



AUGLAIZE COUNTY SOLID WASTE MANAGEMENT DISTRICT

2020 – 2034

DRAFT SOLID WASTE MANAGEMENT REVISED PLAN UPDATE

June 17, 2019

Prepared by:



AUGLAIZE COUNTY SOLID WASTE MANAGEMENT DISTRICT

2020-2034 REVISED DRAFT PLAN UPDATE

Table of Contents

<u>Section</u>	<u>Page</u>
I. INTRODUCTION	I-1
A. Plan Approval Date, Counties in District, and Planning Period Length	I-1
B. Reason for Plan Submittal	I-1
C. Process to Determine Material Change in Circumstances and Amend the Plan	I-2
D. District Formation and Certification Statement.....	I-4
E. District Policy Committee Members	I-5
F. District Board of Directors	I-6
G. District Address and Phone Number.....	I-6
H. Technical Advisory Council and Other Subcommittees	I-6
I. Policy Committee Review of Plan Update.....	I-6
II. EXECUTIVE SUMMARY	II-1
A. Section I. Introduction	II-2
B. Section III. Inventories	II-4
C. Section IV. Reference Year Population, Waste Generation and Waste Reduction.....	II-4
D. Section V. Planning Period Projections and Strategies	II-7
E. Section VI. Methods of Management: Facilities and Programs to be Used	II-10
F. Section VII. Measurement of Progress Toward Waste Reduction Goals	II-12
G. Section VIII. Cost of Financing Plan Implementation	II-14
H. Section IX. District Rules (ORC Section 3734.53(C))	II-17
III. INVENTORIES	III-1
A. The Reference Year	III-1
B. Existing Solid Waste Landfills	III-1
C. Existing Incinerators and Resource Recovery Facilities	III-2
D. Existing Transfer Facilities	III-3
E. Existing Recycling and Household Hazardous Waste Collection Activities.....	III-4
F. Existing Composting/Yard Waste Management Facilities.....	III-6
G. Facilities Used by the District Which are Located Outside Ohio	III-7
H. Existing Open Dumps and Waste Tire Dumps.....	III-7

I.	Ash, Foundry Sand, and Slag Disposal Sites	III-8
J.	Map of Facilities and Sites	III-8
K.	Existing Collection Systems – Haulers	III-8

IV. REFERENCE YEAR POPULATION, WASTE GENERATION AND WASTE REDUCTION.....IV-1

A.	Reference Year Population and Residential/Commercial Waste Generation	IV-1
B.	Residential/Commercial	IV-1
C.	Industrial Waste Generation	IV-2
D.	Exempt Waste	IV-3
E.	Total Waste Generation	IV-3
F.	Reference Year Waste Reduction	IV-4
G.	Existing Waste Reduction/Recycling Activities for the Residential, Commercial and Industrial Sectors	IV-7
H.	Total Waste Generation: Historical Trends Plus Waste Reduction	IV-43
I.	Reconciliation of Waste Generation (based on reported recycling and disposal)	IV-45
J.	Waste Composition.....	IV-46

V. PLANNING PERIOD PROJECTIONS AND STRATEGIESV-1

A.	Planning Period	V-1
B.	Population Projections	V-1
C.	Waste Generation Projections	V-2
D.	Projections for Waste Stream Composition	V-9
E.	Waste Reduction and Recycling Strategies through the Planning Period	V-10

VI. METHODS OF MANAGEMENT: FACILITIES AND PROGRAMS TO BE USED.....VI-1

A.	District Methods for Management of Solid Waste	VI-1
B.	Demonstration of Access to Capacity	VI-4
C.	Schedule for Facilities and Programs: New, Expansions, Closures, Continuations.....	VI-5
D.	Identification and Designation of Facilities	VI-5
E.	Authorization Statement to Designate	VI-6
F.	Waiver Process for the Use of Undesignated Facilities	VI-6
G.	Siting Strategy for Facilities	VI-7
H.	Contingencies for Capacity Assurance and District Program Implementation	VI-10

VII. MEASUREMENT OF PROGRESS TOWARD WASTE REDUCTION GOALS	VII-1
A. Compliance with Goal #2	VII-1
B. Demonstration of Compliance with Goal #2.....	VII-1
VIII. COST OF FINANCING PLAN IMPLEMENTATION	VIII-1
A. Funding Mechanisms.....	VIII-2
B. Cost of Plan Implementation.....	VIII-5
C. Funds Allocated from ORC 3734.57(B), ORC 3734.572 and ORC 37334.573	VIII-11
D. Contingent Funding	VIII-12
E. Summary of Costs and Revenues	VIII-13
IX. DISTRICT RULES	IX-1
A. Existing Rules	IX-1
B. Proposed Rules	IX-2
C. Rule Approval Process	IX-7

Appendices

Appendix A	Resolutions for District Formation
Appendix B	Public Notices for Public Hearings and Public Comment
Appendix C	Resolutions and Certification Statements
Appendix D	Identification of Consultants Retained for Plan Preparation
Appendix E	District Map
Appendix F	Industrial Survey Results
Appendix G	Survey Instruments
Appendix H	Pratt Industries Survey

I. Introduction**A. Plan Approval Date, Counties in District, and Planning Period Length****1. Under current approved plan:**

Date of Ohio EPA approval
or order to implement: November 16, 2009

Counties within district: Auglaize

Years in planning period: 15

2. Plan to be implemented with approval of this document:

Counties within District: Auglaize

Years in planning period: 15

Year 1 of the planning period: 2020

B. Reason for Plan Submittal

Auglaize County Solid Waste Management District is submitting a Plan Update because of a material change in circumstances. In accordance with ORC 3734.56(D), the Plan must be revised if the Board has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” A material change in circumstances shall be defined as a change that adversely affects the ability of the Board of County Commissioners (Board) to:

- (1) Assure waste disposal capacity during the planning period;
- (2) Maintain compliance with applicable waste reduction or access goals; or
- (3) Adequately finance implementation of the Plan.

Pratt Industries built a new facility in the City of Wapakoneta which will be operational in 2019 and is projected to increase the generation of solid waste in Auglaize County, including disposed waste and recyclables. Pratt Industries estimates an additional 17,400 tons that will be landfilled from their facility per year starting in 2020. An undetermined amount of in-District recycling has yet to be projected. In cooperation with the facility, the District will also be reducing the generation fee from \$9.00 to \$7.65. Please see Section V.

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

In accordance with ORC 3734.56(D), the Plan must be revised if the Board has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” A material change in circumstances shall be defined as a change that adversely affects the ability of the Board of County Commissioners (Board) to:

- (1) Assure waste disposal capacity during the planning period;
- (2) Maintain compliance with applicable waste reduction or access goals; or
- (3) Adequately finance implementation of the Plan.

The Ohio EPA’s Plan Format requires that the Plan Update must include a description of the process the Board will use to determine whether a material change in circumstances has occurred, and, as a result, requires the preparation of an amended Plan.

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**

The District relies primarily on direct haul of solid waste to regional landfills both in-state and out-of-state. In the unlikely event of an extended or permanent closure of an identified facility or a combination of the closure of a landfill(s) accepting solid waste generated in the District impairs the capacity assurance requirement of section 3734.53(A) of the Revised Code 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 solid waste formerly received at the closed facility.

The Board, within 90 days of the closure of an identified facility at a regularly scheduled or special meeting of the Board, will 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 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 generated within the District. 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. A material change in circumstances has not occurred, however, if the Board can identify alternate solid waste facilities to manage the increased waste volume.

During the term of the Plan, District staff periodically will review waste generation and report to the Policy Committee and the Board's representative any increase in solid waste generation within the District that warrants the full Board's consideration of whether there is adequate capacity available to handle or dispose of the increased solid waste volume.

2. Compliance with Applicable Waste Reduction or Access Goals

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

Pursuant to the Ohio Revised Code, the Ohio Administrative Code, and the State Plan, the District has established specific goals regarding waste reduction and recycling within the District. The District Coordinator will prepare an annual report (annual district report) for Ohio EPA which will also be presented to the Policy Committee and the Board by the third quarter (July - September) during each year of the planning period. The annual report will identify any delays in program implementation, changes to waste reduction and recycling strategies or other information that may materially and adversely affect Plan implementation. The Board will determine whether any delay, changes to waste reduction and recycling strategies or other information is material. Should a significant delay in program implementation or the termination of programs result in the inability of the District to achieve State Plan goals, the Board will consider whether a material change in circumstances has occurred that requires an update of the Plan. A material change in circumstances has not occurred, however, where the Board is able to modify existing programs by:

1. making changes to existing initiatives, or
2. implementing new initiatives which will supplement the objectives of existing programs to achieve the State Plan goals.

3. Financing of Plan Implementation

(a) Decrease in Waste Generation

The District generates revenues to finance implementation of the Plan from a \$9.00 per ton fee (changing to \$7.65 in 2020) on the disposal of

solid waste that is generated within the District and disposed at either Ohio transfer stations or landfills as authorized by section 3734.573 (A) of the Ohio Revised Code (the “Generation Fee”). The District also utilizes funds from recycling revenue, reimbursements and grant revenue to supplement District expenses. Finally, the District utilizes rates and charges as authorized in the Ohio Revised Code 343.08. A significant reduction in the generation of waste within the District could result in a significant decrease in revenue and adversely affect the ability of the Board to finance the implementation of the Plan. The District Coordinator monitors revenues and reports changes in financial condition to the Policy Committee and Board at regular intervals. The Policy Committee, based on recommendations from the District Coordinator, will review and revise the budgets and funding priorities to provide funds to implement the Plan. The Policy Committee will direct the District Coordinator to inform the full Board if a material change in circumstances may have occurred where a significant reduction in revenue adversely affects the Board’s ability to finance Plan implementation. No material change in circumstances has occurred, however, if the Board is able to maintain mission critical programs at current funding levels through re-allocation of District revenues, or through the funding contingency plan contained in Section VIII of this *Plan Update*.

4. Procedures where Material Change in Circumstances has Occurred

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

The District Coordinator, staff and Policy Committee monitors conditions of programs, waste volumes and revenues necessary to determine whether there has been a material change in circumstances necessitating an update of the Plan. If the Policy Committee and/or the District Coordinator presents information to the Board and the Board determines a material change in circumstances has occurred, the Board shall notify Ohio EPA within 60 days of that determination.

D. District Formation and Certification Statement

A copy of the original resolution forming the District is included in Appendix A. All public notices in local newspapers publicizing hearings and comments on the *Plan Update* are included in Appendix B. A certification statement signed by members of the Policy Committee asserting that the contents of the *Plan Update* are true and accurate is

included in Appendix C. The certification statement was signed by a majority of the Policy Committee members for both the draft amended *Plan Update* and the ratified draft amended *Plan Update*. Appendix C also includes resolutions by the Policy Committee adopting the *Plan Update* prior to ratification and certifying that the *Plan Update* has been properly ratified. A list of all political jurisdictions in the District which voted on the *Plan Update* ratification, their populations, and the percentage of the population represented by the political jurisdictions which ratified the *Plan Update* is included in Appendix C.

E. Policy Committee Members

The Policy Committee for the District is comprised of seven members from Auglaize County. These members will include:

- The president of the board of county commissioners or his/her designee;
- The mayor, or a representative chosen to act on his/her behalf, of the largest city in the county (City of Wapakoneta);
- A member representing the townships within Auglaize County chosen by a majority of the board of township trustees within Auglaize County;
- The health commissioner from Auglaize County, or a representative appointed by the health commissioner to act on behalf of the County's health department;
- One industrial representative from Auglaize County to act on behalf of the industries located within Auglaize County. This position is appointed by the four permanent members of the policy committee;
- One member from Auglaize County representing the general interests of citizens and who has no conflict of interest through affiliation with a waste management company or with any entity that is a significant generator of solid wastes. This position is appointed by the four permanent members of the policy committee; and
- One member representing the public. This position is appointed by the four permanent members of the policy committee.

The following committee members are listed in accordance with the political jurisdictions and constituencies they represent:

Policy Committee Member	Representing	Term
Doug Spencer, Chairman	Board of County Commissioners	12-31-2018
Thomas Stienbaugh	Largest City in the County	Unlimited
Brian Cook	Auglaize County Townships	Unlimited
Oliver Fisher	the Health Department	Unlimited
Dan Danaher	Auglaize County Industries	10-31-2019
Tonja Rammel	General Interests of Citizens	12-31-2018
Doug Metz	Public	12-31-2018

F. Board of Commissioners

The following board members are listed:

Commissioners
Don Regula
Doug Spencer
John Bergman

G. District Address and Phone Number

Auglaize County Solid Waste Management District
P.O. Box 603 (15502 St. Mary's River Road)
St. Mary's, Ohio 45885

Contact: Scott Cisco
District Coordinator
Phone: (419) 394-1270
Fax: (419) 394-3417
Email: scisco@auglaizecounty.org

H. Technical Advisory Council and Other Subcommittees

The District did not establish a Technical Advisory Committee during the preparation of the *Plan Update*.

I. Policy Committee Review of Plan Update

The Policy Committee shall annually review implementation of the *Plan Update* under section 3734.55 of the Ohio Revised Code and report its findings and recommendations regarding implementation of the Plan to the Board of County Commissioners of the District.

II. Executive Summary

The Auglaize County Solid Waste Management District (District) is required by Section 3734.54 of the Ohio Revised Code (ORC) to periodically update its solid waste management plan (*Plan Update*). This *Plan Update* will cover a planning period beginning in 2020 and ending in 2034. This *Plan Update* includes a description of District programs and projections for solid waste generation, recycling, and disposal. This *Plan Update* identifies the District's strategies for managing the District's facilities and programs and provides an assessment on achieving statewide recycling and waste reduction goals. This *Plan Update* follows Ohio EPA's format version 3.0. The format requires specific narrative information and data tables. There are nine major sections of the solid waste plan based on the Plan Format.

Section I

- Basic information about the District and an important section on determining when material changes would require an amendment to the *Plan Update*.

Section II

- An Executive Summary and includes brief narrative descriptions of each section in the *Plan Update*.

Section III

- An inventory of facilities, activities, and haulers used by the District in the reference year (2017).

Section IV

- The reference year statistics for the *Plan Update* including population data, waste generation and waste reduction estimates for the residential/commercial sector and the industrial sector.

Section V

- Projections of population, waste generation and waste reduction for each year of the planning period.

Section VI

- The District's management of facilities and programs to be used by the District throughout the planning period.

Section VII

- Presentation of how the District meets the state waste reduction and recycling goals.

Section VIII

- A presentation of the financial resources of the District necessary to implement this Plan.

Section IX

- District rules proposed, approved and authorized for adoption are presented by the District.

This Executive Summary provides an overview of each section of the *Plan Update*.

A. Section I. Introduction

On February 17, 1989, the Board of Commissioners of Auglaize County formed the Auglaize County Solid Waste Management District (District) (Appendix A). The District includes all incorporated and unincorporated territory in Auglaize County.

The current Plan was approved by Ohio EPA on March 30, 2016. This *Plan Update* begins with the planning year 2020 and includes a fifteen-year planning period.

Policy Committee Members

The Policy Committee prepares the solid waste management plan, monitors implementation of the Plan, and adjusts the District generation fees as appropriate. The current Policy Committee members are listed in the following table:

Policy Committee Member	Representing
Doug Spencer, Chairman	Board of County Commissioners
Thomas Stienbaugh	Largest City in the County
Brian Cook	Auglaize County Townships
Oliver Fisher	the Health Department
Dan Danaher	Auglaize County Industries
Tonja Rammel	General Interests of Citizens
Doug Metz	Public

Board of County Commissioners of the District

The Board is responsible for implementing the solid waste plan developed by the Policy Committee. The current Board members are listed in the following table:

Board Member
Don Regula
Doug Spencer
John Bergman

Process to Determine Material Change in Circumstances and Amend the Plan

Section I of the *Plan Update* outlines the process which will be used by the District to determine when a material change in circumstance has occurred. If a material change in circumstances occurs, a plan amendment is required by Ohio law (ORC Section 3734.56 (D)). The District plan must be updated "...when the Board of County Commissioners...or Board of Directors...determines that circumstances materially changed from those addressed in the approved initial or amended plan of the district..."

A material change in circumstances is defined by Ohio EPA as changes in any of the following which would be judged to significantly interfere with District achievement of *Plan Update* goals in the context of statutory requirements:

Circumstance which may interfere with goal achievement:
Reduction in Available Capacity
Increase in Waste Generation
Delay in Program Implementation
Discontinuance of Essential Waste Reduction or Recycling Activities
Decrease in Waste Generation
Adequately finance implementation of the Plan

In accordance with ORC 3734.56(D), the *Plan Update* must be revised if the Board has determined that "circumstances materially changed from those addressed in the approved initial or amended plan of the district." A material change in circumstances shall be defined as a change that adversely affects the ability of the Board to: (1) assure waste disposal capacity during the planning period; (2) maintain compliance with applicable waste reduction or access goals; or (3) adequately finance implementation of the *Plan Update*. This process is described in detail in Section I of this *Plan Update*.

The reason for submitting this Plan Update was because a material change in circumstances did occur. Pratt Industries built a new facility in the City of Wapakoneta and is projected to increase the generation of solid waste in Auglaize County, including disposed waste and recyclables. Additionally, the District will also be reducing the generation fee from \$9.00 to \$7.65.

B. Section III. Inventories

Section III provides an inventory of facilities, programs and activities during the reference year (2017) of the *Plan Update*.

Inventories include the following:
Landfills
Transfer Facilities
Recycling Programs
Collection Programs
Composting Facilities and Programs
Open Dumps and Waste Tire Dumps
Ash, Slag and Foundry Sand Disposal Sites
Solid Waste Haulers

C. Section IV. Reference Year Population, Waste Generation and Waste Reduction**1. Reference Year Population**

The District's 2017 reference year population of 45,778 was determined by using the 2017 Ohio Department of Development's 2017 Population Estimates for Counties, Cities, Villages and Townships. This information was obtained from the Ohio Department of Development, Office of Strategic Research.

2. Waste Generation

Residential and commercial waste generation was 41,695 tons including 24,039 tons landfilled (see Table III-1) and 17,657 tons recycled, including composting (see Table IV-5). Based on the District population, this is 4.99 pounds per person per day of residential/commercial waste generation.

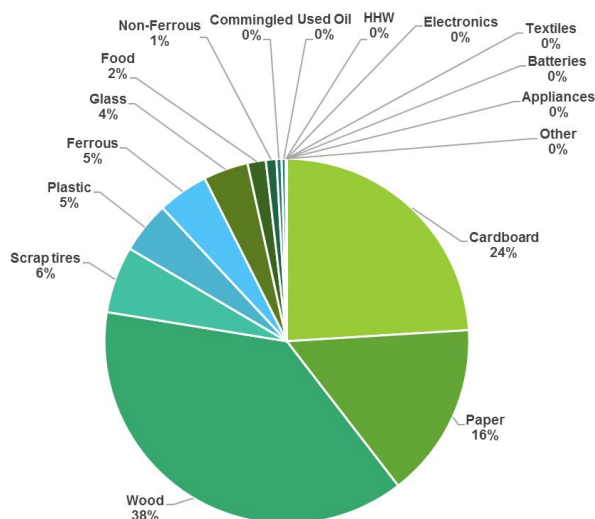
Industrial waste generation was 66,991 tons. This includes 7,477 tons landfilled (see Table III-1) and 59,514 tons recycled (see Table IV-6). Based on the District population, this is 8.02 pounds per person per day of industrial waste generation.

3. Reference Year Waste Reduction

Residential/commercial waste reduction that occurred in the District during the reference year is summarized in Table IV-5. Residential/commercial waste reduction activities include curbside and drop-off collection; District-sponsored special collection events,

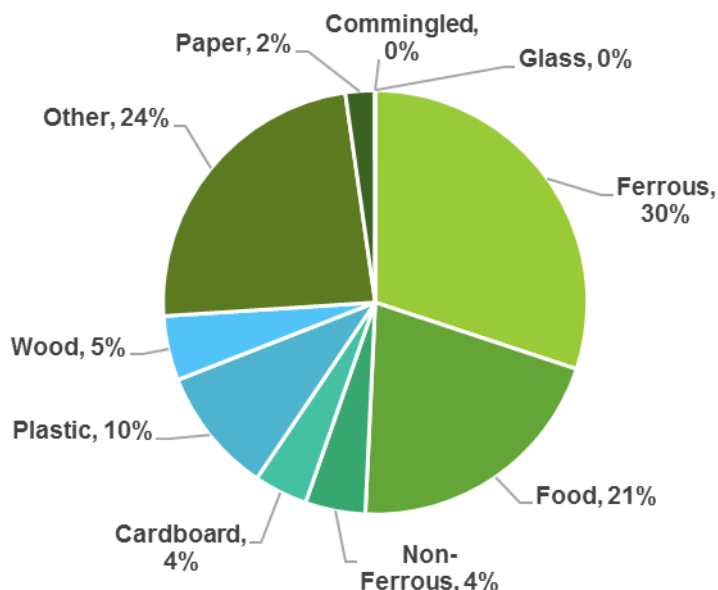
such as household hazardous waste collections and electronics collections; commercial recycling completed by commercial entities operating within the District; and composting. The following graph depicts the residential and commercial waste reduction totals as a percentage for 2017:

Residential/Commercial Waste Reduction (2017)



Industrial waste reduction activities that occurred during the reference year are summarized in Table IV-6. The following graph depicts the industrial waste reduction totals as a percentage for 2017.

Industrial Waste Reduction (2017)



Section IV also provides specific details for the existing waste reduction/recycling activities for the residential/commercial and industrial sectors.

4. Existing Waste Reduction/Recycling Activities for Residential, Commercial and Industrial Sectors

In 2017, the following facilities/programs were implemented:

Residential/Commercial/Industrial Waste Reduction/Recycling and Education Strategies

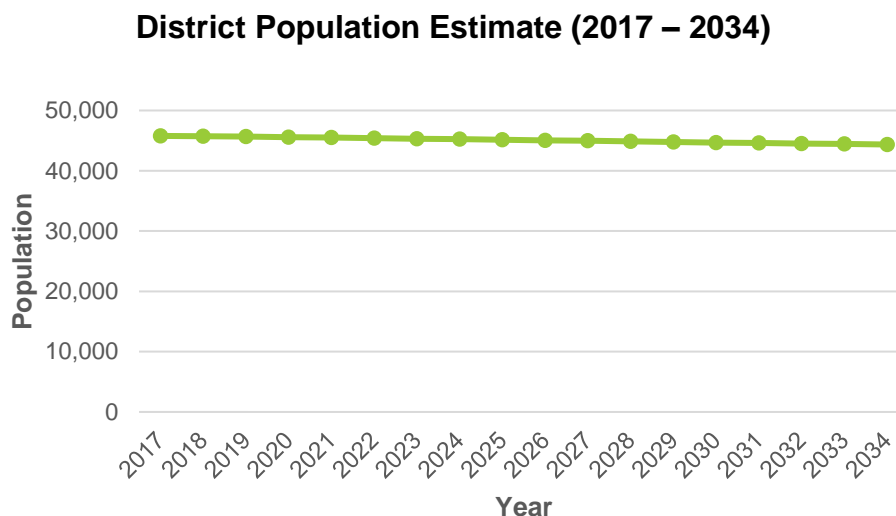
Description
Curbside Recycling
Drop-Off Recycling
Yard Waste Management
Household Hazardous Waste Management
Scrap Tire Recycling
Battery Collection
Used Oil Collection
Appliance Recycling
Special Event Recycling
School Recycling
Special Collection Routes
Buy Recycled
Recycling Opportunities Fund
Volunteer Recycling Assistance Group Grants
Education and Awareness <ul style="list-style-type: none"> • School Presentations • District Website • Commercial Technical Assistance • Advertising
Curbside and Pay-As-You-Throw Technical Assistance
Annual Surveying
Auglaize County Material Recovery Facility
General Plan Implementation
Solid Waste Management Infrastructure Improvements
DIY Waste Audits and Waste Reduction Resources

D. Section V. Planning Period Projections and Strategies

Section V includes a summary of projections of population, waste generation and recycling for the planning period (2020 to 2034). New programs and changes to existing programs are presented in this section.

1. Population Projections

The District anticipates population will decrease 3.1% over the planning period. Population projections were made using growth rates from Ohio Department of Development's Projected Percent Population Change 2010 to 2035 based on the growth rate of the county that each political subdivision or portion of a political subdivision is located. Projections were adjusted using 2017 and 2010 U.S. Census Bureau population data. The following graph depicts the population projections throughout the planning period.



2. Waste Generation Projections

Residential/Commercial Sector

The total residential/commercial waste generation estimate for 2017 was 41,695 tons. Waste generation is projected to increase throughout the planning period from 2020 – 2034. Beginning in 2020, the first year of the planning period, residential/commercial waste is projected to be 42,774 tons. This is expected to increase to 47,791 tons in 2034, a 11.7% increase during the planning period. The following graph depicts the residential/commercial waste generation projections throughout the planning period.

District Residential/Commercial Waste Generation (2017 – 2034)

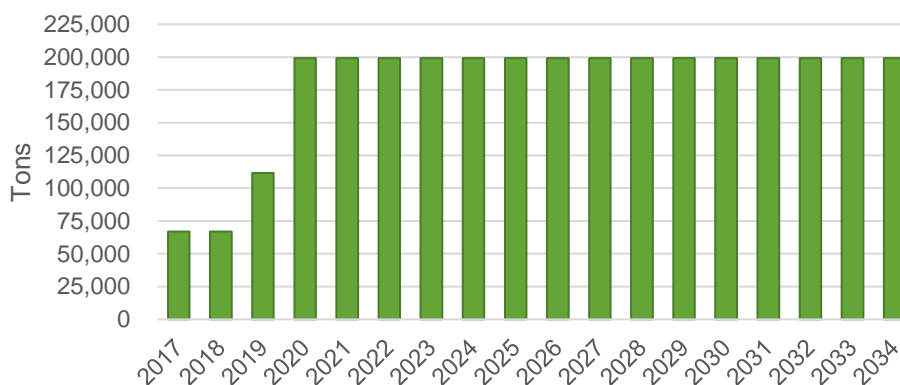


Industrial Sector

Industrial waste generation is projected for SIC codes 20 and 22-39. Table V-3 presents the waste generation for each SIC code. The District projects industrial waste increase from 66,991 tons in 2017 to 199,193 tons in 2020, then remain constant. The following figure presents the estimated industrial waste generation throughout the planning period.

Pratt Industries, which is in the process of building a new facility in Wapakoneta, to be open in 2019, will increase the generation of solid waste in Auglaize County including disposed waste and recyclables. Pratt Industries estimates an additional 17,400 tons that will be landfilled from their facility per year starting in 2020 and approximately 5,800 tons in 2019. Pratt has also indicated that they will recycle and or compost approximately 38,800 tons in 2019 and 114,800 tons in 2020 and beyond. Other SIC codes were projected to be constant throughout the planning period.

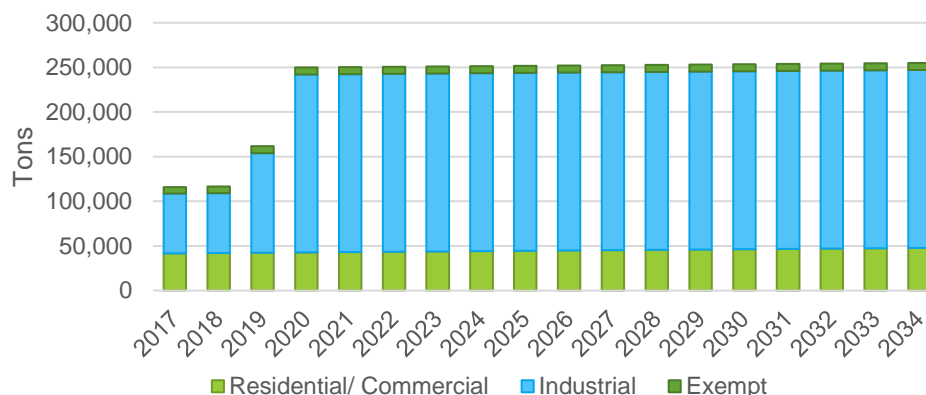
District Industrial Waste Generation (2017 – 2034)



Total Waste Generation

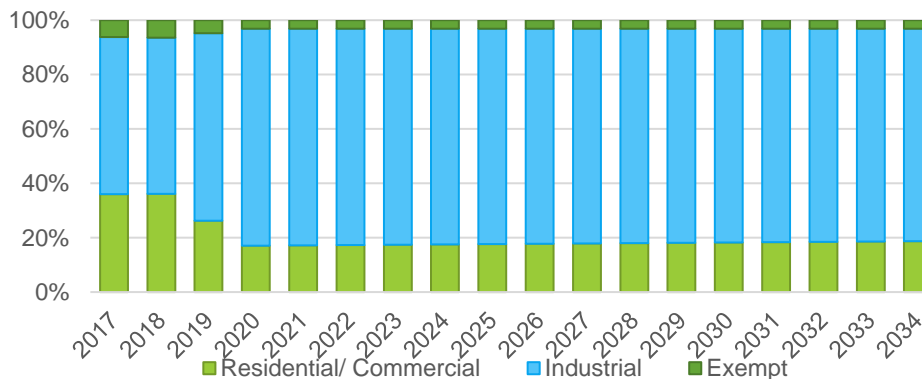
Total waste generation projections for the District during the planning period are presented in Table V-4, “Total Waste Generation for the District during the Planning Period (in TPY)”. The total waste generation estimate for the 2017 reference year was 115,918 tons. This includes residential/commercial waste (41,695 tons), industrial waste (66,991 tons), and exempt waste (7,231 tons).

District Total Waste Generation (2017 – 2034)



The following graph depicts the waste generation per sector as a percentage of the total waste generation.

District Total Waste Generation Distribution (2017 – 2034)



3. Waste Reduction and Recycling Strategies through the Planning Period

The District must continue to develop recycling and waste reduction strategies to meet the goals established in the 1995 State Plan and to pursue continuous improvement in meeting the 1995 State Plan goals. The following table summarizes the program, initiatives and strategies for the planning period and which goals each program meets.

District Strategies by State Plan Goal

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Curbside Recycling	AC-1	✓	✓					
Drop-Off Recycling	AC-2	✓	✓					
Yard Waste Management	AC-3	✓	✓		✓			
Special Waste Management and Services • Household Hazardous Waste (HHW) Management • Scrap Tire Recycling • Battery Collection • Used Oil Collection • Appliance Recycling	AC-4		✓			✓		
Special Event Recycling	AC-5		✓					
School Recycling	AC-6		✓					
Special Collection Routes	AC-7		✓		✓			
Glass Bar Program	AC-8	✓	✓					
Aluminum Buyback Program	AC-9	✓	✓					
Recycling and Market Development Grant Program	AC-10		✓		✓			✓
Recyclable Material Sorting Assistance Fund	AC-11				✓			
Education and Awareness	AC-12			✓	✓			
Curbside and Pay-As-You-Throw Technical Assistance	AC-13				✓			
Annual Surveying	AC-14						✓	
Auglaize County Material Recovery Facility	AC-15	✓	✓					
General Plan Implementation	AC-16	✓	✓	✓	✓	✓	✓	✓
DIY Waste Audit and Waste Reduction Resources	AC-17			✓	✓			
Number of Strategies Per Goal		7	12	3	8	2	2	2

Details for each program listed above including changes, update and new programs are included in Section V.

E. Section VI. Methods of Management: Facilities and Programs to be Used

Section VI presents the District's methods for managing solid waste. It includes management methods, a siting strategy, and a demonstration of capacity for the planning period 2020 to 2034.

1. District Methods for Management of Solid Waste

The net tons managed by the District in 2017 were calculated to be 115,918 tons. The landfill total in Table VI-1 is calculated by

subtracting recycling, yard waste composted, and net incinerated tonnage from the net tons to be managed. The District projects 249,869 tons of solid waste will need to be managed in 2020 and by the end of the planning period in 2034, the District will need to manage 254,886 tons.

2. Demonstration of Access to Capacity

During the reference year, 11 landfills managed 38,740 tons of solid waste generated by District residents, businesses and industries.

Regional Capacity Analysis

The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's waste until December 31, 2034. The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's solid waste until December 31, 2034.

3. Identification and Designation of 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 Section III Inventories.

The District is not designating any facilities in this *Plan Update*.

The Board is authorized to establish facility designations in accordance with Section 343.013 and 343.014 of the Ohio Revised Code. In addition, facility designations, if adopted, will be supported by applicable District rules.

4. Siting Strategy for Facilities

The District's siting strategy, which includes the Submission of Plans and Specifications and Board Review, is detailed in Section 6.

5. Contingencies for Capacity Assurance and District Program Implementation

The District does not anticipate any capacity assurance or program implementation problems during this planning period. If there is an emergency impacting the District, the Board will meet on an emergency basis and determine the appropriate actions to take to ensure compliance with this *Plan Update*. The portion of Section VI includes specific contingency plans for issues related to disposal capacity, transfer capacity, and recycling capacity.

F. Section VII. Measurement of Progress Toward Waste Reduction Goals

Ohio EPA's 1995 *State Plan* establishes seven goals solid waste management districts (SWMD) are required to achieve in their solid waste management plans. SWMDs are encouraged to meet both Goal #1 and Goal #2, but are only required to demonstrate compliance with one goal or the other. The following table defines Goals #1 and #2:

Goal #	Description
#1	Ensure the availability of reduction, recycling and minimization alternatives for municipal solid waste by ensuring 90% of residents have access to curbside and drop-off programs. The District must also demonstrate that there are adequate opportunities for industrial businesses to recycle.
#2	Reduce and/or recycle at least 25% of the total waste generated by the residential/commercial sector and 50% of the total waste generated by the industrial sector.

1. Compliance with Goal #1

The District will continue to comply with Goal #1 of the 1995 *State Plan*, which states that Districts "...must demonstrate that the waste reduction, recycling, or minimization programs or activities in existence or scheduled to be implemented will be available...for a minimum of seven of eleven materials..."

The demonstration must also show that:

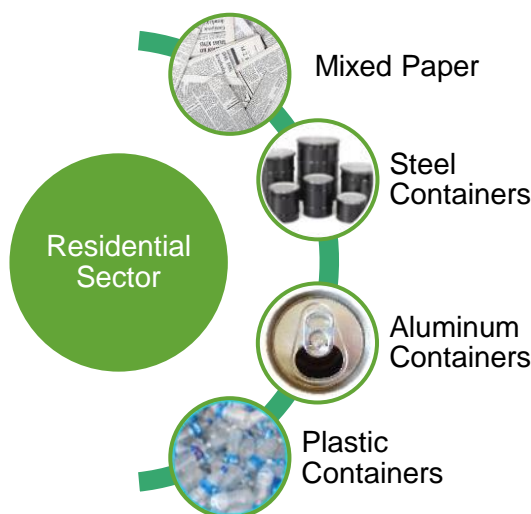
- Each sector of waste generators (residential and commercial/industrial) has access to recycling or other alternative management methods for at least four of the minimum seven materials designated by the SWMD.
- Generators' participation in recycling and waste reduction programs is encouraged through district educational efforts and financial incentives to promote participation are in place,

or the district will investigate the feasibility of implementing financial incentives.

- SWMDs relying on incineration and/or solid waste composting must show that a minimum of three of seven materials used to demonstrate access are non-compostable and non-combustible (e.g., steel, aluminum, or glass food and beverage containers, and lead-acid batteries).

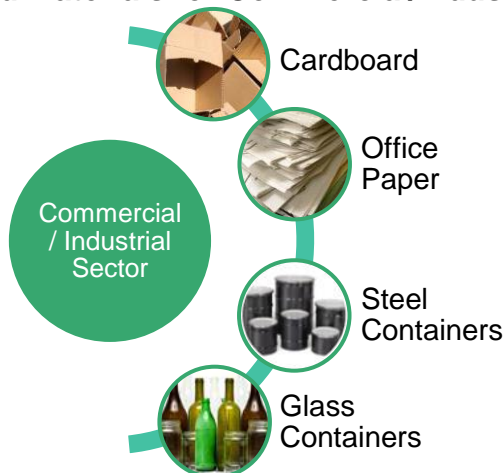
The four materials designated for the residential sector are newspaper, steel, aluminum, and plastic containers.

Designated Materials for the Residential Sector



The four materials designated for the commercial/industrial sector are corrugated cardboard, office paper, steel containers, and glass containers.

Designated Materials for Commercial/Industrial Sector



In the reference year, the District achieved a 100% access credit and is projected to maintain this rating in the first year of the planning period.

Section 7 also covers the educational efforts and financial incentives the District employs to promote recycling by each sector. Additionally, the District will continue to increase the recycling rate in industrial sector and strive to increase the recycling rate in the residential/commercial sector as well.

G. Section VIII. Cost of Financing Plan Implementation

1. Funding Mechanisms

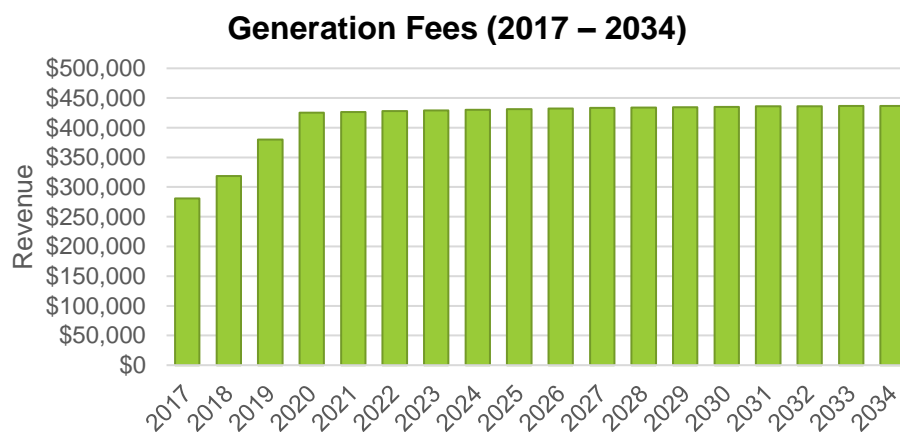
a. District Disposal Fees

The District does not receive revenue from a disposal fee.

b. Generation Fee

In accordance with Section 3734.573 of the Ohio Revised Code and under the District's current solid waste management plan, the District instituted a \$9 per ton generation fee, but this fee will decrease to \$7.65 per ton in 2020. However, with the projected increase in tonnage from 2017 through 2020, the total revenue from generation fees will increase. The generation fee will continue to be collected by the receiving transfer stations, landfills or any other applicable solid waste facility for each ton of solid waste originating within the District and disposed in the State of Ohio. These monies will be forwarded to the District pursuant to Section 3745-28-03 of the Ohio Administrative Code.

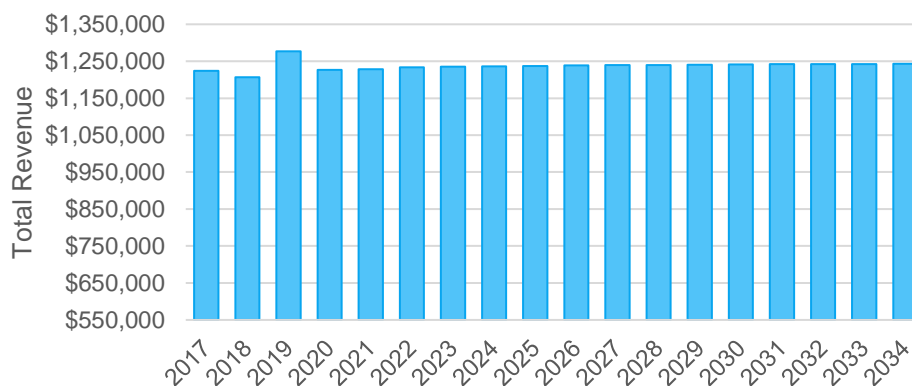
The following graph depicts the actual and projected generation fee revenue for this *Plan Update*:



Estimated revenues include generation fees, rates and charges, recycling revenue, glass collection program fees, aluminum buyback fees, HHW fees, reimbursements, and potential grant funds.

The following graph depicts the District's total actual and projected revenue from 2017 – 2034 and includes all anticipated revenue sources identified above.

District Revenue (2017 – 2034)

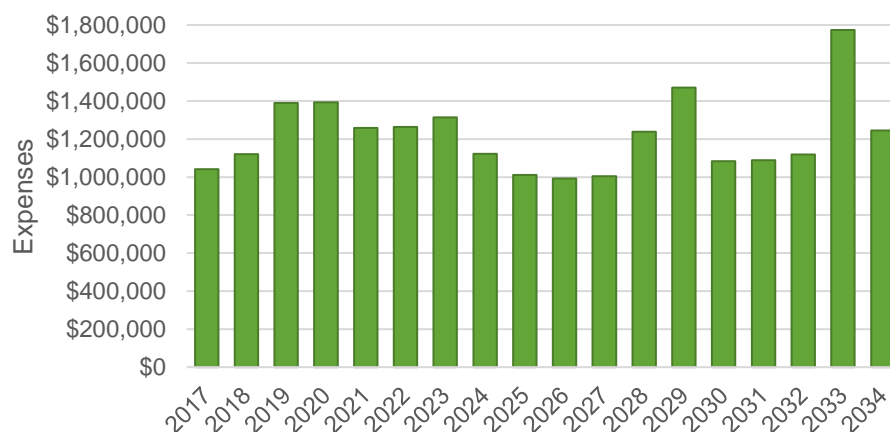


2. Cost of Plan Implementation

Section VIII includes the strategies, facilities, activities and programs that the District will use to implement the *Plan Update*.

The District is projecting to spend \$1,392,700 in 2020, the first year of the planning period and \$1,245,643 in 2034, the final year of the planning period. The following chart summarizes the District's actual and projected expenses throughout the planning period.

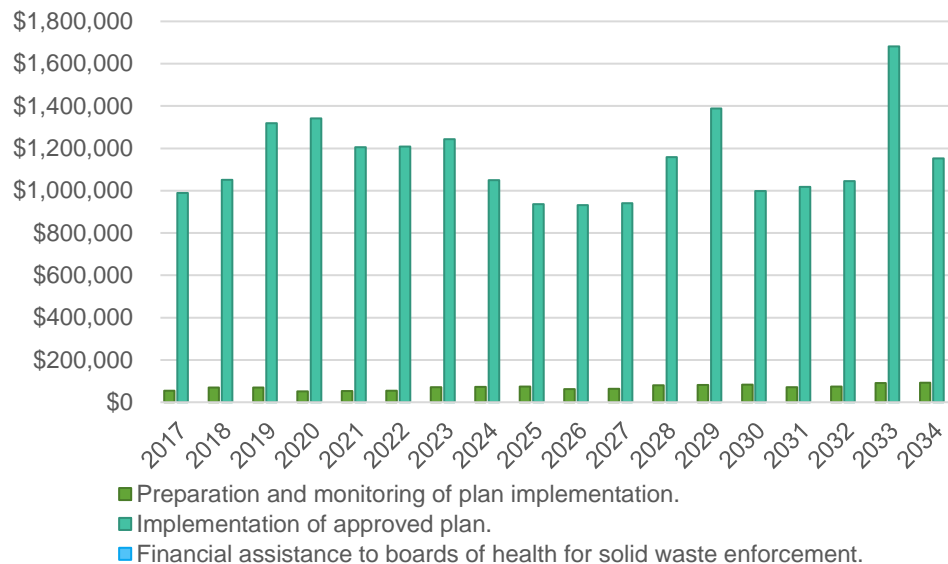
District Expenses (2017 – 2034)



The District's budget falls into two categories: preparation and monitoring of plan implementation and implementation of the approved plan.

The following graph depicts the District's annual expense to implement this *Plan Update*:

District Expense Distribution (2017 – 2034)



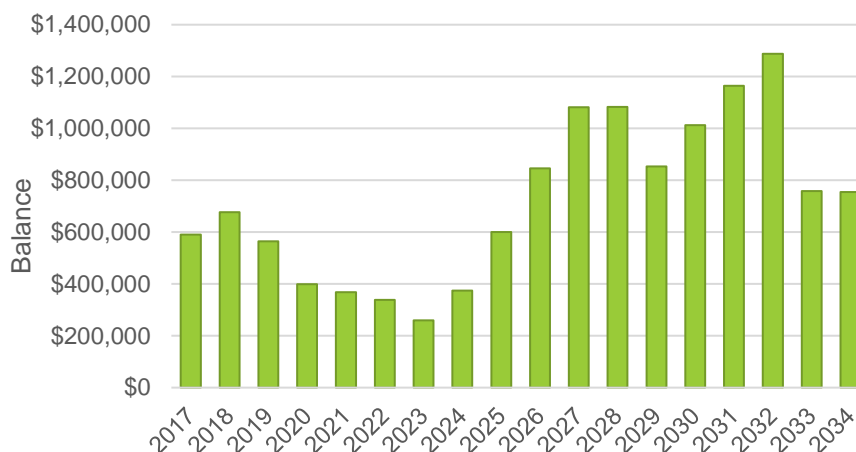
3. Contingent Funding

The District and its Board do not consider funding to be an issue of concern during this planning period. The District is projecting stable funding sources throughout the planning period. The District would only consider increasing the generation fee or rates and charges fee if it was unable to re-appropriate funding. The District also reserves the right to implement other funding mechanisms to complement or replace the generation fee under any circumstance. Other funding mechanisms may include contract fees through designation, service fees, or other mechanisms as identified.

4. Summary of Costs and Revenues

A summary of District revenues and expenditures for each year of the planning period is included in Table VIII-8. The District has a positive year end cash flow for almost each year of the planning period. At the end of the planning period in 2034, the District projects a carryover of approximately \$754,684. The following figure presents the District's year-end cash flow from 2017 through 2034.

District Fund Balance (2017 – 2034)



H. Section IX. District Rules (ORC Section 3734.53(C))

1. Existing Rules

The District has existing rules that are summarized in Section 9.

- Rule #1: Construction or Improvement of Solid Waste Facilities
- Rule #2: Prohibiting the Disposal of Recyclable Material
- Rule #3: Prohibiting Scavenging
- Rule #4: Prohibiting Tampering or Damaging Facilities

The District reserves the right to create, publish and enforce rules in accordance and pursuant to Divisions (F)(1), (2) and (3) of Section 343.01 of the Revised Code and Divisions (C)(1), (2), (3), and (4) of Section 3734.53 of the Revised Code, to the extent any such rules are determined by the Board from time to time to be necessary or desirable to implement any provision or to accomplish any objective of this Solid Waste Management Plan or any amended Plan.

2. Proposed Rules

The District reserves the right to adopt rules under division (G) of section 343.01 and under division (c) of section 3734.53 of the Revised Code.

**Table ES-1
General Information**

District Name: Auglaize County Solid Waste District		
District ID #	Reference Year 2017	Planning Period: 2020-2034
(for OEPA use only)		
Plan Status (underline one)		
U	RD	DR Approved (date) / / OI (date) / / DA
		Reason for Plan Submittal: Mandatory five year update, change in circumstance

Abbreviations: D=draft; RD=ratified draft, DR=draft revised, OI=ordered to be implemented, DA=draft amended

**Table ES-2
District/Coordinator/Office**

Name: Mr. Scott Cisco		
Address: PO Box 603, 15502 St. Mary's River Road		
City: St. Mary's	State: Ohio	Zip: 45885
Phone: (419) 394-1270	Fax: (419) 394-3417	

**Table ES-3
Plan Data Summary**

Plan Data		Reference Year 2017	2020 (year 1)	2025 (year 5)	2030 (year 10)	2035 (year 15)
Population		45,778	45,502	45,150	44,690	44,270
Generation	Industrial	66,991	66,991	66,991	66,991	66,991
	Res/Comm	41,695	43,116	44,508	46,286	48,174
	Exempt	7,231	7,902	7,902	7,902	7,902
Total Generation (tons)		115,918	118,009	119,401	121,179	123,068
Waste Reduction	Industrial Source Reduction	0	0	0	0	0
	Industrial Recycling	59,514	174,316	174,316	174,316	174,316
	Res/Comm Source	0	0	0	0	0
	Res/Comm Recycling	9,817	10,796	11,596	12,854	14,486
	Yard Waste Composting	7,840	7,840	7,840	7,840	7,840
	MSW Composting	0	0	0	0	0
Total Waste Reduction (tons)		77,171	192,953	193,753	195,011	196,643
Disposal	In-District Landfills	20,322	0	0	0	0
	Out of District Landfills	18,419	56,916	57,498	58,010	65,768
Total Landfill (tons)		38,740	56,916	57,498	58,010	65,768
Waste Reduction Rate	Industrial	88.8%	87.5%	87.5%	87.5%	87.5%
	Residential/Commercial	42.3%	43.6%	44.0%	45.1%	45.1%

Source(s) of information: Tables IV-1, IV-5, IV-6, V-2, V-3, V-4 , V-6, and VI-4A

**Table ES-4
Existing Disposal Facilities**

Name	County	District Tons	Total Tons	Years Left
In-District Landfills				
None				
Out-of-District Landfills				
Celina Sanitary Landfill	Mercer, OH	20,322	372,752	7.4
Cherokee Run Landfill	Logan, OH	15	0	24.1
County Environmental of Wynadot	Wyandot, OH	55	27,729,863	122.7
Evergreen Recycling & Disposal	Wood, OH	8	5,215,605	42
Rumpke Waste Inc Hughes Rd Landfill	Hamilton, OH	8,396	20,062,062	9.8
Hancock County Sanitary Landfill	Hancock, OH	499	4,576,196	31.9
Defiance County Sanitary Landfill	Defiance, OH	3	7,835,461	56.8
Beech Hollow Landfill	Jackson, OH	834	23,230,908	103.13
Tunnel Hill Reclamation Landfill	Perry, OH	0	17,705,616	17.1
Out-of-State Landfills				
South Side Landfill	Marion, IN	4	31,828,451	17.09
Jay County Landfill	Jay, IN	8,604	11,609,305	39.61
Total/Average		38,740	150,166,218	42.88

Source(s) of information: 2017 Ohio Facility Data Report Tables, Table III-1, and Table VI-4A

Note: The SouthSide landfill was a destination of a transfer station used by the District.

III. Inventories [ORC Section 3734-53(A)(1)-(4)]

This section of the plan update describes how solid waste was collected, reduced, recycled, disposed, incinerated, and ultimately managed in the Auglaize County Solid Waste Management District during 2017.

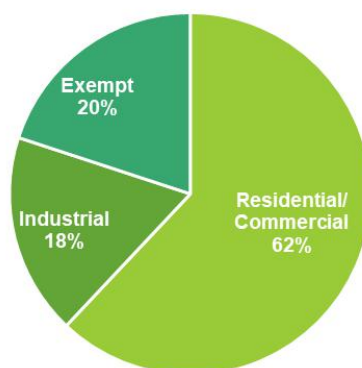
A. The Reference Year

The District will use calendar year 2017 as a reference year for all subsequent projections in the Plan.

B. Existing Solid Waste Landfills

Table III-1, “Landfills Used by the District” presents a list of the landfills that received directly hauled solid waste from the District. There are currently no operating MSW landfills located in the District. District-generated solid waste that was directly hauled (versus transferred) was managed at seven out-of-District landfills and one out-of-state landfill. Approximately 22,427 tons of solid waste were directly hauled to landfills for disposal in 2017. The residential/commercial sector generated 41% of the waste that was directly hauled, and the industrial sector generated 25% of all directly hauled waste. Exempt waste represented approximately 34% of the waste that was directly hauled. Exempt waste can include earth or materials from construction, mining, or demolition operations, non-toxic fly ash, non-toxic bottom ash, or slag. The following figure presents the percent of directly hauled solid waste generated by each sector in 2017.

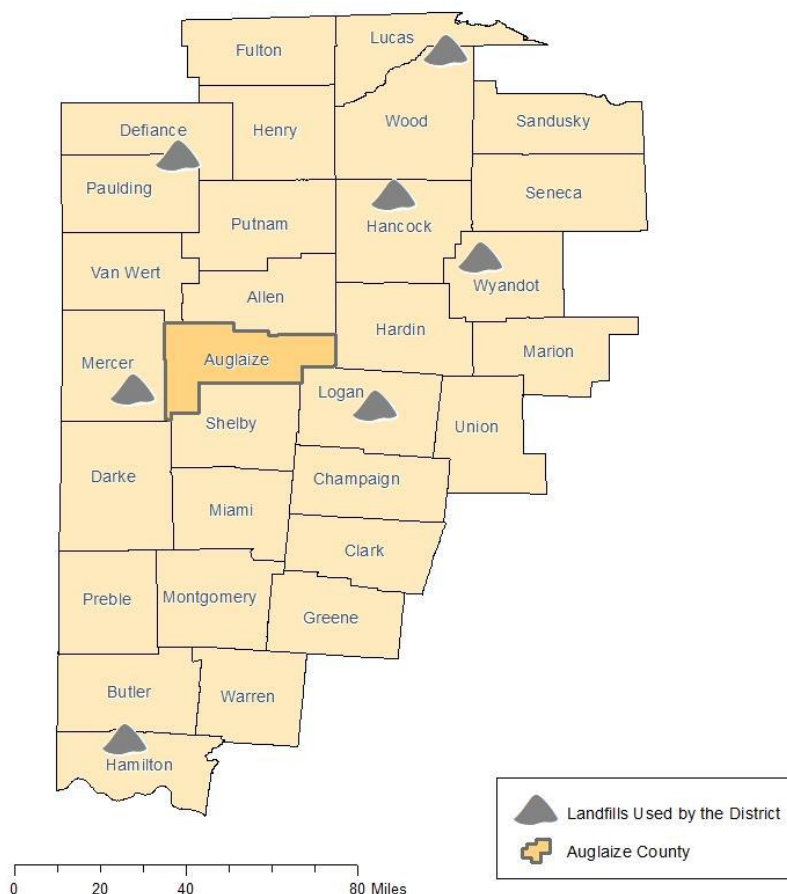
2017 Percentage of Directly Hauled Solid Waste Generated by Sector



The Celina Sanitary Landfill received the largest portion of directly hauled solid waste (approximately 91%), followed by the Jay County Landfill, which is located in Indiana (approximately 5%) and the Hancock County

Landfill (approximately 2%). The remaining waste, which represented approximately 2% of the directly hauled solid waste, was managed at five landfills, including Cherokee Run Landfill, County Environmental of Wyandot, Evergreen Recycling and Disposal, Rumpke Waste Inc Hughes Rd. Landfill, and Defiance County Sanitary Landfill. The following map presents the locations of landfills that accepted directly hauled solid waste generated in the District.

2017 Landfills that Accepted Directly-Hauled Solid Waste



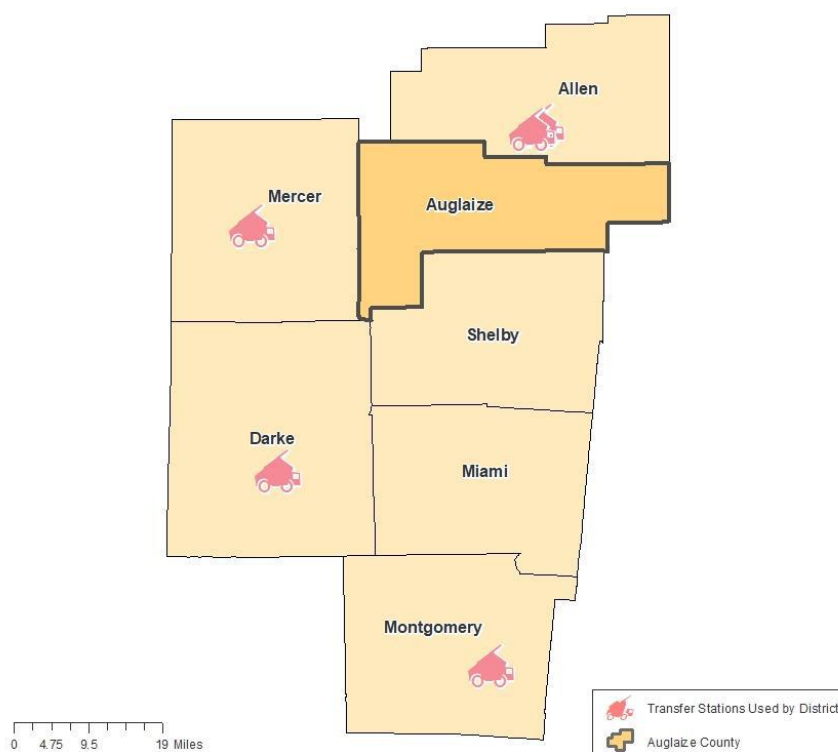
C. Existing Incinerators and Resource Recovery Facilities

Table III-2, “Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District,” presents solid waste incinerators or waste-to-energy facilities used by the District. The District used one out-of-state resource recovery facility to manage 6.7 tons of solid waste during 2017.

D. Existing Transfer Facilities

Table III-3, “Solid Waste Transfer Facilities Used by the District,” presents a listing of transfer facilities that accepted District-generated waste in 2017. Approximately 16,314 tons of waste were managed by transfer stations. Greenville Transfer & Scrap Tire Collection Facility located in Darke County, managed the most materials (49%) of the transferred waste, followed by Waste Management of Ohio – Lima (41%). The remaining 10% was managed at three out-of-District transfer stations and three out-of-state transfer stations and processing facilities. The three out-of-state facilities that transferred waste are processing facilities and not traditional transfer facilities. However, these three facilities are not categorized as incinerators, waste-to-energy facilities, or landfills, so the cumulative 3.51 tons that were processed there were added in with the transfer facilities in Table III-3. The following map presents the locations of transfer stations used by the District.

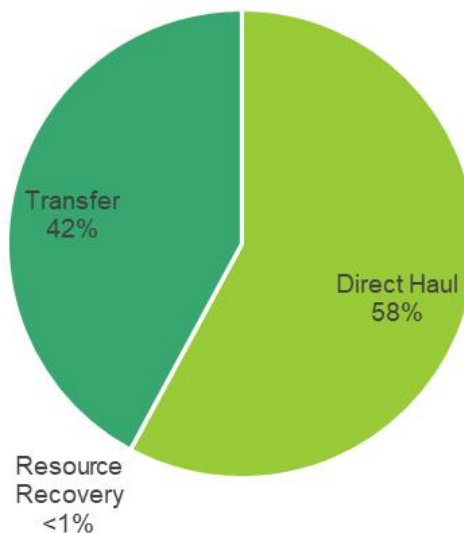
2017 Transfer Stations Used by the District



Directly hauling waste to a landfill was the primary method of waste disposal. Approximately 58% of waste was directly hauled to a landfill. Approximately 42% of waste was disposed by being hauled to a transfer station first. Less than one percent was managed at a resource recovery

facility. The following figure presents the methods used to manage solid waste by percentage of the total waste disposed.

2017 Solid Waste Management Methods by Percentage of Total Tons



E. Existing Recycling and Household Hazardous Waste Collection Activities

Table III-4, "Residential Curbside Recycling Activities Used by the District," presents residential curbside recycling activities operating in the District. During the reference year, there were three non-subscription curbside recycling programs. In 2017, a total of 989 tons of recyclables were collected and processed by the curbside programs in New Knoxville, St. Marys, and Wapakoneta. The following map presents areas that had access to curbside recycling in 2017.

2017 District Curbside Recycling Programs

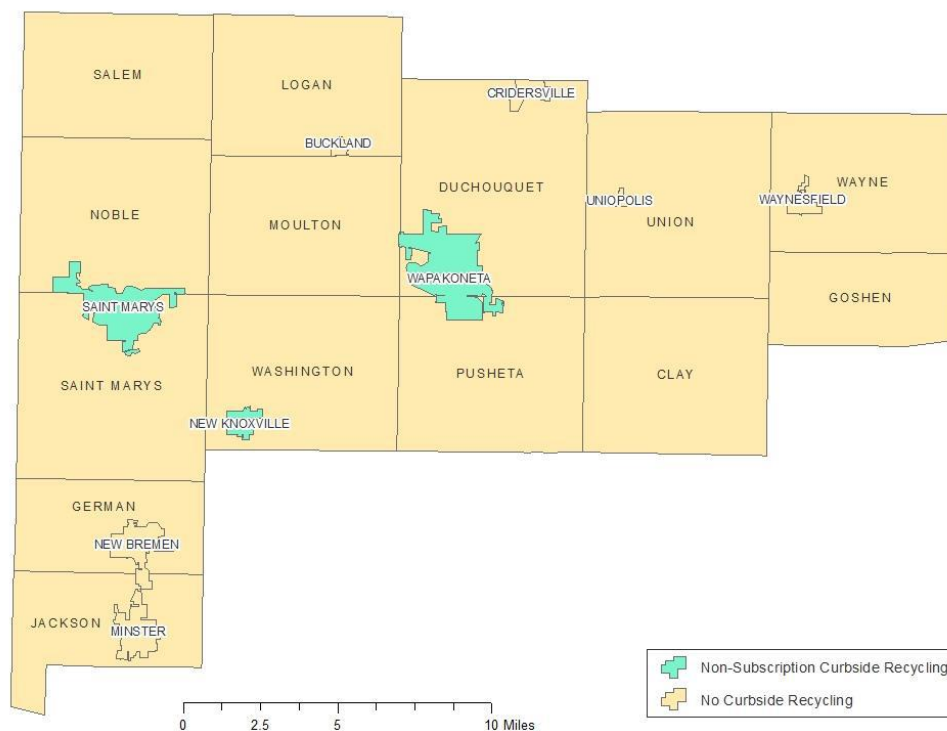
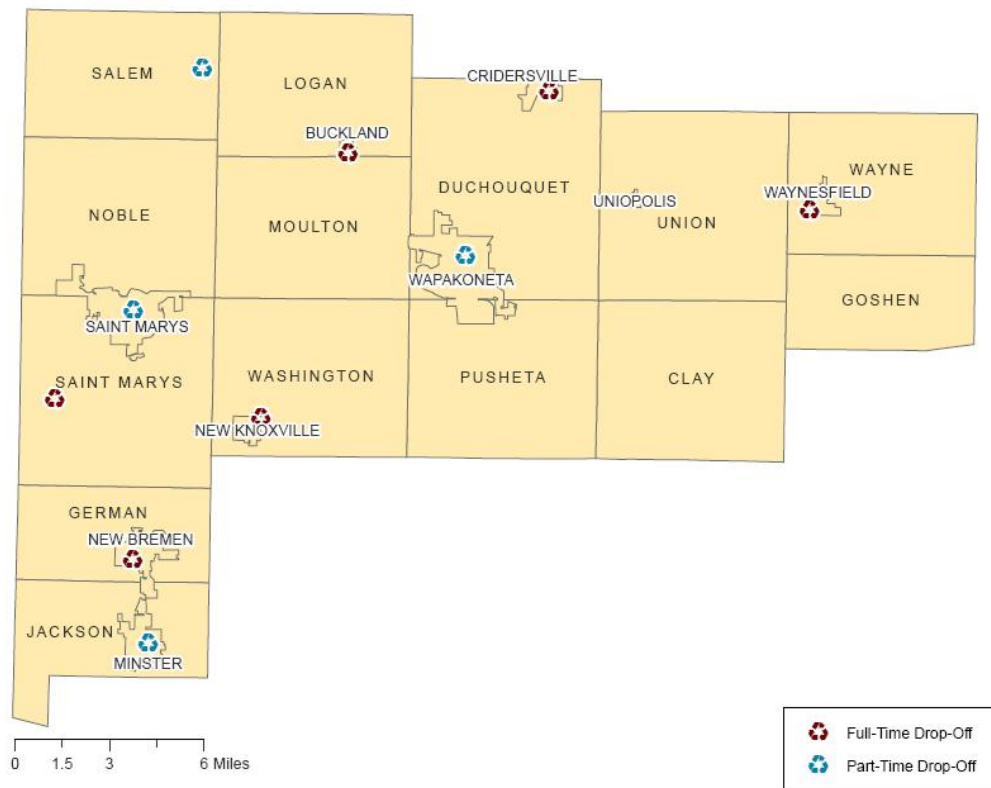


Table III-5, “Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District,” contains a list of facilities and activities used by the District. Information in this table is based on results of surveys, facility records, and direct inquiry.

There were 7 full-time and 4 part-time recycling drop-offs operating in the District during 2017. Residents could also drop recyclable materials off at the MRF in-district during business hours. Full-time status indicates that drop-offs are available to the public at least 40 hours per week. Full-time drop-offs accepted glass, cans, cardboard, paper, 1-2 plastics, plastic bags, (some drop-off locations also collected cooking oil, scrap tires, batteries, e-waste, motor oil, and more). Details are included in Table III-5. The following figure presents the locations of each drop-off facility that operated during 2017.

2017 Drop-Off Recycling Facilities



Recyclable materials collected from curbside programs and drop-offs were taken to the Auglaize County Recycling Center. In addition, there were numerous brokers/processors and scrap yards that accepted recycled materials generated in the District. Seven commercial chain stores (Walmart, Dollar General, Lowe's, Kohl's, Kroger, USPS, and Aldi) located throughout the District operated recycling programs. Four major scrap tire recyclers were also used by the District: Enviro Tire Recycling, Liberty Tire Service of Ohio, Porter Tire Center, Inc., and R&R Tire Disposal.

Additional recycling programs conducted at businesses and industries that were managed by haulers, brokers, and processors not listed earlier in Table III-5 are reported under "Special District Collections" in Table III-5.

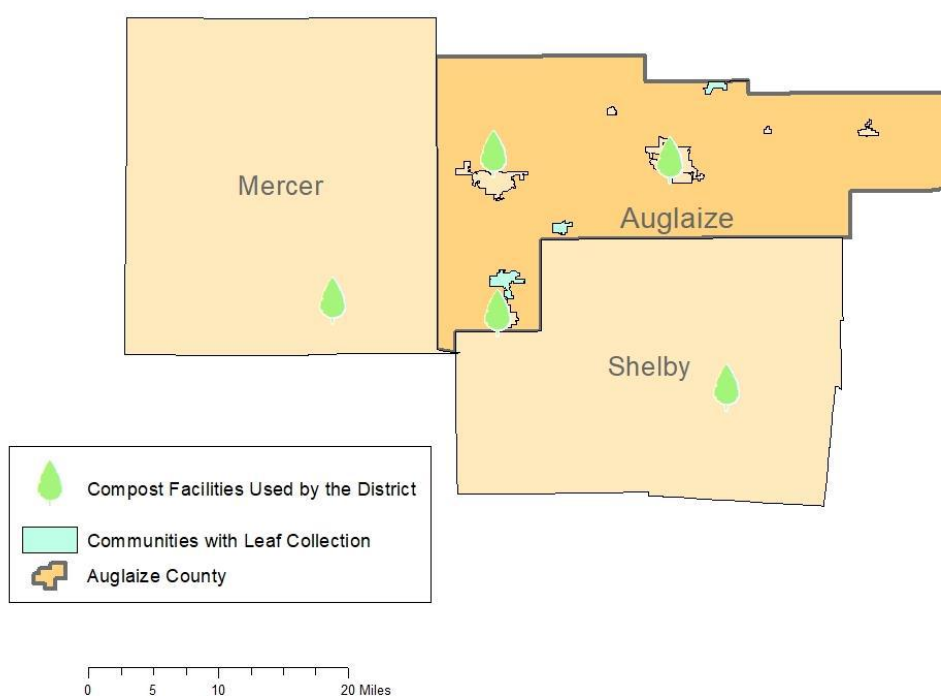
F. Existing Composting/Yard Waste Management Facilities

Compost facilities that are located within the District are presented in Table III-6, "Composting/Yard Waste Management Activities Used by the District." There were three Class IV compost facilities operating in Auglaize County during 2017 that managed 4,097 tons of yard waste. Three communities collected leaves and land-applied the processed material.

Organics were also managed at two out-of-District Class IV compost facilities that processed 1,714 tons of yard waste generated in Auglaize County in 2017. Additionally, 159 tons of food waste were processed by haulers and grocers in the District. The overall organics composted by the District totaled 7,840 tons.

The following map presents the locations of registered composting facilities used to manage organics generated in the District, as well as the community leaf collection activities throughout the District.

2017 Registered Yard Waste Facilities and Activities



G. Facilities Used by the District Which are Located Outside Ohio

Four resource recovery facilities in Indiana and one landfill located in Indiana were used to manage waste generated in the District (see Table III-7).

H. Existing Open Dumps and Waste Tire Dumps

There are no open dump and waste tire sites located in the District (see Table III-8).

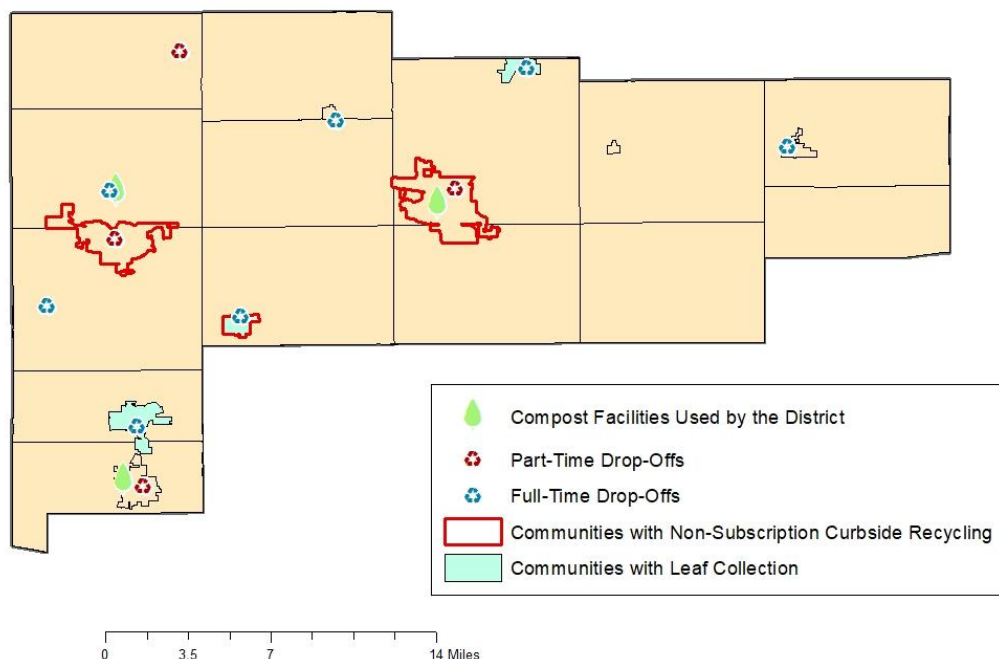
I. Ash, Foundry Sand, and Slag Disposal Sites

There are no known ash, foundry sand, or slag disposal sites located in the District (see Table III-9).

J. Map of Facilities and Sites

A full-size map of the District's facilities is included in Appendix E. The following map, which is smaller than the version included in Appendix E, has been included for reference.

District Facilities and Sites



K. Existing Collection Systems – Haulers

Table III-10, "Solid Waste Haulers Operating in the District," contains the public and private sector waste haulers providing service to waste generators in the District.

There were sixteen known private sector haulers (not counting Scrap Tire Haulers) and two public sector haulers that provided collection services within the District. The list of haulers was taken from the 2017 ADR survey results; haulers were researched to identify whether they were still in business and/or still providing hauling services in the District.

**Table III-1
Landfills Used by the District**

Facility Name	Type	Location		Waste Received from the SWMD (TPY)			
		County	State	Residential/ Commercial	Industrial	Exempt	Total
In-District Landfills							
None							0
Out-of-District Landfills							
Celina Sanitary Landfill	PO, PA	Mercer	OH	8,101	5,116	7,105	20,322
Cherokee Run Landfill	PO, PA	Logan	OH	12	0	3	15
County Environmental of Wynadot	PO, PA	Wyandot	OH	30	0	25	55
Evergreen Recycling & Disposal	PO, PA	Wood	OH	1	7	0	8
Rumpke Waste Inc Hughes Rd Landfill	PO, PA	Hamilton	OH	0	402	0	402
Hancock County Sanitary Landfill	GO, PA	Hancock	OH	482	0	17	499
Defiance County Sanitary Landfill	GO, PA	Defiance	OH	0	0	3	3
Out-of-State Landfills							
Jay County Landfill	LF	Jay	IN	627	495	0	1,122
Landfill Total				9,252	6,021	7,154	22,427
Incinerator Facilities				0	7	0	7
Transfer Stations				14,787	1,449	78	16,314
Total Disposal				24,039	7,477	7,231	38,747

PA = publicly available, PO = privately-operated, GO = government-operated, N/A = not applicable

Source(s) of information: Ohio EPA, 2017 Annual District Review Forms, Indiana Department of Environmental Management, 2017 Complete Solid Waste Quarterly Report Database

Table III-2
Solid Waste Incinerators, Waste-to-Energy, and Processing Facilities Used by the District

Facility Name	Type	Location		Waste Received from the SWMD (TPY)					Total Ash Produced (TPY)
				Residential/ Commercial	Industrial	Exempt	Total	Volume Reduction (TPY)	
In-District Facilities									
None.							0		
Out-of-District Facilities									
None.							0		
Out-of-State Facilities									
Indianapolis Resource Reco	PO, PA	Marion	IN	0.00	6.70	0.00	6.70	2.01	4.69
Totals				0.00	6.70	0.00	6.70	2.01	4.69

Table III-3
Solid Waste Transfer Facilities Used by the District

Facility Name	Type	Location		Waste Received from the SWMD (TPY)				Recyclables Processed	
		County	State	Residential/ Commercial	Industrial	Exempt	Total	Recovered from Waste	Total
In-District Facilities									
None.									0
Out-of-District Facilities									
Allen County Refuse Metcalf St Transfer Station	PO, PA	Allen	OH	834	0	0	834	0	0
Maharg Inc Solid Waste Transfer Facility	PO, PA	Mercer	OH	727	0	0	727	0	0
Montgomery Co. South Transfer Facility	GO, PA	Montgomery	OH	0	0	0	0	0	0
Greenville Transfer & Scrap Tire Collection Facility	PO, PA	Darke	OH	6,581	1,335	78	7,994	0	0
Waste Management of Ohio - Lima	PO, PA	Allen	OH	6,645	111	0	6,755	0	0
Out-of-State Facilities									
Tradebe Treatment & Recycli	PFO	Lake	IN	0	3	0	3	0	0
EQ Industrial Services Proces	PFO	Marion	IN	0	0	0	0	0	0
Medassure of Indiana Treatm	MWP	Marion	IN	0	0	0	0	0	0
Totals				14,787	1,449	78	16,314	0	0

PA = publicly available, PO = privately-operated, GO = government-operated

Source(s) of information: Ohio EPA, 2017 Annual District Review Form, Indiana Department of Environmental Management, 2017 Complete Solid Waste Quarterly Report Database

***Note:** The three out-of-state facilities utilized by the District are processing facilities and not traditional transfer facilities.

Table III-4
Residential Curbside Recycling Activities Used by the District

Community	Type	Population Served	Collection Frequency	Types of Materials Accepted							Tons Processed from SWMD
				AC	GL	PL	ONP	OCC	SC	MxP	
Non-Subscription Curbside Recycling											
New Knoxville	NS	865	weekly	x	x	x	x	x	x	x	108
St. Marys	NS	8,151	weekly	x	x	x	x	x	x	x	223
Wapakoneta	NS	9,782	weekly	x	x	x	x	x	x	x	658
2017 Non-Subscription Curbside Recycling Total											989
Subscription Curbside Recycling											
None											0
2017 Subscription Curbside Recycling Total											0
2017 Total Curbside Recycling Total											989

NS = non-subscription curbside recycling; S = subscription curbside recycling

AC = aluminum containers; GL = glass containers; PL = plastic containers; ONP = newspaper; OCC = cardboard;
 SC = steel containers; MxP = mixed paper; AS = aseptic containers

Source(s) of information: 2017 Annual District Report. Population: Ohio Development Services Agency Office of Research, 2017 Population Estimates: Cities, Villages, and Townships by County

Table III-5

Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

Facility/Activity Name, Address, Phone	Type	Types of Materials Accepted											Service Area			Hours Available to Public	Tons of Recyclables from SWMD	% of Tons by Sector
													County	Twp./ City	Population Served			
		AC	GL	PL	OCC	SC	LAB	MxP	ST	WG	OM	Oth						
Full Time Drop-Off Recycling Centers																		
Tower Park	DO	x	x	x	x	x		x			x		Auglaize	Cidersville	45,778	24/7	62.93	100% R
Buckland Recycling, Old Tile Mill	DO	x	x	x	x	x		x			x		Auglaize	Wapakoneta	45,778	24/7	51.27	100% R
New Bremen, Herman Street	DO	x	x	x	x	x		x			x		Auglaize	New Bremen	45,778	24/7	170.68	100% R
St Marys Townshp, State Route 364	DO	x	x	x	x	x		x			x		Auglaize	St Marys	45,778	24/7	101.07	100% R
Waynesfield, Wayne Street	DO	x	x	x	x	x		x			x		Auglaize	Waynesfield	45,778	24/7	16.03	100% R
New Knoxville, Industrial Drive	DO	x	x	x	x	x		x			x		Auglaize	New Knoxville	45,778	24/7	13.98	100% R
Auglaize County MRF Drop-Off	DO	x	x	x	x	x		x			x		Auglaize	St Marys	0	40 Hours /Week	4,160.00	100% R/C
Part-Time Drop-Off Recycling Centers																		
Minster Recycling, Garfield Street	DO	x	x	x	x	x		x			x		Auglaize	Minster	45,778	Saturdays	118.25	100% R
St. Marys Volunteer Recycling	DO	x	x	x	x	x		x			x		Auglaize	St Marys	45,778	Closed end of February 2017	2.61	100% R
Wapakoneta, N. Water Street	DO	x	x	x	x	x		x			x		Auglaize	Wapakoneta	45,778	3 hours every Saturday	168.00	100% R
Salem, OH 197	DO	x	x	x	x	x		x			x		Auglaize	Salem	45,778	Daylight hours on second Friday- Sunday each month	7.64	100% R
Brokers, Processors, and Scrap Yards																		
		AC	GL	PL	OCC	SC	LAB	MxP	ST	WG	OM	Oth						
OmniSource 4575 County Road 33A P.O. Box 127 St. Marys, Ohio 45885 (419) 394-3351		x									x		Auglaize	DNR	45,778	Business Hours	5,695.10	1% C 99% I
Indian Lake/Logan Co					x			x					Auglaize	DNR	45,778	Business Hours	29.50	2% C 98% I
Midtown Pallets 1987 Hawthorne St Toledo, OH 43606												x	Auglaize	DNR	45,778	Business Hours	39.70	100% C
Commercial Waste					x								Auglaize	DNR	45,778	Business Hours	6.30	100% C
Safety Kleen 4465 Marketing Pl Groveport, OH 43125											x		Auglaize	DNR	45,778	Business Hours	0.75	100% C
Marimor Shred 2450 Ada Rd Lima, OH 45801								x					Auglaize	DNR	45,778	Business Hours	0.25	100% C
Allen County Pallet 700 E Hanthorn Rd Lima, OH 45804												x	Auglaize	DNR	45,778	Business Hours	1.50	100% C
B&G Recycling 17437 National Rd. Wapakoneta, OH 45895 (419) 645-4464											x		Auglaize	DNR	45,778	Business Hours	4.00	100% C
Windsors											x		Auglaize	DNR	45,778	Business Hours	0.32	100% C
Langston Pallet 1650 Miami Conservancy Rd Sidney, OH 45365											x		Auglaize	DNR	45,778	Business Hours	15.51	32% C 68% I
Franklin Iron and Steel 1939 E 1st St. Dayton, OH 45403 (937) 253-8184											x		Auglaize	DNR	45,778	Business Hours	327.00	100% I

Table III-5
Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

Facility/Activity Name, Address, Phone	Type	Types of Materials Accepted												Service Area			Hours Available to Public	Tons of Recyclables from SWMD	% of Tons by Sector
														County	Twp./ City	Population Served			
		AC	GL	PL	OCC	SC	LAB	MxP	ST	WG	OM	Oth							
Minster Boy Scouts 292 E 4th St Minster, OH 45865					x								Auglaize	DNR	45,778	Business Hours	1.00	100% I	
River Valley 120 E Mill St. Akron, OH 44308					x			x					Auglaize	DNR	45,778	Business Hours	501.00	100% I	
Auglaize Pallet 402 N Water St. Wapakoneta, OH 45895 (419) 738-2003												x	Auglaize	DNR	45,778	Business Hours	40.00	100% I	
Advanced Plastic Recycling 55 N Garfield St. Minster, OH 45865 (419) 628-8034					x								Auglaize	DNR	45,778	Business Hours	30.40	100% I	
Urban Elsass & Sons 600 W Statler Rd Piqua, OH 45356												x	Auglaize	DNR	45,778	Business Hours	37.92	100% I	
Capabilities								x					Auglaize	DNR	45,778	Business Hours	42.00	100% I	
Holland Freight 4800 Journal St Columbus, OH 43228												x	Auglaize	DNR	45,778	Business Hours	115.00	100% I	
Accushred 1114 Central Ave Toledo, OH 43610								x					Auglaize	DNR	45,778	Business Hours	0.92	100% I	
Montgomery Paper 400 E 4th Street Dayton, OH 45402 (937) 222-4059					x			x					Auglaize	DNR	45,778	Business Hours	204.10	100% I	
Iwan Vanderson, Bob Sawmiller												x	Auglaize	DNR	45,778	Business Hours	19.43	100% I	
Midwest Iron and Metal Co 461 Homestead Ave. Dayton, OH 45417 (937) 222-5992												x	Auglaize	DNR	45,778	Business Hours	13.00	100% I	
Registered Scrap Tire Transporters																			
Enviro Tire Recycling 1155 Bonham Ave Columbus, OH 43211									x				Auglaize	District	45,778	Business Hours	37.50	DNR	
Liberty Tire Service of Ohio 3041 Jackson Pike Grove City, OH 43123									x				Auglaize	District	45,778	Business Hours	217.63	DNR	
Porter Tire Center Inc 18361 US-60 Olive Hill, KY 41164									x				Auglaize	District	45,778	Business Hours	268.80	DNR	
R&R Tire Disposal 3909 Kemp Rd N Lima, OH 45807									x				Auglaize	District	45,778	Business Hours	56.49	100% C	
L&O Tire 14555 OH-119 Anna, OH 45302									x				Auglaize	DNR	45,778	Business Hours	1.00	100% I	
Material Recovery Facilities																			
Auglaize County MRF 15502 St Marys River Rd. St Marys, OH 45885	PA	x	x	x	x	x	x	x	x	x	x	x	Auglaize	District	45,778	Drop-Off Service open 24/7	4,160.00	99% R 1% I	
Rumpke Recycling - Dayton 1932 E Monument Ave Dayton, OH 45402					x				x			x	Auglaize	District	45,778	Business Hours	130.00	100% C	
Ohio Recycling 7837 St. Rt. 274 Chickasaw, OH 45826 (419) 925-4444		x			x				x			x	Auglaize	DNR	45,778	Business Hours	237.36	92% C 8% I	
Allen County Recycling 541 S Central Avenue Lima, OH 45804 (419) 223-5010					x								Auglaize	DNR	45,778	Business Hours	115.00	100% I	

Table III-5
Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

Facility/Activity Name, Address, Phone	Type	Types of Materials Accepted												Service Area			Hours Available to Public	Tons of Recyclables from SWMD	% of Tons by Sector
														County	Twp./ City	Population Served			
		AC	GL	PL	OCC	SC	LAB	MxP	ST	WG	OM	Oth							
Commercial Box Store Recycling																			
		AC	GL	PL	OCC	SC	LAB	MxP	ST	WG	OM	Oth							
Walmart	CB			x	x			x			x	x	Auglaize	District	45,778	Business Hours	495.54	100% C	
Low e's	CB			x	x						x	x	Auglaize	District	45,778	Business Hours	108.60	100% C	
Dollar General	CB				x			x					Auglaize	District	45,778	Business Hours	149.26	100% C	
Kohl's	CB			x	x							x	Auglaize	District	45,778	Business Hours	75.30	100% C	
Kroger	CB			x	x							x	Auglaize	District	45,778	Business Hours	395.15	100% C	
USPS	CB			x	x			x					Auglaize	District	45,778	Business Hours	49.23	100% C	
ALDI	CB			x	x							x	Auglaize	District	45,778	Business Hours	113.11	100% C	
Special District Collections																			
HHW Year-Round Collection	SC											x	Auglaize	District	45,778	Business Hours	DNR	100% R	
LAB and Household Battery Collection	SC						x						Auglaize	District	45,778	Business Hours	DNR	100% R	
Used Oil Collection	SC											x	Auglaize	District	45,778	Business Hours	DNR	100% R	
Annual Appliance Collection Event	SC									x			Auglaize	District	45,778	Business Hours	DNR	100% R	
Scrap Tire Annual Collection Event	SC							x					Auglaize	District	45,778	Business Hours	50.93	100% R	
Totals																14,490.43			

R = residential; C = commercial; I = industrial; PA = publicly available; PUO = private-use only; A = automotive service store; DO = drop-off; BR = broker; MRF = material recovery facility; CB = commercial box store chain; PR = processor; SC = special collection; ST = scrap tire transporter; SY = scrap yard; NA = not applicable/not available; DNR = did not report

AC = aluminum containers; GL = glass; PL = plastic; OCC = corrugated cardboard; SC = steel containers; LAB = lead-acid batteries; MxP = mixed paper; ST = scrap tires; WG = white goods/appliances; OM = other metals; Oth = other (household batteries, used oil, wood, etc.)

**Source(s) of
information:** 2017 Annual District Report

Table III-6
Composting/Yard Waste Management Activities Used by the District

Facility Name or Activity	Class	County	Waste Received from the SWMD		
			Address/Phone	Food Waste Tons	Yard Waste Tons
In-District Registered Compost Facilities					
Village of Minster Utilities Building	IV	Auglaize	285 North Ohio Street Minster, OH 45486	0	86
Saint Marys Composting Facility	IV	Auglaize	15500 St Marys River Rd St Marys, OH 45885	0	2,264
Wapakoneta Composting Facility*	IV	Auglaize	102 Perry Street PO Box 269 Wapakoneta, OH 45895	0	1,748
Subtotal				0	4,097
Out-of-District Registered Compost Facilities					
Brookside Wood Products**	IV	Mercer	2192 St Rte 127 Saint Henry, OH 45860	0	1,062
Roe Transportation Inc	IV	Shelby	3680 St Rte 47 Sidney, OH 45365	0	652
Subtotal				0	1,714
Other Activities					
Hauler and Grocer Food Waste Data	NA	Auglaize	NA	159	0
Village of Cridersville	NA	Auglaize	110 W Main St Cridersville, OH 45806	0	14
Village of New Knoxville	NA	Auglaize	101 S Main St PO Box 246 New Knoxville, OH 45781 419-753-2160	0	75
Village of New Bremen	NA	Auglaize	304 South Herman St New Bremen, OH 45869 419-629-2802	0	1940
Subtotal				159	2029
Grand Total				159	7,840

NA = not applicable, YW = yard waste

*Wapakoneta Composting Facility shows 1,747.5 tons reported in 2017 ADR by survey while the facility report 1,212.67 tons to the Ohio EPA. This survey difference accounted for the tonnage of leaves.

**Brookside Wood Products include 1.67 tons of animal, agricultural, and other compost waste.

Source(s) of information: Ohio EPA, 2017 Compost Facility Planning Report, 2017 ADR

Table III-7
Facilities Used by the District Which are Located Outside Ohio: Additional Data

Facility Name	Facility Mailing Address	Facility Owner	Facility Operator	2017 Tons Received	Operating Days/Year
Jay County Landfill	5825 W CR 400 S Portland, IN 47371	Waste Management of Indiana LLC	Same	1,122.00	260
Tradebe Treatment & Recycling	4343 Kennedy Ave East Chicago, IN 46312	Pollution Control Industries Inc	Same	3.34	260
Indianapolis Resource Recovery Facility	2320 S Harding St Indianapolis, IN 46221	Covanta Indianapolis Inc	Same	6.70	260
EQ Industrial Services Processing Facility	2650 N Shadeland Ave Indianapolis, IN 46219	EQ Industrial Services Inc	Same	0.03	260
Medassure of Indiana Treatment Facility	1013 S Girls School Rd Indianapolis, IN 46231	Medassure of Indiana LLC	Same	0.14	260

Source(s) of information: Indiana Department of Environmental Management, 2017 Authorized Operating Solid Waste Facilities

Table III-8
Open Dumps and Waste Tire Dumps Located in the District

Site Location (description)	Land Owner Contact Information	Description of Materials Dumped	Approximate Size of Site	Time Period Site has Existed	Update
Open Dump Sites					
None.					
Waste Tire Dump Sites					
None.					

N/A=Not available

Source(s) of information: Auglaize County Health Department

Table III-9
Ash, Foundry Sand, and Slag Disposal Sites Used by the District

Site Location (describe briefly)	Land Owner Contact Information	Description of Materials Dumped	Approximate Size of Site	Time Period Site has Existed
None.				

Source(s) of information: Auglaize County Health Department

Table III-10
Solid Waste Haulers Operating in the District

Hauler	Mailing Address	Service Area	Materials Collected	Trash Collected	Recyclables Collected	Name of Facility Used by Hauler
Private Sector Haulers						
Maharg Waste Collection	3726 Monroe Rd Celina, OH 45822	Village of New Knoxville	DNR	DNR	109.3	DNR
Allied Waste	107 Tilden Ave Mt Vernon, OH 43050	DNR	OCC	DNR	60.5	DNR
Rumpke	5474 Jaysville St-John Rd. Greenville, Ohio 937-548-2514	DNR	PL, OCC, MxP	DNR	90.1	DNR
Waste Management	1555 Buckeye Rd. Lima, OH 1-800-343-6047	DNR	MxP, FW	DNR	9.4	DNR
Republic	11164 Co Rd 4 Carey, Ohio 43316 1-800-491-1115	DNR	DNR	DNR	10.0	DNR
D & T Trucking Company	41771 Twp. Rd. 296 Dresden, OH 43821	DNR	DNR	DNR	DNR	DNR
Heitkamp Developers, Inc.	597 St. Rt. 119 Minster, Ohio 45865 419-925-4307	DNR	DNR	DNR	DNR	DNR
Hemmelgarn Services	624 Knoop Johnston Rd Sidney, OH 45365 (937) 498-1553	DNR	MSW, C&D, recyclables	DNR	DNR	DNR
J & N Hallers	2668 County Road 10 Ada, OH 45810 (419) 634-9445	DNR	MSW, C&D, recyclables, YW	DNR	DNR	DNR
Klenke's Trash Service	4871 Wabash Rd, Coldwater, OH 45828 (419) 942-1654	DNR	MSW, recyclables	DNR	DNR	DNR
Luedke's Trash Hauling	6360 Washington Pike Saint Marys, OH 45885 (419) 753-2640	DNR	MSW, C&D, recyclables	DNR	DNR	DNR
New Source Management	6980 Staeger Rd. Celina, OH 45822 (419) 586-9000	DNR	MSW, C&D, recyclables	DNR	DNR	DNR
Overman Trucking	2795 Ohio 49 Fort Recovery, OH 45846 (419) 375-4926	DNR	MSW, C&D, recyclables	DNR	DNR	DNR
P & R Disposal	8933 Hoenie Rd. Celina OH 45822 (419) 586-5615	DNR	MSW, C&D, recyclables	DNR	DNR	DNR
Rains Refuse	16991 Hengstler Rd. Wapakoneta, OH 45895 419-738-6883	Cridersville Wapakoneta	MSW	DNR	959	Celina Landfill
Newfer's Refuse	1324 Neubrecht Rd. Lima, OH 45801 (419) 302-5580	Cridersville (potentially more)	MSW, recyclables	DNR	DNR	DNR
Public Sector Haulers						
City of St. Marys	101 E Spring St St. Marys, OH 45885	City of St. Marys	AC, SC, GL, PL, MxP, OCC	DNR	223	Auglaize County Recycling Center
City of Wapakoneta	701 Parlette Ct Wapakoneta, OH 45895	City of Wapakoneta	AC, SC, GL, PL1-7, EW, LAB, OCC, MxP, Oth	DNR	658	Auglaize County Recycling Center
Total				0	2,119	

SW = solid waste, R = recyclables, FW = food waste

IV. Reference Year Population, Waste Generation and Waste Reduction [ORC Section 3734.53(A)(5)-(6)]

This section of the *Plan Update* presents information regarding the District's population, waste generation, and waste reduction estimates for the reference year.

A. Reference Year Population and Residential/Commercial Waste Generation

Table IV-1, "Reference Year Population and Residential/Commercial Generation," presents an estimate of the District's population and projected residential/commercial waste generation for 2017. The District's base population was 45,778. This population estimate was not adjusted for political subdivisions located in more than one solid waste district.

Population Adjustments

In accordance with Ohio law, the entire population of political subdivisions located in more than one solid waste district was credited to the district containing the largest portion of the jurisdiction's population.

No political subdivisions in Auglaize County straddled the border between more than one county. No adjustments to the population were necessary.

The District's total adjusted 2017 population was 45,778 residents.

B. Residential/Commercial Waste Generation

The 2017 residential/commercial waste generation rate was projected using historical data, which is summarized in the following table:

2013-2017 District Waste Generation Trends

Year	Waste + Recycling	Population	Per Capita Gen Rate (lbs/person/day)	Average Rate of Change for Per Capita Gen Rate
2013	40,067	45,920	4.78	
2014	38,934	45,905	4.65	-2.80%
2015	33,532	45,891	4.00	-13.85%
2016	33,603	45,876	4.01	0.24%
Average:				-5.47%

The average waste generation rate from 2013-2016 was 4.36 pound per person per day (ppd).

Residential/commercial per capita generation rates decreased on average -5.47% each year from 2013 to 2016. The estimated 2017 per capita generation rate of 3.79 PPD was calculated by increasing the 2016 rate (4.01 PPD) by the average annual percent increase from 2013-2016 (-5.47%).

The 2017 per capita residential/commercial waste generation was 4.99 ppd. Table IV-1 shows the formula used for estimating the residential/commercial waste generation. This methodology calculated the District's residential/commercial waste generation to be 31,698 tons in 2017. For further discussion on reconciling the waste generation values, see Section IV.H of this *Plan Update*.

C. Industrial Waste Generation

The District conducts annual solid waste and recycling surveys of its local industries. Detailed results from the industrial survey are included in Appendix F and copies of the commercial and industrial survey forms are included in Appendix G. Table IV-2 presents the summarized results of the District's 2017 Industrial Survey, as well as the estimated total for the District's entire industrial sector. A total of 136 industries in SIC codes 20 and 22-39 were identified throughout the District. Approximately 36% of the industries (49) representing nearly 67% of the District's industrial sector workforce responded to the survey.

Approximately 59,636 tons of recycled materials were identified in 2017.

The following table presents the types of industries that reported the largest per capita solid waste generation rates:

SIC Code	Description	Solid Waste Generation Rate (Tons/Employee)	Total Tons Reported on Survey
20	Food & Kindred Products	29	14,293
28	Chemical & Allied Products	30	18,503
35	Industrial Machinery & Equipment	243	9,138
39	Miscellaneous Manufacturing Industries	40	5,033

One of the four types of industries (SIC codes 35) that reported the highest per capita solid waste generation rates were also in the top types of industries with the highest overall tons reported. Industries with a SIC code of 28 (Industrial and Commercial Machinery and Computer Equipment) did not report notably high per capita solid waste generation rates, but this type of industry was among the top five types of industries in the District according to total tons reported, which was 55,027 tons.

To estimate total industrial waste generated, a list was compiled that contained all industrial sector businesses located in the District and the total number of employees by SIC code. The District determined the quantity of industries and employees that were not represented in the survey responses. Average per capita generation rates by SIC code from Appendix JJ of the Ohio EPA Plan format were used to project the total tons generated by industries that did not respond to the District's survey. Using this projection methodology, a total of 25,581 tons of industrial waste was generated in the District from non-responding industries. The resulting total is 85,216 tons generated by both responding and non-responding industries.

D. Exempt Waste

Exempt waste is material that is not defined as solid waste, such as earth or materials from construction, mining, or demolition operations, nontoxic fly ash, nontoxic bottom ash, or slag. Exempt wastes can be managed in landfills that have different and often less stringent environmental control requirements. Table IV-3 shows that the total exempt waste generated by the District was 7,231 tons. This includes the exempt waste reported by the landfills and transfer stations receiving the District's waste in Table III-1. The generation rate was 0.87 pounds per person per day (PPD).

Exempt waste does not have a direct correlation to changes in population. It may be related to factors such as changes in construction employment. The volume of exempt waste generated within the District fluctuated over the 5-year period from 2013 to 2017, from a low of 2,429 tons in 2014 to a high of 7,231 tons in 2017.

E. Total Waste Generation

Table IV-4, "Reference Year Total Waste Generation for the District," presents the total waste generated using District data and statewide projections. Using these sources of information, the District estimated that approximately 124,146 tons of waste was generated in 2017. The total generation rate was projected to be 14.86 pounds per person per day. This included 31,698 tons (Table IV-1) of residential/commercial waste, 85,216 tons (Table IV-2) of industrial waste, and 7,231 tons (Table IV-3) of exempt waste. The total waste generation listed in Table IV-4 is 8,228 tons more than the total in Table IV-8 (115,918 tons) as calculated using disposal facility data and reported recycling and waste reduction, including exempt waste. For further discussion on reconciling the waste generation values, see Section IV.H.

F. Reference Year Waste Reduction

The District obtained data from service providers, scrap yards, Ohio EPA, and program contractors to obtain data on residential, commercial, institutional, and industrial recycling for 2017. Residential/commercial waste reduction data reported in Table IV-5 and industrial waste reduction data reported in Table IV-6 was obtained from these data collection activities.

The District was careful to eliminate double-counting as described in the sections below.

Residential Data

Most residential sector recycling is collected from community curbside programs, drop-off recycling sites, and special material collection drives held by the District or District communities. The District ensured that there was no double counting by subtracting the recycled tons reported by the communities from the tons reported by the recycling processor, broker or hauler for that same community.

Commercial/Institutional Data

A survey of commercial businesses and institutions was completed by the District in the spring of 2017 to gather 2016 recycling and disposal data. The District used a mail house to send a cover letter, survey, and postage paid return envelope via the U.S. Postal Service to each commercial business and institution (SIC 42-45, 47-65, 67, 70, 73, 78-84, 86, 87, 91-95) located in the District. The letter explained the purpose of the inquiry and requested that recipients complete the enclosed survey and return it using the provided envelope. The results of these individual surveys were used to compile recycling by commercial businesses and institutions. Brokers, haulers, and MRFs (material recovery facilities) were also surveyed. These surveys requested only tonnage that was generated within the District.

Data from businesses was not blended with data from brokers, haulers, or MRFs when calculating the total tons for the majority of materials. The District typically used the greatest total tons reported by either businesses, brokers, haulers, or MRFs but not a combination of totals to avoid double counting.

Industrial Data

A survey of industries was completed by the District in the spring of 2018 to gather 2017 recycling and disposal data. In 2017, the District used a

mail house to send a cover letter, survey, and postage paid return envelope via the U.S. Postal Service to each industry (SIC codes 20 and 22-39) located in the District. The letter explained the purpose of the inquiry and requested that recipients complete the enclosed survey and return it using the provided envelope. The results of these individual surveys were used to compile industrial sector recycling. No other data from haulers, brokers, or MRFs was used in order to avoid double counting.

The District annually surveys industries. Responses from recipients that submitted a completed survey previously were compared to identify possible errors. In cases where current survey responses showed a significant increase or decrease in tonnage or omitting materials that were reported on a previous survey, follow up calls and e-mails were placed to confirm data.

Residential/Commercial Waste Reduction

Table IV-5, "Reference Year Residential/Commercial Waste Reduction in the District," shows that the District's residential and commercial sectors diverted 17,657 tons of materials from landfills in 2017 by recycling, composting, and reducing waste via incineration.

Yard waste represented the most diverted material based on weight (7,840 tons), followed by wood (3,732 tons), cardboard (2,359 tons), paper (1,523 tons), and scrap tires (580 tons). The following table summarizes the residential and commercial recycling totals by commodity.

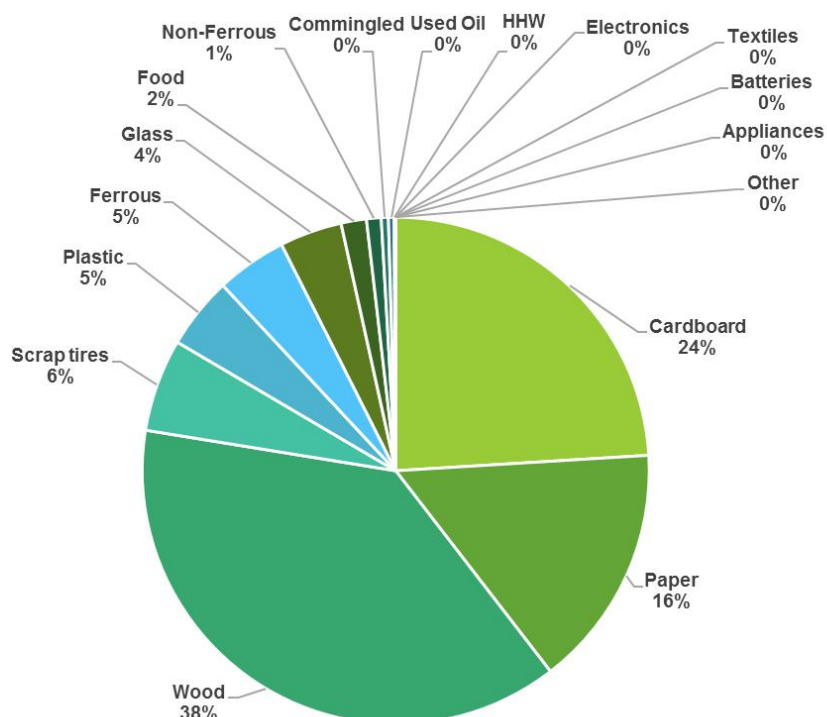
2017 Residential/Commercial Sector Recycling by Commodity

Material Recycled	Tons
Cardboard	2,359
Paper	1,523
Scrap tires	580
Glass	390
Wood	3,732
Plastic	450
Food	159
Other	0
Ferrous	442
Appliances	0
Non-Ferrous	92
Commingled	45
HHW	5
Used Oil	36

Material Recycled	Tons
Electronics	4
Textiles	0.03
Batteries	1
Composting	7,840
Total	17,657

The following figure presents the waste reduction percentages for the residential/commercial sector.

2017 Residential/Commercial Waste Reduction



Industrial Waste Reduction

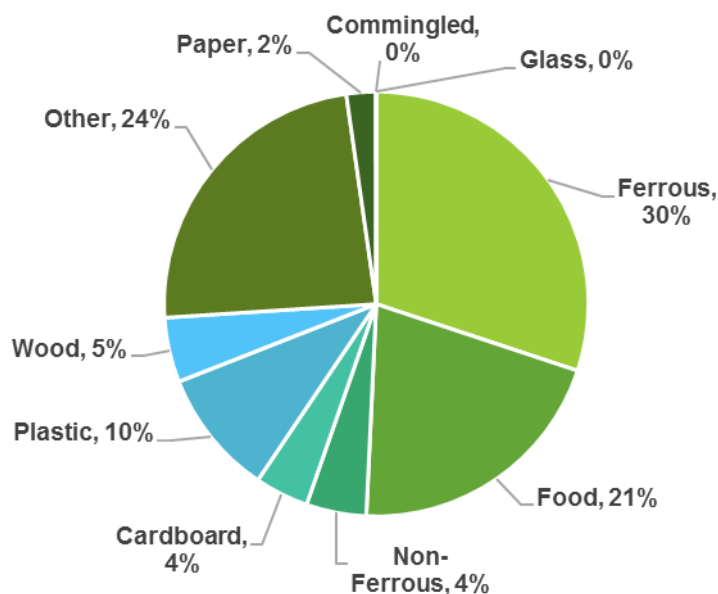
Table IV-6, "Reference Year Industrial Waste Reduction in the District" shows that industries located in the District reduced 59,514 tons of materials in 2017. Ferrous metals represented approximately 30% of the industrial sector recycling; other represented approximately 24%; and food represented approximately 21%. The following table summarizes the industrial recycling totals by commodity.

2017 Industrial Sector Recycling Tonnage by Commodity

Material Recycled	Tons
Ferrous	17,908
Food	12,296
Non-Ferrous	2,725
Cardboard	2,441
Plastic	5,724
Wood	2,932
Other	14,141
Paper	1,337
Commingled	10
Glass	0.16
Total	59,514

The following figure is a graphical representation of the commodities recycled by the industrial sector in 2017.

2017 Industrial Waste Reduction in the District



G. Existing Waste Reduction/Recycling Activities for the Residential, Commercial and Industrial Sectors

The following section summarizes the reference year residential/commercial programs and District initiatives. This section reflects the District's commitment to reducing solid waste from being disposed at landfills. The following table is an inventory of the District's programs during the reference year.

Description
Curbside Recycling
Drop-Off Recycling
Yard Waste Management
Household Hazardous Waste Management
Scrap Tire Recycling
Battery Collection
Used Oil Collection
Appliance Recycling
Special Event Recycling
School Recycling
Special Collection Routes
Buy Recycled
Recycling Opportunities Fund
Volunteer Recycling Assistance Group Grants
Education and Awareness <ul style="list-style-type: none"> • School Presentations • District Website • Commercial Technical Assistance • Advertising
Curbside and Pay-As-You-Throw Technical Assistance
Annual Surveying
Auglaize County Material Recovery Facility
General Plan Implementation
Solid Waste Management Infrastructure Improvements
DIY Waste Audits and Waste Reduction Resources

A strengths and weaknesses analysis was used to evaluate each of the District's existing programs. The results of the analysis are discussed following each program in this Section and will guide the District's planning efforts, which is reflected in Section V.

RESIDENTIAL/COMMERCIAL RECYCLING PROGRAMS

1. Curbside Recycling Program

The following three communities had non-subscription curbside recycling programs:

- New Knoxville
- St. Marys
- Wapakoneta

Non-subscription curbside recycling means that residents do not have to opt-in or pay additional fees to participate. Non-subscription curbside

recycling is available to all residents in single-family homes. All three programs in the District provided weekly curbside collection of recyclables. At a minimum, materials accepted by each program included:

- Tin/steel food containers
- Aluminum beverage containers
- Glass bottles and jugs
- #1 and #2 Plastic bottles and jugs
- Newspaper
- Mixed paper
- Magazines
- Catalogs
- Flattened Paperboard
- Phone books

In addition to the materials listed above, the Village of New Knoxville and City of Wapakoneta also accepted corrugated cardboard.

Non-subscription curbside recycling programs in the District operate by residents depositing recyclables in curbside bins. Bins are sorted primarily at the curbside by collection crews, except for commingled plastics, most of which are sorted at the Auglaize County Recycling Center (ACRC). Recyclables collected from the City of Wapakoneta and the City of St. Marys are taken to the ACRC on River Road. Recyclables collected from the Village of New Knoxville are managed by a private contractor (Maharg). Communities may be reimbursed for recyclables pre-sorted before delivery to the ACRC.

Wapakoneta, St. Marys, and New Knoxville operate Pay-As-You-Throw (PAYT) programs for waste disposal in conjunction with non-subscription curbside recycling programs. This combination of programming is widely accepted as the most effective method for maximizing residential waste diversion. PAYT and non-subscription curbside recycling is effective because it provides direct economic incentives to residents to recycle more and dispose less.

PAYT programs can be implemented in a variety of ways. All three District communities using PAYT programs implemented a tag and/or bag system. Residents of Wapakoneta, for example, must purchase City of Wapakoneta garbage bags for waste and tags for items that do not fit in garbage bags (i.e., a kitchen chair cost 10 tags to dispose). The cost of Wapakoneta's bags and tags are as follows:

- Large white bags (30 gallons) are \$15.00/package of 10
- Small black bags (15 gallons) are \$10.00/package of 10
- Tags are \$1.50 each

The combination of non-subscription curbside recycling and PAYT disposal is widely accepted as the most effective program pairing to maximize recycling. There were no subscription curbside recycling programs in the District to compare the effectiveness of subscription, non-subscription, and PAYT-combination programs.

In 2017, the City of Wapakoneta began the process to develop an RFP for the privatization of curbside trash and recycling. The RFP was issued in the Spring of 2018. No decision has been made to date regarding the results of the RFP. The District does anticipate that the non-subscription service will change into the new planning period.

The following table presents the District's communities and the annual pounds recycled per person by each curbside/PAYT program:

District Curbside Recycling Programs

Community	Tons	Population	Pounds/Person/Year
New Knoxville	108	865	249.7
Wapakoneta	658	9,782	134.5
St. Marys	223	8,151	54.7
Total	989	18,798	146.3

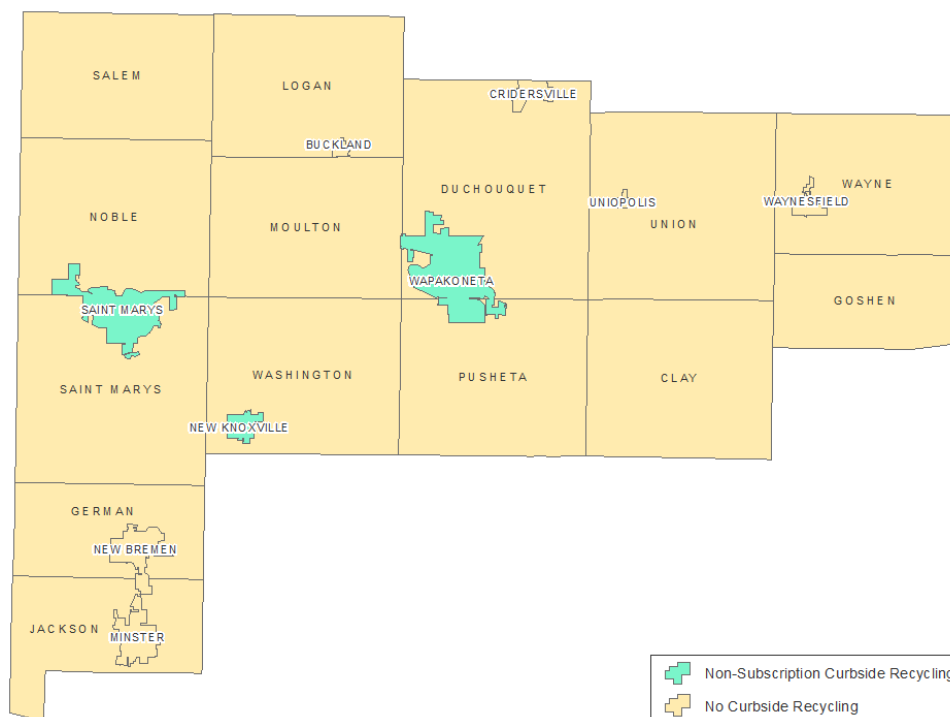
The annual recyclables per person for all of the District's curbside/PAYT programs was 146.3 pounds.

Historical Tonnage of District Curbside Recycling Programs (2013-2017)

Year	Curbside Tons
2013	1,122
2014	1,121
2015	1,004
2016	661
2017	989

The following figure depicts the location of the curbside recycling programs in the District:

2017 District Curbside Recycling Activities



The following table summarizes the program details:

Curbside Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	Communities
Service Area for Program	New Knoxville, St. Marys, and Wapakoneta
Materials Reduced/Recycled	Tin/steel food containers, aluminum beverage containers, glass bottles and jugs, #1 and #2 plastic bottles and jugs, newspaper, and mixed paper
2017 Recycled Tonnage	989
2017 Annual Program Costs	\$44,123.46
Program Operator/Contractor	Municipal collection crews, private Sector

Strengths of the program include:

- Residents of the District's two largest cities have access to non-subscription curbside recycling/PAYT.
- Residents in the two cities have an economic incentive to recycle because recycling is provided for no additional fee and waste collection fees are volume-based unless Wapakoneta changes the fees in their program.

Challenges of the program include:

- The following communities in the District do not have curbside recycling: Waynesfield, New Bremen, Minster, Cridersville, Buckland, St. Marys/Villa Nova and other surrounding subdivisions around Grand Lake St. Marys.
- All communities currently with a curbside program operate under a multi-stream collection program (except New Knoxville). The District prefers the collection to occur as a dual stream system.
- New Knoxville operates a single stream collection program which not be processed by the District.

2. Drop-Off Recycling Program

There were seven full-time and four part-time drop-off recycling centers located throughout the District in 2017. However, one part-time drop-off closed in February (St. Marys Volunteer Recycling location). Drop-off locations accepted the following materials in source separated containers:

- Tin/steel food containers
- Aluminum beverage containers
- Glass (source separated)
- #1 and #2 plastic bottles and jugs
- Newspaper/Mixed paper
- Corrugated cardboard
- Plastic bags (empty and are separated from other recyclables)
- Holiday lights (only at Recycling Center)
- Tires (only at Recycling Center)
- E-Waste (only at Recycling Center)
- Shoes (only at Recycling Center)
- HHW (only at Recycling Center)

Most full-time drop-offs were available 24 hours a day, 7 days a week. Part-time drop-offs operated one to three days per month. The drop-off schedule was posted on the District's website. Local newspapers are supportive of the District's mission to reduce reliance on landfills and publish the drop-off recycling schedule in the paper each week for no charge to the District.

In addition, special collections were held at the Wapakoneta drop-off every Saturday. The full-time Cridersville and part-time Wapakoneta drop-offs accepted oil at certain times of the week. All full-time drop-offs accepted lead acid batteries that were staffed. This practice is not advertised but did occur in 2017.

As part of the drop-off program, the District coordinates volunteer groups¹ to work at many of the special collections which are held at the drop-off locations. In exchange for volunteering, groups earn money for their club or non-profit organization. This program is very popular throughout the District. Annually, there were 75 spots for groups to manage a special collection day, and each year there is a waiting list. Volunteer groups help to minimize the contamination received at each drop-off and also sort materials that have been collected at the drop-off throughout the week.

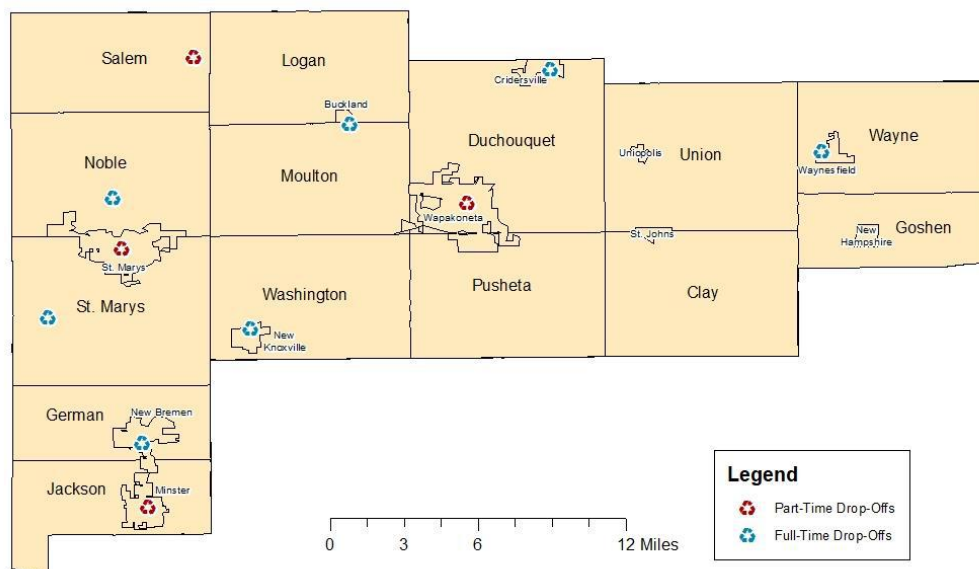
The following table presents a listing of the District's drop-offs:

2017 District Drop-Offs

Drop-Off Name	Location	Type	Operation Schedule
Cridersville, Tower Park	207 Water St, Cridersville	Full-Time	24/7
Buckland Recycling, Old Tile Mill	18863 St Rte 197, Wapakoneta	Full-Time	24/7
New Breman, Herman St	306 S Herman St, New Breman	Full-Time	24/7
Auglaize County MRF Drop-Off	15502 St. Marys River Rd, St. Marys	Full-Time	40 Hours/Week
St. Marys Township, St Rte 364	10752 St Rte 365, St Marys	Full-Time	24/7
Minster Recycling, Garfield St	55 North Garfield St, Minster	Part-Time	Every Saturday
Salem, OH 197	21219 Ohio 197, Spencerville	Part-time	Daylight hours on second Friday-Sunday each month
Waynesfield, Wayne St	218 S Wayne St, Waynesfield	Full-Time	24/7
St. Marys Volunteer Recycling	Chestnut St, St. Marys	Part-Time	Closed in February 2017
Wapakoneta, N. Water St	510 N Water St, Wapakoneta	Part-time	3 hours every Saturday with special collections
New Knoxville, Industrial Dr	Industrial Dr, New Knoxville	Full-Time	24/7

¹ Program #14, Volunteer Recycling Assistance Group Grants which can be found below in this section, further explains the use of volunteers and lists the numerous special collections held throughout the year.

2017 Drop-Off Recycling Facilities



Historical Tonnage of District Curbside Recycling Programs (2013-2017)

Year	Drop-off Tons
2013	654
2014	703
2015	552
2016	770
2017	712

The following table summarizes the program details:

Drop-Off Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Tin/steel food containers, aluminum beverage containers, glass bottles and jugs, #1 and #2 plastic bottles and jugs, newspaper, mixed paper, corrugated cardboard, used motor oil, shoes, holiday lights, lead-acid batteries, vinyl siding, plastic bags, and electronics
2017 Recycled Tonnage	712.46*
2017 Annual Program Costs	\$271,208
Program Operator/Contractor	District, municipal collection crews, private sector, and volunteers

*This tonnage does not include the drop off at the Auglaize County Recycling Center.

Strengths of the program include:

- The program has been well utilized by the public and continues to grow.
- The program is working reasonably well without an abundance of misuse and contamination.
- The program provides recycling opportunities to rural communities with no curbside recycling, multi-family dwellings, and small businesses.
- The program also provides a great opportunity to educate users of the sites on recycling and District programs.
- The District transitioned from trailer pick-ups to roll-off and packer service, thus making the collection system more efficient.
- The program has been growing over the years.
- The program is very user friendly and uniform across the District from site to site.

Challenges of the program include:

- Not all drop-off locations are 24/7.
- The St. Mary's Volunteer Recycling Site closed in 2017.
- Bags continue to be an issue at the drop-off sites and are commonly mixed with the recyclables. Residents are instructed keep bags empty and separated at the drop-off sites.
- The Minster drop-off site is not operated 24/7.
- Use of roll-offs can still be inefficient for collection. The use of a second packer truck would be beneficial.
- There are no buy-back drop-off locations in the District such as aluminum can.

3. Yard Waste Management Program

The District has adequate infrastructure to manage organic materials. There were three registered compost facilities, three collection programs operated by political subdivisions, two registered out-of-district compost facilities, and various food waste haulers servicing the District in 2017.

Compost facilities in the state of Ohio fall into one of four categories:

- Class I – mixed solid waste
- Class II – source-separated yard waste, agricultural waste, animal waste, and food scraps
- Class III – source-separated yard waste, agricultural waste, and animal waste
- Class IV – source separated yard waste

Registered Facilities

There were three registered Class IV compost facilities operating in the District during 2017:

- Wapakoneta Composting Facility – 1,212 tons²
- St. Marys Composting Facility – 2,264 tons
- Village of Minster Compost Facility – 85.67 tons

Two registered Class IV facilities located outside the District also provided capacity to manage yard waste generated in Auglaize County.

Collection Activities

In addition to the registered compost facilities, 158.92 tons of hauler and grocer food waste was composted according to the OEPA, and three communities operated leaf collection programs and land applied the processed leaves. The following communities collected and land-applied leaves as an alternative to disposal in 2017:

- Cridersville – 14 tons
- New Knoxville – 75 tons
- New Bremen – 1,940 tons

The following tables shows the historical tonnages for yard waste in Auglaize County. The District acknowledges the outliers in 2013 and 2014.

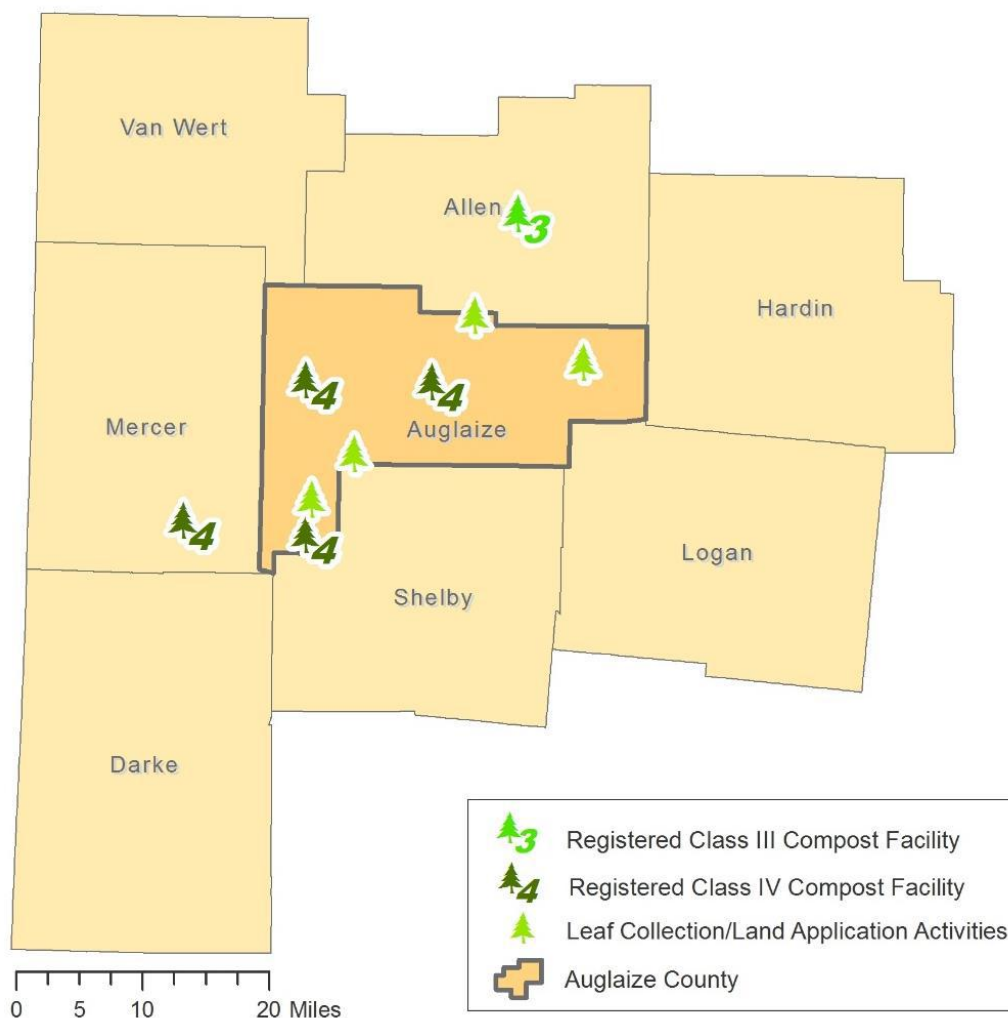
² *The District provided funding to the City of Wapakoneta to operate their compost facility. The funding comes from a portion of the generation fee that is collected from the disposal of the City's solid waste. This facility provides access to all areas of the District for composting services.

These tonnages were due to ash borer taking down a lot of trees causing a spike in compost tonnages.

Historical Tonnage of District Yard Waste (2013-2017)

Year	Yard Waste Tons
2013	11,674
2014	13,679
2015	6,947
2016	6,250
2017	7,840

2017 District Compost Activities



In 2017, compost facilities, communities, and commercial organizations reported approximately 7,304 tons of yard waste and 158.92 tons of food waste that was composted. Each private and public sector compost

operation is responsible for their program or facility. The private sector operations provide service to the entire District. The public sector facilities were typically limited in service area to their respective communities.

Targeted Yard Waste Composting Assistance (2016 – 2020)

The District identifies city and village departments and other entities throughout the County that manage significant quantities of organic debris. The District identifies diversion opportunities for entities that are currently not managing materials either at a registered compost facility or by land application as needed. Possible solutions include:

- Facilitating regional cooperation among political subdivisions to use an existing nearby facility.
- Providing grant or seed money to create a new yard waste management facility/site.

Additional objectives for this initiative include the following:

1. The District may contact at least two cities, villages, or other entities (“generators”) generating organic debris each year.
2. The District will help to identify diversion opportunities for these generators within six months.
3. The District will develop criteria to be used for determining eligibility for financial assistance to establish and/or continue compost programs. The criteria may include a measure of the commitment to organics collection and composting, the local availability of existing opportunities for composting, and participation of one or more generator representatives in the development of a composting plan for the generator.
4. The District will develop criteria which will be used to establish a priority list of generators to assist through this initiative. The criteria may include the willingness of the generator to participate in the program, the amount of material generated, and the availability of other management options for the generator.

The District had not made headway on this initiative during 2017.

The following table summarizes the program details:

Targeted Yard Waste Management Program Summary	
Description	Details
Entity Responsible for Maintaining Program	Political subdivisions, private sector
Service Area for Program	District
Materials Reduced/Recycled	Yard Waste and Food Waste
2017 Recycled Tonnage	7,304
2017 Annual Program Costs	\$17,264.62
Program Operator/Contractor	Municipal collection crews, private sector

Strengths of the program include:

- A significant amount of yard waste is diverted from landfills each year.

Challenges of the program include:

- None.

4. Household Hazardous Waste Management

The District accepts HHW material every weekday (Monday-Friday) at the Auglaize County Recycling Center. The following materials were accepted for no cost to residents:

- Household batteries
- Car batteries
- Non-Freon appliances
- E-scrap (computers, microwaves, printers, appliances)
- Used oil

The District also accepted the following materials for a fee:

- Paint
- Freon Appliances
- Used antifreeze
- Chemicals, herbicides, cleaners, and pesticides
- Mercury
- Light bulbs up to 8 ft
- Lithium and other rechargeable batteries
- Televisions
- CRT monitors
- Tires off the rim
 - Car and light tires: \$3 each
 - Large truck and agricultural tires: \$10 each
 - Semi-truck tires: \$10 each
 - Tractor lug tires: \$40 each

Used oil was also collected on a regular basis during special collections at drop-off locations in Wapakoneta and Cridersville and at the St. Marys Water Distribution Building.

Education about proper HHW management and disposal is included in the District's fair display and occasionally posted on the website and Facebook. Pamphlets were also made available at the Recycling Facility when residents dropped off materials. Finally, every city and village also were provided pamphlets on the program for residents.

HHW Year-Round Collection

The District began collecting HHW at the Auglaize County Recycling Center in 2017 during normal business hours. The District targets paint for these collections as it's the largest portion of the HHW collected during the one-day collections. A user fee may be implemented for some materials based on availability of District funding.

The following table summarizes the program details:

Household Hazardous Waste Management Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	HHW
2017 Recycled Tonnage	5.4 total tons collected
2017 Annual Program Costs	\$7,187.38
Program Operator/Contractor	District, Environmental Enterprises

Strengths of the program include:

- Event provides a no or low-cost opportunity for residents to properly dispose of HHW.
- The program has increased in volume and participation.
- Year-round recycling opportunities were available to residents starting in 2017.

Challenges of the program include:

- The Recycling Facility operating space is very challenging for the HHW program.

5. Scrap Tire Recycling

The District provided multiple opportunities for residents to recycle scrap tires, including:

- Any day during business hours at the Auglaize County Recycling Center for a fee.
- Tire Collection Event (every other year) at Auglaize County Recycle Center accepted residential tires for a reduced fee on September 30 for 4 hours. Car and light tires were \$1 each, semi-truck tires were \$5 each, and tractor/agricultural tires were \$10 each.

The tire fees on most days in 2017 are listed above in Section 4. The Tire Collection Day collected 50.93 tons of tires. The Auglaize County Recycling Center collected 0.45 tons of tires in 2017.

In addition to District events, businesses throughout Auglaize County accept scrap tires when new tires are purchased or accept scrap tires for a fee. The District provides information to residents who inquire about scrap tire disposal or recycling. There were four registered tire transporters that reported to the OEPA, and one additional tire transporter was reported in the District's 2017 ADR.

Historical Tonnage of District Scrap Tires (2013-2017)

Year	Tires Tons
2013	660
2014	524
2015	714
2016	747
2017	580

The following table summarizes the program details:

Scrap Tire Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Scrap tires
2017 Recycled Tonnage	50.93 + 0.45
2017 Annual Program Costs	\$7,996.05 grant funds \$1,668 match funds
Program Operator/Contractor	District, private sector, R&R Tire Recycling

Strengths of the program include:

- The District provides no or low-cost opportunities for residents at least once annually to properly dispose of scrap tires.
- Ongoing opportunity to recycle scrap tires at local dealers.

Challenges of the program include:

- None.

6. Battery Collection

Lead-acid batteries (LABs), household batteries (dry cell, rechargeable), and car batteries were collected in 2017. The District's seven full-time drop-offs accepted LABs and household batteries for recycling. The Auglaize County Recycling Center accepted household batteries and car batteries for free. For other batteries such as lithium and other rechargeable batteries, the District charged \$1 per pound. The following table summarizes the program details:

Battery Collection Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Lead-acid, car, and household batteries
2017 Recycled Tonnage	0.18
2017 Annual Program Costs	\$ Included in HHW Program
Program Operator/Contractor	District, private sector, Midwest Guardian (LAB), Green Wave (household batteries), E-scrap (household batteries)

Strengths of the program include:

- Year-round recycling opportunities were available to residents.

Challenges of the program include:

- None.

7. Used Oil Collection

Used oil was collected at Cridersville and Wapakoneta's full-service drop-off locations during certain times of the week and at the St. Marys City Water Distribution building on weekdays from 8AM to 3PM. Many auto

parts stores and service stations also accepted used motor oil from the public.

The following table summarizes the program details:

Used Oil Collection Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Used oil
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$0
Program Operator/Contractor	District, private sector, used oil burners at County Garage and Wapakoneta

Strengths of the program include:

- Year-round recycling opportunities were available to residents.

Challenges of the program include:

- None.

8. Appliance Recycling

In 2017, appliances were accepted at the Auglaize County Recycling Center every day during business hours. Appliances that did not contain Freon were accepted from the public for no charge. Freon-containing appliances were accepted for a fee of \$30.

The following table summarizes the program details:

Appliance Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Appliances (white goods)
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	N/A
Program Operator/Contractor	District, Omni Source, B&G Recycling

Strengths of the program include:

- Program provides no or low-cost option to recycle appliances.

Challenges of the program include:

- None

9. Special Event Recycling

The District provided recycling collection at special events, including:

- Auglaize County Fair (7 days)
- Cridersville Firemen's Jamboree (2 days)
- Buckeye Antique Farmers Festival (3 days)
- Buckland Firemen's Jamboree (2 days)
- St. Joe 4th of July Festival (2 days)
- Wapakoneta Summer Moon Festival (3 days)
- Neil Armstrong Museum Festival of Flights (3 days)
- St. Marys Summerfest (3 days)
- New Bremen Bremenfest (3 days)
- New Knoxville 4th of July Festival (2 days)
- St. Marys Rosary Canal Walk
- New Bremen Pumpkinfest
- Holy Rotary Church Festival
- The Auglaize County Relay for Life

Mainly beverage containers were collected from special events and some parks throughout the County, and corrugated cardboard was collected at some of the larger community events. Collection bins and material pick-ups are coordinated by the Auglaize County Recycling Center.

The following table summarizes the program details:

Special Event Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Aluminum cans, plastic and glass bottles, cardboard
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$ Included in ACRC
Program Operator/Contractor	District

Strengths of the program include:

- Recycling collection and awareness at major events throughout District.
- This program provides an excellent opportunity to promote the District and recycling to residents and businesses.
- Promotes the District services.

Challenges of the program include:

- None.

10. School Recycling Program

The District provided weekly recyclables collection for paper, cardboard, tin cans, and beverage containers from the following schools/schools districts:

- Wapakoneta City Schools
- St. Marys City Schools
- Cridersville Elementary
- Holy Rosary School
- New Bremen
- New Knoxville
- Minster
- Waynesfield Schools
- Coldwater and Parkway Schools (Mercer County)

Recycling containers for school sporting events are also provided.

Special paper collection programs were implemented in Minster Schools, Cridersville Elementary, Waynesfield, and St. Marys Schools to facilitate the extra recycling volume while students cleaned out their lockers at the end of the year.

Milk carton recycling was also initiated in 2017 in schools in City of St. Marys, Waynesfield, and also Parkway and Coldwater schools in Mercer County.

Assisting Schools with End of Year Recycling

The District assists schools with end-of-year recycling activities including locker and classroom clean-outs. The District assists schools by providing technical assistance, containers for reusable school supplies to be donated, and containers for recyclables to be collected.

In 2017, the District provided a special paper collection at the end of school year in Minster, Cridersville, Waynesfield, and St. Marys to facilitate recycling as students cleaned out lockers at the end of the year.

Targeted School Waste Diversion Plans

The District selects schools that present potential to improve recycling diversion based on current programs and school size. The District helps develop a targeted waste diversion plan for the school and assist the school with gaining administrative (School Board) support, developing implementation strategies, and identifying funding sources for plan implementation. The District targeted one school plan to be developed every 3 years if the school agreed to participate. For 2017, Waynesfield,

Holy Rosary and Coldwater received assistance and planning from the District.

In 2017, the District provided weekly collection of recyclables (paper, cardboard, tin cans, beverage containers) for Wapakoneta City Schools, St. Marys City Schools, Cridersville Elementary, New Bremen, New Knoxville, and Minster. The District provided recycling containers for school sports events and provided education programs for schools/school age youth regarding waste reduction and recycling.

The following table summarizes the program details:

School Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District, Schools, ACRC
Service Area for Program	District
Materials Reduced/Recycled	Tin/steel food containers, aluminum beverage containers, glass bottles and jugs, #1 and #2 plastic bottles and jugs, newspaper, and mixed paper
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$ Included in ACRC
Program Operator/Contractor	District, schools, ACRC

Strengths of the program include:

- Saves schools money on disposal costs and increases diversion.
- Raised awareness about recycling among students and staff.
- Staff that do not have access to curbside recycling can bring recyclables to work.
- Milk carton recycling was added to this initiative in 2017.
- Inquiries increase on what is recyclable which created awareness for the program.
- Some schools are diverting food waste.

Challenges of the program include:

- Not all schools collect the same materials.

11. Special Collection Routes

The District collected recyclables from the following:

- County government offices
- The State Highway Patrol
- Grand Lake St. Marys State Park office
- The Airport
- Schools
- Commercial and industrial businesses

The cities of St. Marys and Wapakoneta provide collection to all city offices and several other special locations; virtually all county and city government offices have access to recycling collection.

This is a small program which collects a limited amount of materials. No actual data is available to determine the tons recycled; the tonnage provided is a conservative estimate based upon the number of buildings serviced by this program, and knowledge within the District that a minimal amount of recyclables are recovered.

The following table summarizes the program details:

Special Collection Routes Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District, city collection crews
Service Area for Program	District
Materials Reduced/Recycled	Tin/steel food containers, aluminum beverage containers, glass bottles and jugs, #1 and #2 plastic bottles and jugs, newspaper, and mixed paper
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$ Included in ACRC
Program Operator/Contractor	District, city collection crews

Strengths of the program include:

- Saves local governments money on disposal costs.
- Raises awareness about recycling.
- Promotes recycling at work.
- Sets a positive example for the public and other organizations.
- Cardboard from the commercial and industrial routes was the leading cause for increasing the District's recycling totals.

Challenges of the program include:

- None.

MARKET DEVELOPMENT PROGRAMS

13. Buy Recycled

Buying products made with recycled materials closes the recycling loop. When consumers “buy recycled,” it promotes a stable market for secondary materials, causing the cost of products or packaging made with recycled materials to be competitive or lower than their counterparts made with virgin materials. The use of recycled materials also reduces the need to extract or harvest virgin raw materials and natural resources, thereby saving energy and reducing air and water pollution.

The District incorporates the “buy recycled” philosophy into residential, commercial, and industrial reduction and recycling programs as often as possible.

The “buy recycled” philosophy is included in the District’s fair display and discussed during student/adult/civic education presentations. The District maintains information on where to purchase items made with recycled materials for interested residents. The following table summarizes the program details:

Buy Recycled Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$1,443.50
Program Operator/Contractor	District

Strengths of the program include:

- Promotes stable market for recycled materials by supporting the market.

Challenges of the program include:

- None.

RESIDENTIAL/COMMERCIAL/INDUSTRIAL FINANCIAL INCENTIVE/ GRANT PROGRAMS

14. Recycling Opportunities Fund

When the District has sufficient funding, grants are made available to local communities. Grant funding may be used to promote recycling opportunities in a way that increases program participation.

In 2017, no communities requested grant funding. In addition, the District's funding priorities were focused on paying for an administrative assistant, setting aside funds to purchase a new baler for the ACRC for 2018, and holding a tire collection event for the community.

The following table summarizes the program details:

Recycling Opportunities Fund Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$0
Program Operator/Contractor	District

Strengths of the program include:

- Funding is used to implement recycling programs or increase effectiveness of current programs.

Challenges of the program include:

- Grants are not always available annually.
- There is no specific grant application process.

15. Volunteer Recycling Assistance Group Grants

The District coordinates volunteer groups to work at many of the special collections held at drop-off recycling sites. In exchange for volunteering, groups earn money for their club or non-profit organization. This program is very popular throughout the District. Annually, there have been up to 75 spots for groups to manage a special collection day, and each year there is a waiting list. This program is built into the District's budget and is not operated by grants. In 2017, the following groups assisted, or have in

previous years, the District with staffing special collection events at drop-off recycling centers and manually sorted mixed recyclables:

- All Around Livestock 4-H Club
- Auglaize Co Junior Fairboard
- Auglaize County Democrats
- Auglaize-Mercer Masons Lodge121
- Boots N Fur 4-H Club
- Boy Scout Troop 106
- Boy Scout Troop 138
- Boy Scout Troop 301
- Boy Scout Troop 360
- Boy Scout Troop 4
- Buckland United Church of Christ
- Conquest, National Club
- Cridersville Cub Scouts
- Cridersville Lions Club
- Cridersville Methodist Church- Adults
- Cridersville Methodist Church-Youth
- Cridersville Police Auxiliary
- Cridersville Rams Midget Football
- Cub Scout Pack 98
- Family Life Center of Auglaize Co
- Fellowship of Christian Athletes
- First Nazarene Church-Youth Group
- Freyburg Happy Farmers 4-H Club
- Girl Scout Troop 20062
- Girl Scout Troop 20616
- Habitat For Humanity
- Hawthorne-Eastern Star
- Horse & Pony 4-H Club
- Indian Lake Nazarene Church Youth Group
- Knights of Columbus Squires
- Liberty Christian School
- Masonic Temple Board-Waynesfield
- Mavericks 4-H Club
- Minster Boy Scouts
- Minster Girl Scouts
- Moulton Lucky Livestock Raisers 4-H Club
- New Bremen Boy Scouts
- New Bremen Girl Scouts
- New Knoxville Garden Club
- Noble Harvesters 4-H Club
- Ohio Furry Girls Softball
- Ohio Western Horse Assoc-Parents
- Relay for Life-“Cancer Isn’t Classy”
- Revolution Cycling Team
- Roots & Shoots Garden Club
- Salem Methodist Church-Adults
- Salem Methodist Church-Youth
- Sister Cities of Wapakoneta-Adults
- Sister Cities of Wapakoneta-Youth Group
- Spencerville Church of Nazarene
- Spencerville High School Football Team
- St Marks Lutheran Church-St Johns
- St Marks Lutheran Church-Youth
- St Marys Christian School
- St Mathews Lutheran Church
- Star Spangled Clovers 4-H Club
- Teen’s for Christ
- Tri-Moraine Audubon Society
- Trinity Lutheran Church-Adults
- Trinity Lutheran Church-Youth-Moulton
- Unleashed Youth Ministry
- Wapak High & Middle School Cross Country
- Wapak High School Girls Soccer
- Wapak High School-French Club
- Wapak High School-Singsation
- Wapakoneta Cheerleaders
- Wapakoneta Church of Nazarene-Youth
- Wapakoneta High School Band Boosters
- Wapakoneta High School Impulse Drum Line
- Wapakoneta High School Yearbook
- Wapakoneta Lions Club
- Wayne Lodge # 596
- Waynesfield American Legion
- Waynesfield Lions Club
- Western Ohio Horse Assoc-Youth

The following table summarizes the program details:

Volunteer Recycling Assistance Group Grants Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	1,046 (included in ACRC)
2017 Annual Program Costs	\$ Included in ACRC
Program Operator/Contractor	District, volunteer groups

Strengths of the program include:

- Funding is based on the amount of material collected which provides an incentive to collect more material.
- The volunteer groups helped educate users of the program on recycling.
- The program creates funding for local charity groups.
- Volunteer program has provided in the past a financial incentive for up to 75 groups each year which promoted recycling to friends and family, as well as educated others about proper recycling.

Challenges of the program include:

- The recycling markets directly relate to the financial assistance the District can offer. The groups received a percentage of the commodity revenue the ACRC receives for the materials sorted. This has decreased funds over the years resulting in reduced participation from the groups.

RESIDENTIAL/COMMERCIAL/INDUSTRIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

The District provides a variety of activities and materials to raise awareness and promote recycling and waste reduction. The education and awareness program was developed to reach all sectors and appeal to a wide audience. The following section summarizes the District's education and awareness programs.

16. Education and Awareness Program

School Presentations

The Auglaize County Solid Waste Management District and an adjacent solid waste management district (Mercer County) participated in a regional planning effort to improve environmental education in each county. The District and Mercer County SWMD continued to employ an education specialist who splits the time between the two Districts. Each District has its own contact with the education specialist for part-time services. In 2017, the education specialist conducted 61 school presentations in Auglaize County, reaching 1,846 students. Topics included composting, litter prevention, and recycling.

Civic Presentations

The education specialist gives presentations to adult groups upon request. During 2017, no presentations were conducted by the Education Specialist.

District Displays

The District routinely attends the Auglaize County Fair where a display is set up containing information for residents.

Publicity and Advertising

The District runs weekly ads in three local newspapers providing information on the drop-off recycling opportunities each week. Some weekly ads also include recycling or waste management tips.

The District created and provided education brochures on recycling materials accepted to residents. There were distributed in local offices, on Facebook, the District website, and at the Auglaize County Fair.

Contests

The District hosts a contest on an as needed basis. In 2017, the District held a contest at its booth at the Fair which challenged residents to guess the weight of Tred, a scrap tire mascot.

District Website and Facebook

The website includes the drop-off location schedule, a listing of all drop-offs and curbside recycling programs, materials accepted by residential

recycling programs, information about HHW, paint, and appliance recycling programs, and other information about upcoming events.

Drop-Off Recycling Education

The Education Specialist provides residents with information on how to properly utilize the drop-off recycling program. The District created and provided education brochures on the materials accepted for their residents. These were distributed in the local offices, on Facebook, website, and at the Auglaize County Fair.

Commercial/Industrial Technical Assistance

The District offered technical assistance to businesses and answered questions regarding how and where to recycle. The District also assisted industries in locating a private hauler to manage the materials generated.

The following table summarizes the program details.

Education and Awareness Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$3,123.22
Program Operator/Contractor	District

Strengths of the program include:

- Creates the opportunity for the District to work with industry on waste reduction and solid waste issues.
- Allows the District to promoting recycling and waste reduction techniques to a broad audience.
- Overall recycling is increasing in the District, partially creditable to the education program.

Challenges of the program include:

- Presentations are not increasing.
- The District Coordinator's time is limited to assisting in presentations for commercial businesses and organizations.

- Presentations are not increasing because the Education Specialist is retiring at the end of 2019 and school curriculum requirements.
- Keeping the program fresh and new.
- No mobile education display unit available.

OTHER PROGRAMS

17. Curbside and Pay-As-You-Throw Technical Assistance

The District promoted curbside recycling and PAYT to communities and offered technical assistance to any political subdivision interested in implementing curbside and/or a PAYT collection system. Three communities that previously implemented PAYT and subscription curbside recycling maintained their programs. No additional communities expressed interest in improving their recycling programs in 2017. The following table summarizes the program details.

Curbside and Pay-As-You-Throw Technical Assistance Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$ Included in Curbside Recycling
Program Operator/Contractor	District

Strengths of the program include:

- Creates financial incentives for residents to recycle more and produce less garbage.
- Provides assistance to political subdivisions to upgrade recycling programs.

Challenges of the program include:

- No activity in 2017.

18. Annual Surveying

Annually, the District surveys commercial and industrial businesses and other institutions located in Auglaize County to obtain information on solid waste disposal and recycling quantities, as well as other information to assist the District in its future planning efforts.

Information provided in Table III-5 includes recycling data from drop-off facilities, brokers, processors, haulers and special collection events. Table III-5 does not include commercial or industrial generator recycling data but does include the facilities, haulers, and scrap yards reported by the commercial and industrial generators.

Data Collection Improvement

The District works with the Chamber of Commerce to assist with increasing survey response rates. Additionally, follow up phone calls are made to non-respondents to attempt to obtain survey data over the phone. The District identifies the largest generators in the District (based on either the number of employees or actual waste reported). On an annual basis, the District will visit key generators in the District to establish a repertoire with each establishment, inform them about District services, and identify the appropriate contact person who should directly receive the District's survey. The District has established a goal of visiting five companies each year.

In 2017, Certificates were sent out with recycling totals to the businesses who responded to their survey. The District saw a positive response has brought impact awareness to the businesses. Assistance in calculating recycling totals was provided to call ins.

The following table summarizes the program details.

Annual Surveying Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	0
2017 Annual Program Costs	\$ Included in Supplies and Office Overhead
Program Operator/Contractor	District

Strengths of the program include:

- Responses provide specific information that is useful to the District and its planning activities.

Challenges of the program include:

- None.

OTHER FACILITIES

19. Auglaize County Material Recovery Facility

The District operates the Auglaize County Material Recovery Facility. The District leases the building and property from the City of St. Marys. The lease is scheduled to terminate by 2032. The District is committed to staying at the current location.

The facility processes materials from the District drop-offs, collection routes, and the St. Marys and Wapakoneta municipal curbside recycling programs. Generally, five District employees that sort, process recyclables and provide transportation services.

The Auglaize County MRF was in the process of purchasing the land where the facility is located in 2017. Based on the lease term, the District is no longer interested in buying the property. The District also considered working with Pratt Industries on co-locating a facility together but that also was tabled after further discussions. The District does need to expand the capacity and footprint of the facility. Finally, the District began discussions of increasing the leased footprint with the City in 2018. Depending on the results of the discussions, the increase in leased property could be doubled. Because of the lease cost of \$10.00 per year, the District does not see a doubling of the leased space as a significant cost. Cost for building expansion and equipment will be accounted for in Section V and VIII.

2013-2017 Auglaize County MRF Recycling Trends

Year	Population	ACRC Tons	Per Capita Gen Rate (lbs/person/day)	Average Rate of Change for Per Capita Gen Rate
2013	45,920	2,298	0.274	
2014	45,905	2,459	0.294	6.58%
2015	45,891	2,593	0.310	5.20%
2016	45,876	3,624	0.433	28.47%
2017	45,778	4,160	0.498	13.07%
2018	45,715	4,800	0.575	13.45%
Average				13.35%

The following table summarizes the program details.

Auglaize County Material Recovery Facility Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	4.160
2017 Annual Program Costs	\$251,783.88
Program Operator/Contractor	District

Strengths of the program include:

- This facility provides a majority of the recycling that occurs in the District.
- The facility is the cornerstone of the District's operations and value to the community.
- A new two ram baler is being purchased in 2018 to assist in processing capacity.

Challenges of the program include:

- Recycling tonnage has increased annually from 2,459 tons in 2014 to over 4,100 tons in 2017. These increases have created a significant capacity issue at the site.
- The existing equipment, outside of the new baler, is extremely old, unreliable and in constant repair.
- Non-safe conditions for resident drop-offs exists.
- The existing drive into the facility interferes with the City of St. Marys operations.
- No dedicated area for HHW drop-off and storage.
- Limited storage areas for commodities.

20. General Plan Implementation

This is a new program from the current plan update. The District will allot between \$10,000 and \$50,000 annually into a budget line item titled “General Plan Implementation.” Funding may be used to:

1. Enhance any existing programs in Table VIII-5; or
2. Implement new initiatives which will supplement the objectives of existing programs, consistent with the goals and objectives of this Plan Update to achieve the State Plan goals.

This includes waste reduction and recycling programs, special collection programs, organics management and collection programs, disaster management programs, grants, revolving loans, litter and open dump cleanups needing additional funding, District staffing, administrative costs and enforcement programming. Eligible initiatives for funding under this program may also include implementation of recommendations resulting from the MRF evaluation if not funded under Program AC-21. Plans to use funding from this budget must be approved by the Policy Committee.

During 2017, the District focused on improving the drop-off program. Also, in 2017, the District obtained a tire grant and was completed at the end of 2017 which helped with Plan implementation.

The following table summarizes the program details.

General Plan Implementation Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	4,160
2017 Annual Program Costs	\$0
Program Operator/Contractor	District

Strengths of the program include:

- This program allows the District to plan and budget the implementation of the Plan.

Challenges of the program include:

- None.

21. Solid Waste Management Infrastructure Improvements

This is a new program from the current plan update. This is program is designed to allow the District to make specific improvements to its solid waste infrastructure. This could include the District's material recovery facility (MRF) and its processing equipment, District collection equipment and any other related equipment and or facilities.

For this Plan Update, this program will be used initially to make improvements to the District's material recovery facility (MRF). The District will focus on the expansion or alteration of the enclosed space at the Auglaize County MRF to improve operations and efficiencies.

The District has contracted for a facility expansion to start in 2019 and finish during 2020. A dry commodity storage building attached to the existing facility will be 65' by 125' in dimension. The foundation slab will be made in 2019 with the structure constructed in 2020. Projected cost includes: \$173,057 in 2019 and \$350,000 in 2020. This expansion will allow the Auglaize County MRF to expand services for more materials.

The following table summarizes the program details.

Solid Waste Management Infrastructure Improvements Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$200,000
Program Operator/Contractor	District

Strengths of the program include:

- This program allows the District to make specific improvements to its solid waste infrastructure.

Challenges of the program include:

- With the increased volume capacity for recyclables collection, the District may need to invest in trucks to collect the additional materials.
- Processing materials in a single stream system is less efficient than a dual stream system.

22. DIY Waste Audits and Waste Reduction Resources

This is a new program from the current plan update. The District will develop and maintain a do-it-yourself (DIY) waste audit kit for industrial and commercial businesses. The DIY kit will be available on the District's website. Additional resources pertinent to industrial and commercial waste reduction will also be added to the District's website.

The following table summarizes the program details.

DIY Waste Audits and Waste Reduction Resources Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	N/A
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$0
Program Operator/Contractor	District

Strengths of the program include:

- This DIY audit will allow the District to assist commercial and industrial businesses with little cost.

Challenges of the program include:

- No activity in 2017.

Past Program Acknowledgements

The following program was in the last plan update but will not be carried forward into this planning period. The District will prioritize and focus attention on the programs in Section V to best benefit the District overall.

Multi-Family Housing Unit Recycling

The District recognizes that recycling for residents residing in multi-family housing is important to reaching and exceeding the State's waste diversion goals. Recycling at multi-family housing (MFH) locations can be challenging for the recycling hauler and apartment managers due to the following:

- Limited space to store recycling containers inside apartments or MFH units.

- Lack of space to locate recycling dumpsters in areas traditionally reserved for parking spaces.
- Transient population.
- Tight turning and overhead restrictions for collection vehicles.
- Education requirements to ensure residents are using the recycling program properly.

The District has traditionally operated drop-off locations as an outlet for recycling for residents living in multi-family housing units. In addition to the drop-off locations in the District, additional infrastructure is needed to support recycling at multi-family residences.

The District will provide technical support and some financial support for this program as follows:

MFH Recycling Grant

The District provides grant funding to interested political subdivisions to implement a drop-off or recycling program targeted at MFH units. The MFH recycling program would be required to manage at a minimum at least four materials identified in this Plan as highly amenable for recycling for the residential and commercial sector.

The multi-family recycling program could be as simple as providing specially colored or marked bags for recycling and having a location where recycling bags can be placed curbside for the political subdivision's hauler to collect. The program could include a recycling drop-off dumpster strategically located in the community. Funding for this initiative will be available for the first five years of the planning period. Grant funding will be limited to \$15,000 per year. The grants would be competitive and there would be no guarantee of funding each year. Grant applications that will receive priority are as follows:

- The best programs providing the greatest opportunity for MFH unit recycling, as determined by the District.
- Political subdivisions that agree to provide recycling data from the MFH unit recycling program to the District. In the first-year estimates on recycling totals will be accepted.
- Programs with an education component would receive high priority.
- Programs that identify a method to continue the program on a self-sustaining basis.
- Political subdivisions that establish programs in line with the requirements in AC-19.2 will also be eligible for the funding to create self-sustaining contracting for the collection of recyclables.

Funding MFH Recycling Containers and Collection

The District works with apartment property managers to implement a recycling program in an apartment complex or multi-family complexes. The recycling program could include the following:

- Containers for residents to collect recyclables in their household.
- A contract with a hauler to place a recycling dumpster at the multi-family complex.
- An education program to prepare residents for the recycling opportunity.

The District makes contact with apartment complex managers through either a survey or advertising program as needed. The apartment complex would be eligible for one year's recycling support including the cost for residential recycling collection containers and the collection costs of recyclables. The requirement would be that the apartment complex would sign a three-year agreement with the hauler for the service. Year one would be covered by the District; years two and three would be covered by the apartment complex. The District targets two to three apartment complexes annually. Funding will be allocated at \$20,000 per year.

There was no activity for this program during 2017 due to time restraints, funding, and no assistance was requested.

Multi-Family Housing Unit Recycling Program Summary	
Description	Details
Entity Responsible for Maintaining Program	District
Service Area for Program	District
Materials Reduced/Recycled	Tin/steel food containers, aluminum beverage containers, glass bottles and jugs, #1 and #2 plastic bottles and jugs, newspaper, and mixed paper
2017 Recycled Tonnage	N/A
2017 Annual Program Costs	\$0
Program Operator/Contractor	District, city collection crews

Strengths of the program include:

- None as program was not implemented.
- The Cities control the larger MFH locations and it seems to be under control from the District perspective.

- A majority of the duplex MFH areas are serviced by the local curbside program.
- Drop-off program offers a good outlet for MFH residents.

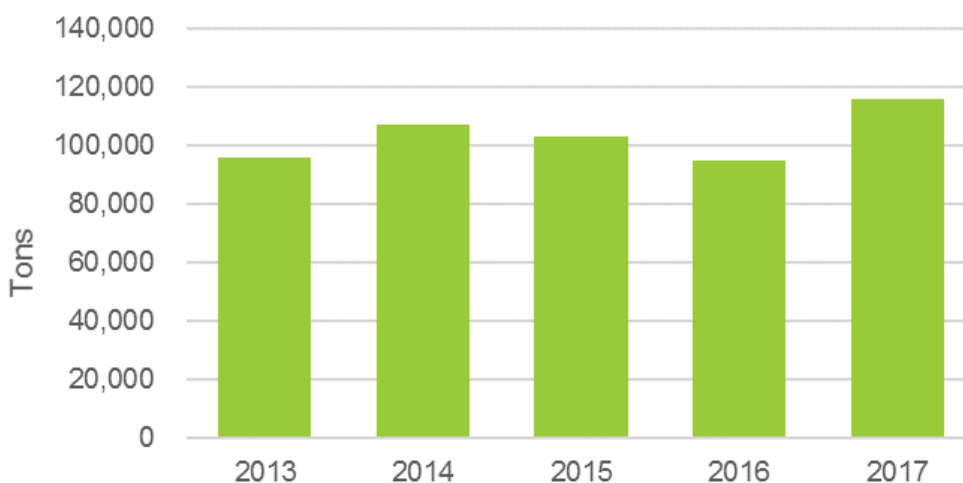
Challenges of the program include:

- No activity in 2017.

H. Total Waste Generation: Historical Trends Plus Waste Reduction

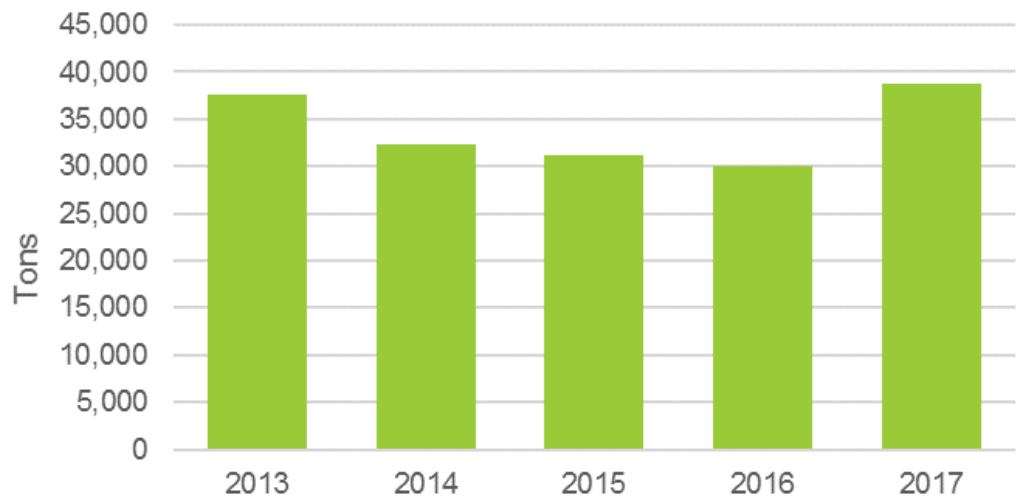
Table IV-7 presents the District's total waste generation patterns over a five-year period spanning from 2013 to 2017. Total waste generation is calculated by summing the total waste landfilled (either by direct disposal or transfer), total tons recycled, and total tons composted. An examination of the District's total waste generation patterns over the five-year period reveals that in 2017, a high of 115,918 tons was generated and in 2016, a low of 95,072 tons was generated. Waste generation has overall risen since 2010. The following figure presents the District's historical total waste generation.

District Historical Waste Generation (2013 – 2017)



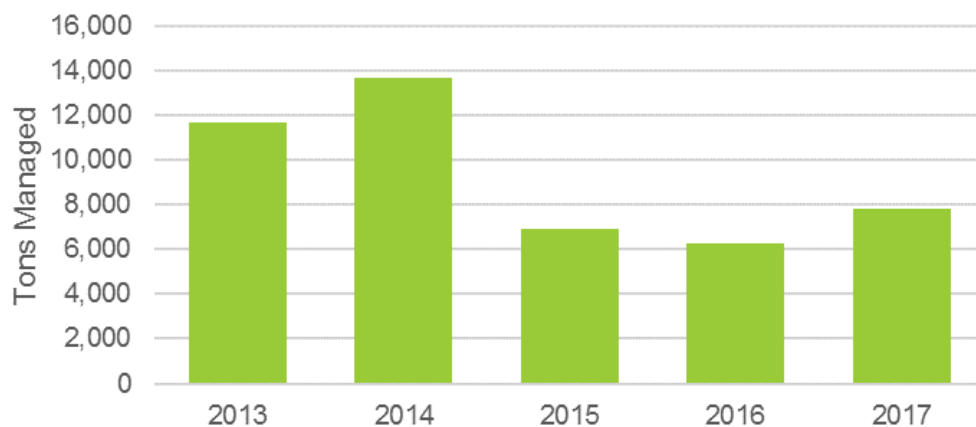
Landfilled waste tonnage reached its highest point in 2017 and lowest point in 2016. Tonnage increased from 30,109 tons in 2016 to 38,747 tons in 2017. The following figure presents the historic landfilling totals:

District Historical Landfilling (2013 – 2017)



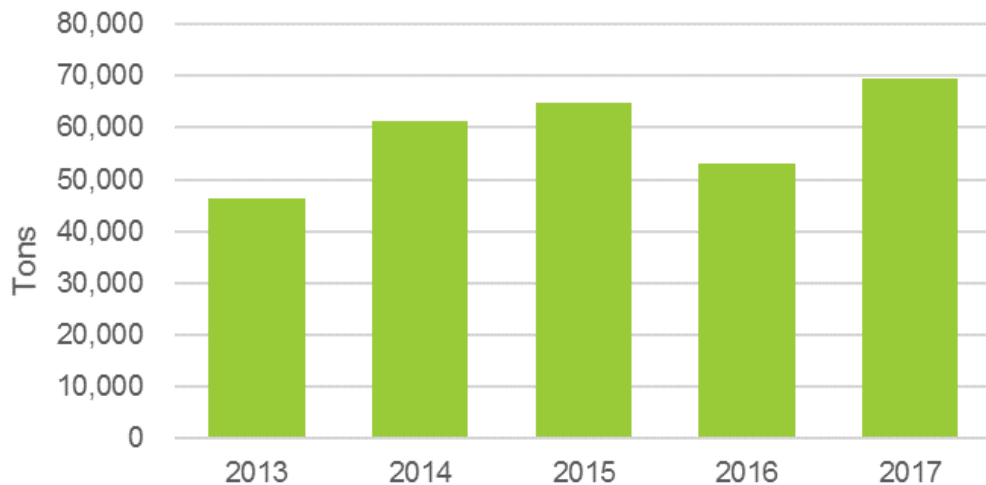
Yard waste tonnage reached its highest point in 2014 and lowest point in 2016. Tonnage decreased from 13,679 tons in 2014 to 6,250 tons in 2016. The following figure presents the historic yard waste composting totals:

District Historical Yard Waste Composting (2013 – 2017)



Recycling totals over the five-year period peaked in 2017 at 69,331 tons. The next year in 2013, the District had a five-year low of 46,485 tons. Recycling decreased approximately 28% between 2015 and 2016. Recycling has increased the next year in 2017. The following figure presents the historical recycling totals:

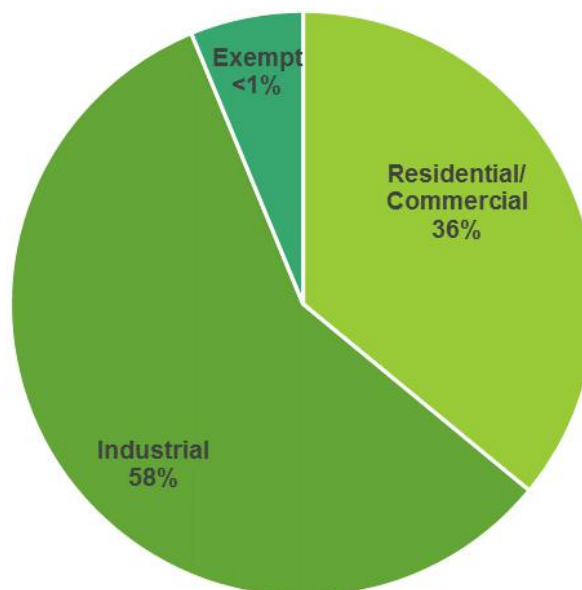
District Historical Recycling (2013 – 2017)



I. Reconciliation of Waste Generation

Table IV-8 presents adjusted reference year total waste generation for the District, which is based on actual reported disposal and recycling tonnage. Total District generation was 115,918 tons. This includes recycling, composting, and waste disposal from all sectors. The residential and commercial sector generated 41,695 tons or 4.99 pounds per person per day (PPD). The industrial sector generated 66,991 tons or 8.02 PPD. Exempt waste totaled 7,231 tons or 0.87 PPD. The following figure presents the percentage of total tons generated by sector.

2017 Reference Year Waste Generation by Sector



The District considers using the actual reported disposal, composting, and recycling tonnage (Table IV-8) as a more accurate method of projecting waste generation throughout the planning period rather than using generation projections based on historical and national averages (Table IV-4).

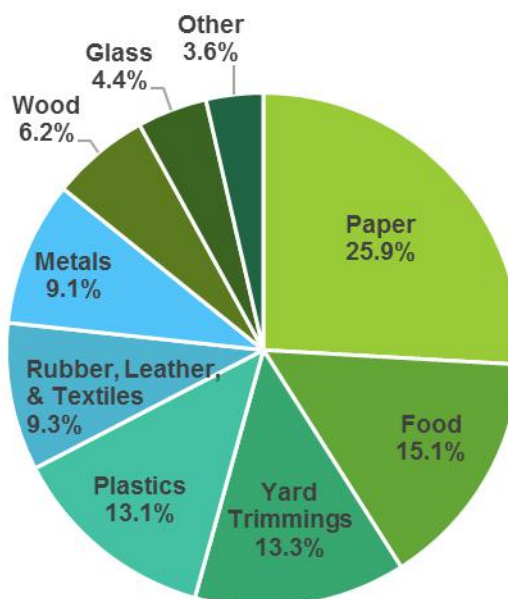
The per capita generation rate for the residential/commercial sector (4.99 PPD) is approximately 0.97 pounds higher than the projected per capita generation rate based on the District's historical average of 4.23 PPD. The per capita generation rate for the industrial sector (8.02 PPD) is about 78% of the projected per capita generation rate based on survey responses and average generation rates based on SIC codes (12.90 PPD). Actual tonnage recorded at transfer stations, landfills, material recovery facilities, and compost facilities supports using generation rates in Table IV-8 versus Table IV-4. Table IV-8 more accurately reflects the current generation trends in Auglaize County.

The District recognizes the potential for mislabeling waste that is recorded at material management facilities after it is weighed. However, the total results are likely to be more accurate using the reported disposal and diversion data than averages. Therefore, the District will not use the totals calculated in Table IV-4 for future projections in this *Plan Update*.

J. Waste Composition

The District estimated the residential/commercial waste stream composition in Table IV-9, "Estimated Residential/Commercial Waste Stream Composition for the District for the Reference Year", using the national averages published by the U.S. EPA in *Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2015*. The largest component of the residential/commercial waste stream is projected to be paper and paperboard at 25.9% (10,799 tons), followed by food waste at 15.1% (6,296 tons), and yard trimmings at 13.3% (5,546 tons). The following figure presents the residential/commercial waste composition for the reference year.

2017 Estimated Residential/Commercial Waste Stream Composition



Similar to the residential/commercial waste stream, the purpose for reviewing the industrial waste stream is to determine what types of materials comprise the largest volumes and the programs that are in-place to manage these materials.

Industrial waste composition was estimated based on the amount of industrial waste that was landfilled and recycled (Table IV-10). Information for recycling was obtained from industrial facilities responding to the survey. Non-hazardous waste, concrete, ash and sludge were eliminated from the acceptable waste materials for recycling calculations only. All recycled materials are provided as actual totals. The remainder of material disposed in the landfill is categorized as general solid waste.

The largest component of the District's industrial solid waste stream was ferrous metals (19,965 tons). Miscellaneous was the second largest component of the industrial waste stream at 15,699 tons. Other significant contributors to the industrial waste stream were food (13,709 tons), plastic (6,381 tons), and wood (3,269 tons). The following figure presents the industrial waste composition for the reference year.

2017 Industrial Waste Composition by Percent and Tonnage

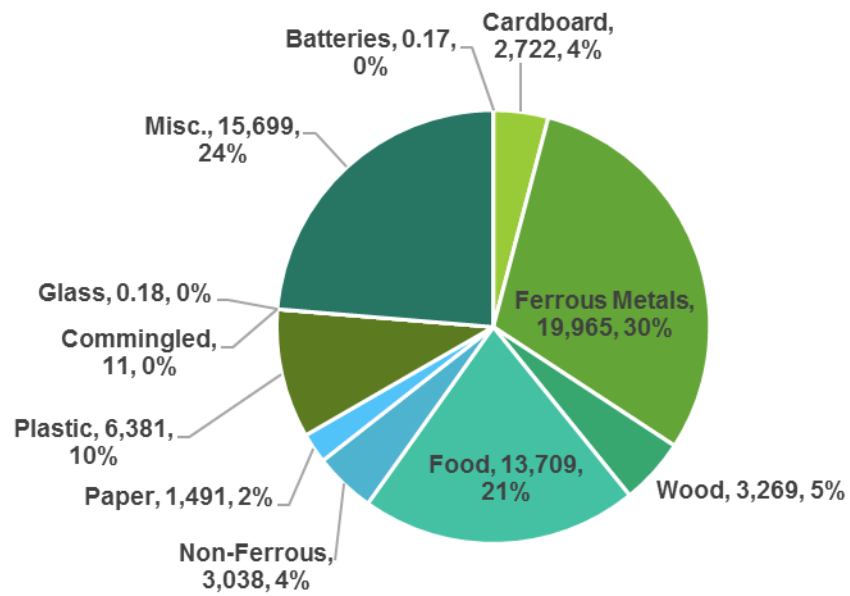


Table IV-1
Reference Year Population and Residential/Commercial Generation

County/Community Name	2017 Population		2017 Generation Rate (lbs/person/day)	2017 District Residential/Commercial Generation (Tons)
	Before Adjustment	After Adjustment		
Auglaize County	45,778	45,778	3.79	31,698
Total		45,778		

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2017 Population Estimates by County, City, Village, and Township", May 2018;

Adjustments:**Example calculations:**

$$\text{Total Res/Com Generation} = \frac{\text{Population} \times \text{Generation Rate (lbs/person/day)} \times 365 \text{ (days/year)}}{2,000 \text{ (lb/ton)}}$$

Table IV-2
Industrial Waste Generation Survey Respondents vs. Unreported

Standard Industrial Classification (SIC) Code	Survey Respondents			Amounts Based Upon Secondary Data (Unreported)				Total Industrial Waste Generated
	# of Industries	# of Employees	Tons of Waste Generated	Generation Rate (T/employee)	# of Industries	# of Employees	Generation Rate (T/employee)	
20	4	485	14,293	29.47	10	252	13.92	17,801
22	0	0	0	0.00	0	0	9.99	0
23	1	3	89	29.75	1	0	2.80	89
24	1	4	8	1.93	8	61	51.62	3,157
25	0	0	0	0.00	1	9	1.79	16
26	1	25	30	1.22	1	0	17.50	30
27	2	192	875	4.56	15	140	6.70	1,813
28	2	76	18,503	243.46	6	75	12.43	19,436
29	0	0	0	0.00	2	7	7.33	51
30	2	96	1,807	18.82	4	160	7.29	2,973
31	0	0	0	0.00	1	3	3.41	10
32	1	4	3	0.74	6	34	10.55	362
33	4	358	685	1.91	7	180	36.93	7,333
34	7	124	1,111	8.96	20	320	11.16	4,682
35	14	2,500	9,138	3.66	30	721	5.72	13,262
36	0	0	0	0.00	2	4	2.98	12
37	5	631	8,060	12.77	10	117	3.21	8,435
38	0	0	0	0.00	0	0	1.74	0
39	4	126	5,033	39.94	13	156	4.62	5,754
Total	48	4,624	59,636	12.90	137	2,239	N/A	85,216

Source(s) of information:

2017 District Industrial survey responses
Total number of industries and employees as obtained from the Reference USA online database.
Appendix JJ-2 from the Ohio EPA Plan Format 3.0 was used to calculate the unreported data for the Generation Rate (T/employee).

Example calculations (SIC 20):

Survey Respondents:

$$\text{Generation Rate} = \frac{\text{Waste Generated}}{\text{\# of Employees}}$$

$$\frac{29.47 \text{ lbs/person/day}}{485 \text{ employees}} = \frac{14,293 \text{ tons}}{485 \text{ employees}}$$

Non-Respondents:

$$\text{Generation Rate} \times \text{Number of Employees (Unreported)} = \text{Tons of Waste Generation}$$

$$13.92 \times 252 = 3507.84 \text{ tons}$$

Table IV-3
Exempt Waste Generated in the District
and Disposed in Publicly Available Landfills

Type of Waste Stream	Generation Rate	Total Exempt Waste
	(lb/person/day)	Generation (TPY)
Construction/Demolition	0.87	7,231
Total	0.87	7,231

Source(s) of information: Table III-1

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Exempt Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

Example calculation:

$$0.87 = \frac{7231 \times 2,000}{45,778 \times 365}$$

Table IV-4
Reference Year Total Waste Generation for the District

Type of Waste	Generation Rate	Tons/Year
	(lbs/person/day)	
Residential/Commercial	3.79	31,698
Industrial	10.20	85,216
Exempt	0.87	7,231
Total Waste Generation	14.86	124,146

Source(s) of information:

Residential/Commercial - Table IV-1

Exempt - Table IV-3

Industrial - Table IV-2

Example calculation (Industrial):

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Industrial Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

$$10.2 = \frac{85,216 \times 2,000}{45,778 \times 365}$$

Table IV-5
Reference Year Residential/Commercial Waste Reduction in the District

Type of Waste Source Reduced	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Resource Recovery		
				Total Waste Received	Residual Landfilled	Net Waste Reduced
None	0	Cardboard	2,358.88	Incineration	Ash	Net Incineration*
		Paper	1,523.11			0
		Scrap tires	580.17	Composting	Residuals	Net Compost
		Glass	390.12	7,840		7,840
		Wood	3,731.56	Resource Recovery	Ash	Net Resource
		Plastic	450.06			0
		Food	158.92			
		Other	0.00			
		Ferrous	442.36			
		Appliances	0.00			
		Non-Ferrous	91.52			
		Commingled	44.70			
		HHW	5.40			
		Used Oil	35.74			
		Electronics	3.50			
		Textiles	0.03			
		Batteries	0.51			
Subtotal	0		9,817	7,840	0	7,840
Grand Total						17,657

Source(s) of information:

2017 District Annual Report and Residential/Commercial Surveys

Table IV-6
Reference Year Industrial Waste Reduction in the District

Source Reduction	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Resource Recovery		
				Total Waste Received	Residual Landfilled	Net Waste Processed
None	0	Ferrous	17,908	Incineration*	Ash	Net Incineration
		Food	12,296			0
		Non-Ferrous	2,725	Resource	Ash	Net Resource
		Cardboard	2,441			0
		Plastic	5,724	Composting	Residuals	Net Composted
		Wood	2,932			0
		Other	14,141			
		Paper	1,337			
		Commingled	10			
		Glass	0.16			
Subtotal	0		59,514	0	0	0
Grand Total						59,514

Source(s) of information:

2017 District Annual Report and Industrial Surveys

Table IV-7
Total Waste Generation Based Upon Disposal Plus Waste Reduction

Year	Management Method Used (TPY)								Total Waste Generation
	Source Reduction & Recycling			Yard Waste Composting	Landfill Disposal				
	Res/Com	Industrial	Total		Res/Com	Industrial	Exempt	Total	
2013	4,518	41,968	46,485	11,674	23,876	10,956	2,802	37,634	95,793
2014	5,603	55,647	61,251	13,679	19,652	10,330	2,429	32,411	107,341
2015	5,654	59,198	64,852	6,947	20,931	7,556	2,644	31,131	102,929
2016	6,047	52,665	58,712	6,250	21,306	5,728	3,075	30,109	95,072
2017	9,817	59,514	69,331	7,840	24,039	7,477	7,231	38,747	115,918

Source(s) of information:

District Annual Reports and Ohio EPA Facility Data Reports.

Sample calculation (2017):

Total waste generation = Total source reduction & recycling + yard waste composting + total landfill disposal

115,918 tons = 69,331 tons + 7,840 tons + 38,747 tons

Table IV-8
Adjusted Reference Year Total Waste Generation for the District

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/ Commercial	4.99	41,695
Industrial	7.96	66,486
Exempt	0.93	7,736
Total Waste Generation	13.87	115,918

Source(s) of information:

Exempt -Table IV-3

Residential/Commercial and Industrial - Tables III-1, IV-5 and Table IV-6

Example Calculation:

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

$$13.87 = \frac{115,918 \times 2,000}{45,778 \times 365}$$

Table IV-9
Estimated Residential/Commercial Waste Stream
Composition for the District for the Reference Year

Waste Stream Type	Percentage of the Waste Stream	Tons
Paper	25.9%	10,799
Food	15.1%	6,296
Yard Trimmings	13.3%	5,546
Plastics	13.1%	5,462
Rubber, Leather, & Textiles	9.3%	3,878
Metals	9.1%	3,794
Wood	6.2%	2,585
Glass	4.4%	1,835
Other	3.6%	1,501
Totals	100.0%	41,695

Source(s) of information:

Total tons - Table IV-8

US EPA Advancing Sustainable Materials Management: 2015 Fact Sheet, July 2018.

Table IV-10
Estimated Industrial Waste Composition for the Reference Year in the District

Waste Stream Type	TPY	Waste Stream Type	TPY	Waste Stream Type	TPY
Cardboard	2,742	Paper	1,502	Misc.	15,818
Ferrous Metals	20,116	Plastic	6,429	Batteries	203.75
Wood	3,294	Commingled	11	Non-Ferrous Metals	3,061
Food	13,813	Glass	0.18		
Subtotal	39,965	Subtotal	7,943	Subtotal	19,082.62
Grand Total					66,991

Source(s) of information:

Tons generated - Appendix F

Each industrial waste component was projected using the adjustment factor to account for non-respondent industries.

Example Calculation:

$$\text{Adjustment Factor} = \frac{\text{Total Industrial Waste Generated (Table IV-8)}}{\text{Total Industrial Waste Generated (Table IV-2 - Survey)}}$$

$$\text{Adjustment Factor} = 1.1233 = 66,991 \text{ tons} \div 59,636 \text{ tons}$$

$$\begin{array}{l} \text{Type of Industrial} \\ \text{Waste Generated} \\ \text{(tons)} = \end{array} \quad \text{Type of Industrial Waste Generated (Appendix F) x Adjustment Factor}$$

$$2,742 \text{ (tons of cardboard)} = 2,441.1 \text{ (tons of cardboard from Appendix F) x } 1.1233$$

V. Planning Period Projections and Strategies [ORC Section 3734.53(A)(5)-(6)]

This section of the *Plan Update* details (1) population projections for the District during the planning period; (2) projections and estimates for solid waste generation; (3) projected recycling rates for the planning period; and (4) existing District programs and activities that are assumed to be continuing and newly implemented District programs will be presented and analyzed. Detailed descriptions of existing programs can be found in Section IV. Details for planned new programs and activities are described in this section of the *Plan Update*.

A. Planning Period – January 1, 2020 through December 31, 2034

Solid waste management plans must provide projections for population, waste generation, waste reduction, and current and anticipated waste management programs for a planning period of at least ten years. Due to the nature of the District, it was determined that the *Plan Update* should be based on a fifteen-year planning period to better reflect the planning needs of the District. Therefore, the planning period for this *Plan Update* is January 1, 2020 to December 31, 2034. To provide additional context, projections and tables in this *Plan Update* also include the years 2017 through 2019.

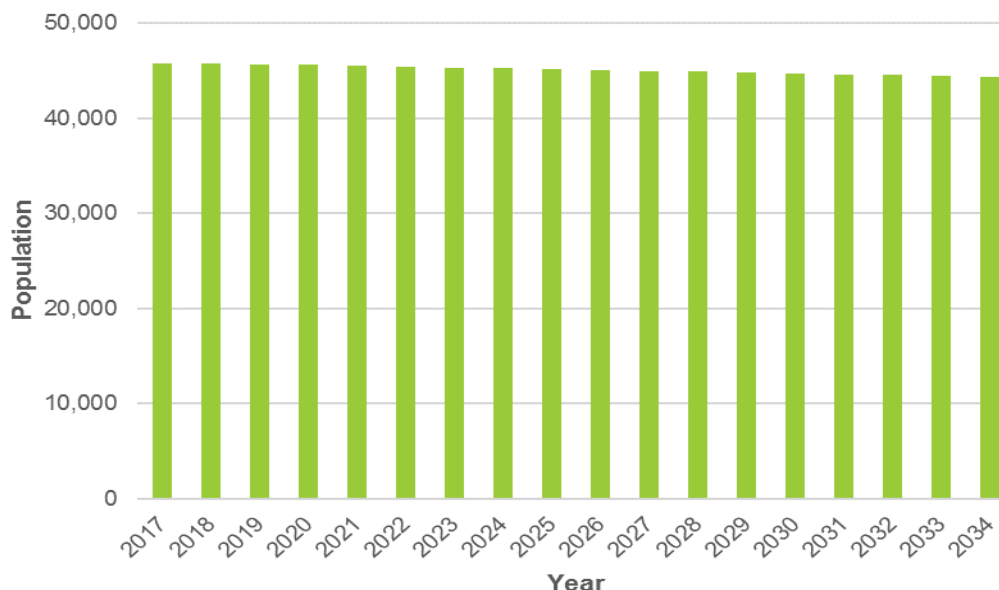
B. Population Projections

The District's population projections from the reference year (2017) through the end of the planning period are presented in Table V-1. The Ohio Development Services Agency's (ODSA) 2017 population estimates by county, city, village, and township were used to calculate a base population for the District. Using a second ODSA publication (Ohio County Profiles), which presents population projections by county in ten-year intervals from 2020 to 2040, the District population was projected across intermediate years using a straight-line average.

Ohio Law requires that the population of a political subdivision that lies within two or more solid waste management districts shall be credited to the district within which the majority of the population resides. There were no required adjustments to the District's population for 2017. The District's total reference year population was 45,778.

Population is anticipated to decrease annually throughout the planning period. Population is expected to decrease by 1,424 residents or 3.1% from 2017 to 2034. The District is projected to begin the planning period in 2020 with a population of 45,590 and end in 2034 with a total population of 44,354. The following figure presents the estimated District population from the reference year to the end of the planning period.

District Population Projections: 2017 – 2034



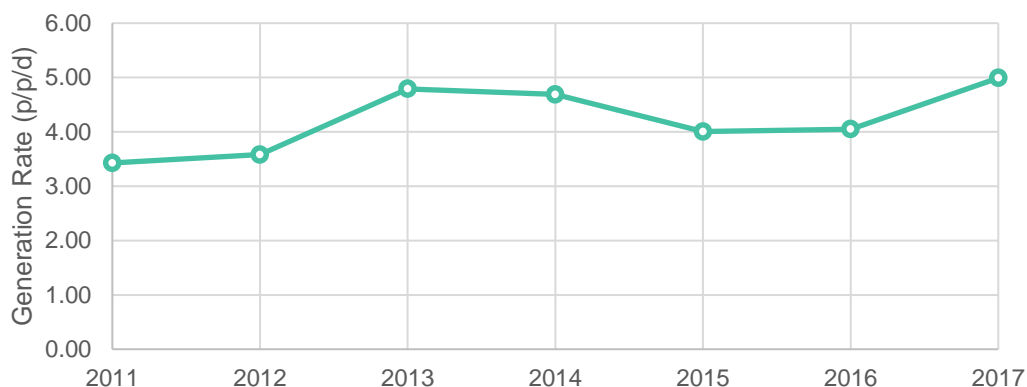
C. Waste Generation Projections

1. Residential/Commercial Sector

The District's residential/commercial waste generation projections are presented in Table V-2, "District Residential/Commercial Waste Generation (TPY)." Waste generation is presented for the 2017 reference year and each subsequent year through 2034. In 2017, the District calculated the per capita generation rate based on Ohio EPA's Facility Data Reports for disposal and from the District's 2017 Annual District Report and survey results for recycling. The following data was used for this calculation:

2017 Disposal tonnage:	24,039
2017 Recycling/reduction tonnage:	17,657
2017 Total generation:	41,695
2017 Residential/commercial Pounds generated per capita per day:	4.99

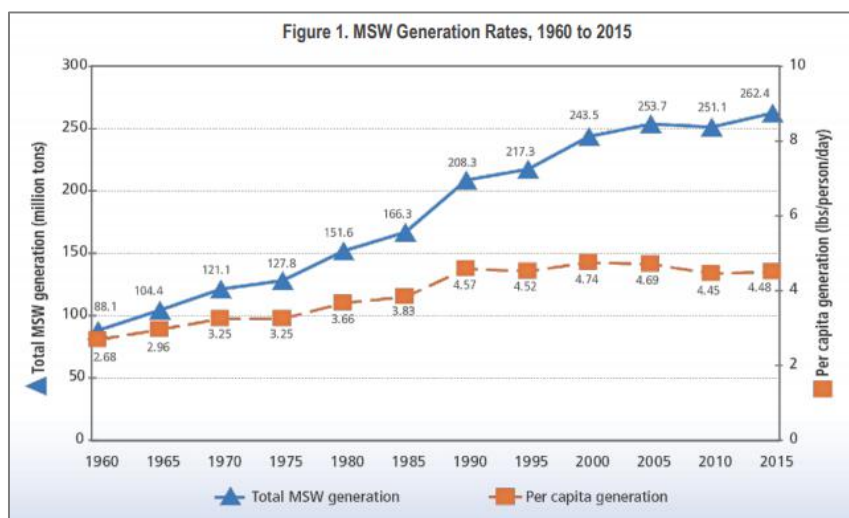
The total residential/commercial waste generation for 2017 was 41,694 tons. Overall residential/commercial sector waste generation per capita per day increased 1.56 pounds from 2011 through 2017 (see following figure). The overall trend has increased. The average per capita residential/commercial sector waste generation rate between these years was 4.21 pounds per day.

District Residential/Commercial Generation Rate: 2011-2017

Nationwide, residential/commercial waste generation rates have also been declining over the past 10 to 15 years. The following table presents the U.S. EPA's national statistics from 2000 through 2015¹:

Year	2000	2005	2008	2010	2012	2014	2015
Overall Generation	4.74	4.69	4.55	4.45	4.38	4.44	4.5
% Change		-1.05%	-2.99%	-2.20%	-1.57%	1.37%	1.35%

The following figure from the U.S. EPA's *Advancing Sustainable Materials Management: 2015 Fact Sheet* presents the per capita waste generation and per capita generation rates for a much longer time period, 1960 through 2015.

Total U.S. Municipal Waste Generation: 1960 – 2015

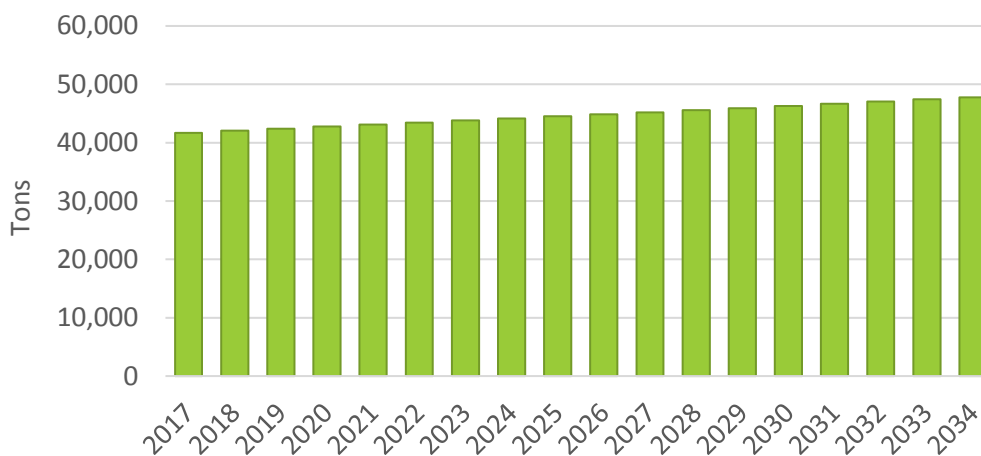
¹ U.S. EPA, *Advancing Sustainable Materials Management: 2015 Fact Sheet*, July 2018.

Based upon the information discussed above, the District believes that using the 2013-2017 average generation rate of 4.49 PPD would be appropriate. To project waste generation into the future in a conservative fashion, the District chose to increase the average ppd generate rate by 0.99% (half of 1.99%) throughout the planning period. Applying this generation rate and annual increase results in 42,774 tons of residential/commercial waste in 2020 and 47,791 tons at the end of the planning period due to the projected increase in generation rate even though population declines over the period. The following figure presents the estimated residential/commercial waste generation throughout the planning period.

Residential/Commercial Waste Generation: 2013 – 2017

Year	Generation (tons)	Population	Per Capita Generation Rate (lbs/person/day)	Average Rate of Change for Per Capita Generation Rate
2013	40,067	45,920	4.78	
2014	38,934	45,905	4.65	-3%
2015	33,532	45,891	4.00	-14%
2016	33,603	45,876	4.01	0%
2017	41,695	45,778	4.99	24%
Average				1.99%

Residential/Commercial Waste Generation: 2017 – 2034



2. Industrial Sector

In accordance with ORC 3734.56(D), the Plan must be revised if the Board has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” A material change in circumstances shall be defined as a change that adversely affects

the ability of the Board of County Commissioners (Board) to:

- (1) Assure waste disposal capacity during the planning period;
- (2) Maintain compliance with applicable waste reduction or access goals; or
- (3) Adequately finance implementation of the Plan.

The Ohio EPA's Plan Format requires that the Plan Update must include a description of the process the Board will use to determine whether a material change in circumstances has occurred, and, as a result, requires the preparation of an amended Plan.

Based on ORC 3734.56(D), Pratt Industries, which is in the process of building a new facility in Wapakoneta, to be open in 2019, will increase the generation of solid waste in Auglaize County including disposed waste and recyclables. The District developed a detailed survey instrument specifically for Pratt Industries so the District could understand how the operation would affect the District from a disposal and recycling basis (see Appendix H). The District conducted numerous calls with Pratt to ensure that the data they presented in the survey was accurate and that Pratt understood the categories and restrictions on the data being submitted. This was particularly important for data based on origin of generation (internal to Pratt, in-district and out-of-district), classification of materials and other factors. The District is confident that the information submitted by Pratt is accurate and is properly presented in this Plan Update. The District will monitor the actual data and generation tonnages by category and by origin to ensure that the projections contained within this Plan Update fall within an acceptable range. If actual tonnages fall outside an acceptable range for any lengthy period of time, the District reserves the right to implement the Material Change in Circumstance procedure contained in Section I of this Plan Update.

Finally, because this facility will cause dramatic change to the current District infrastructure and waste generation, the District needed to be conservative in some of the program language and commitments contained in this Plan Update. Flexible language was added to position the District with the most opportunity to implement this Plan Update without having expend more resource to change the plan if certain financially oriented projections are not realized. This Plan Update is the direct result of the development of the Pratt facility. This development is viewed as a very positive contribution to the District as long as all projections stay valid. If certain financial aspects do not come to fruition, the District must have flexibility in implementing this Plan Update before having to declare another material change in circumstance (which is a costly endeavor).

Pratt Industries estimates an additional 17,400 tons that will be landfilled from their facility per year starting in 2020 and approximately 5,800 tons in 2019. Pratt has also indicated that they will recycle and or compost approximately 38,800 tons in 2019 and 114,800 tons in 2020 and beyond. Based on



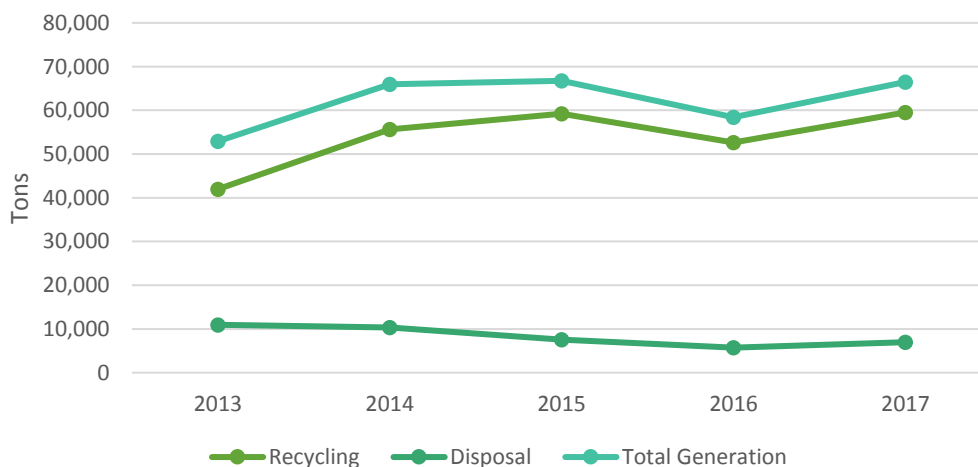
these projections, the District and the Board of County Commissioners conjunction with the City of Wapakoneta have agreed in concept to lowering the generation fee from \$9.00 to \$7.65 per ton for all generators in Auglaize County. The District's Policy Committee, by resolution, has also agreed to the reduction in the generation fee.

The District's industrial waste generation projections are presented in Table V-3. Industrial waste generation is presented by Standard Industrial Classification (SIC) code for the 2017 reference year through 2034.

The industrial waste generated by each SIC code in 2017 is based on the ratio of waste reported and estimated by industries in industrial SIC codes in Table IV-2. The totals have been adjusted to correspond to the total industrial waste generation in Table IV-8, which is based on volumes recorded by landfills, transfer stations, waste-to-energy facilities, plus recycling and composting reported on the ADR.

The estimated amount of industrial waste generation has fluctuated between each year in 2013-2017, but it has increased overall.

Industrial Waste Generation: 2013 – 2017



The average industrial generation amount from 2013 to 2017 was 62,208 tons. The generation tonnage fluctuated only between 52,924 tons in 2013 and 66,991 tons in 2017.

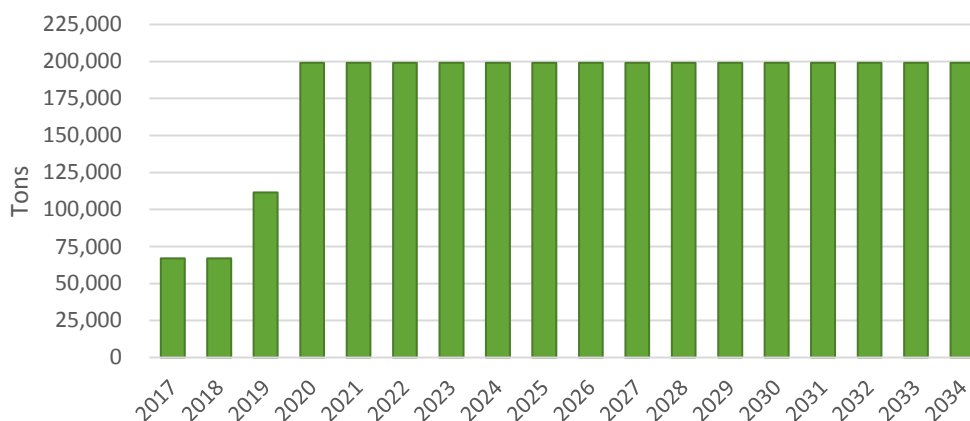
Additional tonnage estimated from the new Pratt Industries facility was incorporated into 2019 through the remainder of the planning period. The District believes the industrial sector will continue to generate approximately 199,193 tons per year throughout the planning period, starting in 2020.

Industrial waste generation has been projected for years 2018 through 2024. These projections were made by flatlining 2017 waste generation and incorporating Pratt Industry's projected waste generation. The District assumes this is a reasonable projection.

Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period. The amount generated is projected to remain constant after year 2020.

The District projects industrial waste at a constant 199,193 tons from 2020 to 2034. The figure below represents the reference year through a time in the planning period when industrial waste generation is projected as consistent (see the figure below).

Industrial Generation: 2017 – 2024



The significant increase in generation is primarily based on the Pratt Industries facility in Wapakoneta. Over 86% of the increase in generation comes from Pratt's recycling and composting projections.

3. Total Waste Generation

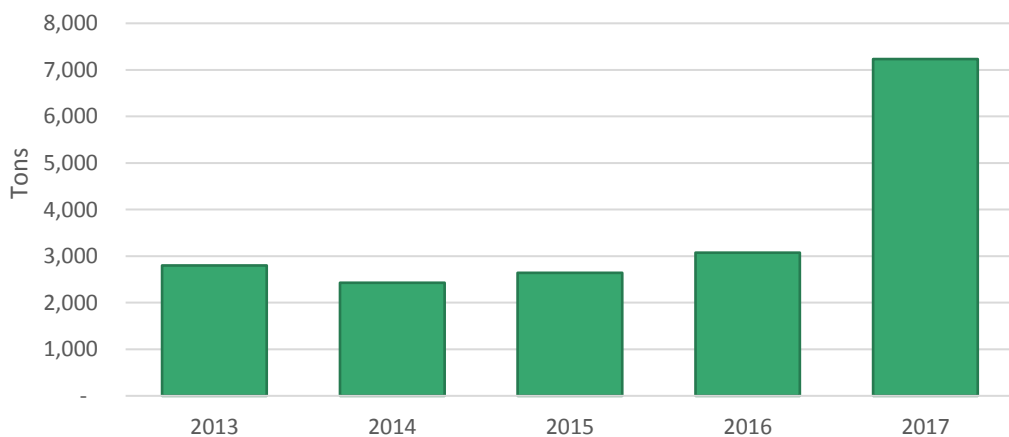
Total waste generation projections for the District during the planning period are presented in Table V-4. The total waste generation calculation for the

2017 reference year was 115,918 tons. This includes residential/commercial waste (41,695 tons), industrial waste (66,991 tons), and exempt waste (7,231 tons).

Exempt waste does not have a direct correlation to population or market/economic factors. Exempt waste is a term used to describe construction and demolition debris, non-toxic fly ash and bottom ash, spent non-toxic foundry sand, slag, and other materials excluded from the definition of solid waste in the Ohio Revised Code (ORC) § 3734.01(E).

Exempt waste generated from the District has increased between 2013 (3,075 tons) and 2017 (7,231), while the five-year average is 3,636 tons (see figure below). The average change in exempt waste generation between 2013 and 2017 is an increase of 3% per year. The District assumes this to be a reasonable rate to project the exempt waste generation totals for years between 2017 and 2020. The District then assumes that exempt waste will stay consistent in the planning period years between 2020 and 2034.

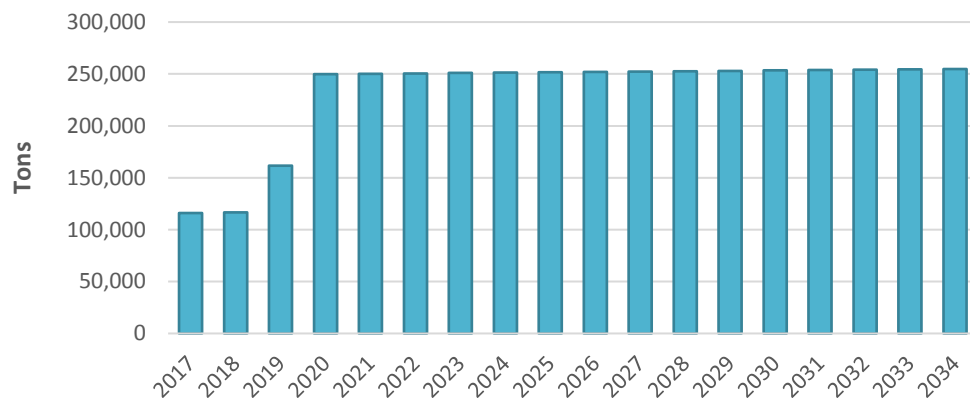
Exempt Waste Generation: 2013-2017



The overall total generation rate which includes residential/commercial, industrial, and exempt waste generation in pounds per person per day (PPD) for the first year of the planning period is projected to be 30.03 PPD. The per capita generation rate is projected to increase to 31.49 PPD by the final year of the planning period. Total waste generation is projected to increase by 138,968 tons over the fifteen-year planning period as residential/commercial generation increases due to historical trends; industrial generation increases in 2019 and 2020 with Pratt Industries in the District, and exempt waste generation remains constant after a 3% projection from 2017 to 2020.

The following figure presents the District's total waste generation projections throughout the planning period.

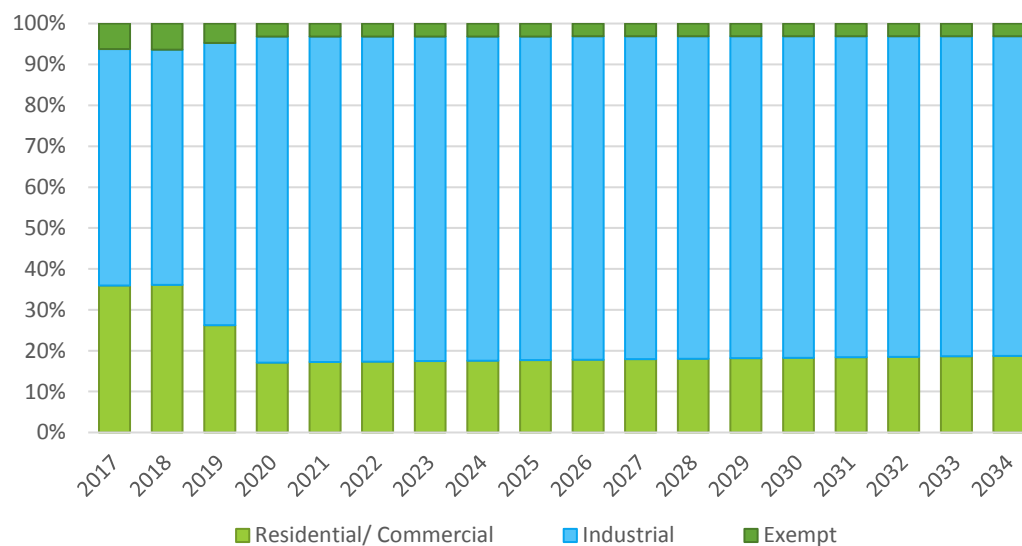
Total District Waste Generation: 2017 – 2034



The significant increase in total generation is primarily based on the Pratt Industries facility in Wapakoneta.

The following figure presents waste generation by sector as a percentage of the District's total waste generation.

Total District Waste Generation by Sector: 2017 – 2034



D. Projections for Waste Stream Composition

The District does anticipate major changes in the composition of the waste stream during the planning period. A new industry (Pratt Industries) will increase paper and cardboard in the industrial waste composition. This change enables the District to update the Plan to address changes in the county.

Responses to the District's annual survey should alert the District to any other major changes in the industrial sector. Any significant changes in waste stream composition will be noted in the Annual District Report (ADR).

E. Waste Reduction and Recycling Strategies through the Planning Period

The District must continue to develop recycling and waste reduction strategies to meet Goal #1 or Goal #2 and Goals #3 through #7 established in the *1995 State Plan*. The goals include:

Goal #1

- Ensure the availability of reduction and recycling opportunities/programs for residential/commercial waste.

Goal #2

- Reduce and/or recycle at least 25% of the residential/commercial waste generated and 50% of the industrial waste generated.

Goal #3

- Provide informational and technical assistance on source reduction.

Goal #4

- Provide informational and technical assistance on recycling, reuse and composting opportunities.

Goal #5

- Develop strategies managing scrap tires and household hazardous waste (HHW).

Goal #6

- Districts are required to submit an annual report to Ohio EPA.

Goal #7

- Prepare a market development strategy (optional).

The following table summarizes the District strategies for meeting the 1995 State Plan Goals:

District Strategies by State Plan Goal

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Curbside Recycling	AC-1	✓	✓	☐	☐			
Drop-Off Recycling	AC-2	✓	✓					
Yard Waste Management	AC-3	✓	✓	☐	✓			
Special Waste Management and Services • Household Hazardous Waste (HHW) Management • Scrap Tire Recycling • Battery Collection • Used Oil Collection • Appliance Recycling	AC-4	☐	✓			✓		
Special Event Recycling	AC-5	☐	✓	☐	☐	☐		
School Recycling	AC-6	☐	✓	☐	☐	☐		
Special Collection Routes	AC-7	☐	✓	☐	✓	☐		
Glass Bar Program	AC-8	✓	✓	☐	☐	☐		
Aluminum Buyback Program	AC-9	✓	✓	☐	☐	☐		
Recycling and Market Development Grant Program	AC-10	☐	✓	☐	✓	☐		✓
Recyclable Material Sorting Assistance Fund	AC-11	☐	☐	☐	✓	☐		
Education and Awareness	AC-12	☐	☐	✓	✓	☐		
Curbside and Pay-As-You-Throw Technical Assistance	AC-13	☐	☐	☐	✓	☐		
Annual Surveying	AC-14	☐	☐			☐	✓	
Auglaize County Material Recovery Facility	AC-15	✓	✓			☐		
General Plan Implementation	AC-16	✓	✓	✓	✓	✓	✓	✓
DIY Waste Audit and Waste Reduction Resources	AC-17	☐	☐	✓	✓	☐		
Number of Strategies Per Goal		7	12	3	8	2	2	2

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District's residential/commercial waste reduction strategies are presented in Table V-5. Actual tonnage as reported in the Annual District Reports was used for 2017. Diversion for each program from 2018 through 2034 was projected using the following assumptions:

Residential curbside and yard waste programs are projected to remain constant for the entire planning period. Due to fluctuations in historical tonnages for the past five years, the District keeps projections constant to

remain conservative. The drop-off programs are projected to remain constant. Based on trends from 2013 to 2018 for the Auglaize County Material Recovery Facility, the projected tonnage projected per year of the average rate of change in percentage from 2013-2018 divided by 2.5 (5.34%). All other programs are projected to remain constant from 2017 to be conservative.

The following strategies address many of the challenges that the District identified with their current solid waste management programs.

RESIDENTIAL/COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

1. AC-1 – Curbside Recycling (State Plan Goals #1 and #2)

This program will continue (see description in Section IV). This is a mission critical program to the achievement of State plan goals and will receive maximum priority (when and if the District has the ability to affect the programs viability). Since the communities operate their own program, the District can only assist in keeping the program viable through technical assistance.

Wapakoneta's curbside program, in 2019, will be removing glass curbside collection from their program. The new public drop-off in Wapakoneta (in 2018) has glass material accepted in a source separated container. This program will be changing to dual-stream from a multi-stream collection in 2019.

The challenges for this program presented in Section IV included:

- The following communities in the District do not have curbside recycling: Waynesfield, New Bremen, Minster, Cridersville, Buckland, St. Marys/Villa Nova and other surrounding subdivisions around Grand Lake St. Marys.
- All communities currently with a curbside program operate under a multi-stream collection program (except New Knoxville). The District prefers the collection to occur as a dual stream system.
- New Knoxville operates a single stream collection program which not be processed by the District.

To address these challenges, the District will implement the following strategies:

Initiative AC-1.1: Improving St. Marys' Curbside Program

The District will work with City officials to improve the efficiency of the curbside program. One of the District's goals is to expand the materials collected by St. Marys' program to include flattened cardboard. The District will also focus on increasing the quantity of recyclables residents are permitted to set out at the curb. Only one bin of commingled recyclables may be set out. A second bin of pre-sorted materials can also be set out. The District will attempt to set up a series of meetings with the Solid Waste Department to develop a solution that benefits the city, the residents, and the goals of the solid waste district.

Implementation: 2020 – 2022

Initiative AC-1.2: Improving Communities' Recycling Information

The District will work with curbside recycling communities to present comprehensive recycling information for residents. This information can be stored on the District's website and/or on each of the communities' websites.

Implementation: 2020 – 2022

2. AC-2 – Drop-Off Recycling
(State Plan Goals #1 and #2)

This program will continue (see description in Section IV). This is a mission critical program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

The District is evaluating the collection of shoes at the ACRC and reserves the right to eliminate the acceptance of shoes for the ACRC's best interest.

The challenges of this program presented in Section IV include:

- Not all drop-off locations are 24/7.
- The St. Mary's Volunteer Recycling Site closed in 2017.
- Bags continue to be an issue at the drop-off sites and are commonly mixed with the recyclables. Residents are

instructed keep bags empty and separated at the drop-off sites.

- The Minster drop-off site is not operated 24/7.
- Use of roll-offs can still be inefficient for collection. The use of a second packer truck would be beneficial.
- There are no buy-back drop-off locations in the District such as aluminum can.

To address these challenges, the District will implement the following strategies:

Initiative AC-2.1: Adding a Drop-Off Site

The District will begin operating a part-time drop-off in the southeastern portion of Auglaize County to extend service to underserved rural populations. The first step will be for the District to begin discussions with Pusheta, Clay, and Goshen Townships to determine level of interest and to identify potential site locations. Based on the results of the discussions, the District will make the appropriate arrangements to site a drop-off or identify other interested communities in the southeastern end of the District.

Implementation: 2020 – 2024

2019 District Drop-Offs

Drop-Off Name	Location	Type	Operation Schedule
Cridersville, Tower Park	207 Water St, Cridersville	Full-Time	24/7
Buckland Recycling, Old Tile Mill	18863 St Rte 197, Wapakoneta	Full-Time	24/7
New Breman, Herman St	306 S Herman St, New Breman	Full-Time	24/7
Auglaize County MRF Drop-Off	15502 St. Marys River Rd, St. Marys	Full-Time	40 Hours/Week
St. Marys Township, St Rte 364	10752 St Rte 365, St Marys	Full-Time	24/7
Minster Recycling, Garfield St	55 North Garfield St, Minster	Part-Time	Every Saturday
Salem, OH 197	21219 Ohio 197, Spencerville	Part-Time	Daylight hours on second Friday-Sunday each month

Drop-Off Name	Location	Type	Operation Schedule
Waynesfield, Wayne St	218 S Wayne St, Waynesfield	Full-Time	24/7
Wapakoneta, N. Water St	510 N Water St, Wapakoneta	Full-Time	24/7 as of March 2018
New Knoxville, Industrial Dr	Industrial Dr, New Knoxville	Full-Time	24/7

Initiative AC-2.2: Drop-Off Recycling Messaging

The District began working with its education program and web site platform to better communicate and develop clear messaging on participation in the program. The goal is to reduce contamination and increase acceptable recyclables delivered in the proper way to each site. Signs at each site were upgraded in 2018 to reflect the new messaging on participation requirements.

Implementation: 2018 – 2024

3. AC-3 – Yard Waste Management (State Plan Goals #1, #2 and #4)

This program will continue with the initiatives from the current plan update (see description in Section IV). Since this program does not receive direct District funding, if the District has any shortfalls in funding in the future, this program should not have any viability issues outside of catastrophic conditions.

There were no challenges presented in Section IV for this program.

4. AC-4 – Special Waste Management and Services (State Plan Goals #2 and #5)

For the new plan update will combined the following categories of special waste into one program.

- Household Hazardous Waste (HHW) Management
- Scrap Tire Recycling
- Battery Collection
- Used Oil Collection
- Appliance Recycling

Household Hazardous Waste (HHW) Management

This program will continue with the initiatives from the current plan update (see description in Section IV). This is a mission critical

program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget. The challenge of this program presented in Section IV include:

- The Recycling Facility operating space is very challenging for the HHW program.

The District acknowledges this challenge and reserves the right to evaluate this program at any point in the planning period based on available funds and District resource availability.

Scrap Tire Recycling

This program will continue (see description in Section IV). This is a mission critical program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

No challenges were identified for this program in Section IV.

Battery Collection

This program will continue (see description in Section IV). This is a mission critical program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

There were no challenges presented in Section IV for this program.

In 2018, the drop-off sites where batteries were collected was reduced from seven to three sites due to the sites not being staffed. The District may need to charge for batteries based on vendor costs. Any un-staffed recycling drop-off site cannot accept batteries as the ability to collect the user fee is not possible.

Batteries will still be collected at the ACRC may include a fee into the planning period.

Used Oil Collection

This program will continue (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

No challenges were identified for this program in Section IV.

Appliance Recycling

This program will continue (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

No challenges were identified for this program in Section IV.

5. AC-5 – Special Event Recycling (State Plan Goals #2)

This program will continue (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

There were no challenges presented in Section IV for this program.

6. AC-6 – School Recycling (State Plan Goals #2, #3, and #4)

This program will continue with the initiatives from the current plan update (see description in Section IV). The challenge of this program presented in Section IV includes:

- Not all schools collect the same materials.

The District acknowledges this challenge and reserves the right to evaluate this program at any point in the planning period based on available funds and District resource availability.

7. AC-7 – Special Collection Routes (State Plan Goals #2, and #4)

This program will continue (see description in Section IV). No challenges were identified for this program in Section IV. However, to further improve the program², the District will implement the following strategies:

² Although improvements are anticipated, increases in the tonnage recovered from this program is not included in the recycling/reduction projections due to the minimal amount of materials available and recycled.

Initiative AC-7.1: Special Collection Route Education

The District will develop a brochure/handout that can be mass produced with the purpose of providing copies to all employees of the special collection routes on an annual basis. The brochure/handout will provide details on the program including what is recyclable along with tips on reducing waste. The brochure handout was developed in 2017.

Implementation: 2020 – 2034

8. AC-8 – Glass Bar Program
(State Plan Goal #1 and #2)

This new program will allow the increase in participation of businesses (such as bars and restaurants) which produce higher quantities of glass material. The District previously serviced 6-10 sites in 2017 and 2018 on a trial basis. Starting in 2020 and beyond, the District wishes to expand the trial program to additional bars and restaurants. This program is set to have a fee for each pick up (fees were not charged in the trial program) to offset the cost of collection and processing. Projected revenues are included in Section VIII.

This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

Implementation: 2020 – 2034

9. AC-9– Aluminum Buyback Program
(State Plan Goal #1 and #2)

This new program will allow residents to bring aluminum materials (primarily aluminum cans) to the Auglaize County Material Recovery Facility and receive a per pound cash amount for the buyback material. This program is meant to incentivize residents to bring aluminum materials to the Auglaize County Material Recovery Facility. Projected revenues are included in Section VIII.

The District may invest in additional sorting equipment to aid in this program if an Ohio EPA grant can be obtained. The District anticipates applying for the grant in late 2021 and early 2022. This schedule could be moved up at the discretion of the District or eliminated.

This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

Implementation: 2022 – 2034

FINANCIAL INCENTIVE/GRANT PROGRAMS

1. AC-10 – Recycling and Market Development Grant Program (State Plan Goals #2, #4 and #7)

Buy Recycled

(State Plan Goals #4)

This program will continue (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

There were no challenges presented in Section IV for this program. The District will implement the following initiative to enhance this program's impact:

Initiative AC-10.1: Buy Recycled Grant

The District will implement and promote a competitive "Buy Recycled" grant for educational facilities, non-profits, and small businesses. Criteria for grant funding may include a priority for projects that will also increase recycling in the community. Items purchased with grant funding must contain a minimum of 15% recycled materials.

Implementation: 2020 – 2034

Recycling Opportunities Fund

This program will continue (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

The challenges for this program presented in Section IV included:

- Grants are not always available annually.

- There is no specific grant application process.

To address this challenge, the District will implement the following strategy:

Initiative AC-10.2: Grant Funding Technical Assistance

The District will identify alternative funding sources for grant money, such as Keep America Beautiful and Ohio EPA. The District will promote funding opportunities to Auglaize County political subdivisions and provide technical assistance on grant applications to communities seeking funds. Entities that receive grant funding will be required to report recycling quantities to the District annually. The District will conduct an on-site follow-up visit with grant recipients after materials are purchased to ensure that items purchased using grant money are being properly utilized.

Implementation: 2020 – 2034

The intent of this program is to solicit interested parties that meet the core criteria of the program and then if a viable project is identified, provide funding through the District's unencumbered fund balance if available.

2. AC-11 – Recyclable Material Sorting Assistance Fund
(State Plan Goal #4)

This program will continue, formerly called Volunteer Recycling Assistance Group Grants, (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

The challenge for this program presented in Section IV included:

- The recycling markets directly relate to the financial assistance the District can offer. The groups received a percentage of the commodity revenue the ACRC receives for the materials sorted. This has decreased funds over the years resulting in reduced participation from the groups.

The District reserves the right to not implement any of the strategies listed in Section IV at any point in the planning period based on available funds and District resource availability.

**RESIDENTIAL/COMMERCIAL/INDUSTRIAL SECTOR EDUCATION
AND AWARENESS PROGRAMS****1. AC-12 – Education and Awareness Program**
(State Plan Goals #3 and #4)

This program will continue (see description in Section IV). This is a mission critical program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

The challenges of this program presented in Section IV include:

- The District Coordinator's time is limited to assisting in presentations for commercial businesses and organizations.
- Presentations are not increasing because the Education Specialist is retiring at the end of 2019 and school curriculum requirements.
- Keeping the program fresh and new.
- No mobile education display unit available.

To address these challenges, the District will implement the following strategies:

Initiative AC-12.1: Promoting District Presentations

The District will add information to its website about how to request civic or classroom presentations. The District will also send out annual letters to civic groups promoting the environmental education offered by the District.

Implementation: 2020 – 2034

Initiative AC-12.2: Periodic Newspaper Articles

The District has an excellent working relationship with local newspapers. The local newspapers run recycling schedules and articles for no cost to the District when space is available. The District will increase the quantity of informational articles regarding recycling and waste reduction in the paper. At a minimum, the District will run an informational article on a quarterly or as needed basis.

Implementation: 2020 – 2034

Initiative AC-12.3: Educator Contract

Once the Contract with the current Environmental Educator end in 2019, the District Office Coordinator will assume the education responsibilities. The new responsibilities for the District Office coordinator for 2020 and beyond will be to conduct the education program for the District and track the following specific performance criteria:

- The overall number of presentations given annually
- The number of schools that receive presentations
- The number of students/residents reached

The District's goal is to conduct increasing numbers of presentations and schools visited each year.

Implementation: 2019

Initiative AC-12.4: Messaging

The District will work on improving messaging regarding recycling program and special event participation. The District has made strides in this area with new brochure development and minor improvements to the web site. For the new planning period, special attention will be made to improve messaging that is consistent across all outreach initiatives (presentations, printed materials, web site and social media (when developed)). The District will also evaluate social media opportunities to compliment messaging activities and implement if feasible.

Implementation: 2020 – 2034

DISTRICT FACILITIES/OTHER PROGRAMS

1. AC-13 – Curbside and Pay-As-You-Throw Technical Assistance (State Plan Goal #4)

This program will continue (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

The challenge for this program presented in Section IV included:

- No activity in 2017.

This program initiative originated in the previous plan update. The need for this initiative has not been requested by any of the communities. Based on this and other factors, the District chooses to keep the option to offer assistance in the new planning period but is not committing any specific tasks in any given year. This Plan Update will maintain this program if the need arises.

The District reserves the right to not implement any of the strategies for this program listed in Section IV at any point in the planning period based on available funds and District resource availability.

To address this challenge, the District will implement the following strategy:

Initiative AC-13.1: Targeted Curbside Promotion

The District will identify areas within Auglaize County that could be candidates for a curbside recycling program based on population density. The District will attempt to meet with administrative officials in the identified areas to encourage a curbside recycling program and provide technical assistance on launching a curbside recycling if needed.

If a community wants to implement a program in which the District provides curbside service instead of private sector service, the cost would need to be cost neutral via user fees charged by the District to the community that covered all capital and operational expenses. Considerations of single versus dual-stream will be included.

If a new curbside program is created that requires the District to operate the program on a cost neutral basis, the District will evaluate whether the budget in this Plan Update will need to be revised to include the revenue and expenses related to the new curbside program. If the budget needs to be revised, the District would follow the prescribed process in the Ohio Revised Code.

Implementation: 2020 – 2034

2. AC-14 – Annual Surveying (State Plan Goal #7)

This program will continue with the initiatives from the current plan update (see description in Section IV). This is a mission critical

program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

There were no challenges presented in Section IV for this program.

3. AC-15 – Auglaize County Material Recovery Facility
(State Plan Goals #1 and #2)

This program will continue (see description in Section IV). This is a mission critical program to the achievement of State plan goals and will receive maximum priority if there are shortfalls in the District's budget.

The challenges of this program presented in Section IV include:

- Recycling tonnage has increased annually from 2,459 tons in 2014 to over 4,100 tons in 2017. These increases have created a significant capacity issue at the site.
- The existing equipment, outside of the new baler, is extremely old, unreliable and in constant repair.
- Non-safe conditions for resident drop-offs exists.
- The existing drive into the facility interferes with the City of St. Marys operations.
- No dedicated area for HHW drop-off and storage.
- Limited storage areas for commodities.

The challenges of this program presented in Section IV (AC-15) include:

- With the increased volume capacity for recyclables collection, the District may need to invest in trucks to collect the additional materials.
- Processing materials in a single stream system is less efficient than a dual stream system.
- E-waste market research shows increased collection costs.

To address these challenges, the District will implement the following strategies:

Initiative AC-15.1: MRF Evaluation

During March and April of 2015, the District made several site visits to other MRFs in Ohio in order to facilitate determining a decision-making process for improvements at the Auglaize County MRF. These visits were very helpful to better define the strategy for Auglaize MRF upgrades. The District also conducted a preliminary review of MRF operations and procedures.

In general, the District has determined that major changes such as building a new facility are not necessary for consideration at this time. Depending on the status of the current lease with the City of St. Mary's, a new facility may be needed. Instead, the District will continue to evaluate its current facility to address the challenges listed above and explore a number of small and medium-scale improvements to the existing facility, some of which are already in process. These improvements may include a minor expansion of the building enclosure and/or the purchase of additional equipment along with other procedural and management improvements. The District may also purchase the property where the current MRF is located for future expansion options.

The scale and cost of each identified improvements from the ongoing MRF evaluation will determine, at least in part, the timing of implementation for each improvement. Small-scale and/or inexpensive improvements may be implemented using the funds from Program AC-15 (see below) within the first five years of the planning period, while more extensive improvements may be postponed and further evaluated under the next plan update.

Implementation: 2023 – 2024

4. AC-16 – General Plan Implementation
(Potentially State Plan Goals #1 – #7)

This program will continue with the initiatives from the current plan update (see description in Section IV). There were no challenges presented in Section IV for this program.

5. AC-17 – DIY Waste Audits and Waste Reduction Resources
(State Plan Goals #3 and #4)

This program will continue with the initiatives from the current plan update (see description in Section IV). This is a non-mission critical program to the achievement of State plan goals and will not receive maximum priority if there are shortfalls in the District's budget.

The challenge of this program presented in Section IV include:

- No activity in 2017.

The District reserves the right to not implement any of the strategies listed in Section IV at any point in the planning period based on available funds and District resource availability.

Past Program Acknowledgements

The following program was in the last plan update but will not be carried forward into this planning period.

Multi-Family Housing Unit Recycling

This program initiative originated in the previous plan update. There are 3-5 multi-family housing communities in the District. These communities are serviced by the city they reside in and have access to public drop-offs. The District decided to remove this program from this plan update based on the above explanation.

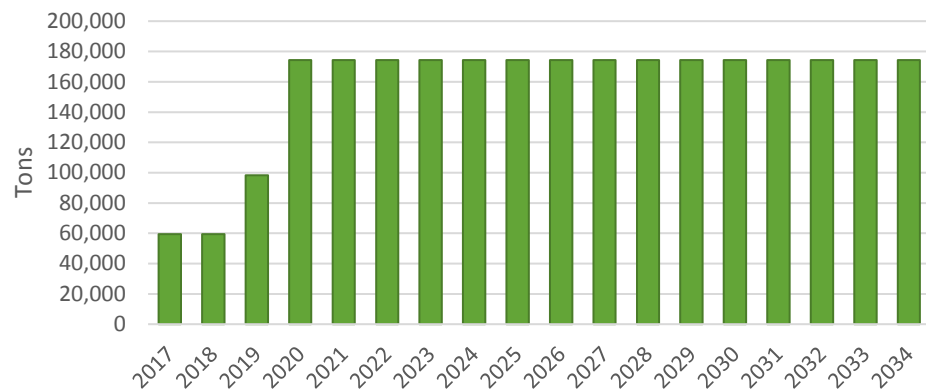
INDUSTRIAL WASTE REDUCTION/RECYCLING PROGRAMS

Table V-6 presents projections for industrial recycling. A variety of factors will influence the industrial sector's recycling totals throughout the planning period, including:

- Changes in industrial sector employment are expected to impact industrial sector recycling.
- Economic factors are also causing more businesses to streamline operations, waste less materials, and recycle more.
- Introduction of Pratt Industries operating in the District.

The industrial sector recycled 59,514 tons in 2017. The District anticipates that between 2019 and 2033, the industrial sector will have increase recycle tonnages due to the introduction of Pratt Industries in Wapakoneta. In 2020, the anticipates 174,316 tons and at the end of the planning period in 2034, the industrial sector will recycle 174,316 tons. This tonnage for projection purposes is to remain constant for the planning period. The following figure presents the actual and projected industrial sector recycling from 2017 to 2034:

2017 – 2034 Industrial Sector Recycling



The District operates several existing programs that provide information and technical assistance to industrial facilities on source reduction, reuse and recycling. The District's education and awareness program (AC-12) provides technical assistance and presentations by request to the industrial sector. Initiatives in the commercial/industrial sector surveying program (AC-14) also focus on promoting the District's services to industries and strengthening relationships with high-volume industrial generators.

**Table V-1
District Population Projections**

Year	Auglaize County Population	Population Adjustment	Total District Population
		None	
2017	45,778	0	45,778
2018	45,715	0	45,715
2019	45,653	0	45,653
2020	45,590	0	45,590
2021	45,502	0	45,502
2022	45,414	0	45,414
2023	45,326	0	45,326
2024	45,238	0	45,238
2025	45,150	0	45,150
2026	45,058	0	45,058
2027	44,966	0	44,966
2028	44,874	0	44,874
2029	44,782	0	44,782
2030	44,690	0	44,690
2031	44,606	0	44,606
2032	44,522	0	44,522
2033	44,438	0	44,438
2034	44,354	0	44,354

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2017 Population Estimates by County, City, Village, and Township", May 2018.

Population projections 2000-2040 - Ohio Development Services Agency, Ohio County Profiles.

Sample calculation (2017):

2017 Total District Population = Auglaize County
Population + Village

45,778 residents = 45,778 residents + residents

Table V-2
District Residential/Commercial Waste Generation (TPY)

Year	District Population	Per Capita Generation Rate	Total Residential/Commercial Waste Generation (TPY)
2017	45,778	4.99	41,695
2018	45,715	5.04	42,052
2019	45,653	5.09	42,412
2020	45,590	5.14	42,774
2021	45,502	5.19	43,116
2022	45,414	5.24	43,460
2023	45,326	5.30	43,806
2024	45,238	5.35	44,156
2025	45,150	5.40	44,508
2026	45,058	5.46	44,858
2027	44,966	5.51	45,211
2028	44,874	5.56	45,567
2029	44,782	5.62	45,925
2030	44,690	5.68	46,286
2031	44,606	5.73	46,658
2032	44,522	5.79	47,033
2033	44,438	5.85	47,411
2034	44,354	5.90	47,791

Source(s) of information:

District Population - Table V-1

2017 Per Capita Generation Rate - Table IV-8

2017 Per Capita Generation Rate - 2017 Facility Data Report and Annual District Report

Per Capita Generation Rate projected to increase throughout the planning period using a linear projection, ending in 2033 with a per capita generation rate equal to the 2013-2017 average.

Sample calculation (2017):

District population x per capita generation rate (lb/person/day) x 365 days/year x 1 ton/2,000 lbs = Total Residential/Commercial Generation (tons)

45,778 residents x 5 ppd x 365 days ÷ 2,000 pounds/ton = 41,695 tons

Table V-3
Projected Industrial Waste Generation

SIC Code	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
20	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994	13,994
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
24	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481	2,481
25	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
26	24	24	44,574	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226	132,226
27	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425	1,425
28	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279	15,279
29	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
30	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337	2,337
31	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
32	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284
33	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764	5,764
34	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681	3,681
35	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426	10,426
36	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
37	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631	6,631
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523	4,523
Totals	66,991	66,991	111,541	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193	199,193

Source(s) of information:

2017 Generation by SIC Code - Table IV-2 (adjusted to correspond to total industrial waste on Table IV-8)

Sample calculation (2017):

SIC Code 20: 2018 Generation = (2017 SIC 20 generation ÷ 2017 total generation) x 2018 total generation
13,994 tons = (13,994 tons ÷ 66,991 tons) x 66,991 tons

Table V-4
Total Waste Generation for the District During the Planning Period

Year	Residential/ Commercial	Industrial	Exempt	Total Waste	Generation Rate (lbs/person/day)
2017	41,695	66,991	7,231	115,918	13.87
2018	42,052	66,991	7,448	116,491	13.96
2019	42,412	111,541	7,672	161,625	19.40
2020	42,774	199,193	7,902	249,869	30.03
2021	43,116	199,193	7,902	250,211	30.13
2022	43,460	199,193	7,902	250,555	30.23
2023	43,806	199,193	7,902	250,902	30.33
2024	44,156	199,193	7,902	251,251	30.43
2025	44,508	199,193	7,902	251,603	30.53
2026	44,858	199,193	7,902	251,953	30.64
2027	45,211	199,193	7,902	252,306	30.75
2028	45,567	199,193	7,902	252,662	30.85
2029	45,925	199,193	7,902	253,020	30.96
2030	46,286	199,193	7,902	253,381	31.07
2031	46,658	199,193	7,902	253,753	31.17
2032	47,033	199,193	7,902	254,128	31.28
2033	47,411	199,193	7,902	254,506	31.38
2034	47,791	199,193	7,902	254,886	31.49

Source(s) of information:

Residential/Commercial Table V-2

Industrial Table V-3

Sample calculation (2017):

Total Waste = Residential/Commercial + Industrial + Exempt

115,918 tons = 41,695 tons + 66,991 tons + 7,231 tons

$$\text{Generation Rate (lb/person/day)} = \frac{\text{Total Waste Generated (tons)} \times 2,000 \text{ pounds /ton}}{\text{Population} \times 365 \text{ days/year}}$$

$$13.87 = \frac{115,917.99 \text{ tons} \times 2,000}{45,778 \times 365}$$

Table V-5
Residential/Commercial Waste Reduction Strategies

Strategy	Program #	Type of Material Reduced or Recycled	Tons of Waste Reduction																		
			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
Residential/Commercial Recycling and Collection Programs																					
Special Waste Management and Services	Curbside Recycling	AC-1 AC, GL, PL, ONP, MxP, SC	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	
	Drop-Off Recycling	AC-2 AC, GL, PL, ONP, MxP, SC,	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	
	Yard Waste Management	AC-3 YW	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	
	Household Hazardous Waste (HHW) Management	AC-4a HHW	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Scrap Tire Recycling	AC-4b ST	580.2	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580	
	Battery Recycling	AC-4c HHW, LAB, HHB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Used Oil Recycling	AC-4d UO	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Appliance Recycling	AC-4e WG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Special Event Recycling	AC-5 PL, GL, AC, OCC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	School Recycling	AC-6 AC, GL, PL, ONP, MxP, SC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum Buyback Program	Glass Bar Program	AC-8 GL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	4	4	4	4	4	4	4	4	4	4	4	4	4	
		AC-9 AC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Financial Incentive/Grant Programs																					
Recycling and Market Development Grant	AC-10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Recyclable Material Sorting Assistance Fund	AC-11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Residential - Commercial - Education-Awareness Programs																					
Education and Awareness		AC-12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Other Programs																					
Curbside and Pay-As-You-Throw Technical Annual Surveying	AC-13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	AC-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	AC-15	N/A	2,459	3,099	3,264	3,438	3,622	3,816	4,019	4,234	4,460	4,688	4,949	5,214	5,492	5,786	6,095	6,420	6,763	7,124	
	AC-16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	General Plan Implementation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
DIY Waste Audit and Waste Reduction		AC-17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Other Programs																					
Other Commercial Recycling		N/A	N/A	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	5,070	
Total			17,657	18,297	18,462	18,637	18,820	19,018	19,221	19,436	19,662	19,901	20,151	20,416	20,694	20,988	21,297	21,622	21,965	22,327	

AC = aluminum containers, GL = glass, PL = plastic, OCC = corrugated cardboard, SC = steel containers, PBD = paperboard, MxP = mixed paper, AsC = aseptic containers, YW = yard waste, HHW = hazardous household waste, UO = used oil, EW = electronic waste, LAB = lead-acid batteries, ST = scrap tires, FW = food waste, WG = White Goods, n/a = not applicable

Source(s) of information:
2017 District Annual Report and Residential/Commercial Surveys

Table V-6
Industrial Waste Reduction Strategies

Strategy	Program #	Type of Material Reduced/Recycled	Tons of Source Reduction/Recycling											
			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Industrial Recycling	N/A		59,514	59,514	98,280	174,316	174,316	174,316	174,316	174,316	174,316	174,316	174,316	174,316
		Total	59,514	59,514	98,280	174,316	174,316	174,316	174,316	174,316	174,316	174,316	174,316	174,316

AL = aluminum; FM = ferrous metals; NFM = non-ferrous metals; PL = plastic; OCC = corrugated cardboard; MxP = mixed paper, W = wood, OTH = other

Source(s) of information:
2017 tons - Table IV-6

VI. Methods of Management: Facilities and Programs to be Used [ORC Section 3734.53(A)(7)-(12)]

This section of the *Plan Update* demonstrates that the District has capacity through facilities and its programs to manage the waste generated for the planning period. A regional capacity analysis provides information to demonstrate the District meets or exceeds capacity requirements under Ohio law. The District will continue to reserve its right to exercise flow control but does not currently designate facilities. The designation of facilities is a power granted to SWMDs under Ohio law allowing the District to designate where solid waste generated within or transported into the District shall be taken for disposal, or transfer.

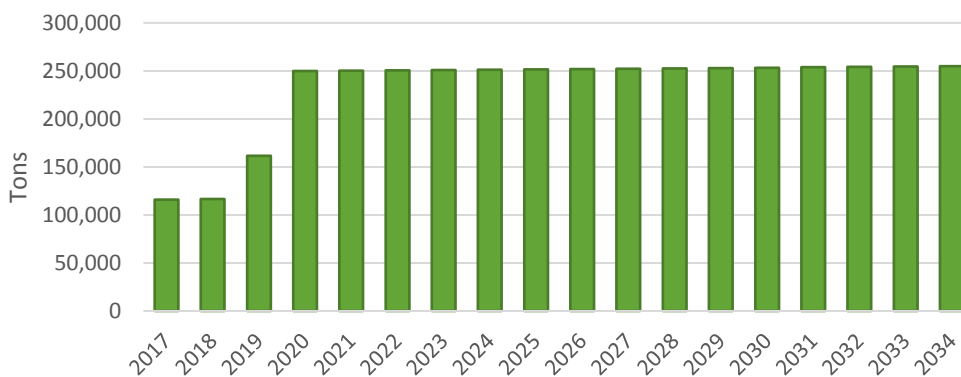
A. District Methods for Management of Solid Waste

Table VI-1 presents the waste management methods used and capacity needed for each year of the planning period. The District managed approximately 115,918 net tons of solid waste in 2017. Approximately 249,869 net tons of solid waste will need to be managed in 2020 (the first year of the planning period) and 254,886 net tons will need to be managed by 2034 (the final year of the planning period).

The District will manage the projected waste through recycling, yard waste composting, incineration, the use of transfer stations, and landfilling. In Table VI-1, the total tons landfilled in 2017 (38,747 tons) was calculated by subtracting recycling, yard waste composting, and the volume of waste reduced by incineration. The District projects a need of 56,916 tons of landfill capacity in 2020 and 58,243 tons in 2034.

The following figure shows the projected total net tons to be managed by the District throughout the planning period.

Net Tons to be Managed by the District (2017 – 2034)



The following figure shows the projected tons to be landfilled throughout the planning period.

Total Landfill Tons to be Managed by the District (2017 – 2034)

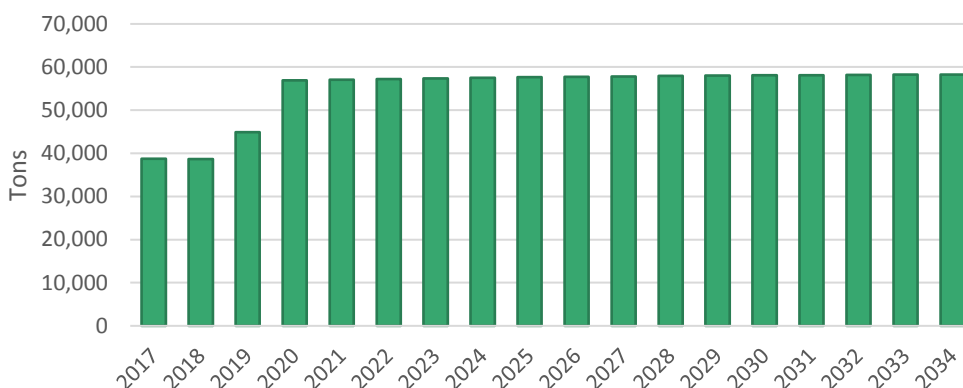


Table VI-2 presents a summary of waste management methods for residential/commercial solid waste generated by the District. Recycling, yard waste composting, transferring, incineration, and landfilling. In 2017, the residential/commercial sector generated a total of 41,695 tons. This sector is projected to generate 42,774 tons of solid waste at the beginning of the planning period and 47,791 tons of solid waste by the end of the planning period. The following figure presents the management methods used to manage residential/commercial waste generation throughout the planning period.

Residential/Commercial Sector Waste Management Methods (2017 – 2034)

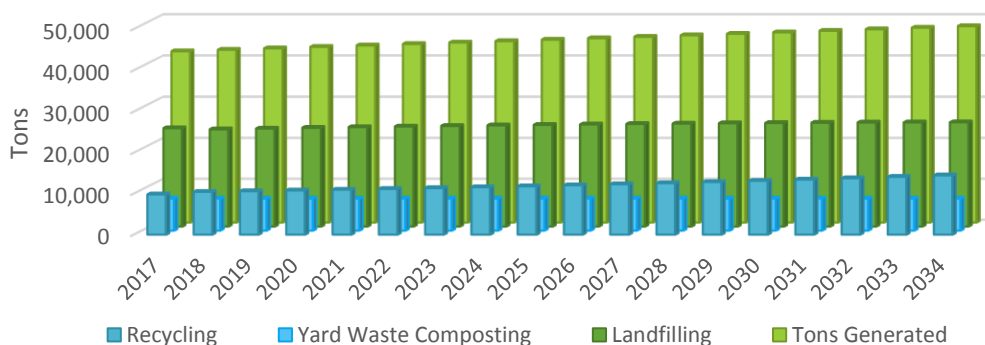


Table VI-3 presents a summary of waste management methods for industrial solid waste generated by the District. This sector's waste was managed by recycling, transferring, and landfilling. In 2017, the industrial sector generated a total of 66,991 tons. The industrial sector is projected to generate 199,193 tons of solid waste at the beginning of the planning period and 199,193 tons of solid waste by the end of the planning period. Total annual waste generation will remain constant from 2020 to 2034.

The following figure presents the management methods used to manage industrial waste generation throughout the planning period.

Industrial Sector Waste Management Methods (2017 – 2034)

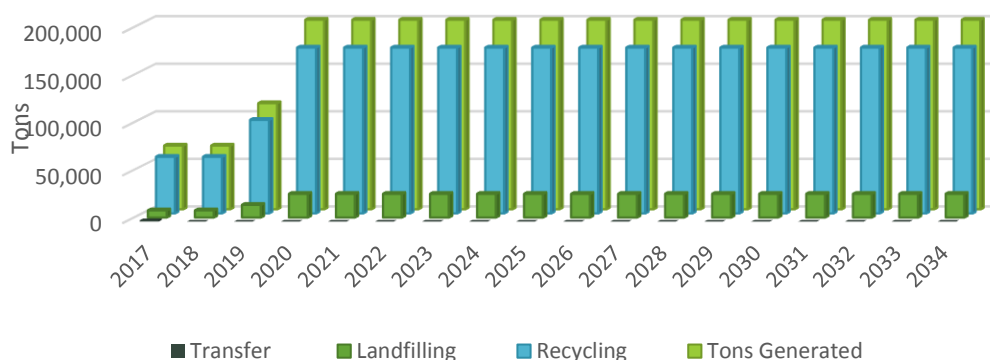


Table VI-4A, “Waste Management Method: Landfill,” presents the reference year landfill capacity utilization and anticipated landfill capacity needs throughout the planning period. The projections in Table VI-4A present the landfill capacity demands from 2017 to 2034. Total tons landfilled includes waste that was directly hauled to landfills, transferred waste, and ash produced through incineration.

Eight landfills received waste generated in the District during the reference year, including waste that was first accepted at incinerators or transfer stations. For the purposes of the analysis in Table VI-4A and future year projections on landfill capacity, the District assumes that each facility that managed District waste during the reference year will manage the same percent of total tons as during the reference year unless a landfill ceases operation or runs out of permitted airspace before the end of the planning period.

There are no in-district landfills. Seven of the landfills were located in Ohio and one landfill was located in Indiana. Nine of the Ohio landfills have sufficient remaining airspace to manage 78% of the District’s landfilling needs throughout the planning period. The other

Table VI-4B, “Waste Management Method: Incineration,” presents the total tons projected to be managed by incineration throughout the planning period. The District used one incinerator in the reference year to manage 6.7 tons of waste. Due to this low amount, 2018 to 2020 is projected at 0 tons. The overall tonnage managed by incineration annually from 2020 to 2034 is projected to remain at zero.

Table VI-4C, “Waste Management Method: Transfer,” the District projects transferred waste will decrease at the same rate as population throughout the planning period. In 2020, the first year of the planning period, the

District projects approximately 14,936 tons of solid waste will be managed by transfer facilities. This increases to 15,757 tons in 2034, the final year of the planning period.

Significant transfer station utilization continues for the District:

- > 60% of District waste flows through transfer stations prior to landfill disposal.
- Ninety percent of transferred solid waste goes to Greenville Transfer & Scrap Tire Collection Facility and Waste Management of Ohio - Lima

Table VI-4D, Waste Management Method: Recycling,” presents the total tons projected to be managed by recycling. The District is projected to recycle an average of 187,171 tons of material annually throughout the planning period.

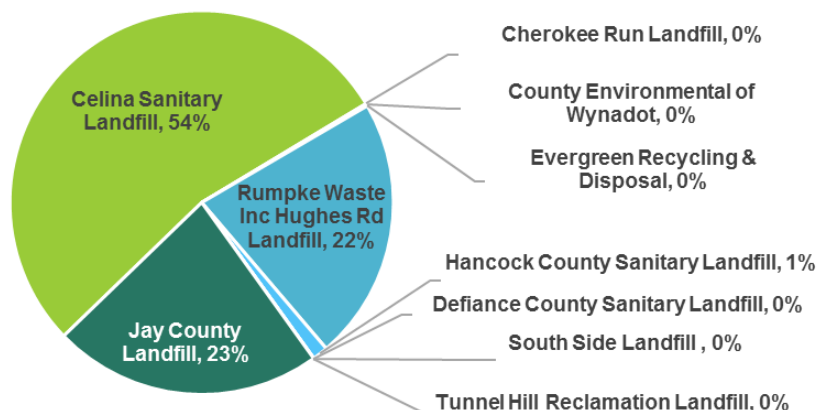
Table VI-4E, “Waste Management Method: Composting,” presents the total tons projected to be managed by composting. Composting was projected to decrease with population from 7,840 tons annually from 2017 to 7,840 tons in 2034. The District does not anticipate any major changes to facilities or programs operating during the reference year.

B. Demonstration of Access to Capacity

During 2017, nine out-of-district landfills and two out-of-state landfills managed 38,740 tons of solid waste generated by District residents, businesses and industries.

The following figure presents the landfills used by the District in 2017, and the percentage of District-generated waste landfilled at each facility.

Landfills Used by District (2017)



Regional Capacity Analysis

The purpose for the regional capacity analysis is to evaluate and demonstrate that the District has access to adequate disposal capacity during the planning period. The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's solid waste until December 31, 2034.

The District projects an average need of approximately 58,700 tons or 176,000 cubic yards of landfill capacity annually throughout the planning period. The District will dispose of approximately 880,000 tons or 2.6 million cubic yards of solid waste. Using a 3:1 conversion factor for cubic yards to tons and applying an average 2:1 compaction ratio for landfilled solid waste, the District will need approximately 1.3 million cubic yards of airspace capacity over the fifteen-year planning period.

The landfills used by the District in 2017 had sufficient permitted airspace to dispose of an estimated 78 million tons of solid waste. The Celina Sanitary Landfill, which currently manages the majority of the District's waste, is estimated to close by the end of 2019. The other Landfills which take waste from the District have enough permitted capacity to manage the entirety of the waste generated within the District from the reference year to the end of the planning period. Overall, the landfills used by the District in 2017 had an average remaining lifespan of more than 45 years.

C. Schedule for Facilities and Programs: New, Expansions, Closures, Continuations

Table VI-5, Implementation Schedule for Facilities, Strategies, Programs and Activities: Dates and Description," presents descriptions and dates of operation for each facility, program, or activity presented in the *Plan Update*.

Programs for residential/commercial sector recycling and composting, financial incentive programs, commercial/industrial sector recycling programs, education and awareness, technical assistance, and other programs are presented in Table VI-5. These programs are discussed in detail in Sections IV and V.

D. Identification and Designation of Facilities

Table VI-6 includes the solid waste facilities identified and current designations. 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 Section III Inventories.

The District is not designating any facilities in this *Plan Update* but reserves the right to designate at any point in the planning period.

E. Authorization Statement to Designate

The Board of County Commissioners of the District is authorized to establish facility designations in accordance with Section 343.013, 343.014 and 343.015 of the Ohio Revised Code.

F. 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, the following waiver process shall 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. Such other terms and conditions as the Board determines to be necessary or appropriate, including but not limited to payment of a waiver fee to the District because of diminished generation fee collections.

G. Siting Strategy for Facilities

A siting strategy was adopted by the District and was included in the District Rules which went into effect when the first District Plan was approved and ordered to be implemented by the Director of Ohio EPA on June 17, 1992. These rules are included in Section IX of the Plan. A full discussion of the District's rules, the District's rulemaking authority, and the proposed rules is included in Section IX of this Plan. It is proposed that the District will adopt a rule under the authority of ORC 343.01(G)(2) stating that any person, municipal corporation, township, or other political subdivision that plans to construct, enlarge, or modify any Solid Waste Facility for the collection, storage, disposal, transfer, recycling, processing, or composting of solid waste must submit general plans and specifications for the proposed improvement to the District Board of County Commissioners. The District Board of County Commissioners must approve the Solid Waste Facility as complying with the solid waste management plan of the District before the Solid Waste Facility is constructed or modified.

The Auglaize County Solid Waste Management District's new siting rule will require the submission and approval of plans for the construction of

Solid Waste Facilities as defined in this section. The Board shall not approve the General Plans and Specifications for any proposed Solid Waste Facility or the Modification of any existing in-District Solid Waste Facility where construction and operation of the proposed facility, as determined by the Board will: (1) have significant adverse impacts upon the Board's ability to finance and implement the Plan; (2) interfere with the Board's obligation to provide maximum feasible utilization of existing in-District Solid Waste Facilities; (materially and adversely affect the quality of life of residents within 300 feet of the proposed facility; or (4) have material adverse impacts upon the local community, including commercial businesses within 500 feet of the proposed facility and the adequacy of existing infrastructure to serve the proposed facility.

Except as otherwise proved herein, all proposed Solid Waste Facilities, whether to be sited by or on behalf of the District, or by or on behalf of any person, municipal corporation, township, or other political subdivision, shall be subject to this Siting Strategy.

Procedure Implementing Siting Strategy

Unless otherwise provided herein, or an exemption or waiver from this requirement has been granted by the Board, the following procedure and process shall be followed in the event the construction of a new Solid Waste Facility or the Modification of an existing in-District Solid Waste Facility is proposed within the District:

Step 1: Submittal of Plans and Specification

Any person, municipal corporation, township, or other political subdivision proposing to construct a new Solid Waste Facility or Modify an existing in-District Solid Waste Facility shall:

- a. Provide General Plans and Specifications of the proposed facility to the Board. Such General Plans and Specifications shall include, but may not be limited to, the following documents and information:
 - i. a site plan for the proposed Solid Waste Facility;
 - ii. architectural drawings or artists renderings of the proposed Solid Waste Facility;
 - iii. availability of necessary utilities;
 - iv. projected size and capacity of the proposed Solid Waste Facility;
 - v. hours of operation;
 - vi. anticipated source of solid waste or recyclable materials to be received at the proposed Solid Waste Facility. If recycling activities will be conducted at the proposed facility,

- a detailed description of the recycling activity including materials to be recycled, technology to be utilized to accomplish the separation and processing of the recyclable materials, the anticipated percentage of waste reduction anticipated from the operation of the facility and the identification of the market for the sale of the recyclable materials recovered at the facility must be submitted;
 - vii. type and anticipated number of vehicles utilizing the proposed Solid Waste Facility on an hourly and daily basis; and
 - ix. any other information necessary for the Board to evaluate whether the proposed Solid Waste Facility complies with each of the criteria listed below.
- b. Adequately demonstrate to the Board that the construction or modification and subsequent operation of the proposed Solid Waste Facility will:
 - i. be consistent with the goals, objectives, and strategies contained in the Plan;
 - ii. not adversely affect financing for the implementation of the Plan;
 - iii. not adversely affect the Board's obligation to provide for the maximum feasible utilization of existing in-District Solid Waste Facilities;
 - iv. be installed, operated, and maintained to be harmonious and appropriate in appearance and use with the existing in-District Solid Waste Facilities;
 - v. be adequately served by essential public facilities and services;
 - vi. not create excessive additional requirements at public cost for public facilities or services;
 - vii. not be detrimental to the economic welfare of the community;
 - viii. not involve the excessive production of traffic, noise, smoke, fumes, or odors;
 - ix. have vehicular approaches to the property that are designed not to create interferences with traffic;
 - x. not result in the destruction, loss, or damage of a natural, scenic, or historic feature of major importance; and
 - xi. not adversely affect property values within the surrounding community.
- c. The Applicant shall submit any additional information as the Board requests to establish, to the reasonable satisfaction of the Board, that the construction or modification and subsequent operation of

the proposed Solid Waste Facility or proposed modification of an existing in-District Solid Waste Facility will comply with the Plan.

- d. *Applicant* shall mean a person, municipal corporation, township, or other political subdivision proposing to construct or Modify a Solid Waste Facility within the District.
- e. *Modify or Modification* shall mean a significant change in the operation of an existing in-District Solid Waste Facility: (1) that requires the approval of the Director of the Ohio Environmental Protection Agency, or (2) that involves a change in the type of material, manner of operation, or activities conducted at the facility (i.e., a conversion of a legitimate recycling facility to a transfer station).

Step 2: Board Review

The Board shall conduct a review of the information submitted for the proposed Solid Waste Facility to determine whether the Applicant has adequately demonstrated that the proposed Solid Waste Facility will be constructed or modified and subsequently operated in compliance with the Plan and demonstrated that the impacts listed in Step 1 do not adversely affect the District, its residents and businesses. The Board may expend District funds to employ a consultant or consultants familiar with Solid Waste Facility construction and operation, land use planning, and solid waste planning to assist the Board in implementing the Siting Strategy and in its determination of whether a proposed Solid Waste Facility or modification of an existing in-District Solid Waste Facility complies with the other information in this Siting Strategy.

H. Contingencies for Capacity Assurance and District Program Implementation

The District does not anticipate any capacity assurance or program implementation problems during this planning period. Three of the landfills used by the District have ample capacity available throughout the planning period. There are several landfills in northwest Ohio and eastern Indiana with the capability to provide capacity if an emergency arose with the landfills used by the District.

If there is an emergency impacting the District, the Board will meet on an emergency basis and determine the appropriate actions to take to ensure compliance with this *Plan Update*. The following section defines the District's specific contingencies:

Disposal Capacity

The District is nearly 100% reliant on out-of-district and out-of-state landfill capacity. While District disposal capacity is assured for the duration of the planning period, aspects of management, control and pricing are real concerns to the District.

The District is prepared, if necessary and determined by the Board, to explore the following options if landfill capacity, solid waste management or the cost of solid waste collection, transportation and disposal deteriorates to unacceptable levels:

1. The District may develop a waste disposal cooperative for the purchase or reservation of solid waste disposal capacity for solid waste generated within the District in one or more permitted and licensed landfills outside the District;
2. The District may enter into joint use agreements with other solid waste districts to either obtain new capacity or to secure better disposal options for District generators.

Transfer Capacity

The above referenced potential disposal issue also impacts the transfer of solid waste in the District. The District utilizes 8 out-of-district licensed public and private transfer stations.

The District monitors the management of solid waste and governmental contracts to evaluate the cost of the transfer of solid waste out of the District. The District may also study individual facilities' roles relative to ultimate disposal destinations, potential disposal cooperative development, as well as other alternatives during the planning period.

While it is likely that the private and public sectors will continue to serve the transfer capacity needs of the District, the District reserves the right to respond to changes in the solid waste market and/or management conditions without seeking a full amendment (see Section I, C. *Process to Determine Material Change in Circumstances and Amend the Plan*) of the adopted *Plan Update*.

Recycling Capacity

Recycling in the District remains strong, however, as discussed in previous sections, the District intends to undertake an evaluation of the MRF to determine its ability to meet the District's current and future recycling processing needs. In the unlikely event that future District residential recycling needs are not met by the District and the private

sector, the District will evaluate whether the District should provide, directly or indirectly, additional recycling services. The following examples are included in this *Plan Update* as potential actions that could be initiated if the District, through the Board, determines recycling processing conditions in the District have deteriorated to an unacceptable level:

1. Whether the District should utilize designation and flow control to direct solid waste to a facility;
2. The District may issue a RFP for the design, construction and/or operation of a MRF;
3. The District may purchase an existing solid waste facility for the purpose of utilizing it for a MRF;
4. The District may seek the establishment of a privately owned, financed and operated MRF for Auglaize County with regulatory support by the District;
5. The District may operate a recycling transfer station where consolidated recyclables would be offered to either public or private sector processors or end users.

While it is highly likely that the District and the private sector will continue to serve the recycle processing needs of the District, the District reserves the right to respond in a timely fashion to changing market and/or management conditions without seeking a full amendment of the adopted *Plan Update*.

Table VI-1
Waste Management Methods Used and Processing Capacity Needed for Each
Year of the Planning Period

Year	Tons of SW Generated	Tons Source Reduced	Net Tons to be Managed	Management Method Used and Processing Capacity Required in TPY			
				Recycling	Transfer	Yard Waste Composting	Landfilling
2017	115,918	0	115,918	69,331	16,314	7,840	38,747
2018	116,491	0	116,491	69,971	14,787	7,840	38,680
2019	161,625	0	161,625	108,902	14,819	7,840	44,883
2020	249,869	0	249,869	185,113	14,936	7,840	56,916
2021	250,211	0	250,211	185,297	15,034	7,840	57,074
2022	250,555	0	250,555	185,494	15,124	7,840	57,221
2023	250,902	0	250,902	185,698	15,213	7,840	57,364
2024	251,251	0	251,251	185,912	15,296	7,840	57,498
2025	251,603	0	251,603	186,139	15,374	7,840	57,624
2026	251,953	0	251,953	186,377	15,443	7,840	57,736
2027	252,306	0	252,306	186,628	15,507	7,840	57,838
2028	252,662	0	252,662	186,892	15,563	7,840	57,930
2029	253,020	0	253,020	187,171	15,612	7,840	58,010
2030	253,381	0	253,381	187,464	15,654	7,840	58,077
2031	253,753	0	253,753	187,773	15,693	7,840	58,140
2032	254,128	0	254,128	188,099	15,724	7,840	58,189
2033	254,506	0	254,506	188,442	15,745	7,840	58,224
2034	254,886	0	254,886	188,803	15,757	7,840	58,243

Source(s) of information:

Tons of SW Generated - Table V-4

Tons Recycling and Yard Waste Composting - Tables V-5 and V-6

Tons Transferred - Table VI-2 and VI-3

Sample calculations:

2017 Net tons to be managed by SWMD = Tons of SW generated - tons source reduced
 115,918 tons = 115,918 tons - . tons

2017 Landfilling = Net tons to be managed by SWMD - (recycling + yard waste composting)
 38,747 tons = 115,918 tons - (69,331.02 tons + 7,840.11 tons)

Table VI-2
Summary for Residential/Commercial Waste Management Methods

Year	Tons Generated	Management Method in TPY			
		Recycling	Yard Waste Composting	Transfer	Landfilling
2017	41,695	9,817	7,840	14,787	24,039
2018	42,052	10,457	7,840	14,787	23,755
2019	42,412	10,622	7,840	14,819	23,949
2020	42,774	10,796	7,840	14,936	24,137
2021	43,116	10,980	7,840	15,034	24,295
2022	43,460	11,177	7,840	15,124	24,442
2023	43,806	11,381	7,840	15,213	24,585
2024	44,156	11,596	7,840	15,296	24,720
2025	44,508	11,822	7,840	15,374	24,845
2026	44,858	12,060	7,840	15,443	24,958
2027	45,211	12,311	7,840	15,507	25,060
2028	45,567	12,576	7,840	15,563	25,151
2029	45,925	12,854	7,840	15,612	25,231
2030	46,286	13,148	7,840	15,654	25,298
2031	46,658	13,457	7,840	15,693	25,361
2032	47,033	13,782	7,840	15,724	25,411
2033	47,411	14,125	7,840	15,745	25,445
2034	47,791	14,486	7,840	15,757	25,465

Source(s) of information:

Tons Generated - Table V-2

Recycling and Yard Waste Composting - Table V-5

Transfer - Table III-3

Sample calculations (2017):

Landfilling = Tons Generated - (Recycling + Yard Waste Composting)

24,039 tons = 41,695 tons - (9,816.58 tons + 7,840.11 tons)

Table VI-3
Summary for Industrial Waste Management Methods

Year	Tons Generated	Management Method in TPY		
		Recycling	Transfer	Landfilling
2017	66,991	59,514	1,449	7,477
2018	66,991	59,514	0	7,477
2019	111,541	98,280	0	13,262
2020	199,193	174,316	0	24,877
2021	199,193	174,316	0	24,877
2022	199,193	174,316	0	24,877
2023	199,193	174,316	0	24,877
2024	199,193	174,316	0	24,877
2025	199,193	174,316	0	24,877
2026	199,193	174,316	0	24,877
2027	199,193	174,316	0	24,877
2028	199,193	174,316	0	24,877
2029	199,193	174,316	0	24,877
2030	199,193	174,316	0	24,877
2031	199,193	174,316	0	24,877
2032	199,193	174,316	0	24,877
2033	199,193	174,316	0	24,877
2034	199,193	174,316	0	24,877

Source(s) of information:

Tons Generated - Table V-4

Tons Source Reduction & Recycling - Table V-6

Tons Transferred - Table III-3

Sample calculations (2017):

Landfilling = Tons Generated - Source Reduction & Recycling

7,477 tons = 66,991 tons - 59,514.44 tons

Table VI-4A
Waste Management Method: Landfill

Facilities Used by District	County	Average Daily Waste (Tons)	Remaining Capacity	Airspace		Tons of District SW Managed																		
				Gross (YD ³)	Net (tons)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
																								Years
Celina Sanitary Landfill	Mercer, OH	184	7.4	OEPA	428,450	372,752	20,322	20,290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cherokee Run Landfill	Logan, OH	1,847	24.1	OEPA	16,659,411	12,314,882	15	15	20,668.6	21,177.9	21,260.8	21,337.8	21,412.8	21,483.5	21,549.5	21,608.4	21,662.0	21,710.0	21,751.9	21,787.4	21,820.4	21,846.2	21,864.4	21,874.5
County Environmental of Wyandot	Wyandot, OH	883	122.7	OEPA	21,055,776	27,729,863	55	55	64	81	82	82	82	82	82.3	82.5	82.6	82.7	82.9	82.9	83.0	83.1	83.2	83.2
Evergreen Recycling & Disposal	Wood, OH	560	42	OEPA	8,291,900	5,215,605	8	8	9	12	12	12	12	12	12,501	12,526	12,548	12,568	12,585	12,600	12,613	12,624	12,631	12,636
Rumpke Waste Inc Hughes Rd Landfill	Hamilton, OH	5,610	9.8	OEPA	23,059,842	20,062,062	8,396	8,383	9,728	12,336	12,370	12,402	12,433	12,462	0	0	0	0	0	0	0	0	0	0
Hancock County Sanitary Landfill	Hancock, OH	511	31.9	OEPA	5,125,292	4,576,196	499	498	577.9	732.9	734.9	736.8	738.6	740.4	742.0	743.4	744.7	745.9	746.9	747.8	748.6	749.3	749.7	750.0
Defiance County Sanitary Landfill	Defiance, OH	468	56.8	OEPA	1,145,748	7,835,461	3	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Beech Hollow Landfill	Jackson, OH	866	103.13	OEPA	24,979,471	23,230,908	834	832	966	1,225	1,228	1,231	1,235	1,237	1,240	1,243	1,245	1,247	1,248	1,250	1,251	1,252	1,253	1,253
Tunnel Hill Reclamation Landfill	Perry, OH	4,044	17.1	OEPA	27,298,205	17,705,616	0	0	2,893	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700	8,700
South Side Landfill	Marion, IN	3,971	17.09	IDEM	38,862,577	31,828,451	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Jay County Landfill	Jay, IN	686	39.61	IDEM	14,174,975	11,609,305	8,604	8,591	9,969	12,641	12,677	12,709	12,741	12,771	12,799	12,824	12,846	12,867	12,884	12,899	12,913	12,924	12,932	12,936
Total					75,766,419	78,106,821	38,740	38,680	44,883	56,916	57,074	57,221	57,364	57,498	57,624	57,736	57,838	57,930	58,010	58,077	58,140	58,189	58,224	58,243

Source(s) of information:

2017 tons - Tables III-1 - III-3
 2017 tons - 2017 ADR Review Forms and IDEM Complete Solid Waste Quarterly Report Database
 2017 - 2034 tons - Table VI-1
 Projected value for each landfill is calculated as a ratio based on the 2017 distribution.
 2014 Indiana Municipal Solid Waste (MSW) Landfill Capacity & Life

Sample calculation:

$$2018 \text{ Celina Sanitary Landfill} \frac{\text{Celina Sanitary Landfill 2017}}{\text{Total 2017}} \times \text{Total 2018}$$

$$20,290 \text{ tons} = \frac{20,322 \text{ tons}}{38,740 \text{ tons}} \times 38,680 \text{ tons}$$

Table VI-4B
Waste Management Method: Incinerator

Facilities Used by District	Location	Tons of District SW Managed																	
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Indianapolis Resource Recovery	Marion, IN	6.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals		6.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

N/A=Not Available

Table VI-4C
Waste Management Method: Transfer

Facilities Used by District	County	Tons of District SW Managed																	
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Allen County Refuse Metcalf St Transfer Station	Allen, OH	834	756	757	763	768	773	777	782	786	789	792	795	798	800	802	804	805	805
Maharg Inc Solid Waste Transfer Facility	Mercer, OH	727.14	659	661	666	670	674	678	682	685	688	691	694	696	698	699	701	702	702
Montgomery Co. South Transfer Facility	Montgomery, OH	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Greenville Transfer & Scrap Tire Collection Facility	Darke, OH	7,993.88	7,246	7,262	7,319	7,367	7,411	7,454	7,495	7,533	7,567	7,598	7,626	7,650	7,671	7,690	7,705	7,715	7,721
Waste Management of Ohio - Lima	Allen, OH	6,755.31	6,123	6,137	6,185	6,225	6,263	6,299	6,334	6,366	6,395	6,421	6,445	6,465	6,482	6,498	6,511	6,520	6,525
Tradebe Treatment & Recycling	Lake, IN	3.34	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
EQ Industrial Services Processing Facility	Marion, IN	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Medassure of Indiana Treatment Facility	Marion, IN	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
Total		16,314	14,787	14,819	14,936	15,034	15,124	15,213	15,296	15,374	15,443	15,507	15,563	15,612	15,654	15,693	15,724	15,745	15,757

Source(s) of information:

2017 Tons by Facility - Table III-3

Total Tons - Table VI-1

Table VI-4D
Waste Management Method: Recycling

Facilities Used by District	Area Served	Tons of District SW Managed																	
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
OmniSource Indian Lake/Logan Co Midtown Pallets Commercial Waste Safety Kleen Marinor Shred Allen County Pallet B&G Recycling Windsors Langston Pallet Franklin Iron and Steel River Valley Auglaize Pallet Advanced Plastic Recycling Urban Elsass & Sons Capabilities Holland Freight Accushred Montgomery Paper Ivan Vanderson, Bob Sawmiller Midwest Iron and Metal Co Enviro Tire Recycling Liberty Tire Service of Ohio Porter Tire Center Inc R&R Tire Disposal L&O Tire Auglaize County MRF Rumpke Recycling - Dayton Ohio Recycling Allen County Recycling Walmart Lowe's Dollar General Kohl's Kroger USPS ALDI HHW Year-Round Collection LAB and Household Battery Used Oil Collection Annual Appliance Collection Event Scrap Tire Annual Collection Event Other recycling facilities used by the residential/commercial and industrial sectors	5,695	5,748	8,946	15,206	15,221	15,237	15,254	15,272	15,290	15,310	15,330	15,352	15,375	15,375	15,375	15,375	15,375	15,375	
	30	30	46	79	79	79	79	79	79	79	79	80	80	80	80	80	80	80	
	40	40	62	106	106	106	106	106	107	107	107	107	107	107	107	107	107	107	
	6	6	10	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	4	4	6	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	16	16	24	41	41	41	41	42	42	42	42	42	42	42	42	42	42	42	
	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	
	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	501	506	787	1,338	1,339	1,340	1,342	1,343	1,345	1,347	1,349	1,351	1,353	1,353	1,353	1,353	1,353	1,353	
	40	40	63	107	107	107	107	107	107	108	108	108	108	108	108	108	108	108	
	30	31	48	81	81	81	81	81	82	82	82	82	82	82	82	82	82	82	
	38	38	60	101	101	101	101	102	102	102	102	102	102	102	102	102	102	102	
	42	42	66	112	112	112	112	113	113	113	113	113	113	113	113	113	113	113	
	115	116	181	307	307	308	308	308	309	309	309	310	310	310	310	310	310	310	
	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	204	206	321	545	545	546	547	547	548	549	549	549	550	551	551	551	551	551	
19	20	31	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52		
13	13	20	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
38	38	59	100	100	100	100	100	101	101	101	101	101	101	101	101	101	101		
218	220	342	581	582	582	583	584	584	585	585	586	587	588	588	588	588	588		
269	271	422	718	718	719	720	721	722	723	724	725	726	726	726	726	726	726		
56	57	89	151	151	151	151	151	152	152	152	152	152	153	153	153	153	153		
1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
4,160	4,198	6,534	11,107	11,118	11,130	11,142	11,155	11,169	11,183	11,198	11,214	11,231	11,231	11,231	11,231	11,231	11,231		
130	131	204	347	347	348	348	349	349	349	350	350	351	351	351	351	351	351		
237	240	373	634	634	635	636	636	637	638	639	640	641	641	641	641	641	641		
115	116	181	307	307	308	308	308	309	309	309	310	310	310	310	310	310	310		
496	500	778	1,323	1,324	1,326	1,327	1,329	1,330	1,332	1,334	1,336	1,338	1,338	1,338	1,338	1,338	1,338		
109	110	171	290	290	291	291	291	292	292	292	292	293	293	293	293	293	293		
149	151	234	399	399	399	400	400	401	401	401	402	402	403	403	403	403	403		
75	76	118	201	201	201	202	202	202	202	203	203	203	203	203	203	203	203		
395	399	621	1,056	1,056	1,057	1,058	1,060	1,061	1,062	1,064	1,065	1,067	1,067	1,067	1,067	1,067	1,067		
49	50	77	131	132	132	132	132	132	132	132	133	133	133	133	133	133	133		
113	114	178	302	302	303	303	303	304	304	304	304	305	305	305	305	305	305		
DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR		
DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR		
DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR		
DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR		
DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR		
51	51	80	136	136	136	136	136	137	137	137	137	137	137	137	137	137	137		
Auglaize	Auglaize	55,545	56,061	87,435	148,852	149,000	149,159	149,323	149,496	149,679	149,871	150,073	150,286	150,510	150,510	150,510	150,510	150,510	
Total		69,331	69,971	108,902	185,113	185,297	185,494	185,698	185,912	186,139	186,377	186,628	186,892	187,171	187,171	187,171	187,171	187,171	

Source(s) of information:

The total recycled is from Table VI-1.
Projected value for each Recycling Facility is calculated as a ratio based on the 2017 distribution

Sample calculation:

$$\text{OmniSource Recycling 2018} = \frac{2017 \text{ OmniSource Recycling}}{2017 \text{ Total}} \times \text{Total 2018}$$

$$= \frac{5,695 \text{ tons}}{69,331 \text{ tons}} \times 69,971 \text{ tons}$$

Table VI-4E
Waste Management Method: Composting

Facilities Used by District	County	Tons of District SW Managed												
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Village of Minster Utilities Building	Auglaize	86	86	86	86	86	86	86	86	86	86	86	86	86
Saint Marys Composting Facility	Auglaize	2,264	2,264	2,264	2,264	2,264	2,264	2,264	2,264	2,264	2,264	2,264	2,264	2,264
Wapakoneta Composting Facility*	Auglaize	1,748	1,748	1,748	1,748	1,748	1,748	1,748	1,748	1,748	1,748	1,748	1,748	1,748
Brookside Wood Products**	Mercer	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062	1,062
Roe Transportation Inc	Shelby	652	652	652	652	652	652	652	652	652	652	652	652	652
Hauler and Grocer Food Waste Data	Auglaize	0	0	0	0	0	0	0	0	0	0	0	0	0
Village of Cridersville	Auglaize	14	14	14	14	14	14	14	14	14	14	14	14	14
Village of New Knoxville	Auglaize	75	75	75	75	75	75	75	75	75	75	75	75	75
Village of New Bremen	Auglaize	1,940	1,940	1,940	1,940	1,940	1,940	1,940	1,940	1,940	1,940	1,940	1,940	1,940
Total		7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840

Source(s) of information:

2017 tons - Table III-6
2017 tons - 2017 Annual District Report survey data
2017 - 2034 tons - Table VI-1

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Curbside Recycling	AC-1	New Knoxville, St. Marys, Wapakoneta	Wapakoneta, St. Marys, and New Knoxville operate Pay-As-You-Throw (PAYT) programs for waste disposal in conjunction with non-subscription curbside recycling programs. These programs are expected to continue operating.	Ongoing	Ongoing
Initiative AC-1.1: Improving St. Marys' Curbside Program			The District will work with City officials to improve the efficiency of the curbside program. One of the District's goals is to expand the materials collected by St. Marys' program to include flattened cardboard. The District will also focus on increasing the quantity of recyclables residents are permitted to set out at the curb.	2020	2022
Initiative AC-1.2: Improving Communities' Recycling Information			The District will work with curbside recycling communities to present comprehensive recycling information for residents. This information can be stored on the District's website and/or on each of the communities' websites.	2020	2022
Drop-Off Recycling	AC-2	District-wide	The District operates full-time and part-time drop-off recycling centers throughout Auglaize County. Locations accept, at a minimum, tin/steel, aluminum, glass, #1-#2 plastics, newspaper, mixed paper, and cardboard. The part-time drop-off schedule is posted in the newspaper each week and available on the website. Special collections are held at drop-offs on a regular basis and accept electronics, shoes, holiday lights, and oil (at select locations). The District coordinates volunteer groups to work at special collections. Groups earn money for their non-profit or club by assisting with special collection events.	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Cridersville, Tower Park	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Buckland Recycling, Old Tile Mill	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	New Bremen, Herman Street	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Auglaize County MRF Drop-off	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	St. Marys Township, State Route 364	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Minster Recycling, Garfield Street	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Salem, OH 197	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Waynesfield, Wayne Street	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	Wapakoneta, N. Water Street	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Drop-Off Recycling	AC-2	New Knoxville, Industrial Drive	Drop-Off Recycling Program (see description above).	Ongoing	Ongoing
Initiative AC-2.1: Adding a Drop-Off Site			The District will begin operating a part-time drop-off in the southeastern portion of Auglaize County to extend service to underserved rural populations.	2020	2024
Initiative AC-2.2: Drop-Off Recycling Messaging			The District will work with its education program and web site platform to better communicate and develop clear messaging on participation in the program.	2018	2024
Yard Waste Management	AC-3	District-wide	Registered composting facilities and collection activities operated by private and public sector entities are expected to continue operating.	Ongoing	Ongoing
Special Waste Management and Services	AC-4	District-wide	For the new plan update will combined the following categories of special waste into one program. • Household Hazardous Waste (HHW) Management • Scrap Tire Recycling • Battery Collection • Used Oil Collection • Appliance Recycling	2019	2034
Household Hazardous Waste Management	AC-4a	District-wide	The District provides, at a minimum, at least one annual HHW collection event for residents. Used oil is accepted on a regular basis at multiple locations throughout the District. Education about proper HHW management is included in the fair display and occasionally posted on the website.	Ongoing	Ongoing
Scrap Tire Recycling	AC-4b	District-wide	The District accepts tires for a minimal fee at the annual HHW Day and for no cost during the annual Tire Amnesty Day (dependent upon receiving grant funding). Many businesses throughout the District accept tires from patrons when new tires are purchased.	Ongoing	Ongoing

Table VI-5 (Continues)
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Battery Collection	AC-4c	District-w ide	Lead-acid batteries and household batteries are accepted during HHW collection events and regularly scheduled special collection events held at drop-off recycling sites. Private sector businesses throughout the District that sell auto-batteries are also expected to continue operating and accepting LABs for recycling. In 2018, the drop-off sites where batteries were collected was reduced from seven to three sites due to the sites not being staffed. The District needs to charge for batteries based on vendor costs. Any un-staffed recycling drop-off site cannot accept batteries as the ability to collect the user fee is not possible.	Ongoing	Ongoing
Used Oil Collection	AC-4d	District-w ide	Used oil is collected at the Cridersville and Wapakoneta full service drop-off sites and at St. Marys City Water Distribution building on weekdays from 8AM to 3PM. Auto parts stores and service stations that also accept used motor oil from the public are expected to continue operating.	Ongoing	Ongoing
Appliance Recycling	AC-4e	District-w ide	The District will hold at least one appliance collection event annually. Appliances containing Freon will be accepted for a fee.	Ongoing	Ongoing
Special Event Recycling	AC-5	District-w ide	The District will continue to provide special event recycling at special community events. Recycling collection bins and material pick-ups will be coordinated by the Auglaize County Recycling Center.	Ongoing	Ongoing
School Recycling	AC-6	Wapakoneta, St. Marys, Cridersville, New Bremen, New Knoxville, Minster, Waynesfield-Goshen SD	The District provides weekly recyclables collection for schools and school districts throughout Auglaize County. The District provides recycling containers for athletic events and end-of-year locker clean outs.	Ongoing	Ongoing
Special Collection Routes	AC-7	District-w ide	The District collects recyclables from county government offices, the State Highway Patrol, Grand Lake St. Marys State Park office, and the airport. Recycling collection at city offices and other special locations within the cities of St. Marys and Wapakoneta are provided by municipal collection crews.	Ongoing	Ongoing
Initiative AC-7.1: Special Collection Route Education			The District will develop a brochure/handout that can be mass produced with the purpose of providing copies to all employees of the special collection routes on an annual basis. The brochure/handout will provide details on the program including what is recyclable along with tips on reducing waste.	2020	2034
Glass Bar Program	AC-8	District-w ide	This new program will allow the increase in participation of businesses (such as bars and restaurants) which produce higher quantities of glass material. The District previously serviced 6-10 sites in 2017 and 2018 on a trial basis. Starting in 2020 and beyond, the District wishes to expand the trial program to additional bars and restaurants.	2020	2034
Aluminum Buyback Program	AC-9	Auglaize County	This new program will allow residents to bring aluminum materials (primarily aluminum cans) to the Auglaize County Material Recovery Facility and receive a per pound cash amount for the buyback material. This program is meant to incentivize residents to bring aluminum materials to the Auglaize County Material Recovery Facility.	2022	2034
Recycling and Market Development Grant Program	AC-10	Auglaize County	For the new plan update will combined the following categories of funding into one program. • Buy Recycled • Recycling Opportunities Fund	2020	2034
Initiative AC-10.1: Buy Recycled Grant			The District will implement and promote a competitive "Buy Recycled" grant for educational facilities, non-profits, and small businesses. Criteria for grant funding may include a priority for projects that will also increase recycling in the community. Items purchased with grant funding must contain a minimum of 15% recycled materials.	2020	2034
Initiative AC-10.2: Grant Funding Technical Assistance			The District will identify alternative funding sources for grant money, such as Keep America Beautiful and Ohio EPA. The District will promote funding opportunities to Auglaize County political subdivisions and provide technical assistance on grant applications to communities seeking funds. Entities that receive grant funding will be required to report recycling quantities to the District annually. The District will conduct an on-site follow-up visit with grant recipients after materials are purchased to ensure that items purchased using grant money are being properly utilized.	2020	2034
Volunteer Recycling Assistance Group Grants	AC-11	Auglaize County	The District coordinates volunteer groups to work at many of the special collections held at drop-off recycling sites. In exchange for volunteering, the District provides funding to the club or non-profit organization.	Ongoing	Ongoing

Table VI-5 (Continued)
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Education and Awareness	AC-12	Auglaize County	The District provides a variety of activities and materials to raise awareness and promote recycling and waste reduction. The District accomplishes this through an education specialist, school presentations, civic presentations, displays at events, contests, publicity and advertising, maintaining an updated website, drop-off recycling education, and commercial/industrial technical assistance.	Ongoing	Ongoing
Initiative AC-12.1: Promoting District Presentations			The District will add information to its website about how to request civic or classroom presentations. The District will also send out annual letters to civic groups promoting the environmental education offered by the District.	2020	2034
Initiative AC-12.2: Quarterly Newspaper Articles			The District has an excellent working relationship with local newspapers. The local newspapers run recycling schedules and articles for no cost to the District when space is available. The District will increase the quantity of informational articles regarding recycling and waste reduction in the paper. At a minimum, the District will run an informational article on a quarterly basis.	2020	2034
Initiative AC-12.3: Educator Contract			The District will work with Mercer County in 2019 to address the impending retirement of the Environmental Educator to ensure the program continues into the planning period.	2019	2019
Initiative AC-12.4: Messaging			The District will work on improving messaging regarding recycling program and special event participation. The District has made strides in this area with new brochure development and minor improvements to the web site.	2020	2034
Curbside and Pay-As-You-Throw Technical Assistance	AC-13	Auglaize County	The District promotes curbside recycling and PAYT to communities and offers technical assistance to any political subdivision interested in implementing curbside and/or a PAYT collection system.	Ongoing	Ongoing
Initiative AC-13.1: Targeted Curbside Promotion			The District will identify areas within Auglaize County that could be candidates for a curbside recycling program based on population density. The District will attempt to meet with administrative officials in identified areas to encourage a curbside recycling program and provide technical assistance on launching a curbside recycling if needed.	2020	2034
Annual Surveying	AC-14	Auglaize County	Annually, the District surveys commercial and industrial businesses and other institutions located in Auglaize County to obtain information on solid waste disposal and recycling quantities, as well as other information to assist the District in its future planning efforts.	Ongoing	Ongoing
Auglaize County Material Recovery Facility	AC-15	Auglaize County	The District owns and operates the Auglaize County Material Recovery Facility. The facility processes materials from the District drop-offs, collection routes, and the St. Marys and Wapakoneta municipal curbside recycling programs. The Center hosts a full-service drop-off recycling location.	Ongoing	Ongoing
Initiative AC-15.1: MRF Evaluation			The District will continue to evaluate its current facility to address the challenges listed above and explore a number of small and medium-scale improvements to the existing facility, some of which are already in process.	2023	2024
General Plan Implementation	AC-16	Auglaize County	The District will deposit funding annually into a fund that will be used to enhance existing programs or establish new programs that are consistent with the goals outlined in this Plan Update. This would include waste reduction and recycling programs, special collection programs, organics management and collection programs, disaster management programs, grants, revolving loans, litter and open dump cleanups needing additional funding, District staffing, administrative costs and enforcement programming. Eligible initiatives for funding under this program may also include implementation of recommendations resulting from the MRF evaluation if not funded under Program AC-25. Plans to use funding from this budget must be approved by the Policy Committee.	2020	2034
DIY Waste Audit and Waste Reduction Resources	AC-17	Auglaize County	The District will develop a do-it-yourself (DIY) waste audit kit for industrial and commercial businesses. The DIY kit will be available on the District's website. Additional resources pertinent to industrial and commercial waste reduction will also be added to the District's website.	2020	2034

**Table VI-6
Facilities Identified and Current Designations**

Facilities Identified	
Recycling and Composting Facilities	
All recycling and composting facilities presented in the tables in Section III are identified for the purposes of this Plan Update.	
Designated Facilities - ORC 343.14	
Name	Location
None	N/A

VII. Measurement of Progress Toward Waste Reduction Goals [ORC Section 3734.53(A)]

The Ohio EPA *1995 State Plan* establishes seven goals solid waste management districts (SWMDs) are required to achieve in their solid waste management plans. These goals are as follows.

Goal #	Description
#1	Ensure the availability of reduction, recycling and minimization alternatives for municipal solid waste by ensuring 90% of residents have access to curbside and drop-off programs. The District must also demonstrate that there are adequate opportunities for industrial businesses to recycle.
#2	Reduce and/or recycle at least 25% of the total waste generated by the residential/commercial sector and 50% of the total waste generated by the industrial sector.
#3	Provide informational and technical assistance on source reduction.
#4	Provide informational and technical assistance on recycling, reuse, and composting opportunities.
#5	Strategies for scrap tires and household hazardous wastes.
#6	Annual reporting of plan implementation.
#7	Market development strategy (optional).

SWMDs are encouraged to meet Goal #1 and Goal #2, but are only required to demonstrate compliance with one goal or the other. Goals #3 through #6 are mandated goals to which SWMDs must demonstrate compliance, and Goal #7 is optional. This section will cover the goal selected by the District, its progress toward achieving the goal, and plans to maintain compliance throughout the planning period.

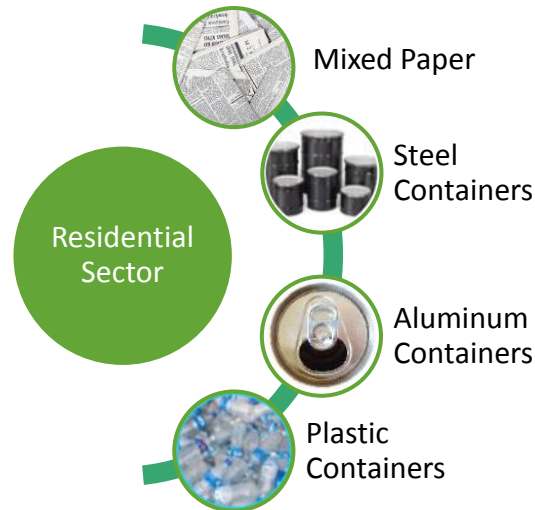
A. Compliance with Goal #1

The District will continue to comply with Goal #1 of the *1995 State Plan*, which states that the District will ensure the availability of recycling and other waste reduction methods that are alternatives to landfilling for residential/commercial solid waste.

B. Demonstration of Compliance with Goal #1

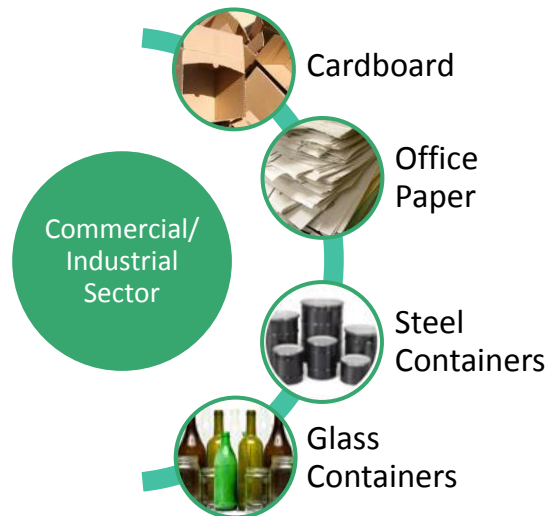
Table VII-1, "Materials Designated to Demonstrate Compliance with Goal #1," presents four materials designated for the residential sector and four materials designated for the commercial/industrial sector. The four materials designated for the residential sector are newspaper, steel containers, aluminum containers, and plastic containers.

Designated Materials for the Residential Sector



The four materials designated for the commercial/institutional sector are cardboard, office paper, steel containers, and aluminum containers.

Designated Materials for Commercial/Institutional Sector



1. Residential Sector

The Plan Format prescribes a formula for solid waste management districts to use to determine the percentage of the population which has access to curbside and drop-off recycling services. The types of services offered within the District are listed below and include an explanation of the population credit assigned to each type of service.

Non-Subscription Curbside Recycling

A solid waste district receives 100% population credit when all residential single-family households receive curbside recycling service. In order to qualify, all residents must receive the curbside recycling service whether they use the service or not. Typically, payment for the service is made by the resident to the political subdivision or directly to the hauler or by the political subdivision through local taxes. Non-subscription curbside recycling is defined as a recycling program that is either contracted and paid for by a political jurisdiction, or a program in which the resident does not pay separately for curbside collection.

Subscription Curbside Recycling

A solid waste district receives 25% population credit when a subscription service is offered by waste haulers operating in the political subdivision. Subscription curbside recycling is a service that is paid directly by the resident similar to a magazine subscription. The resident chooses to subscribe to a hauler that provides the recycling service. The credit for subscription service can be higher than 25% if the District can demonstrate that more than 25% of households participate in the subscription service.

Recycling Drop-Offs

Each full-time recycling drop-off located in an urban area is credited with serving 5,000 persons. Full-time recycling drop-offs in rural areas are credited with serving 2,500 persons per location.

Rural areas are defined as any municipality or township with less than 5,000 in population. An urban area is defined as any municipality or township equal to or greater than 5,000 in population.

A full-time drop-off is a site that is open to the public at least 40 hours per week which manages the four materials designated for the residential sector (newspaper, steel, aluminum, and plastic).

A part-time drop-off is a site that is open to the public less than 40 hours per week; however, the site is available at a regularly scheduled time at least once per month. Part-time drop-offs must also handle the four materials designated for the residential sector in order to receive a population credit. A credit for serving 2,500 persons can be counted for each rural drop-off.

a. Service Area

The service area includes all incorporated and unincorporated areas within Auglaize County.

Service Area	Reference Year Population (2017)	First Year of Planning Period Population (2020)
Auglaize County	45,778	45,590

b. Access

Residents in the District have access to waste reduction and recycling services through non-subscription curbside recycling and the drop-off recycling program. Table VII-2 presents the access credit calculations for the District during the 2017 reference year and 2020, the first year of the planning period. Table VII-2 assumes that the infrastructure will remain mostly the same as the reference year; the only change is that St. Marys Volunteer Recycling drop-off closed in February of 2017. The following section will discuss the residents with access to non-subscription curbside recycling and the drop-off recycling program.

Curbside Recycling Access Results

There were three non-subscription curbside recycling programs operating in 2017. These programs are expected to still be in operation during 2020. The following table presents a summary of the population with access to curbside recycling.

Curbside Recycling Population Access

Service Area	2017 Curbside Recycling Access	2020 Curbside Recycling Access
Auglaize SWMD	18,798	18,685
Access Percentage	41%	41%

Drop-Off Recycling Access Results

In 2017, there were six full-time and four part-time drop-offs located throughout the District. During 2017, one part-time drop-off closed (St. Marys Volunteer Recycling). Drop-offs are open to anyone in the District. The drop-offs accepted the minimum four materials designated for the residential sector as highly amenable to recycling, as well as additional materials. All District drop-offs accepted mixed

paper, cardboard, aluminum cans, glass containers, newspaper, plastic containers #1-2, and steel cans. The following table presents a summary of the population with access to recycling drop-offs.

Full-Time Drop-Off Recycling Access

Service Area	2017 Drop-Off Recycling Access	2020 Drop-Off Recycling Access
Auglaize SWMD	25,000	30,000
Access Percentage	55%	66%

Part-Time Drop-Off Recycling Access

Service Area	2017 Drop-Off Recycling Access	2020 Drop-Off Recycling Access
Auglaize SWMD	10,000	5,000
Access Percentage	22%	11%

Overall Recycling Access Results

The following table presents a summary of the overall access credits for the District during the reference year and the first year of the planning period.

Overall Recycling Access

Service Area	Reference Year Access (2017)	First Year of Planning Period Access (2020)
Auglaize SWMD	41,200	46,185
Access Percentage	118%	118%

Access calculations that exceed 100% indicate that residents may have access to multiple recycling opportunities, such as non-subscription curbside recycling and a full-time drop-off, or multiple drop-offs.

The curbside recycling program and all of the drop-off locations that operated during the reference year are expected to continue through the first year in the planning period except for the St. Marys Volunteer recycling location. The District will continue to exceed the goal of providing 90% of the population with access to recycling programs in 2020.

c. Participation

The strategies identified in Sections IV and V address the requirements for education and awareness to demonstrate participation. The District will continue to conduct education and awareness programs as planned. The existing education and community awareness programs that meet or exceed State Plan requirements include the following:

- The District website
- The District Facebook page
- Advertisements and Publicity
- School and Civic Presentations
- District Displays
- Contests
- Drop-Off Recycling Education

d. Financial Incentives

In addition to the education and awareness programs articulated in this *Plan Update*, the District provides a variety of financial incentives that encourage recycling. The District provides a Recycling Opportunities Fund for communities that apply for grant funding for promoting recycling opportunities that increase program participation. Additionally, Volunteer Recycling Assistance Group Grants are made available for volunteer groups who work at many of the special collections at drop-off sites.

2. Commercial/Institutional Sector

Solid waste management districts must demonstrate that commercial and industrial generators have access to recycling or other alternative management methods for at least four materials identified in the *1995 State Solid Waste Management Plan* as being highly amenable to recovery from solid waste generated by commercial and industrial generators.

a. Service Area

The service area includes all political jurisdictions within Auglaize County.

b. Access

Methods of providing access for commercial/industrial entities include hauler pickup and drop-off (or buyback) availability. The

District designated four materials as highly amenable to recycling for the commercial and industrial sectors including cardboard, office paper, steel containers, and glass containers.

Districts must demonstrate at least one of the following collection options:

- At least one drop-off or buyback available.
- Haulers which will pick up recyclables for a fee or at no charge.
- At least one MRF receiving commercial/industrial waste and recovering recyclables from waste received.

The District's drop-offs are publicly available and open to commercial and industrial generators. Drop-off centers accept all of the required materials that are designated as highly amenable to recycling for the commercial/industrial sector.

The following tables present haulers and drop-off locations that provide District businesses and industries with opportunities to recycle each of the four materials designated for the commercial and industrial sectors.

Cardboard Access Demonstration

Service Area	Recycling Opportunities
Auglaize SWMD	District drop-offs, Indian lake/Logan Co, Commercial Waste, Minster Boy Scouts, River Valley, Montgomery Paper, Auglaize County Recycling Center, Rumpke Recycling-Dayton, Ohio Recycling, Allen County Recycling

Office Paper Access Demonstration

Service Area	Recycling Opportunities
Auglaize SWMD	District drop-offs, Indian lake/Logan Co, Marimor Shred, River Valley, Capabilities, AccuShred, Montgomery Paper, Auglaize County Recycling Center, Rumpke Recycling-Dayton, , Ohio Recycling

Steel Containers Access Demonstration

Service Area	Recycling Opportunities
Auglaize SWMD	District drop-offs, Auglaize County Recycling Center

Glass Containers Access Demonstration

Service Area	Recycling Opportunities
Auglaize SWMD	District drop-offs, Auglaize County Recycling Center

Information on recycling opportunities to the commercial and industrial sectors was obtained through surveying.

c. Participation

Education and Awareness

The education and awareness programs articulated in Sections IV and V of this *Plan Update* address this requirement. The District's Commercial/Industrial Technical Assistance program assists commercial and industrial establishments with identifying opportunities for maximizing waste diversion and developing customized strategies for implementing or expanding recycling activities.

C. Targets for Reduction and Recycling

1. Residential and Commercial Sectors

Table VII-3, "Annual Rate of Waste Reduction: Residential/Commercial Waste", presents the methods used to reduce waste and the annual waste reduction rates for residential and commercial waste. The District's residential/commercial sector had a waste reduction rate of 42% in the reference year (2017). Waste reduction is projected to increase to 47% by the end of the planning period (2034) due to historical recycling rates in Auglaize County. The following figure presents the District's residential/commercial waste reduction projections throughout the planning period.

District Residential/Commercial Waste Reduction: 2017-2034



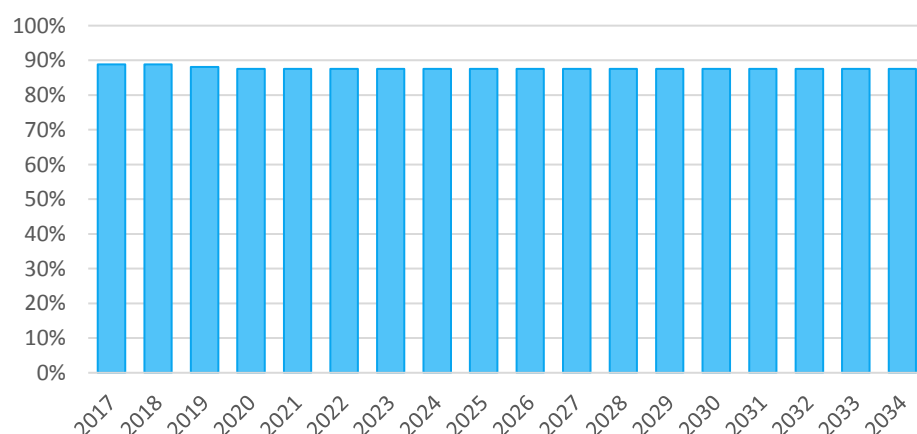
In 2017, the overall per capita waste reduction rate was 2.11 pounds per person per day (PPD). The per capita waste reduction rate is projected to stay the same at 2.76 PPD through 2034.

2. Industrial Sector

Table VII-4, “Annual Rate of Waste Reduction: Industrial Waste,” presents the annual waste reduction rate for industrial waste. The District’s industrial sector had a waste reduction rate of 89% in the reference year (2017). The waste reduction rate is projected to decrease to 88% by the end of the planning period (2034) due to new industries moving to the District in upcoming years.

The following figure presents the District’s industrial waste reduction projections throughout the planning period. In 2017, the per capita waste reduction rate was 7.12 PPD. The per capita waste reduction rate is projected to be 21.53 PPD in 2034.

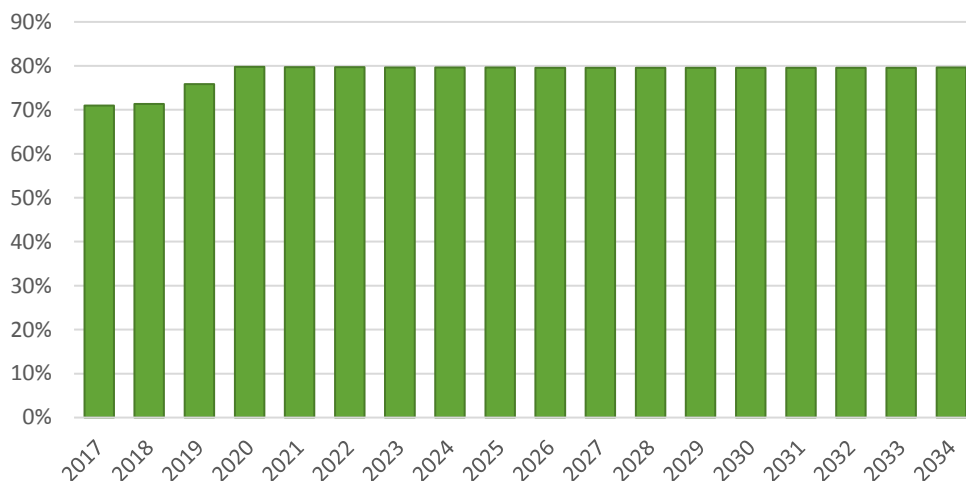
District Industrial Waste Reduction: 2017-2034



3. District Totals

Table VII-5, “Annual Rate of Waste Reduction: Total District Solid Waste”, presents annual waste reduction rates for the residential/commercial and industrial sectors. The District’s waste reduction rate for the reference year (2017) was 71% and is expected to be 80% by the end of the planning period. The following figure presents the District’s total waste reduction percentage throughout the planning period.

District Total Waste Reduction Percentage: 2017-2034



Daily per capita waste reduction rates are expected to increase initially from 9.24 PPD in 2017 to 24.029 PPD in 2034.

Table VII-1
Materials Designated to Demonstrate Compliance with Goal #1

Materials Highly Amenable to Recycling	Four Materials Designated for the Residential Sector	Four Materials Designated for the Commercial/Industrial Sector
Corrugated cardboard		x
Office paper		x
Newspaper	x	
Glass containers		x
Steel containers	x	x
Aluminum containers	x	
Plastic containers	x	
Wood packaging & pallets		
Lead-acid batteries		
Major appliances		
Yard wastes		
Totals	4	4

**Table VII-2
Calculation of Access for Residential Sector**

Program	Reference Year (2017)		Year 2020	
	2017 Population	Population with Access	2020 Population	Population with Access
Non-Subscription Curbside				
New Knoxville	865	865	860	860
St. Marys	8,151	8,151	8,102	8,102
Wapakoneta	9,782	9,782	9,723	9,723
Subtotal Non-Subscription Curbside		18,798		18,685
Subscription Curbside				
None	0	0	0	0
Subtotal Subscription Curbside		0		0
Full-Time Drop-Off				
Tower Park	1,814	2,500	1,803	2,500
Buckland Recycling, Old Tile Mill	9,782	5,000	9,723	5,000
New Bremen, Herman Street	2,973	2,500	2,955	2,500
St Marys Township, State Route 364	10,801	5,000	10,736	5,000
Waynesfield, Wayne Street	831	2,500	826	2,500
New Knoxville, Industrial Drive	865	2,500	860	2,500
Auglaize County MRF Drop-Off	10,801	5,000	10,736	5,000
Wapakoneta, N. Water Street	9,782	0	9,723	5,000
Total Full-Time Drop-Off		25,000		30,000
Part-Time Drop-Off				
Minster Recycling, Garfield Street	2,828	2,500	2,811	2,500
St. Marys Volunteer Recycling	865	2,500	0	0
Wapakoneta, N. Water Street	9,782	2,500	9,723	0
Salem, OH 197	490	2,500	487	2,500
Total Part-Time Drop-Off		10,000		5,000
Total Population With Access		53,798		53,685
District Population		45,778		45,502
90% of District Population		41,200		40,952
Additional Population Needing Access		-12,598		-12,733
Access Percentage		118%		118%

¹ The "Total Population with Access" has been set equal to the District population since the sum of access credits for curbside programs and drop-offs results in an access percentage greater than 100 percent.

Note: Wapakoneta, N. Water Street drop-off turned full-time March 2018

Table VII-3
Annual Rate of Waste Reduction: Residential/Commercial Waste

Year	Recycling	Composting	Landfill	Total Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (PPD)
2017	9,817	7,840	24,039	17,657	45,778	42%	2.11
2018	10,457	7,840	23,755	18,297	45,715	44%	2.19
2019	10,622	7,840	23,949	18,462	45,653	44%	2.22
2020	10,796	7,840	24,137	18,637	45,590	44%	2.24
2021	10,980	7,840	24,295	18,820	45,502	44%	2.27
2022	11,177	7,840	24,442	19,018	45,414	44%	2.29
2023	11,381	7,840	24,585	19,221	45,326	44%	2.32
2024	11,596	7,840	24,720	19,436	45,238	44%	2.35
2025	11,822	7,840	24,845	19,662	45,150	44%	2.39
2026	12,060	7,840	24,958	19,901	45,058	44%	2.42
2027	12,311	7,840	25,060	20,151	44,966	45%	2.46
2028	12,576	7,840	25,151	20,416	44,874	45%	2.49
2029	12,854	7,840	25,231	20,694	44,782	45%	2.53
2030	13,148	7,840	25,298	20,988	44,690	45%	2.57
2031	13,457	7,840	25,361	21,297	44,606	46%	2.62
2032	13,782	7,840	25,411	21,622	44,522	46%	2.66
2033	14,125	7,840	25,445	21,965	44,438	46%	2.71
2034	14,486	7,840	25,465	22,327	44,354	47%	2.76

Note: Columns for incineration have not been included in this table since the District has not used this management method for solid waste.

Source(s) of information:

Recycling, composting, incineration, and landfill tonnage - Table VI-2

Gross incineration and waste reduction via incineration - Table VI-1

Population - Table V-1

Sample calculations (2017):

Recycling + composting = Total waste reduction

9,817 tons + 7,840 tons = 17,656.69 tons

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate

17,657 tons / (17,657 tons + 24,038.71 tons) x 100 = 42%

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate

(17,657 tons x 2,000 pounds) / (45,778 x 365) = 2.11 lbs/day

Table VII-4
Annual Rate of Waste Reduction: Industrial Waste

Year	Recycling	Landfill	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (PPD)
2017	59,514	7,477	45,778	89%	7.12
2018	59,514	7,477	45,715	89%	7.13
2019	98,280	13,262	45,653	88%	11.80
2020	174,316	24,877	45,590	88%	20.95
2021	174,316	24,877	45,502	88%	20.99
2022	174,316	24,877	45,414	88%	21.03
2023	174,316	24,877	45,326	88%	21.07
2024	174,316	24,877	45,238	88%	21.11
2025	174,316	24,877	45,150	88%	21.16
2026	174,316	24,877	45,058	88%	21.20
2027	174,316	24,877	44,966	88%	21.24
2028	174,316	24,877	44,874	88%	21.29
2029	174,316	24,877	44,782	88%	21.33
2030	174,316	24,877	44,690	88%	21.37
2031	174,316	24,877	44,606	88%	21.41
2032	174,316	24,877	44,522	88%	21.45
2033	174,316	24,877	44,438	88%	21.49
2034	174,316	24,877	44,354	88%	21.53

Source(s) of information:

Recycling and landfill data - Table VI-3

Population - Table V-1

Sample calculations (2017):

$$\text{Recycling} \div (\text{recycling} + \text{landfill}) \times 100 = \text{Waste reduction rate}$$

$$59,514 \text{ tons} / (59,514 \text{ tons} + 7,476.75 \text{ tons}) \times 100 = 89\%$$

$$\text{Recycling} \times 2,000 \text{ pounds} \div (\text{district population} \times 365 \text{ days}) = \text{Per capita waste}$$

$$(59,514 \text{ tons} \times 2,000 \text{ pounds}) / (45,778 \times 365) = 7.12 \text{ lbs/day}$$

Table VII-5
Annual Rate of Waste Reduction: Total District Solid Waste

Year	Recycling	Composting	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate	Per Capita Waste Reduction Rate (lb/day)
2017	69,331	7,840	31,515	77,171	45,778	71%	9.24
2018	69,971	7,840	31,232	77,811	45,715	71%	9.33
2019	108,902	7,840	37,211	116,742	45,653	76%	14.01
2020	185,113	7,840	49,014	192,953	45,590	80%	23.19
2021	185,297	7,840	49,172	193,137	45,502	80%	23.26
2022	185,494	7,840	49,319	193,334	45,414	80%	23.33
2023	185,698	7,840	49,462	193,538	45,326	80%	23.40
2024	185,912	7,840	49,596	193,753	45,238	80%	23.47
2025	186,139	7,840	49,722	193,979	45,150	80%	23.54
2026	186,377	7,840	49,834	194,217	45,058	80%	23.62
2027	186,628	7,840	49,937	194,468	44,966	80%	23.70
2028	186,892	7,840	50,028	194,732	44,874	80%	23.78
2029	187,171	7,840	50,108	195,011	44,782	80%	23.86
2030	187,464	7,840	50,175	195,304	44,690	80%	23.95
2031	187,773	7,840	50,238	195,613	44,606	80%	24.03
2032	188,099	7,840	50,287	195,939	44,522	80%	24.11
2033	188,442	7,840	50,322	196,282	44,438	80%	24.20
2034	188,803	7,840	50,341	196,643	44,354	80%	24.29

Note: Columns for incineration have not been included in this table since the District has not used this management method for solid waste.

Source(s) of information:

Recycling, composting, incineration, waste reduction via incineration, landfill, and population - Tables VII-3 and VII-4

Sample calculations (2017):

Recycling + composting + waste reduction via incineration = Tons waste reduction

69,331 tons + 7,840 tons = 77,171.13 tons

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate

77,171 tons / (77,171 tons + 31,515.46 tons) x 100 = 71%

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate

(77,171 tons x 2,000 pounds) / (45,778 x 365) = 9.24 lbs/day

VIII. Cost of Financing Plan Implementation

[ORC Section 3734.53(A)(9), (12) and (B)]

This section of the Plan provides information on the District's revenues and expenditures. The revenues and expenditures presented for 2017 through 2018 are based on actual revenues received and costs expended. The planning period includes cost projections based on these initial years.

Budget Demonstration

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* demonstrate 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 District operates on an annual operating budget prepared under the Board of County Commissioners. This operating budget is based on the Plan Update budget in concept.

The Board, with the advice and assistance of the District Coordinator, will review and revise the operating 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 Coordinator's recommendations and the content of this *Plan Update*.

The District reserves the right to revise the operating 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 (incoming revenue and un-encumbered 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*.

Capital expense projections in future years will be finalized in future Plan Update processes.

A. Funding Mechanisms

1. District Disposal Fees

The District does not receive revenue from disposal fees. Table VIII-1, “District Disposal Fee Schedule and Revenues Generated” has been omitted.

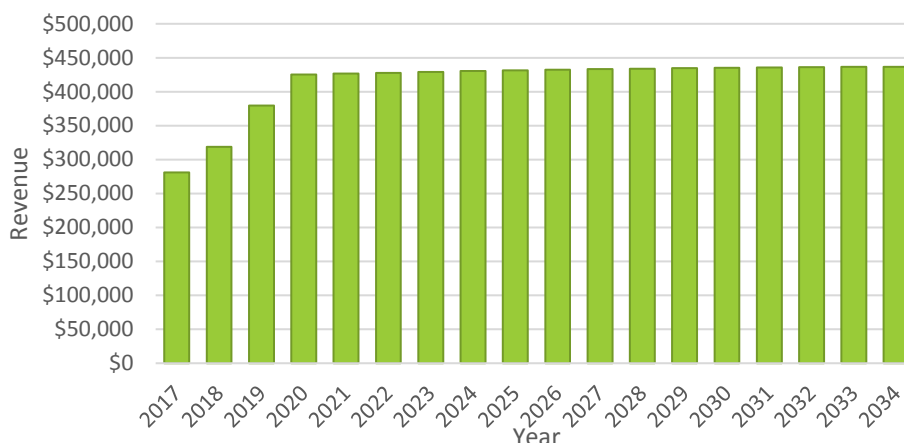
2. Generation Fee

The District currently receives \$9.00 per ton on all solid waste that is generated in the District. Table VIII-2, “Generation Fee Schedule and Revenues,” presents the total generation fee revenue for the planning period. Generation fee revenue for 2017 was \$280,977; in the final year of the planning period (2034), generation fee revenue is projected to be \$436,712.

The District plans to decrease the generation fee from \$9.00 to \$7.65 in 2020. Projections for the new Pratt Industries facility are included starting in 2019.

Table VIII-2 presents the generation fee schedule and revenues. Actual generation fee revenue matching the District’s Quarterly Fee Reports was used for 2017 and 2018. In 2018, the generation fees collected are based on the monthly average of ten months and multiplied for 12 full months. Generation fee revenue for 2019 to 2034 is based on the percentage change year to year from tons of solid waste generated within the District from Table VI-2 minus exempt waste in V-4 projections of waste generation. These projection changes were applied starting with the calculated estimate for 2018. The District updated their form system for 2018 which allowed the District to collect a more accurate generation fee for the waste generated in Auglaize County. This update also allows the District to have more reliable generation fee revenue.

2017 – 2034 Generation Fee Revenue



3. ***Rates and Charges***

In accordance with ORC 343.08, the District levies a \$20.00 annual fee on each improved parcel. An “improved parcel” is a parcel of land that is improved with at least one permanent, portable, or temporary building. The fee is certified to the County Auditor and collected in the same manner as other taxes. The District will continue to levy the parcel tax throughout the planning period. There are no planned increases to the parcel tax.

The rates and charges, which is based on certain types of property ownership, provides a reliable funding source for the District. Actual revenue was used for 2017 to 2018. Rates and charges revenue was projected for 2019 to 2034 to stay constant.

4. ***Recycling Revenue***

The District received \$511,667 in recycling revenue during the reference year. Due to changes in market conditions, the District’s recycling revenue decreased by over \$100,000 in 2018. The recycling revenue is projected at \$410,000 in 2019. Due to market conditions, the District is not projecting a change in recycling revenue for the rest of the planning period until 2034.

5. ***Other Revenues (Special Programs)***

The District plans to implement three new programs during the planning period that will produce revenue. The new glass collection program is planned to begin in 2020 and will collect glass from bars and restaurants around the County. Bars and restaurants may pay an approximate cost of \$7.50 per wheeled cart per month to be

emptied. The second new program is an aluminum buyback program planned to begin in 2022 and projected to produce about \$4,524 in revenue per year from the sale of the material.

Glass User Fees

Beginning in 2020, the District will require bars and restaurants to pay a fee to have their glass collected and recycled by the District. The glass user fees are projected to remain steady for the entire planning period at about \$4,500 earned in revenue on glass from bars and restaurants per year.

Aluminum Buy Back Revenue

The District will earn revenue from aluminum dropped off at the Auglaize County Recycling Center by residents to be recycled. Residents will earn a small cash amount per pound of aluminum dropped off, and the District will re-sell it for a profit. The aluminum revenue is projected to remain constant for the entire planning period (starting in 2022) and is projected to remain steady at about \$4,524 earned in revenue on aluminum from this program per year.

6. *Projects (HHW User Fees)*

The District requires residents to pay a fee when dropping off HHW at the Auglaize County Recycling Center to be recycled or responsibly disposed of. Fees are collected for HHW, tires, appliances, batteries, mercury, and electronics. The HHW fees decreased only slightly between 2017 and 2018 and therefore, are projected to remain steady at about \$7,500 earned in revenue on HHW per year.

7. *MRF Tipping Fees*

Currently, the District does not earn any tipping fees at the MRF but reserves the right to implement one at any point in time that the fee is deemed necessary.

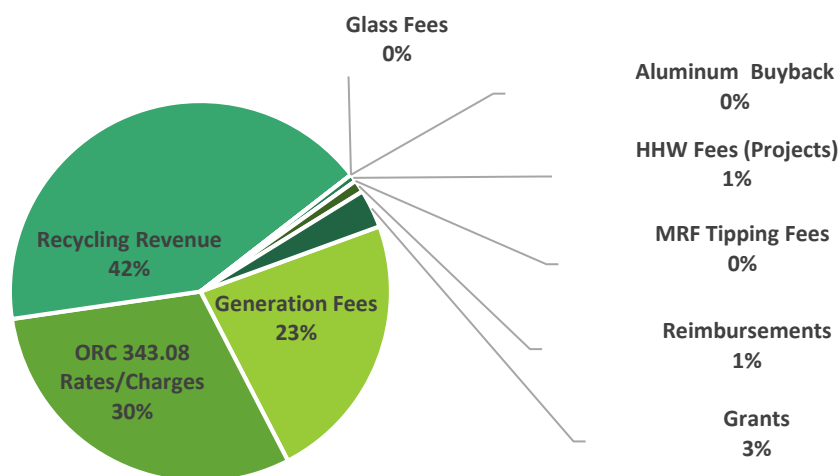
8. *Reimbursements*

The District receives reimbursement revenue for grant money unused in the District's grant account, workers' compensation premium rate discounts, and uniform paybacks. The average reimbursements received from 2017 to 2018 was used to calculate a flat annual amount for the planning period.

9. Grants

The District applies for and received grants from Ohio EPA from 2017 through 2019. Grants are competitive and not guaranteed; therefore, grant revenue is not projected. However, the District will continue to apply for grants on an as-needed basis.

Percentage of Revenue Generated in 2017 by Each Funding Mechanism



In the reference year, the revenue source that produced the most revenue (42%) was generated from recycling revenue. The parcel fee provided approximately 30% of the District's revenue, generation fees provided 23%, grants represented 3%, reimbursements represented 1%, and HHW fees provided 1%.

In 2017, the District's total revenue was \$1,223,945. In the first year of the planning period (2020), the District is projected to receive \$1,226,744. Revenue in the final year of the planning period (2034) is projected to be \$1,242,780.

B. Cost of Plan Implementation

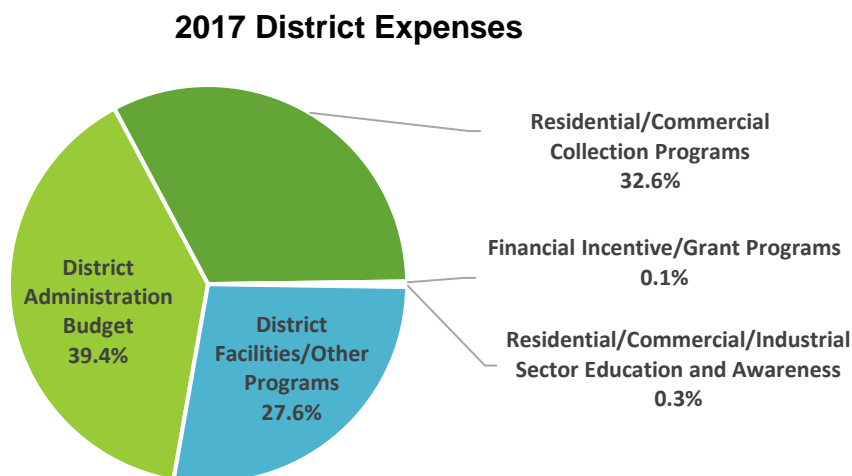
In the mid-2000's, the City of St. Marys and the Auglaize County Board of Commissioners were involved in a legal dispute regarding responsibility for landfill monitoring costs for the closed in-district landfill. The case eventually made it to the Ohio Supreme Court. In September of 2007, the Court ruled in favor of the City of St. Marys, ordering the Auglaize County Board of Commissioners to pay for the landfill monitoring costs. During the dispute, the District used funding from the County's general fund to pay for legal fees. The cost for landfill monitoring during the multiple court cases was also paid for by the County's general fund after the final ruling in 2007.

Table VIII-4A, “Anticipated Loans Secured by the District – Attorney Fees”, presents money owed to the County General Fund. No interest is charged on the money loaned to the District from the County. The District pays the County \$40,000 annually for funding borrowed to pay for attorney fees during the dispute with St. Marys.

Tables VIII-4B,” Anticipated Loans Secured by the District - Settlement Costs”, presents money owed to the County General Fund. The District pays the County \$120,000 annually for funding borrowed to pay for past landfill monitoring costs. In 2017, the District owed the County \$323,226 for attorney fees and \$986,745 for past landfill monitoring costs. The District will retire its debt to the County in 2025.

Table VIII-5, “Estimated Cost for Plan Implementation”, presents a detailed breakdown of expenditures for each year of the planning period.

The District Coordinator will allocate these funds with the approval of the County Commissioners. The following figure presents a summary of expenses in 2017.



The expenditures presented in the Plan budget include actual expenditures and encumbrances for 2017 and 2018.

Administration

Administration costs include the payroll, office overhead, professional services (includes plan preparation, attorney fees and other consulting services), debt retirement, advertising and printing. In sum, all administrative line items are projected to cost \$418,000 in 2020.

In the first year of the planning period, the following funding levels are projected for each administrative line item and include a brief description of each expense line item:

Program	Program #	2020 Budget	Annual Escalator
Personnel	Admin-1	\$103,000	3%
Salaries include the cost of employing District staff, health care costs, workers compensation, unemployment, Medicare and PERS retirement. Expenditures are projected to increase 3.0% annually based on the Social Security Administration's Cost of Living Adjustment (COLA) published on October 11, 2018 for 2.8%. The District rounded up to 3.0%.			
Equipment	Admin-2	\$0	N/A
Equipment expenses include the cost to replace, repair, or maintain equipment. There are no projected changes to costs			
Professional Services	Admin-3	\$0	Varies
Expenditures for professional services include solid waste consulting services for the preparation of solid waste plan updates (\$43,000 for plan cycle 2023-2025, \$43,860 for plan cycle 2028-2030, and \$29,825 for two-thirds of a plan cycle from 2033-2034).			
Repayment of Legal Fees	Admin-4	\$40,000	Flat
Repayment of attorney fees to County general fund. The District is repaying the General Fund \$40,000 annually until the debt is retired in 2025.			
Landfill Monitoring	Admin-5	\$125,000	Flat
The Ohio Supreme Court ruled in 2007 that the District was responsible for landfill monitoring costs of the closed municipal solid waste landfill. The District is responsible for monitoring costs for 30 years after the landfill closes, or until 2032.			
Settlement Payment	Admin-6	\$120,000	Flat
The District and the City of St. Marys were in a lengthy legal dispute regarding which party was responsible for landfill monitoring costs, during which time the City of St. Marys paid for the monitoring. In 2007, the Supreme Court of Ohio ruled that the District was responsible for landfill monitoring costs. Past costs for landfill monitoring were paid on behalf of the District through the County General Fund. The District is repaying the General Fund \$120,000 annually until the debt is retired in 2025.			
Supplies and Office Overhead	Admin-7	\$30,000	5%
Office overhead costs include expenses such as insurance, rent, utilities, taxes, repairs, and office supplies. Office overhead expenditures are projected to increase 5% annually.			

Residential/Commercial Collection Programs

Residential/commercial recycling and collection programs include the drop-off recycling program, yard waste management, household hazardous waste management, scrap tire recycling, and multi-family housing unit recycling. Overall, expenditures for residential/commercial collection programs at the onset of the planning period were \$358,700.

In the first year of the planning period, the following funding levels are projected for each program and include a brief description of each expense line item:

Program	Program #	2020 Budget	Annual Escalator
Curbside Recycling	AC-1	\$40,000	2%
Expenditures cover processing and some collection costs. Expenditures are projected to increase 2% annually.			
Drop-Off Recycling	AC-2	\$293,000	2%
Expenditures for the drop-off program cover collection and processing costs. Drop-off recycling expenditures are projected to increase 2% annually.			
In 2021, an additional \$75,000 is budgeted for a packer truck, \$80,000 for a tractor/trailer, and \$50,00 for additional equipment or upgrades. In 2023, an additional \$200,000 is budgeted for building modifications or replace/increase equipment efficiency. Additional truck and equipment replacement costs are projected at \$200,000 in 2028 and \$100,000 in 2034. These capital expense projections will be finalized in future Plan Update planning processes.			
Yard Waste Management	AC-3	\$7,000	Flat
Expenditures for yard waste management cover the cost of the contract with the City of Wapakoneta to make their yard waste facility open to all District residents.			
Household Hazardous Waste Management	AC-4a	\$10,000	Flat
Expenditures for household hazardous waste (HHW) management cover the cost of operating an annual HHW drop-off event, which includes the cost of contracting a company to properly manage the HHW.			
Scrap Tire Recycling	AC-4b	\$8,700	Flat, every 3 years
Expenditures for scrap tire recycling cover the cost of transporting tires to a tire recycler, processing fees, and environmental fees. Every three years, beginning in 2020, \$8,200 is allocated to a scrap tire collection event. During the 2 years in between, \$200 is allocated for smaller quantities of tires collected at the Auglaize County Recycling Center.			
Battery Collection	AC-4c	In AC-4a	N/A
Expenditures for battery collection are included in Household Hazardous Waste Management (AC-4a).			
Used Oil Collection	AC-4d	In AC-4a	N/A
Expenditures for used oil collection are included in Household Hazardous Waste Management (AC-4a).			
Appliance Recycling	AC-4e	In AC-4a	N/A
Expenditures for appliance collection are included in Household Hazardous Waste Management (AC-4a).			
Special Event Recycling	AC-5	In AC-2	N/A
Expenditures for special event recycling are included in Drop-Off Recycling (AC-2).			
School Recycling	AC-6	In AC-2	Flat, every 3 years
Expenditures for school recycling are included in Drop-Off Recycling (AC-2).			
Special Collection Routes	AC-7	In AC-2	N/A
Expenditures for special collection routes are included in Drop-Off Recycling (AC-2).			

Program	Program #	2020 Budget	Annual Escalator
Glass Bar Program	AC-8	In AC-2	N/A
This program is an expansion of an existing minor service provided by the District and is to start in 2020 and collection costs are included in Drop-Off Recycling (AC-2).			
Aluminum Buyback Program	AC-9	\$0	Flat
This new program will begin in 2022. In 2022, \$42,262 is budgeted with \$40,000 for a conveyor belt system to include a scale, magnet and conveyor. The remaining \$2,262 is allocated to the program and estimated on the Recycling Center available to buyback aluminum 3 days a week with an average of 10 pound collected each day. Using an estimated 58 cents per pound payout. The District may apply for a grant for the aluminum conveyor belt.			

Financial Incentive/Grant Programs

The Volunteer Recycling Assistance Group Grants program is a grant program. In 2020, the following funding levels are projected:

Program	Program #	2020 Budget	Annual Escalator
Recycling and Market Development Grant Program	AC-10	\$4,000	N/A
The intent of this program is to solicit interested parties that meet the core criteria of the program and then if a viable project is identified, provide extra needed funding through the District's unencumbered fund balance if available.			
Volunteer Recycling Assistance Group Grants	AC-11	In AC-15	N/A
Expenditures for appliance collection are included in Auglaize County Material Recovery Facility (AC-15).			

Residential/Commercial/Industrial Sector Education and Awareness Programs

Residential/Commercial Education and Awareness Programs consist of education presentations, District displays at County events, publicity and advertising for District programs and events, informational flyers and brochures and industrial sector technical assistance.

For 2020, the first year of the planning period, the following funding levels are projected for each program and include a brief description of each expense line item:

Program	Program #	2020 Budget	Annual Escalator
Education and Awareness	AC-20	\$7,000	Flat
Expenditures include the District's contract with a person to operate the Education and Awareness program on a part-time basis for a			

Program	Program #	2020 Budget	Annual Escalator
not-to-exceed cost of \$7,000. The District and Mercer County SWMD continued to employ an education specialist who splits the time between the two Districts. Each District has its own contact with the education specialist for part-time services. The Educator runs the District's school programs, gives civic presentations, assists with the fair display, and is involved in other educational activities.			

District Facilities/Other Programs

District facilities includes the budgets from District facilities and other programs. The following funding levels are projected for each program in 2020 and include a brief description of each expense line item:

Program	Program #	2020 Budget	Annual Escalator
Curbside and PAYT Technical Assistance	AC-21	In AC-1	2%
Expenditures for curbside and PAYT technical assistance are included in AC-1.			
Annual Surveying	AC-22	In Admin-9	N/A
Expenditures for annual surveying are included in Supplies and Office Overhead (Admin-7).			
Auglaize County Material Recovery Facility	AC-23	\$255,000	2%
Expenditures for operations at the Auglaize County Material Recovery Facility are projected to increase 2% annually.			
Auglaize County Material Recovery Facility - Capital Improvements	AC-23a	\$350,000	Varies
<p>The District had contracted for a facility expansion to start in 2019 and finish during 2020. A dry commodity storage building attached to the existing facility will be 65' by 125' in dimension. The foundation slab will be made in 2019 with the structure constructed in 2020. Projected cost includes: \$173,057 in 2019 and \$350,000 in 2020. Budgeted for \$150,000 in 2022 will be considered if a compromise regarding land ownership, septic and environmental investigation occurs between City of St. Mary's and the County Commissioners. If no agreement is reached, the budgeted capital expenses shall not occur before the next Plan Update. Replacement capital expenses of \$400,000 are projected in 2029 for equipment such as the baler and conveyors. Also, in 2033 and 2034, \$750,000 and \$100,000 is projected for facility replacement in each of these years. These capital expenses will be finalized in future Plan Update processes.</p> <p>The District reserves the right to apply for state and or federal grants to offset the expenses of any capital improvements to the facility (ex. expansion of building, truck scale installments, trucks, balers, conveyors, etc.). The District also reserves the right to obtain a loan from the Commissioners or other third-party source to spread out the capital expenses over time in lieu of or in addition to using District cash reserves and grants. In either case above, District cash balances will be the funding source to either retire new debt and or to provide</p>			

Program	Program #	2020 Budget	Annual Escalator
match money for grants. Since these mechanisms are optional, specific budget expenses and revenue have not been included in the Plan Update budget.			
General Plan Implementation	AC-24	\$0	N/A
Implementation of this program will be covered by the administrative budget.			
DIY Waste Audits and Waste Reduction Resources	AC-25	\$0	N/A
Implementation of this program will be covered by the administrative budget.			

C. Funds Allocated from ORC 3734.57(B), ORC 3734.572 and ORC 3734.573

Solid waste districts may collect fees to fund the implementation of their plans as well as other purposes. Solid waste fees such as disposal fees and generation fees must be expended exclusively for the following ten purposes (ORC 3734.57 (G)):

1	•Preparation and monitoring of the solid waste management plan
2	• Implementation of the approved solid waste management plan
3	•Providing financial assistance to boards of health within the district, for solid waste enforcement
4	•Providing financial assistance to defray the costs of maintaining roads and other services resulting from the location and operation of a solid waste facility
5	•Providing financial assistance to boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities
6	•Developing and implementing a program for inspecting out-of-state solid waste
7	•Providing financial assistance to boards of health or to local law enforcement agencies having jurisdiction within the district for anti-littering enforcement
8	•Providing financial assistance to boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility inspectors
9	•Providing financial assistance to municipalities and townships to defray their costs of maintaining roads and other services resulting from the location and operation of solid waste facilities
10	•Payment of any expenses that are agreed to awarded or ordered to be paid under section 3734.35 of the Revised Code and any administrative costs incurred pursuant to that section

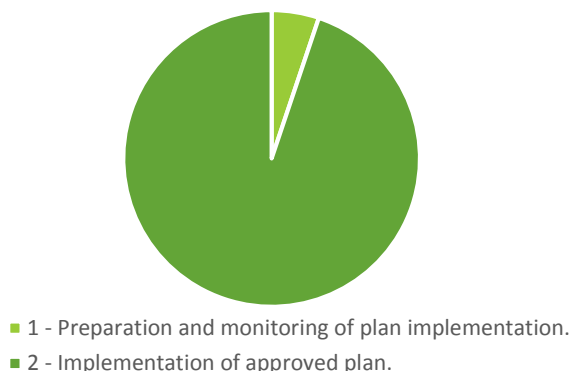
Table VIII-6, “Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573”, presents the District’s projected allocation among the ten allowable uses.

The District’s budget falls into two categories:



The following figure presents the allocation of funding among the allowable uses during the reference year:

2017 Allocation of Funding



In 2017, 95% of the District’s expenditures were allocated to implementing the approved Plan. The remaining 5% of expenditures were allocated to preparation and monitoring implementation of the Plan.

D. Contingent Funding

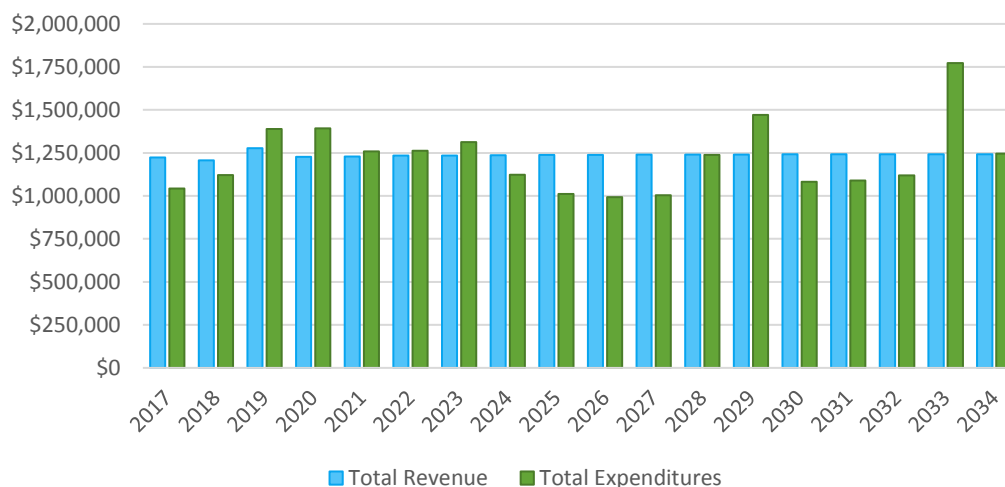
The Policy Committee and County Commissioners do not consider funding to be an issue of concern during this planning period. The District is projecting stable funding sources throughout the planning period; therefore, Table VIII-7 has been omitted. The District would only consider increasing the generation fee or rates and charges fee if it was unable to re-appropriate funding.

The District also reserves the right to implement other funding mechanisms to complement or replace the generation fee under any circumstance. Other funding mechanisms may include contract fees through designation, service fees, or other mechanisms as identified.

E. Summary of Costs and Revenues

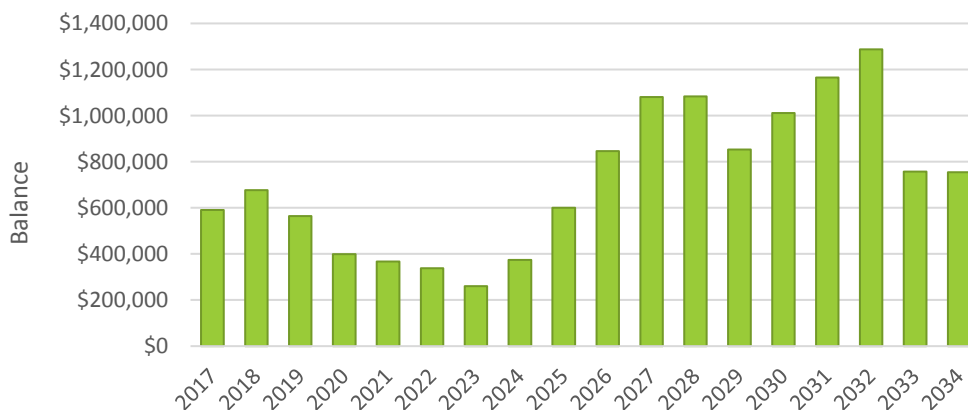
Table VIII-8, “Summary of District Revenues and Expenditures,” includes the total revenue and annual costs for each program from the reference year through the end of the planning period. During the planning period, revenue is projected to range from \$1,226,744 to \$1,242,780 annually. Throughout the planning period, expenditures are projected to range from \$993,362 to \$1,772,873 annually. The following figure presents the District’s actual and projected revenue and expenditures from 2017 to 2034.

2017-2034 District Revenue and Expenditures



The District is projected to begin the planning period with a carryover balance of \$564,511 and conclude the planning period with a balance of approximately \$754,684. Each year of the planning period is projected to have ample funding for each of the programs. The following figure presents the District’s ending balance from 2017 to 2034.

2017-2034 District Fund Balance



**Table VIII-1
District Disposal Fee Schedule and Revenues Generated**

Year	Fee Schedule (\$/ton)			Tons Disposed in the District			Total District Fee Revenue
	In-District	Out-of-District	Out-of-State	In-District	Out-of-District	Out-of-State	
2017	\$0.00	\$0.00	\$0.00	Not applicable as there are no landfills or transfer stations currently in the District			\$0
2018	\$0.00	\$0.00	\$0.00				\$0
2019	\$0.00	\$0.00	\$0.00				\$0
2020	\$0.00	\$0.00	\$0.00				\$0
2021	\$0.00	\$0.00	\$0.00				\$0
2022	\$0.00	\$0.00	\$0.00				\$0
2023	\$0.00	\$0.00	\$0.00				\$0
2024	\$0.00	\$0.00	\$0.00				\$0
2025	\$0.00	\$0.00	\$0.00				\$0
2026	\$0.00	\$0.00	\$0.00				\$0
2027	\$0.00	\$0.00	\$0.00				\$0
2028	\$0.00	\$0.00	\$0.00				\$0
2029	\$0.00	\$0.00	\$0.00				\$0
2030	\$0.00	\$0.00	\$0.00				\$0
2031	\$0.00	\$0.00	\$0.00				\$0
2032	\$0.00	\$0.00	\$0.00				\$0
2033	\$0.00	\$0.00	\$0.00				\$0
2034	\$0.00	\$0.00	\$0.00				\$0

**Table VIII-2
Generation Fee Schedule and Revenues**

Year	Base Generation Fee	Tons of District Waste to be Disposed	Total Generation Fee Revenue
2017	\$9.00	31,220	\$280,977
2018	\$9.00	35,417	\$318,751
2019	\$9.00	42,197	\$379,773
2020	\$7.65	55,582	\$425,200
2021	\$7.65	55,761	\$426,569
2022	\$7.65	55,927	\$427,842
2023	\$7.65	56,089	\$429,082
2024	\$7.65	56,242	\$430,249
2025	\$7.65	56,384	\$431,340
2026	\$7.65	56,512	\$432,314
2027	\$7.65	56,628	\$433,201
2028	\$7.65	56,731	\$433,993
2029	\$7.65	56,822	\$434,685
2030	\$7.65	56,898	\$435,272
2031	\$7.65	56,970	\$435,817
2032	\$7.65	57,025	\$436,244
2033	\$7.65	57,065	\$436,545
2034	\$7.65	57,087	\$436,712

Source(s) of information: Tons to be disposed (2017-2034) - Tables V-4 and VI-1

Table VIII-3
Summary of Revenue Generated and Mechanisms Used

Year	Type of Revenue Mechanism and Amount Used									Total Revenue Generated
	Generation Fees	ORC 343.08 Rates/Charges	Recycling Revenue	Glass Fees	Aluminum Buyback	HHW Fees (Projects)	MRF Tipping Fees	Reimbursements	Grants	
2017	\$280,977	\$370,807	\$511,667	\$0	\$0	\$7,816	\$0	\$12,853	\$39,826	\$1,223,945
2018	\$318,751	\$368,629	\$402,327	\$0	\$0	\$7,078	\$0	\$10,235	\$100,000	\$1,207,020
2019	\$379,773	\$368,000	\$410,000	\$0	\$0	\$7,500	\$0	\$11,544	\$100,000	\$1,276,817
2020	\$425,200	\$368,000	\$410,000	\$4,500	\$0	\$7,500	\$0	\$11,544	\$0	\$1,226,744
2021	\$426,569	\$368,000	\$410,000	\$4,500	\$0	\$7,500	\$0	\$11,544	\$0	\$1,228,113
2022	\$427,842	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,233,910
2023	\$429,082	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,235,149
2024	\$430,249	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,236,317
2025	\$431,340	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,237,408
2026	\$432,314	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,238,382
2027	\$433,201	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,239,268
2028	\$433,993	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,240,061
2029	\$434,685	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,240,753
2030	\$435,272	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,241,339
2031	\$435,817	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,241,885
2032	\$436,244	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,242,312
2033	\$436,545	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,242,613
2034	\$436,712	\$368,000	\$410,000	\$4,500	\$4,524	\$7,500	\$0	\$11,544	\$0	\$1,242,780

Source(s) of information:

2017 - Quarterly Fee Reports

2018-2034 Generation Fees - Calculated from tonnage in Table VIII-2

2018-2034 Recycling Revenue and User Fee - Conservative estimate based on 2015-2017

Table VIII-4A
Anticipated Loans Secured by the District - Attorney Fees

Year	Loans Obtained by the District		Interest Rate	Years Remaining on Loan	Annual Debt Service
	Lending Institution	Remaining Principal			
2017	County General Fund	\$323,226.00	0.00%	8	\$40,000.00
2018	County General Fund	\$283,226.00	0.00%	7	\$40,000.00
2019	County General Fund	\$243,226.00	0.00%	6	\$40,000.00
2020	County General Fund	\$203,226.00	0.00%	5	\$40,000.00
2021	County General Fund	\$163,226.00	0.00%	4	\$40,000.00
2022	County General Fund	\$123,226.00	0.00%	3	\$40,000.00
2023	County General Fund	\$83,226.00	0.00%	2	\$40,000.00
2024	County General Fund	\$43,226.00	0.00%	1	\$40,000.00
2025	County General Fund	\$3,226.00	0.00%	0	\$3,226.00
2026	N/A	\$0.00	N/A	0	\$0.00
2027	N/A	\$0.00	N/A	0	\$0.00
2028	N/A	\$0.00	N/A	0	\$0.00
2029	N/A	\$0.00	N/A	0	\$0.00
2030	N/A	\$0.00	N/A	0	\$0.00
2031	N/A	\$0.00	N/A	0	\$0.00
2032	N/A	\$0.00	N/A	0	\$0.00
2033	N/A	\$0.00	N/A	0	\$0.00
2034	N/A	\$0.00	N/A	0	\$0.00

Table VIII-4B
Anticipated Loans Secured by the District - Settlement Costs

Year	Loans Obtained by the District		Interest Rate	Years Remaining on Loan	Annual Debt Service
	Lending Institution	Remaining Principal			
2017	County General Fund	\$986,745.00	0.00%	8	\$120,000.00
2018	County General Fund	\$866,745.00	0.00%	7	\$120,000.00
2019	County General Fund	\$746,745.00	0.00%	6	\$120,000.00
2020	County General Fund	\$626,745.00	0.00%	5	\$120,000.00
2021	County General Fund	\$506,745.00	0.00%	4	\$120,000.00
2022	County General Fund	\$386,745.00	0.00%	3	\$120,000.00
2023	County General Fund	\$266,745.00	0.00%	2	\$120,000.00
2024	County General Fund	\$146,745.00	0.00%	1	\$120,000.00
2025	County General Fund	\$26,745.00	0.00%	0	\$26,745.00
2026	N/A	\$0.00	N/A	0	\$0.00
2027	N/A	\$0.00	N/A	0	\$0.00
2028	N/A	\$0.00	N/A	0	\$0.00
2029	N/A	\$0.00	N/A	0	\$0.00
2030	N/A	\$0.00	N/A	0	\$0.00
2031	N/A	\$0.00	N/A	0	\$0.00
2032	N/A	\$0.00	N/A	0	\$0.00
2033	N/A	\$0.00	N/A	0	\$0.00
2034	N/A	\$0.00	N/A	0	\$0.00

Table VIII-5
Estimated Costs for Plan Implementation

Description	Program #	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
		District Administration Budget																	
Personnel - Salaries, Medicare, Hospitalizations, Workers' Comp and OPERS	Admin-1	\$96,667	\$93,818	\$100,000	\$103,000	\$106,090	\$109,273	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
Equipment	Admin-2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Professional Services	Admin-3	\$5,458	\$22,319	\$20,000	\$0	\$0	\$0	\$14,333	\$14,333	\$14,333	\$0	\$0	\$14,620	\$14,620	\$14,620	\$0	\$0	\$14,912	\$14,912
Repayment of Legal Fees	Admin-4	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$32,226	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Landfill Monitoring	Admin-5	\$122,738	\$100,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$0	\$0
Settlement Payment	Admin-6	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$26,745	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Supplies and Office Overhead	Admin-7	\$26,114	\$20,389	\$30,000	\$30,000	\$31,500	\$33,075	\$34,729	\$36,465	\$38,288	\$40,203	\$42,213	\$44,324	\$46,540	\$48,867	\$51,310	\$53,876	\$56,569	\$59,398
Subtotal		\$410,976	\$396,526	\$435,000	\$418,000	\$422,590	\$427,348	\$446,613	\$451,726	\$426,998	\$288,190	\$293,890	\$314,421	\$320,551	\$326,910	\$318,886	\$325,729	\$322,741	\$320,107

Table VIII-5 (continued)
Estimated Costs for Plan Implementation

Description	Program #	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
		Residential/Commercial Collection Programs																	
Curbside Recycling	AC-1	\$44,123	\$37,974	\$40,000	\$40,000	\$40,800	\$41,616	\$42,448	\$43,297	\$44,163	\$45,046	\$45,947	\$46,866	\$47,804	\$48,760	\$49,735	\$50,730	\$51,744	\$52,779
Drop-Off Recycling	AC-2	\$271,208	\$288,361	\$293,000	\$293,000	\$307,960	\$309,919	\$315,200	\$321,504	\$327,934	\$334,492	\$341,182	\$348,006	\$354,966	\$366,145	\$373,468	\$380,938	\$388,556	\$396,327
Yard Waste Management	AC-3	\$17,265	\$11,884	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
	AC-4a	\$6,891	\$9,708	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Special Waste Management and Services	AC-4b	\$0	\$8,499	\$200	\$8,700	\$200	\$200	\$8,700	\$200	\$200	\$8,700	\$200	\$200	\$8,700	\$200	\$200	\$8,700	\$200	\$200
	AC-4c	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
	AC-4d	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
	AC-4e	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
Special Event Recycling (See AC-2)	AC-5	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
School Recycling (See AC-2)	AC-6	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
Special Collection Routes (See AC-2)	AC-7	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
Glass Bar Program	AC-8	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
Aluminum Buyback Program	AC-9	\$0	\$0	\$0	\$0	\$0	\$42,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262
Subtotal		\$339,487	\$356,426	\$350,200	\$358,700	\$565,960	\$410,097	\$585,610	\$384,263	\$391,559	\$407,501	\$406,592	\$614,334	\$434,732	\$434,367	\$442,666	\$459,629	\$459,763	\$568,569
		Financial Incentive/Grant Programs																	
Recycling and Market Development Grant Program	AC-10	\$1,444	\$1,500	\$3,000	\$4,000	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Volunteer Recycling Assistance Group Grants	AC-11	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23
Subtotal		\$1,444	\$1,500	\$3,000	\$4,000	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
		Residential/Commercial/Industrial Sector, Education and Awareness																	
Education and Awareness	AC-12	\$3,123	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
Subtotal		\$3,123	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
		District Facilities/Other Programs																	
Curbside and PAYT Technical Assistance	AC-13	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1
Annual Surveying	AC-14	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9
Auglaize County Material Recovery Facility	AC-15	\$270,217	\$251,042	\$250,000	\$255,000	\$260,100	\$265,302	\$270,608	\$276,020	\$281,541	\$287,171	\$292,915	\$298,773	\$304,749	\$310,844	\$317,060	\$323,402	\$329,870	\$336,467
Auglaize County Material Recovery Facility - Capital Improvements	AC-15a	\$16,941	\$107,775	\$344,057	\$350,000	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$0	\$150,000	\$100,000
General Plan Implementation	AC-16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DIY Waste Audits and Waste Reduction Resources	AC-17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal		\$287,158	\$358,817	\$594,057	\$605,000	\$260,100	\$415,302	\$270,608	\$276,020	\$281,541	\$287,171	\$292,915	\$298,773	\$304,749	\$310,844	\$317,060	\$323,402	\$1,079,870	\$436,467
Totals		\$1,042,489	\$1,120,269	\$1,389,257	\$1,392,700	\$1,259,150	\$1,263,247	\$1,313,331	\$1,122,509	\$1,010,597	\$993,862	\$1,003,886	\$1,238,028	\$1,470,532	\$1,089,142	\$1,119,260	\$1,172,873	\$1,245,643	

Table VIII-6
Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573

Year	Total Annual Revenue (\$)	Allocations of ORC 3734.57 and ORC 3734.573 Revenue For the Following Purposes:											Year-End Balance (\$)
		1	2	3	4	5	6	7	8	9	10	Total Budget Allocation (\$)	
Beginning Balance													\$408,444
2017	\$1,223,945	\$53,791	\$988,398	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,042,189	\$590,200
2018	\$1,207,020	\$69,228	\$1,051,041	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,120,269	\$676,951
2019	\$1,276,817	\$70,000	\$1,319,257	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,389,257	\$564,511
2020	\$1,226,744	\$51,500	\$1,341,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,392,700	\$398,554
2021	\$1,228,113	\$53,045	\$1,206,105	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,259,150	\$367,518
2022	\$1,233,910	\$54,636	\$1,208,611	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,263,247	\$338,181
2023	\$1,235,149	\$70,609	\$1,242,722	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,313,331	\$259,999
2024	\$1,236,317	\$72,297	\$1,050,212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,122,509	\$373,807
2025	\$1,237,408	\$74,036	\$936,562	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,010,597	\$600,618
2026	\$1,238,382	\$61,494	\$931,869	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$993,362	\$845,637
2027	\$1,239,268	\$63,339	\$940,558	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,003,896	\$1,081,009
2028	\$1,240,061	\$79,859	\$1,158,170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,238,028	\$1,083,042
2029	\$1,240,753	\$81,816	\$1,388,716	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,470,532	\$853,263
2030	\$1,241,339	\$83,832	\$998,789	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,082,621	\$1,011,982
2031	\$1,241,885	\$71,288	\$1,017,824	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,089,112	\$1,164,755
2032	\$1,242,312	\$73,427	\$1,045,833	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,119,260	\$1,287,807
2033	\$1,242,613	\$90,542	\$1,682,331	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,772,873	\$757,547
2034	\$1,242,780	\$92,811	\$1,152,832	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,245,643	\$754,684

Notes:

- 1 - Preparation and monitoring of plan implementation.
- 2 - Implementation of approved plan.
- 3 - Financial assistance to boards of health for solid waste enforcement.
- 4 - Financial assistance to defray the costs of maintaining roads and other public services related to the location or operation of solid waste facilities.
- 5 - Contracts with boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities.
- 6 - Out-of-state waste inspection program.
- 7 - Financial assistance to local boards of health to enforce ORC 3734.03 or to local law enforcement agencies having jurisdiction within the District for anti-littering.
- 8 - Financial assistance to local boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility inspectors.
- 9 - Financial assistance to local municipalities and townships to defray the added cost of roads and services related to the operation of solid waste facilities.
- 10 - Payment of any expenses that are agreed to awarded or ordered to be paid under section 3734.35 of the Revised Code and any administrative costs i

**Table VIII-7
Contingent Funding Sources**

Year	Amount of Contingent Funding for Each Source		Total
	Generation Fee Revenue	Total Tons	
2017	See Narrative in Section VIII		
2018			
2019			
2020			
2021			
2022			
2023			
2024			
2025			
2026			
2027			
2028			
2029			
2030			
2031			
2032			
2033			
2034			

Note: The generation fee can be adjusted up or down to meet contingent needs.

Table VIII-3
Summary of District Revenues and Expenditures

Description	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Beginning Balance	\$408,444	\$530,200	\$676,951	\$654,511	\$398,554	\$387,518	\$338,181	\$259,999	\$373,807	\$600,618	\$845,637	\$1,081,009	\$1,083,042	\$853,263	\$1,011,982	\$1,164,755	\$1,287,807	\$757,547
Revenues																		
Generation Fees	\$280,977	\$318,751	\$379,773	\$425,200	\$426,569	\$427,842	\$429,082	\$430,249	\$431,340	\$432,314	\$433,201	\$433,993	\$434,685	\$435,272	\$435,817	\$436,244	\$436,545	\$436,712
ORC 343.08 Rates/Charges	\$370,807	\$388,629	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000
Recycling Revenue	\$51,187	\$40,327	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000	\$410,000
Glass Fees	\$-	\$-	\$-	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Aluminum Buyback	\$-	\$-	\$-	\$-	\$-	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524	\$4,524
HHW Fees (Projects)	\$7,816	\$7,078	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
MRF Tipping Fees	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Reimbursements	\$12,853	\$10,235	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544	\$11,544
Grants	\$39,826	\$100,000	\$100,000	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Total Revenue	\$1,223,945	\$1,207,020	\$1,276,817	\$1,226,744	\$1,228,113	\$1,233,910	\$1,235,149	\$1,236,317	\$1,237,408	\$1,238,382	\$1,239,268	\$1,240,061	\$1,240,753	\$1,241,339	\$1,241,885	\$1,242,312	\$1,242,613	\$1,242,780
Expenditures																		
Personnel - Salaries, Medicare, Hospitalizations, Workers' Comp and OPERS	\$96,867	\$93,818	\$100,000	\$103,000	\$106,990	\$109,273	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
Equipment	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Professional Services	\$5,468	\$22,319	\$20,000	\$-	\$-	\$-	\$-	\$14,333	\$14,333	\$-	\$-	\$14,620	\$14,620	\$14,620	\$-	\$-	\$14,912	\$14,912
Repayment of Legal Fees	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$3,226	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Landfill Monitoring	\$122,738	\$100,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
Settlement Payment	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$26,745	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Supplies and Office Overhead	\$26,114	\$20,389	\$30,000	\$30,000	\$31,500	\$33,075	\$34,729	\$36,465	\$38,288	\$40,203	\$42,213	\$44,324	\$46,540	\$48,867	\$51,310	\$53,876	\$56,569	\$59,398
Subtotal	\$410,976	\$396,526	\$435,000	\$418,000	\$422,590	\$427,348	\$446,613	\$451,726	\$468,998	\$488,190	\$493,890	\$514,421	\$520,551	\$526,910	\$538,886	\$551,729	\$565,741	\$580,107
Residential/Commercial Collection Programs																		
Curbside Recycling	\$44,123	\$37,974	\$40,000	\$40,000	\$40,000	\$41,616	\$42,248	\$42,937	\$43,683	\$45,046	\$45,947	\$46,886	\$47,804	\$48,760	\$49,735	\$50,730	\$51,744	\$52,779
Drop-Off Recycling	\$271,028	\$288,361	\$293,000	\$293,000	\$297,960	\$309,019	\$316,204	\$323,594	\$331,182	\$338,966	\$346,934	\$354,988	\$363,145	\$371,408	\$379,773	\$388,238	\$396,815	\$405,427
Yard Waste Management	\$17,265	\$11,884	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
Household Hazardous Waste (HHW) Management	\$8,891	\$9,708	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Special Waste Scrap Tire Recycling	\$-	\$8,499	\$200	\$8,700	\$200	\$200	\$200	\$200	\$200	\$8,700	\$200	\$200	\$8,700	\$200	\$200	\$8,700	\$200	\$200
Management	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
Used Oil Recycling	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
and Services	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
Appliance Recycling	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a	In AC-4a
Special Event Recycling (See AC-2)	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
School Recycling (See AC-2)	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
Special Collection Routes (See AC-2)	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
Glass Bar Program	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2	In AC-2
Aluminum Buyback Program	\$-	\$-	\$-	\$-	\$-	\$42,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262	\$2,262
Subtotal	\$339,487	\$336,426	\$350,200	\$358,700	\$365,960	\$410,097	\$385,610	\$384,263	\$391,559	\$407,501	\$406,592	\$414,334	\$434,732	\$434,367	\$442,665	\$459,629	\$459,763	\$458,569
Financial Incentives/Grant Programs																		
Recycling and Market Development Grant Program	\$1,444	\$1,500	\$3,000	\$4,000	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Volunteer Recycling Assistance Group Grants	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23	In AC-23
Subtotal	\$1,444	\$1,500	\$3,000	\$4,000	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Education and Awareness	\$3,123	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
Subtotal	\$3,123	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
District Facilities and Other Programs																		
Curbside and PAYT Technical Assistance	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1	In AC-1
Annual Surveying	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9	In Admin-9
Auglaize County Material Recovery Facility	\$270,217	\$251,042	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Auglaize County Material Recovery Facility - Capital Improvements	\$16,941	\$107,775	\$344,057	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000
General Plan Implementation	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
DIV Waste Audits and Waste Reduction Resources	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-	\$-
Subtotal	\$297,158	\$358,817	\$594,057	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000
Total Expenditures	\$1,042,189	\$1,120,269	\$1,389,257	\$1,392,700	\$1,259,150	\$1,263,247	\$1,316,331	\$1,322,598	\$1,331,597	\$1,343,896	\$1,356,886	\$1,370,817	\$1,385,844	\$1,401,944	\$1,419,122	\$1,437,402	\$1,455,744	\$1,474,143
Difference	\$181,756	\$88,751	\$-112,440	\$-165,956	\$-31,037	\$-29,337	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440	\$-112,440
Ending Balance	\$590,200	\$676,951	\$654,511	\$398,554	\$387,518	\$387,518	\$338,181	\$259,999	\$373,807	\$600,618	\$845,637	\$1,081,009	\$1,083,042	\$853,263	\$1,011,982	\$1,164,755	\$1,287,807	\$757,547

IX. District Rules [ORC Section 3734.53(C)]

A. Existing Rules

According to Ohio Revised Code Section 3734.53(C), “the solid waste management plan of a county or joint district may provide for the adoption of rules under division (G) of section 343.01 of the Revised Code after approval of the plan under section 3734.521 or 3734.55 of the Revised Code.” The District reserves the authority for the Board to adopt rules under the provision of Ohio Revised Code.

There are no current plans to adopt new rules at the time of the development of this *Plan Update*.

The District intended to adopt new rules during the last planning period. Although the Plan under which the District is operating stated that these rules would be updated, the District did not officially update the rules. With the approval of this *Plan Update*, the District is rescinding all previous rules and formerly adopting the following rules:

Rule #1: Construction or Improvement of Solid Waste Facilities

Any person, municipal corporation, township or other political subdivision that plans to construct, enlarge, or modify any solid waste facility for the disposal, transfer or composting of solid waste must submit general plans and specifications for the proposed improvement to the District Board of Directors. The District Board of Directors must approve the facility as complying with the solid waste management plan or amended plan of the District before the facility is constructed, enlarged or modified.

Rule #2: Prohibiting the Disposal of Recyclable Material

No person shall incinerate or landfill separated recyclable materials without the prior consent of the solid waste district.

Rule #3: Prohibiting Scavenging

No person shall remove solid waste or recyclable material from any solid waste facility or from any solid waste or recyclable material collection site, including materials set out on private property for waste or recycling collection, unless that person is authorized to do so by the District. The rule will designate the persons that are authorized by the District to remove solid waste or recyclable materials.

Rule #4: Prohibiting Tampering or Damaging Facilities

No person shall tamper with or damage any solid waste facility located in the solid waste district.

B. Proposed Rules

The District reserves the right to adopt rules under division (G) of section 343.01 and under division (c) of section 3734.53 of the Revised Code. Such rules shall comply with the legislative grant of authority to the District to promulgate such rules and to regulate solid waste services, facilities and operation of the District in accordance with the Plan or amended Plan of the District and/or as authorized by applicable statutes, governmental regulations, local ordinances and rules of the District as now existing or hereafter enacted or amended.

Any rule promulgated by the District shall be designed to promote the health, safety and welfare of the residents of the District, effective and efficient administration and operation of the District, to comply with state requirements and/or to implement the Solid Waste Management Plan and amended Plan of the District. The District may conduct all reviews, investigations, evaluations, studies and hearings as the District deems necessary and appropriate to determine the character, degree and scope of any proposed rule.

Rule adoption shall follow the procedures listed in Section C before becoming final.

Rule Making Authority – ORC 343.01

The solid waste management plan provides the authority to the Board of Directors to adopt, publish, and enforce all of the rule-making powers authorized by Ohio Revised Code 343.01, Divisions (G)(1), (G)(2), (G)(3) and (G)(4) including the following:

ORC 343.01(G)(1)

To the extent authorized by the solid waste management plan of the district approved under section 3734.521 or 3734.55 of the Revised Code or subsequent amended plans of the district approved under section 3734.521 or 3734.56 of the Revised Code, the board of county commissioners of a county district or board of directors of a joint district may adopt, publish, and enforce rules doing any of the following:

- (1) Prohibiting or limiting the receipt of solid wastes generated outside the district or outside a service area prescribed in the solid waste management plan or amended plan, at facilities located within the solid waste management district, consistent with the projections

contained in the plan or amended plan under divisions (A)(6) and (7) of section 3734.53 of the Revised Code. However, rules adopted by a board under division (G)(1) of this section may be adopted and enforced with respect to solid waste disposal facilities in the solid waste management district that are not owned by a county or the solid waste management district only if the board submits an application to the director of environmental protection that demonstrates that there is insufficient capacity to dispose of all solid wastes that are generated within the district at the solid waste disposal facilities located within the district and the director approves the application. The demonstration in the application shall be based on projections contained in the plan or amended plan of the district. The director shall establish the form of the application. The approval or disapproval of such an application by the director is an action that is appealable under section 3745.04 of the Revised Code.

In addition, the director of environmental protection may issue an order modifying a rule adopted under division (G)(1) of this section to allow the disposal in the district of solid wastes from another county or joint solid waste management district if all of the following apply:

- (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the director's order;
- (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
- (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;
- (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;
- (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (G)(1)(a) to (d) of this section have been met;

- (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of the out-of-district wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years.

Any order issued under division (G)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.

ORC 343.01(G)(2)

Governing the maintenance, protection, and use of solid waste collection or other solid waste facilities located within its district. The rules adopted under division (G)(2) of this section shall not establish design standards for solid waste facilities and shall be consistent with the solid waste provisions of Chapter 3734 of the Revised Code and the rules adopted under those provisions. The rules adopted under division (G)(2) of this section may prohibit any person, municipal corporation, township, or other political subdivision from constructing, enlarging, or modifying any solid waste facility until general plans and specifications for the proposed improvement have been submitted to and approved by the board of county commissioners or board of directors as complying with the solid waste management plan or amended plan of the district.

The construction of such a facility shall be done under the supervision of the county sanitary engineer or, in the case of a joint district, a county sanitary engineer designated by the board of directors, and any person, municipal corporation, township, or other political subdivision proposing or constructing such improvements shall pay to the county or joint district all expenses incurred by the board in connection therewith. The sanitary engineer may enter upon any public or private property for the purpose of making surveys or examinations necessary for designing solid waste facilities or for supervising the construction, enlargement, modification, or operation of any such facilities. No person, municipal corporation, township, or other political subdivision shall forbid or interfere with the sanitary engineer or his authorized assistants entering upon such property for that purpose. If actual damage is done to property by the making of the surveys and examinations, a board shall pay the reasonable value of that damage to the owner of the property damaged, and the cost shall be included in the financing of the improvement for which the surveys and examinations are made.

ORC 343.01(G)(3)

Governing the development and implementation of a program for the inspection of solid wastes generated outside the boundaries of this state that are disposed of at solid waste facilities included in the district's solid waste management plan or amended plan. A board of county commissioners or board of directors or its authorized representative may enter upon the premises of any solid waste facility included in the district's solid waste management plan or amended plan for the purpose of conducting the inspections required or authorized by the rules adopted under division (G)(3) of this section. No person, municipal corporation, township, or other political subdivision shall forbid or interfere with a board of county commissioners or directors or its authorized representative entering upon the premises of any such solid waste facility for that purpose.

ORC 343.01(G)(4)

Exempting the owner or operator of any existing or proposed solid waste facility provided for in the plan or amended plan from compliance with any amendment to a township zoning resolution adopted under section 519.12 of the Revised Code or to a county rural zoning resolution adopted under section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised Code to open a new or modify an existing solid waste facility.

Rule Making Authority – ORC 3734.53

The solid waste management plan provides the authority to the Board of Directors to adopt, publish, and enforce all of the rule-making powers authorized by Ohio Revised Code 3734.53, Division (C) including the following:

- (1) Prohibiting or limiting the receipt at facilities covered by the plan of solid wastes generated outside the district or outside a prescribed service area consistent with the projections under divisions (A)(6) and (7) of this section, except that the director of environmental protection may issue an order modifying a rule authorized to be adopted under division (C)(1) of this section to allow the disposal in the district of wastes from another county or joint solid waste management district if all of the following apply:
 - (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the director's order;

- (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
 - (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;
 - (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;
 - (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (C)(1)(a) to (d) of this section have been met;
 - (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of the out-of-district wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years. Any order issued under division (C)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.
- (2) Governing the maintenance, protection, and use of solid waste collection, storage, disposal, transfer, recycling, processing, and resource recovery facilities within the district and requiring the submission of general plans and specifications for the construction, enlargement, or modification of any such facility to the board of county commissioners or board of directors of the district for review and approval as complying with the plan or amended plan of the district;
 - (3) Governing development and implementation of a program for the inspection of solid wastes generated outside the boundaries of the state that are being disposed of at solid waste facilities included in the district's plan;
 - (4) Exempting the owner or operator of any existing or proposed solid

waste facility provided for in the plan from compliance with any amendment to a township zoning resolution adopted under section 519.12 of the Revised Code or to a county rural zoning resolution adopted under section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised Code to open a new or modify an existing solid waste facility.

C. Rule Approval Process

Proposed rules shall be adopted and enforced by the Board of County Commissioners as provided in Section 343.01(G).



APPENDIX A

RESOLUTION FOR DISTRICT FORMATION



County Commissioners' Office
Auglaize County, Ohio
February 23, 1989

IN THE MATTER OF ESTABLISHING "THE AUGLAIZE COUNTY SOLID WASTE MANAGEMENT DISTRICT" PURSUANT
TO THE OHIO REVISED CODE.

The Board of County Commissioners of Auglaize County, Ohio met in regular session
on the 23rd day of February, 1989 with the following members present:

Norville W. Freymuth Robert V. Vogel Dow Wagner

Mr. Vogel moved the adoption of the following

RESOLUTION

WHEREAS, the Board of County Commissioners of Auglaize County did make application to
the Director of the Ohio E.P.A. for an exemption to form a solid waste management
district with a population of fewer than 120,000; and,

WHEREAS, the Director of the Ohio E.P.A. has issued the following final finding and order:

Date Issued: 2/17/89

Date Effective: 2/17/89

BEFORE THE
OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter Of:

Auglaize County Commissioners : Director's Final
: Findings and Orders

Under authority of Ohio Revised Code Section
3734.52, Division (B), the Director of Environmental
Protection (hereinafter "Director") hereby makes the
following Findings and issues the following Order.

FINDINGS

1. All Boards of County Commissioners are required to form, or
join with other counties to form, a solid waste management
district (SWMD) that includes all the territory of the
participating counties. Each single county or multi-county SWMD
must have a population of 120,000, but under certain circumstances
the Director can waive this requirement of the law. See ORC
Section 3734.52.
2. The Board of County Commissioners of Auglaize County has
applied to the Director for a waiver of the 120,000 population
requirement for a proposed SWMD to include only that county.
3. The Director may by ORC Section 3734.52, Div. (C)(2) grant a
waiver of the 120,000 population requirement if the waiver request
provides a statement of how the proposed district will provide for
sufficient solid waste facility capacity within the district, or
will provide for access to sufficient capacity, to dispose of all
solid wastes generated within the district for at least ten years
after the waiver request is filed.
4. The Director believes that the county has made the necessary
showing referred to in Finding No. 3 above.

ORDER

The request by Auglaize County for waiver of the 120,000
population requirement is granted.

IT IS SO ORDERED:


Richard L. Shank, Ph.D.

Director I certify this to be a true and accurate copy of the
official document as filed in the records of the Ohio
Environmental Protection Agency.

February 17, 1989
Date

Ohio Environmental Protection Agency
ENTERED DIRECTOR'S JOURNAL

By: Mary Carni Date: 2-17-89

FEB 17 1989

Resolution - continued
Establishing Solid Waste Management District
February 23, 1989

WHEREAS, Section 343.01, Div.(A) and 3734.52, Div.(5) of the Ohio Revised Code require the Board of County Commissioners of each county, prior to March 24, 1989, to establish, by resolution, and maintain a county solid waste management district that consists of all the incorporated and unincorporated territory within the county.

THEREFORE, BE IT RESOLVED, that the Board of County Commissioners of Auglaize County, Ohio, does hereby establish a solid waste management district, pursuant to Section 343.01, Div (A) and 3734.52, Div. (5) fo the Ohio Revised Code and that such district shall be known as "The Auglaize County Solid Waste Management District"; and

BE IT FURTHER RESOLVED that "The Auglaize County Solid Waste Management District" shall consist of all incorporated and unincorporated territroy within the county; and

BE IT FURTHER RESOLVED that a Certified Copy of this Resolution be forwarded to Mr. Michael Greenberg at the Ohio E.P.A.

Mr. Wagner seconded the Resolution and upon the roll being called, the vote resulted in the adoption of the resolution as follows:

Adopted this
23rd day of
February, 1989

BOARD OF COUNTY COMMISSIONERS
AUGLAIZE COUNTY, OHIO

<u>Norville W. Freymuth</u>	, <u>yes</u>
Norville W. Freymuth	
<u>Robert V. Vogel</u>	, <u>yes</u>
Robert V. Vogel	
<u>Dow Wagner</u>	, <u>yes</u>
Dow Wagner	

cc: ✓ Ohio E.P.A.
✓ City of St. Marys - Stan Davis
✓ City of Wapakoneta - Rex Katterheinrich
✓ Health Dept. - Fred Wierwille
✓ Tom Steva
✓ Auglaize County Twp. Trustees & Clerks Assn. - John Schorer, Pres.
✓ State Senator Robert Cupp
✓ State Senator Ben Gaeth
✓ State Representative James Davis
✓ State Representative John Stozich
✓ C.C.A.O. - Larry Long



APPENDIX B

PUBLIC NOTICES FOR PUBLIC HEARINGS AND PUBLIC COMMENT



AFFP
PUBLIC NOTICE AUGLAIZE COUNTY

Affidavit of Publication

STATE OF OHIO }
COUNTY OF AUGLAIZE } SS
COUNTY }

, being duly sworn, says:

That she is Amy Jump of the The Evening Leader, a daily newspaper of general circulation, printed and published in St. Marys, Auglaize County County, Ohio; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

May 08, 2019

That said newspaper was regularly issued and circulated on those dates.

SIGNED:




Amy Jump

Subscribed to and sworn to me this 8th day of May 2019.



Ammy L. Snyder, Business Manager, Auglaize County
County, Ohio

My commission expires: March 20, 2023


00002080 00019428

Auglaize County Solid Waste
PO Box 603
St. Marys, OH 45885

PUBLIC NOTICE
AUGLAIZE COUNTY SOLID WASTE MANAGEMENT DISTRICT
Public Comment Period and Public Hearing for
Draft Auglaize County Solid Waste Management Plan Update
(Updated 30-day Comment Period Dates)

The Auglaize County Solid Waste Management District (District) is establishing a 30-day written comment period (Friday, May 10, 2019 through Saturday, June 8, 2019) on the draft Auglaize County Solid Waste Management Plan Update (Plan Update) (Ohio Revised Code Section 3734.54). The District has prepared the draft Plan Update as required by Section 3734.54 of the Ohio Revised Code. The draft Plan Update includes a solid waste facility inventory, projections and strategies, facilities and programs to be used, an analysis of the progress made toward achieving state solid waste reduction goals, budget and fees to finance the Plan, and District rules.

This draft is an update to a previously approved solid waste plan. This Plan Update details existing programs, including residential recycling education and awareness programs, market development activities, and other programs such as the business waste assessment program and financial incentive programs. Other specific programs include curbside recycling, drop-off recycling, yard waste management, household hazardous management, used oil management, scrap tire management, battery recycling, appliance collection, special event recycling, glass bar and residential recycling, paper shredding, annual surveying and multi-family housing recycling.

The draft Plan Update includes a demonstration of access to capacity and determines there is more than fifteen years of landfill capacity available to the District. This draft Plan Update continues to authorize the Board of Auglaize County Commissioners to establish facility designations in accordance with Section 343.013 and 343.014 of the Ohio Revised Code.

The draft Plan Update includes a detailed siting strategy for the submission and review of plans, specifications, and applications of the siting strategy to proposed solid waste facilities including the maximum feasible utilization and exemption of existing in-District facilities.

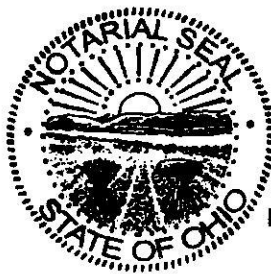
The draft Plan Update complies with State Plan Goal #1, which states that the District will ensure the availability of recycling and other waste reduction methods that are alternatives to landfilling for residential/commercial solid waste.

The District currently funds plan programs and current operations through a generation fee collected on all District-generated solid waste of \$9.00 per ton, but will be decreasing the generation fee to \$7.65 per ton in 2020. Additionally, the District funds programs through recycling revenue, rates and charges, state grants, special projects, reimbursements, and special projects and projects to earn additional revenue during the planning period on glass fees, paper shred fees, aluminum buyback, and MRF tipping fees. The District reserves the right to implement any of the finding mechanisms listed above at any point in the planning period.

The District will hold a public hearing to obtain oral comments regarding the draft Plan Update on Monday, June 17, 2019 at 3:00 p.m. at the Auglaize County Administration Building, 209 South Blackhoof Street, Room 201, Wapakoneta, OH 45895.

The District will accept written comments as required by Ohio Revised Code Section 3734.55 on the draft Plan Update from Friday, May 10, 2019 through Saturday, June 8, 2019. Written comments should be sent to Mr. Scott Cisco, District Coordinator, 15502 St. Marys River Road, St. Marys, OH 45885.

The draft Plan Update is available for review at the Auglaize County Solid Waste District, 15502 St. Marys River Road, St. Marys, OH 45885 during normal business hours, the Auglaize County Commissioner's office at 209 South Blackhoof Street, Room 201, Wapakoneta, OH 45895, and on the District's website at <https://www2.auglaizecounty.org/resources/recycling-solid-waste>. Please call (419) 394-6721 with any questions about the Plan Update or the opportunity to review a copy.



AMMY L. SNYDER
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STATE OF OHIO
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Auglaize County
My Comm. Exp. 3/20/2023

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1/1

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PO Box 603
St. Marys, OH 45885

Acct. #: 00002080

Phone: #:

Post Date: 05/8/2019

Ad #	Text	Start	Stop	Ins.	Amount	Prepaid	Due
00019428	PUBLIC NOTICE AUGLAIZE	05/8/2019	05/8/2019	1	342.84	0.00	342.84

Thank you for your business.

Please return a copy with payment

Total Due

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APPENDIX C

RESOLUTIONS AND CERTIFICATION STATEMENTS



CERTIFICATION STATEMENT FOR THE DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee of the Auglaize County 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 District 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 fifteen 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 3.0.

Representation	Signature for Yes Vote	Signature for No Vote
County Commissioner	Don Regule	
Largest City	Tom Stonebaugh	
Health District		
Townships	Brian Cook	
Industry		
General Interest of Citizens	Whit n. dhr	
Public		
Total Votes	5	

Date: January 15, 2019

Policy Committee Chairperson: Don Regule

Resolution Adopting the Solid Waste Management Plan

Resolution # 2019-02

A RESOLUTION DECLARING THAT THE AMENDED SOLID WASTE MANAGEMENT PLAN FOR THE AUGLAIZE COUNTY SOLID WASTE MANAGEMENT DISTRICT (DISTRICT) HAS BEEN ADOPTED.

Whereas, the District has completed the draft amended solid waste management Plan and submitted it to the Ohio Environmental Protection Agency for review and comment on February 5, 2019 and the Ohio Environmental Protection Agency provided comments in a non-binding advisory opinion on March 18, 2019.

Whereas, the Policy Committee has reviewed the non-binding advisory opinion received from the Ohio Environmental Protection Agency and taken their comments into consideration and incorporated changes into the amended Plan as appropriate;

Whereas the District has conducted a 30-day comment period (May 6, 2019 – June 4, 2019) and a public hearing held on Monday, June 17, 2019 to provide the public an opportunity to have input in this Plan;

NOW, THEREFORE, BE IT RESOLVED that the Auglaize County Solid Waste Management District:

1. Adopts the amended Plan as the District Plan after hearing any comments from the public hearing along with minor clerical changes.
2. Certifies that, to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the District's Plan, 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 fifteen-year period covered by the Plan, are accurate and are in compliance with the requirements of the District Solid Waste Management Plan Format, revision 3.0.
3. Directs that copies of the adopted Plan be delivered to the Board of County Commissioners and to the legislative authority of each municipal corporation and township under the jurisdiction of the District for ratification by June 24, 2019.

This resolution shall be in effect immediately upon its adoption.

Auglaize County Policy Committee		
Representation	Signature for Yes Vote	Signature for No Vote
County Commissioner	Don Regula	
Largest City	Tom Hurlburt	
Health District	[Signature]	
Townships	Brian Cook Anthony Elsworth	
Industry		
General Interest of Citizens	Inja Kimmel	
Public		
Total Votes	5	0

Policy Committee Chair Signature: Don Regula

Date: 6-17-2014 - 3:30 p.m.



APPENDIX D

IDENTIFICATION OF CONSULTANTS RETAINED FOR PLAN PREPARATION



Identification of Consultants for Plan Preparation

Consulting Firm: GT Environmental, Inc.
2400 Corporate Exchange Drive
Suite 150
Columbus, Ohio 43231

Project Manager: James A. Skora
Materials Management and Sustainability
Business Unit Manager
(330) 603-0138



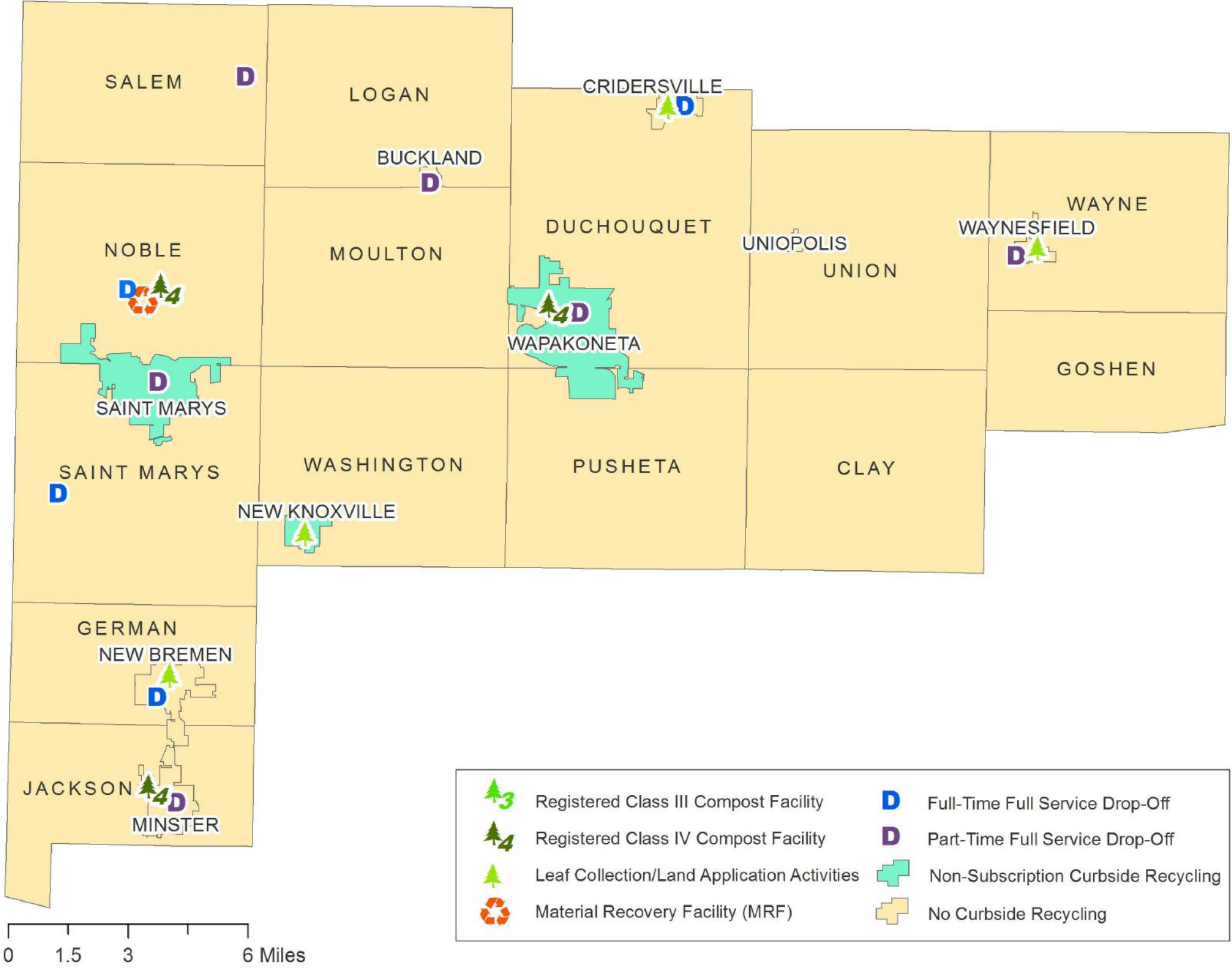


APPENDIX E

DISTRICT MAP



District Map





APPENDIX F

INDUSTRIAL SURVEY RESULTS



Appendix F
Auglaize County Solid Waste Management District
Amount of Industrial Waste Recycled by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	1,355.0	-	1.0		-	-	24.4	120.0	-	57.0	-	2.6	105.6	4.2	527.0	-	230.1	-	14.3	2,441.10
Ferrous Metals	208.7	-	3.0	3.0	-	-	-	27.0	-	457.6	-	-	257.0	746.8	6,219.9	-	7,019.5	-	2,965.2	17,907.68
Wood	103.5	-	-	1.0	-	-	40.0	600.0	-	317.6	-	-	6.0	25.5	1,679.7	-	101.8	-	57.1	2,932.19
Food	12296.43	-	-		-	-			-		-	-	-	-	-	-		-		12,296.43
Non-Ferrous Metals	6.1	-	-	0.2	-	-	120.0	3.0	-		-	0.0	12.7	323.7	291.1	-	3.0	-	1,964.8	2,724.64
Paper	320.7	-	1.0		-	-	680.7		-	2.9	-	0.1	164.6	7.9	153.5	-	4.7	-	1.3	1,337.29
Plastic	0.9735	-	-		-	30.4	-	4,890.1	-	145.7	-	0.3	139.2	2.0	89.4	-	415.3	-	10.2	5,723.50
Commingled	-	-	-		-	-	10.0		-		-	-	-	-	-	-		-		10.00
Glass	-	-	-		-	-	-		-		-	-	-	-	-	-	0.0	-	0.1	0.16
Yard Waste	-	-	-		-	-	-		-		-	-	-	-	-	-		-		-
Misc.	-	-	84.0	3.5	-	-	-	12,863.2	-	824.3	-	-	0.0	1.0	-	-	285.5	-	19.8	14,081.39
Batteries	1.7	-	0.3		-	-	-		-	1.5	-	-	-	0.0	177.7	-	0.1	-	0.1	181.38
Total	14,293.11	-	89.25	7.70	-	30.4	875.1	18,503.3	-	1,806.6	-	2.9	685.1	1,111.2	9,138.3	-	8,059.9	-	5,032.9	59,635.76

Source(s) of information:
CY 2017 Industrial Survey Responses

Appendix F

Auglaize County Solid Waste Management District

Amount of Industrial Waste Generated by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	1,355.0	-	1.0	-	-	-	24.4	120.0	-	57.0	-	2.6	105.6	4.2	527.0	-	230.1	-	14.3	2,441.1
Ferrous Metals	208.7	-	3.0	3.0	-	-	-	27.0	-	457.6	-	-	257.0	746.8	6,219.9	-	7,019.5	-	2,965.2	17,907.7
Wood	103.5	-	-	1.0	-	-	40.0	600.0	-	317.6	-	-	6.0	25.5	1,679.7	-	101.8	-	57.1	2,932.2
Food	12,296.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,296.4
Non-Ferrous Metals	6.1	-	-	0.2	-	-	120.0	3.0	-	-	-	0.0	12.7	323.7	291.1	-	3.0	-	1,964.8	2,724.6
Paper	320.7	-	1.0	-	-	-	680.7	-	-	2.9	-	0.1	164.6	7.9	153.5	-	4.7	-	1.3	1,337.3
Plastic	1.0	-	-	-	-	30.4	-	4,890.1	-	145.7	-	0.3	139.2	2.0	89.4	-	415.3	-	10.2	5,723.5
Commingled	-	-	-	-	-	-	10.0	-	-	-	-	-	-	-	-	-	-	-	-	10.0
Glass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	0.1	0.2
Yard Waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Misc.	-	-	84.0	3.5	-	-	-	12,863.2	-	824.3	-	-	0.0	1.0	-	-	285.5	-	19.8	14,081.4
Batteries	1.7	-	0.3	-	-	-	-	-	-	1.5	-	-	-	0.0	177.7	-	0.1	-	0.1	181.4
General Solid Waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	14,293.1	-	89.3	7.7	-	30.4	875.1	18,503.3	-	1,806.6	-	2.9	685.1	1,111.2	9,138.3	-	8,059.9	-	5,032.9	59,635.8

Source(s) of information:
CY 2017 Industrial Survey Responses



APPENDIX G

SURVEY INSTRUMENTS



Auglaize County Solid Waste District 2017 COMMERCIAL/INSTITUTIONAL 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 *within* Auglaize County.

Confidentiality: The Auglaize County 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.

Submitting: Upon completion, please return this survey by **February 28, 2018** in the enclosed pre- paid envelope or e-mail to arohm@auglaizecounty.org.

If you have any questions, please call Auglaize County SWMD's ADR Office Coordinator, Alexa Rohm, at 419-394-1270.

Part I - General Information

Company Name: _____

Address: _____

City: _____ **Zip:** _____

Contact Person: _____ **Phone:** _____

of Employees: _____ **SIC Code:** _____

Part II –Recycling

Table 1 –Data recorded in this table should include all of the recyclables generated by your company in **2017** along with the processor/recycler/broker used for each material recycled. Please estimate the quantities of **each type** of material recycled in tons. **The data in the recycled column is used to calculate the SWMD'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.

Table 1 - Recycling in 2017			
	Category	Total Tons Recycled	Processor/Recycler/Broker
	<i>EXAMPLE: Mixed Paper</i>	<i>2.5 tons (T)</i>	<i>Auglaize Co. Recycling</i>
PAPER	Mixed Paper (newspaper, office, junk, etc.)		
	Cardboard ¹ (use Table 2 if needed)		
	Books/Catalogs		
WOOD	Wood		
	Pallets		

METALS	Aluminum Beverage Containers		
	Steel Beverage Containers		
	Non-Ferrous Metals (aluminum)		
	Ferrous Metals (steel, iron)		
	Copper, Brass		
	Appliances (white goods)		

PLASTICS	Mixed #1 & # 2 plastic bottles and jugs		
	Other Plastics		

GLASS	Glass		
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RUBBER	Rubber (not including tires)		
	Car/Truck/Tractor Tires		

OTHER	Commingled (mixed, single stream)		
	Textiles (Clothing)		
	Food		
	Yard Waste (Grass, Brush)		
	Lead Acid (Automotive) Batteries		
	Dry Cell Batteries		
	Used Oil (residential only) ²		
	Used Antifreeze (residential only) ²		
	Electronics ²		
	Ash (non-hazardous)		
	Other:		
	Other:		
	Other:		
	Other:		
TOTALS:			

¹ The SWMD realizes that commercial businesses may primarily recycle cardboard only but may not have actual weights of the cardboard based on the style of service provided (dumpster service). The SWMD has provided the following table to document the amount of cardboard recycled annually. Simply fill in the size of your dumpster (2, 4, 6, 8 or 10 cubic yard), how full it is when picked up on average (as a percentage) and the number of times the dumpster is emptied each week. Then use the formula in the table below to calculate your annual tonnage of cardboard. An example is given to assist you in the calculation. If you have additional dumpsters, simply perform the same exercise for each separate dumpster. The total tons recycled can then be transferred to the cardboard total in Table 1.

² Enter only the amount generated by residents; exclude the quantity generated by businesses.

Table 2 - Recycled Cardboard Calculator				
Dumpster	Size of Dumpster (Cubic Yards) (A)	Percentage Full When Picked Up (B)	No. of Pickups per Week (C)	Estimated Cardboard Recycled (Tons) $(A) \times (B) \times (C) \times 52 / 20$
Example:	6 Cubic Yards	80% Full	1 time / week	$(6 \times 0.80 \times 1 \times 52 / 20)$ = 12.48 tons
1				
2				
3				
4				
5				
Total Cardboard Recycled in Tons (T) (Enter into Table 1) :				

Return the survey in the enclosed envelope or e-mail to
arohm@auglaizecounty.org.

THANK YOU FOR COMPLETING THIS SURVEY!

Auglaize County Solid Waste District 2017 INDUSTRIAL RECYCLING/DISPOSAL SURVEY

Instructions: Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated *within* Auglaize County.

Confidentiality: The Auglaize County 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.

Submitting: Upon completion, please return this survey by **February 28, 2018** in the enclosed pre- paid envelope or e-mail to arohm@auglaizecounty.org.

If you have any questions, please call Auglaize County SWMD's ADR Office Coordinator, Alexa Rohm, at 419-394-1270.

Part I - General Information

Company Name: _____

Address: _____

City: _____ **Zip:** _____

Contact Person: _____ **Phone:** _____

of Employees: _____ **SIC Code:** _____

Part II –Recycling

Table 1 – Data recorded in this table should include all of the solid waste recycled by your company in **2017** along with the processor/recycler/broker/landfill/transfer station used for each material recycled. Please provide the known or estimated quantities of **each type** of material recycled in tons. **The data in the recycled column is used to calculate the SWD'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.

Table 1 - Recycling in 2017			
	Category	Total Tons Recycled	Processor/Recycler/Broker
	<i>EXAMPLE: Mixed Paper</i>	<i>2.5 tons (T)</i>	<i>Auglaize Co. Recycling</i>
PAPER	Mixed Paper		
	Cardboard ¹ (use Table 2 if needed)		
	Newsprint		
	Office Paper		
	Other Paper (Specify):		
WOOD	Wood		
	Sawdust		
	Board Ends		
	Pallets		

METALS	Aluminum Beverage Containers		
	Steel Beverage Containers		
	Non-Ferrous Metals (aluminum)		
	Ferrous Metals (steel, iron)		
	Copper, Brass		
	Appliances (white goods)		

PLASTICS	Mixed Plastics		
	PETE Plastic #1		
	HDPE Plastic #2 (Color/Natural)		
	PVC Plastic #3		
	LDPE Plastic #4		
	Polypropylene Plastic #5		
	Polystyrene Plastic #6		
	Other Plastics (Specify):		

GLASS	Glass		
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RUBBER	Rubber (not including tires)		
	Passenger Tires		
	Light Truck/Semi Tires		
	Tractor Tires		

OTHER	Commingled (mixed, single stream)		
	Composites		
	Textiles (Clothing)		
	Food		
	Yard Waste (Grass, Brush)		
	Lead Acid (Automotive) Batteries		

	Dry Cell Batteries		
	Used Oil (residential only)		
	Used Antifreeze (residential only)		
	Other:		
	Other:		
	Other:		
	Other:		
	TOTALS:		

¹ The SWMD realizes that commercial businesses may primarily recycle cardboard only but may not have actual weights of the cardboard based on the style of service provided (dumpster service). The SWMD has provided the following table to document the amount of cardboard recycled annually. Simply fill in the size of your dumpster (2, 4, 6, 8 or 10 cubic yard), how full it is when picked up on average (as a percentage) and the number of times the dumpster is emptied each week. Then use the formula in the table below to calculate your annual tonnage of cardboard. An example is given to assist you in the calculation. If you have additional dumpsters, simply perform the same exercise for each separate dumpster. The total tons recycled can then be transferred to the cardboard total in Table 1.

Table 2 - Recycled Cardboard Calculator				
Dumpster	Size of Dumpster (Cubic Yards) (A)	Percentage Full When Picked Up (B)	No. of Pickups per Week (C)	Estimated Cardboard Recycled (Tons) $(A) \times (B) \times (C) \times 52 / 20$
Example:	6 Cubic Yards	80% Full	1 time / week	$(6 \times 0.80 \times 1 \times 52 / 20)$ = 12.48 tons
1				
2				
3				
4				
5				
Total Cardboard Recycled in Tons (T) (Enter into Table 1) :				

Return the survey in the enclosed envelope or e-mail to arohm@auglaizecounty.org.

THANK YOU FOR COMPLETING THIS SURVEY!

Auglaize County Solid Waste District 2017 COMPOST FACILITY SURVEY

Instructions: Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that is generated *within* Auglaize County.

Confidentiality: The Auglaize County 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.

Submitting: Upon completion, please return this survey by **February 28, 2018** in the enclosed pre- paid envelope or e-mail to arohm@auglaizecounty.org.

If you have any questions, please call Auglaize County SWMD's ADR Office Coordinator, Alexa Rohm, at 419-394-1270.

Part 1 – General Information

Company Name _____
Street Address _____
City _____ Zip _____
Contact Person _____ Phone _____

Part 2- Composting Operations in 2017

Please report the amount of materials composted in **2017** that were generated within Auglaize County in the table below. Please report by whether materials were generated by the residential/commercial sector or the industrial sector. **The data in the recycled column is used to calculate the SWMD's progress in meeting state and local recycling goals.**

For data conversions assume the following: 2,000 pounds = 1 ton (T); 3 cubic yards = 1 ton (T).

Material Generated in Lucas County	Residential/Commercial Material (Tons) (A)	Industrial Material (Tons) (B)	Total Material (Tons) (A+B)	Bulking Agents Added (Tons)	Non-Compostables landfilled (TPY)*	Final Compost Produced (TPY)*
Grass						
Leaves						
Brush						
Food Waste						
Animal waste						
Other:						
Other:						
Other:						
Other:						
Totals						

*TPY = Tons Per Year

Return the survey by February 28, 2018 in the enclosed envelope or e-mail to arohm@auglaizecounty.org.

THANK YOU FOR COMPLETING THIS SURVEY!

2017 RECYCLING HAULER / DROP-OFF / MUNICIPAL 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 *within* Auglaize County.

Confidentiality: The Auglaize County 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.

Submitting: Upon completion, please return this survey by **February 28, 2018** in the enclosed pre- paid envelope or e-mail to arohm@auglaizecounty.org.

If you have any questions, please call Auglaize County SWMD's ADR Office Coordinator, Alexa Rohm, at 419-394-1270.

Part 1 - General Information

Company Name _____
Street Address _____
City _____ Zip _____
Contact Person _____ Phone _____
Hours Open to the Public: _____ Days Open to the Public: _____

Part 2 – Facility Information

1. In **2017**, where did your facility accept material from? Please check all that apply.

- ☐ Auglaize County locations only
- ☐ Ohio counties other than Auglaize County
- ☐ Outside Ohio

2. How do you define your recycling activities? Please check all that apply.

- | | | |
|---|--|---|
| <input type="checkbox"/> Recycling Broker | <input type="checkbox"/> Scrap Yard | <input type="checkbox"/> Buyback Recycling Center |
| <input type="checkbox"/> Drop-Off Facility | <input type="checkbox"/> Hauler Collection | <input type="checkbox"/> Curbside Program |
| <input type="checkbox"/> Processor/End User | <input type="checkbox"/> Other: _____ | |

3. Do you accept materials from the public? ☐ Yes, publicly available ☐ No, private use only

Part 3 – Recycling Totals

Please report the amount of materials recycled in 2017 that were generated within Auglaize County on Table 1. Please report by whether materials were generated by the residential/commercial sector or the industrial sector.

The data in the tonnage columns is used to calculate the District's in meeting state and local recycling goals. For data conversions assume the following: 2,000 pounds = 1 ton (T); 3 cubic yards = 1 ton (T); 7.5 lbs = 1 gallon of used oil; and 8 lbs = 1 gallon of used antifreeze.

(Please complete Table 1 and if needed Table 2)

Table 1 - Recycling in 2017

	Category	Residential/Commercial Sector Tons Recycled	Industrial Sector Tons Recycled
	<i>EXAMPLE: Mixed Paper</i>	<i>265 tons (T)</i>	<i>185 tons (T)</i>
PAPER	Mixed Paper		
	Cardboard ¹ (use Table 2 if needed)		
	Newspaper		
	Office Paper		
	Other Paper (Specify):		
WOOD	Wood		
	Pallets		
METALS	Aluminum Beverage Containers		
	Steel Beverage Containers		
	Non-Ferrous Metals (aluminum, copper, brass)		
	Ferrous Metals (steel, iron)		
	Appliances (white goods)		
PLASTICS	Mixed Plastics		
	PETE Plastic (#1)		
	HDPE Plastics (#2, Color/Natural)		
	Plastics #3-#7		
GLASS	Glass		
RUBBER	Rubber (not including tires)		
	Passenger Tires		
	Light Truck Tires		
	Semi or Tractor Tires		

OTHER	Commingled (mixed, single stream)		
	Textiles (Clothing)		
	Food		
	Yard Waste (Grass, Brush)		
	Lead Acid Batteries		
	Stone/Clay/Sand		
	Concrete		
	Non-Exempt Foundry Sand/Slag		
	Ash		
	Sludge		
	Dry Cell Batteries		
	Used Oil (residential only)		
	Used Antifreeze (residential only)		
	Other:		
	Other:		
	Other:		
	Other:		
TOTALS:			

Table 2 - Recycled Cardboard Calculator				
Dumpster	Size of Dumpster (Cubic Yards) (A)	Percentage Full When Picked Up (B)	No. of Pickups per Week (C)	Estimated Cardboard Recycled (Tons) $(A) \times (B) \times (C) \times 52 / 20$
Example:	6 Cubic Yards	80% Full	1 time / week	$(6 \times 0.80 \times 1 \times 52 / 20)$ = 12.48 tons
1				
2				
3				
4				
5				
Total Cardboard Recycled in Tons (T) (Enter into Table 1) :				

Return the survey by February 28, 2018 in the enclosed envelope or e-mail to
arohm@auglaizecounty.org.

THANK YOU FOR COMPLETING THIS SURVEY!



APPENDIX H

PRATT INDUSTRIES SURVEY



Auglaize County Solid Waste Management District Pratt Industries – Wapakoneta Survey



Instructions: Please complete the survey to the best of your ability using projections *only* for Auglaize-generated and Pratt-generated waste. See “Part II - Recycling” instructions for more detail.

Confidentiality: The Auglaize County SWMD will use the information in this survey to project Auglaize County waste generation in the next fifteen years.

Submitting: Please return by **November 19, 2018** by fax to 614-899-9255 or e-mail to ecoulton@gtenvironmental.com.

If you have any questions, please call the SWMD’s consultant at 614-794-3570 x19.

Part I - General Information

Company Name:		Pratt Industries		
Mailing Address	Street:	2860 Co Rd 25A		
	City:	Wapakoneta	State: OH	Zip: 45895
Contact Person:		Paul England	Phone: 678-562-4496	Email: pengland@prattindustries.com
# of Employees:		NAICS Code:		

Part II – Recycling

Please include all projected tonnages to be recycled by Pratt Industries - Wapakoneta in 2019 and 2024 only using quantities that were generated in Auglaize County.

Input column: Provide the projected tonnage of the recycled material generated *only* in Auglaize County and sent to Pratt Industries to be processed and used as feedstock or recycled off-site (Out-of-County feedstocks and recyclable materials are not counted for the purposes of this survey).

Output column: Provide the projected tonnage of the material generated by Pratt Industries’ manufacturing operations (bi-products and waste materials from paper mill operations) and sent to a processor to be recycled, composted, and/or to a waste-to-energy facility. Processor/Broker column is the destination for materials from the Output column. This helps the District plan capacity opportunities for the future.

Table 1 – Estimated Recycling for 2019 and 2024 (see directions above)

Category		2019 Recycling (tons)		2024 Recycling (tons)		Processor/Broker
		Input	Output	Input	Output	
Paper	Mixed Paper	480	0	520	0	Auglaize Co
	Cardboard	1,680	0	1,750	0	Auglaize Co
	Newsprint					
	Office Paper		300lbs		2 tons	Pratt Recycling
	Other Paper (specify):	50 tons		200 tons		Pratt Recycling
Wood	Wood					
	Sawdust					
	Board Ends					
	Pallets					
Metals	Aluminum Beverage Containers					
	Steel Beverage Containers					
	Non-Ferrous Metals (aluminum)					
	Ferrous Metals (steel, iron)					
	Copper, Brass					

Category		2019 Recycling (tons)		2024 Recycling (tons)		Processor/Broker
Plastics	Appliances (white goods)					
	Mixed plastics					
	PETE Plastic (#1)					
	HDPE Plastic (#2)					
	PVC Plastic (#3)					
	LDPE Plastic (#4)					
	Polypropylene Plastic (#5)					
	Polystyrene Plastic (#6)					
Glass	Other Plastics (specify)					
	Glass					
Rubber	Rubber (not including tires)					
	Passenger Tires					
	Light Truck/Semi Tires					
	Tractor Tires					
Other	Commingled (mixed, single stream)					
	Composites					
	Textiles (clothing)					
	Food					
	Yard Waste (grass, brush)					
	Lead Acid Batteries					
	Dry Cell Batteries					
	Used Oil (residential only)					
	Used Antifreeze (residential only)					
	Paper sludge/bi-product composted		13,350		39,600	Duneland
	Paper sludge/bi-product sent to waste-to-energy		25,365		75,000	RES Poly-Flow
	Other:					
	Other:					
	Totals	2,210		2,470		

Part III – Disposal

Table 2 – Estimated Disposal for 2019 and 2024

Category	2019 Disposal (tons)	2024 Disposal (tons)	Landfill(s) & Transfer Station(s) to be Used*
Trash/Landfilled	5,785	17,400	Tunnel Hill, Cherokee Run

*Please include in and out-of-state facilities

Return the survey by fax to 614-899-9255 or e-mail to eoulton@gtenvironmental.com

THANK YOU FOR COMPLETING THIS SURVEY!