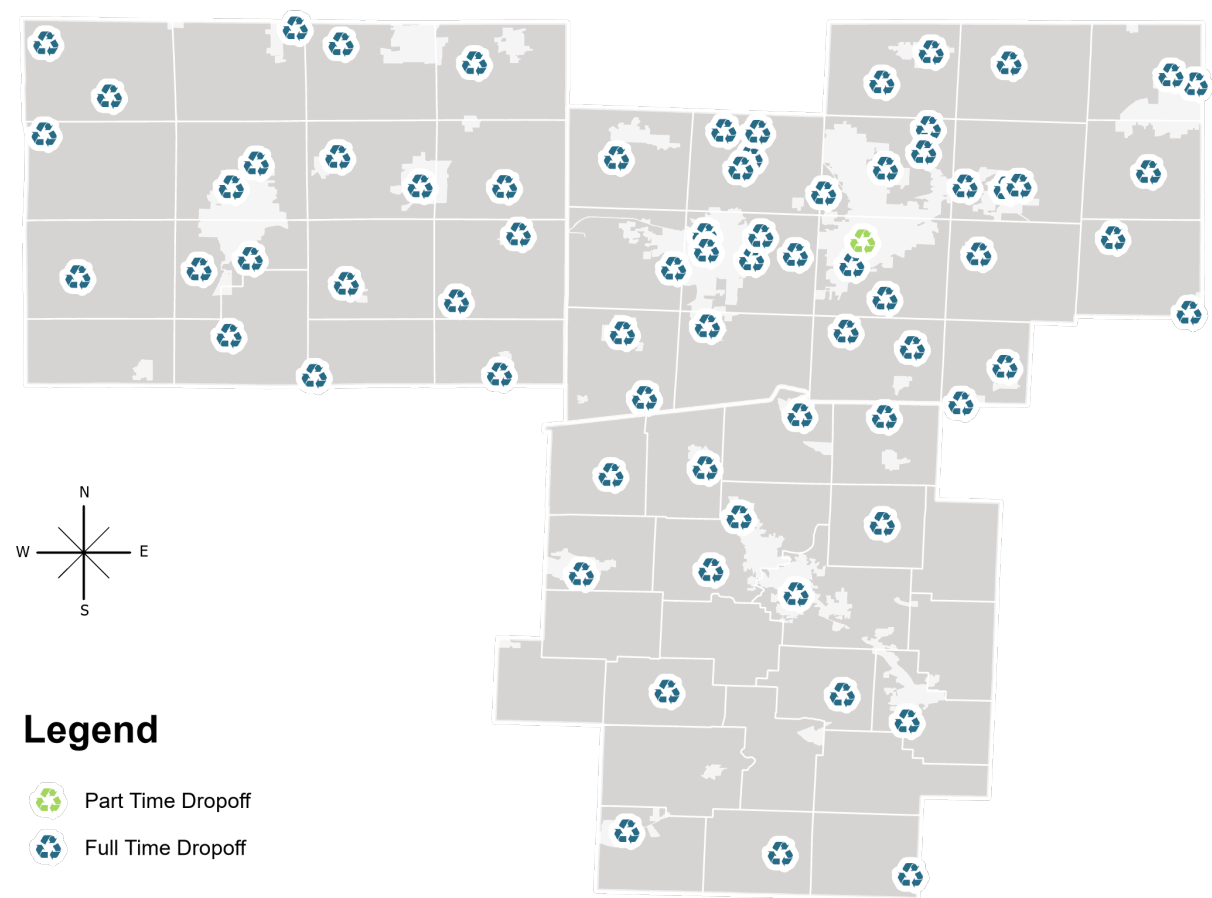


Figure W-2. District Curbside Recycling

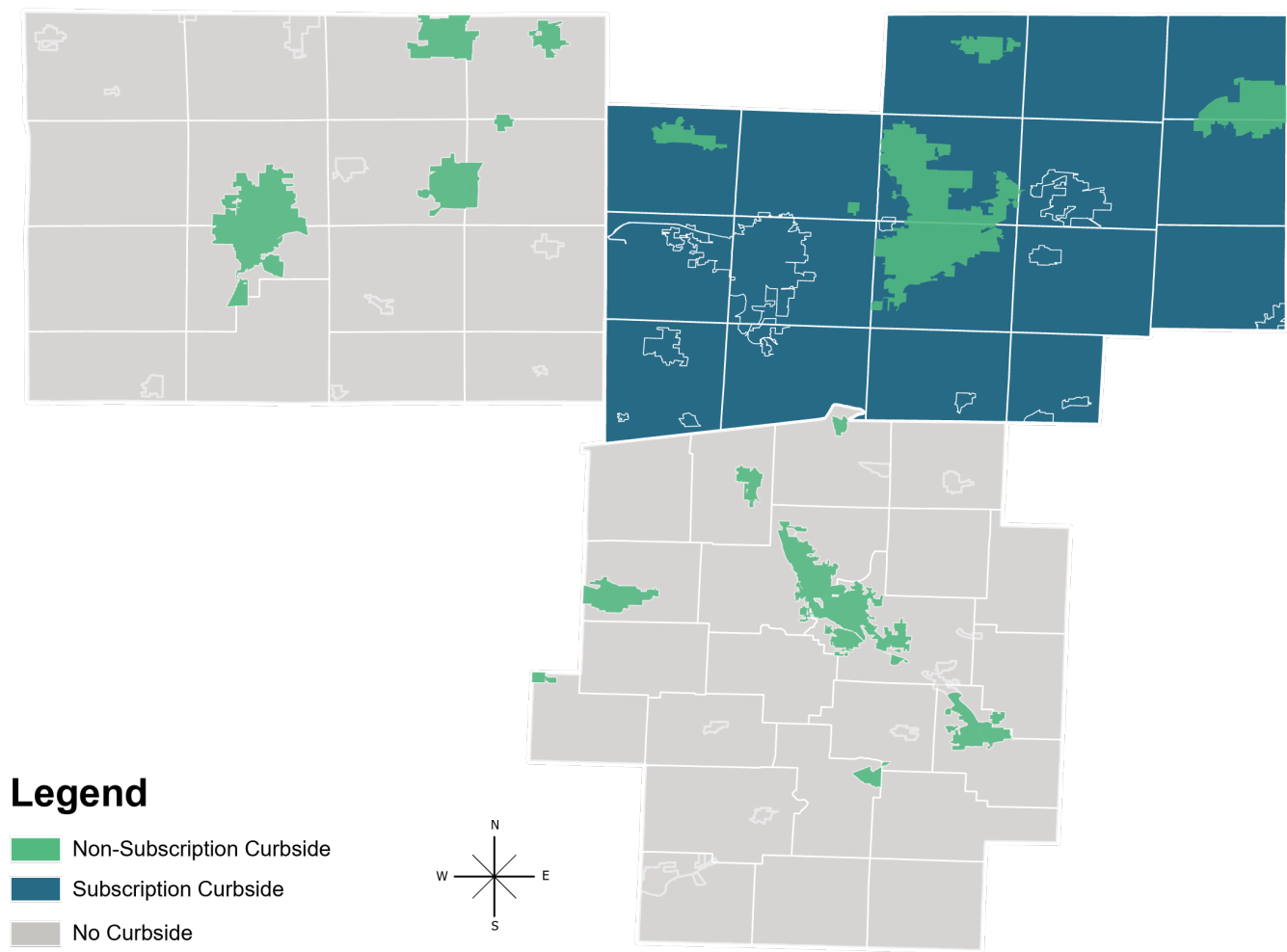


Figure W-3. Regional Recovery Facilities Used in the Reference Year

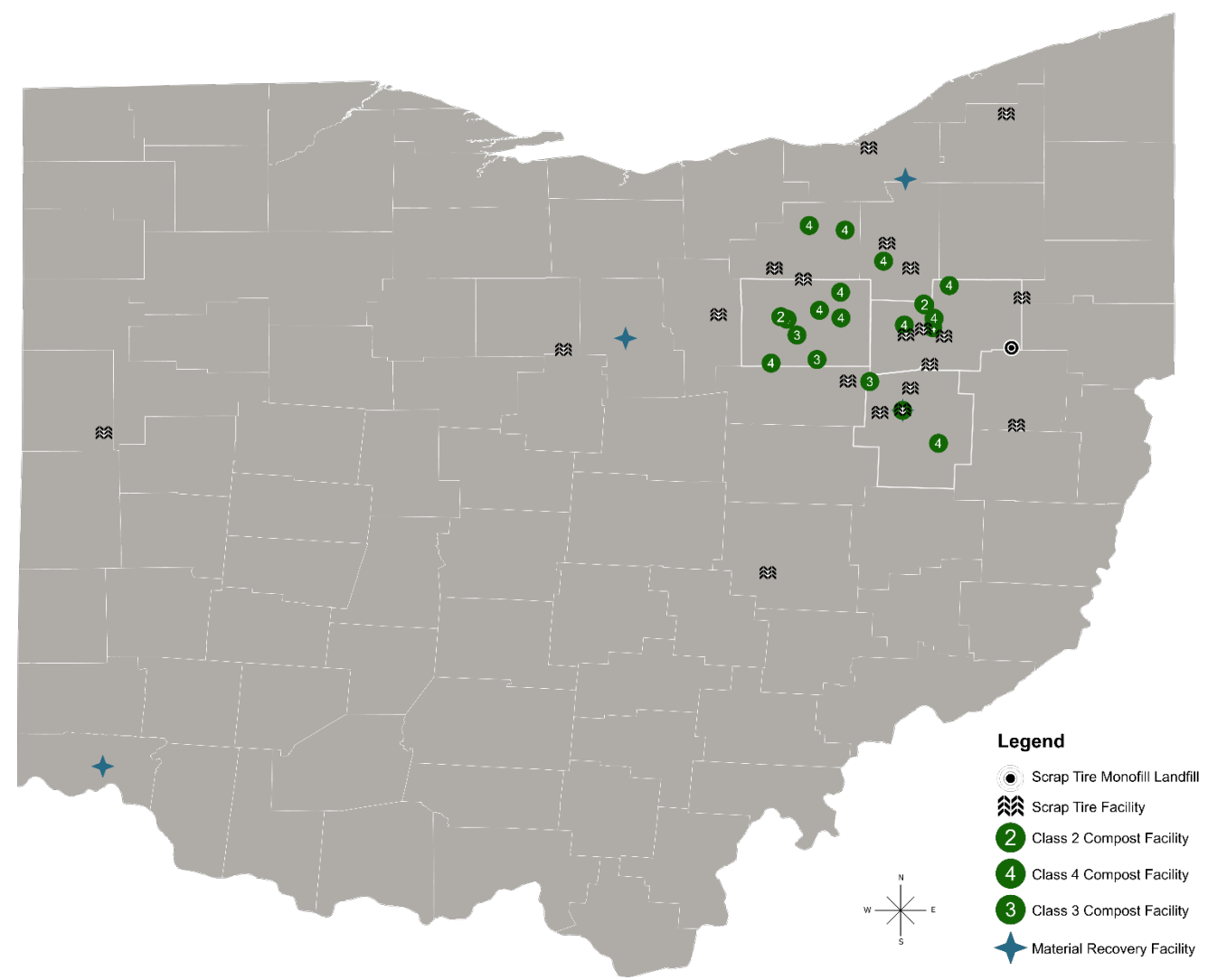


Figure W-4. Landfills and Transfer Stations Used to Manage District Waste

