



VAN WERTCOUNTY SOLID WASTE MANAGEMENT DISTRICT



2019 – 2033
DRAFT SOLID WASTE MANAGEMENT
PLAN UPDATE

January 2017

Prepared by:



VAN WERT COUNTY SOLID WASTE MANAGEMENT DISTRICT

2019 – 2033 DRAFT PLAN UPDATE

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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: April 10, 2012

Counties within district: Van Wert

Years in planning period: 15

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

Counties within District: Van Wert

Years in planning period: 15

Year 1 of the planning period: 2019

B. Reason for Plan Submittal

Mandatory five-year plan update.

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

Ohio law [ORC Section 3734.56(D)] requires the District's *Solid Waste Management Plan* to be updated when the Van Wert County Solid Waste Management District (District) Board of Directors (Board) determines that there has been a material change in circumstances from the circumstances addressed in the approved *Plan*. If a plan update is required due to a material change in circumstances, the plan update must address those portions of the plan that need to be modified due to the material change in circumstances.

In the event that a new or undesignated solid waste transfer, disposal, recycling or resource recovery facility is subsequently designated by the Board, or a new or undesignated facility is granted a waiver which permits the undesignated facility to accept solid waste generated within the District, and such designation or waiver is documented in a designation or waiver agreement, the Board may not determine that a material change in circumstances has occurred. The Board, as part of the consideration of its assessment of a new or undesignated facility on the *Plan*, may consider whether to change its contract fee or rates and charges.

In determining whether a material change in circumstances has occurred, the Board will consider the following:

- i. An assessment of changes in waste generation;
- ii. Capacity availability for disposal, transfer, composting, and management of restricted waste streams;
- iii. Strategies for waste reduction and/or recycling;
- iv. Substantial changes in the availability of waste reduction and recycling opportunities available to District residents;
- v. The availability of revenues for plan implementation;
- vi. Procedures to be followed for plan implementation;
- vii. Timetable for implementation of programs and/or activities;
- viii. Facility designations and the flow of waste (the addition or removal of a facility from the designated list is not a material change in circumstances); and
- ix. Any other factor that the Board considers relevant.

The Determination Criteria will be evaluated on the basis of the District Policy Committee's annual review of the approved *Plan*, and/or information obtained through the District Staff's monitoring program. The staff monitoring program includes the following:

- i. Quarterly analysis of District revenues;
- ii. Analysis of information acquired by District Staff for preparation of the Annual District Report;
- iii. Information acquired by District Staff through follow-up investigations of citizen complaints which indicate the existence of deviations from or noncompliance with the District Plan; and
- iv. Analysis of information voluntarily provided to the District Staff by state or local officials and employees, or owners and operators of solid waste collection, disposal, transfer, recycling activities, or resource recovery facilities, which indicate the existence of major deviations from and/or noncompliance with the District's Plan.

The Policy Committee or the District's Staff will immediately notify the Board of any reliable information that suggests that a change in circumstances has occurred that warrants the Board's consideration of whether a material change in circumstances has occurred.

Within 10 days from receipt of notification from the Policy Committee or the District Staff that there may be a material change in circumstances, the District's Board of Directors will request the District Staff to prepare a report which discusses the events or conditions that have changed as identified in the notice to the Board and apply the criteria listed in paragraph 1, above. The District Staff will prepare the report and submit it to the Board of Directors within 30 days of the Board's request. Within 10 days after the receipt of the District Staff's report, the Board will determine whether additional information is necessary for the Board to determine whether a material change has occurred. If the Board determines that additional information is required, the District Staff will revise its report to include such additional information and submit its revised report within 20 days from the Board's request for additional information.

Within 60 days after the Board's receipt of the District Staff's revised and final report, the Board will make a determination of whether the changed circumstances are material pursuant to the criteria listed in paragraph 1, above. The Board may obtain such additional information from sources other than the District Staff as the Board deems necessary and appropriate to assist the Board in its determination of whether a material change in circumstances has occurred.

It is important to note that a material change in circumstances has not occurred under some, but not necessarily all, of the following actions:

- An assessment of changes in waste generation where an excess or reduced waste generation situation that does not affect the District's ability to either finance or implement the solid waste plan is not considered a material change in circumstance.
- Capacity availability for disposal, transfer, composting, and management of restricted waste streams where a decreased capacity in any of the facilities relied upon by the District is not considered a material change in circumstance when the District can make arrangements for capacity and/or the reduction in capacity does not affect the District's ability to either finance or implement the solid waste plan.
- Substantial changes in the availability of waste reduction and recycling opportunities available to District residents or timetable for implementation. A material change in circumstances has not

occurred, however, where the Board is able to modify existing programs by making changes to existing initiatives, or implementing new initiatives which will supplement the objectives of existing programs to achieve the State Plan goals.

- Reduced or increased availability of revenues for plan implementation. No material change in circumstances has occurred, however, if the Board is able to maintain 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*.
- Facility designations and the flow of waste. New or changed facility designations such as an addition or removal of a facility from the designated list is not a material change in circumstances.

Upon the Board's determination that a material change in circumstances has occurred, the Board shall notify the District Policy Committee and the Director of the Ohio Environmental Protection Agency, in writing, within 10 days of the Board's determination. The Board's notice to the Policy Committee shall request the District Policy Committee to prepare a draft amended solid waste plan, pursuant to ORC 3734.56 (D), that addresses those portions of the District's Plan that the Board has determined may be affected, directly or indirectly, by the material change in circumstances.

D. District Formation and Certification Statement

The District is comprised of Van Wert County, excluding the Village of Delphos, since the majority of its population resides in Allen County. The portion of the Village of Scott, which is in Paulding County, was added to the District population because most of the Village's population resides in Van Wert County.

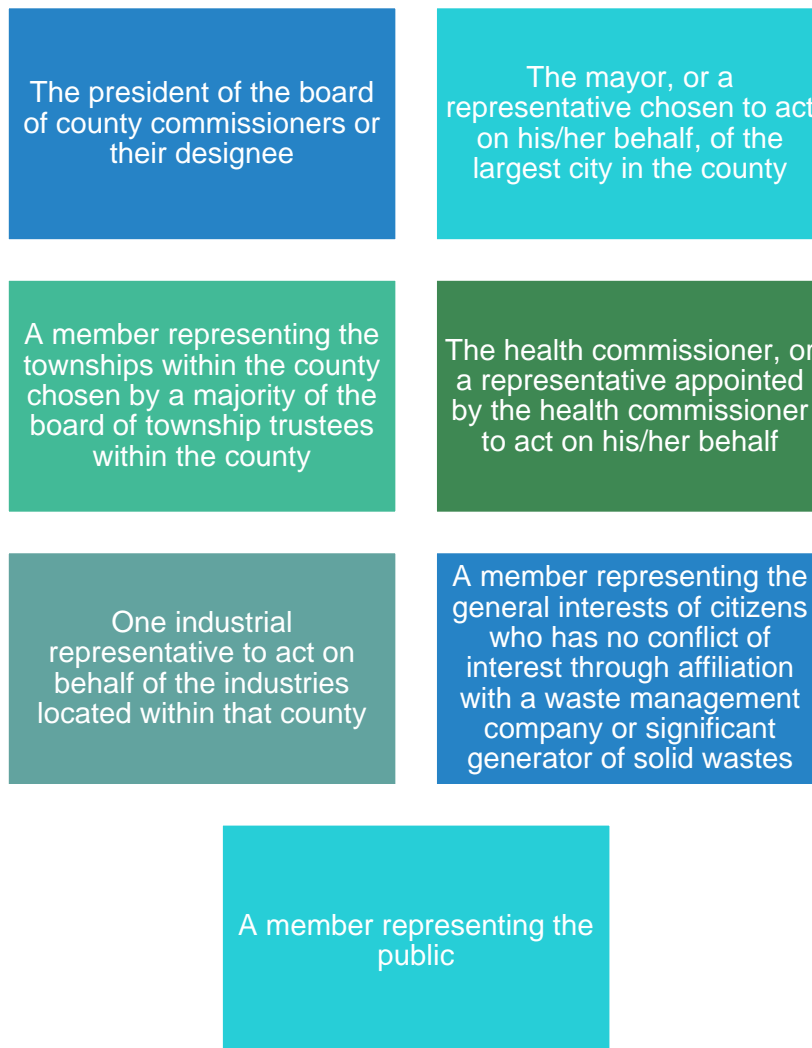
The District borders Adams and Allen counties of Indiana on the west, Paulding County, Ohio on the north, Putnam and Allen counties to the east, and Auglaize and Mercer counties to the south. U.S. 30 is the main route traveling east and west and U.S. 127 is the main route traveling north and south. The majority of land use is for grain production agriculture. There is a diminishing, but still somewhat significant, amount of manufacturing within the District. The City of Van Wert has the largest municipal population in the District and serves as the county seat. There is one licensed transfer station and one unlicensed transfer facility that provide waste transfer services for the District. There are no landfills located within the District.

The District formed in March, 1992. A copy of the resolution to establish the District is submitted 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 Board 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 Board members for both the draft amended *Plan Update* and the ratified draft amended *Plan Update*. Appendix C also includes resolutions by the Board 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 representatives, including:



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

Policy Committee Member	Representing
Stan Owens	County Commissioners
Jerry Mazur	Interests of the City of Van Wert
Britt Menchhofer	Interests of the Health District
Bill Poe	Interests of Townships
Allen Arnold, Chairman	Public
Kyle Wendel	General Interests of Citizens
Brad Schwartz	Interests of Industries

F. Board of Directors

Board Member	Role
Stan D. Owens	County Commissioner
Todd Wolfrum	County Commissioner, Chairman
Thad Lichtensteiger	County Commissioner

G. District Address and Phone Number

Address: Van Wert County Solid Waste Management District
 1135 North Washington Street
 Van Wert, Ohio 45891-9491

Contact: Mr. Jeff Harmon
 District Coordinator

Phone: (419) 238-7767
 Fax: (419) 238-7244
 Email: recyclevw@bright.net
 Web: www.recyclevw.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 District’s Board of Directors.

II. Executive Summary

The Van Wert 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 fifteen-year planning period beginning in 2019 and ending in 2033. This *Plan Update* includes a description of District programs and projections for solid waste generation, recycling and disposal for fifteen years. It also 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 to the Plan Format.

Section I

- Includes 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 which includes brief narrative descriptions of each section in the *Plan Update*.

Section III

- Includes an inventory of facilities, activities, and haulers used by the District in the reference year (2013).

Section IV

- Includes 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

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

Section VI

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

Section VII

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

Section VIII

- Includes 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

The District is comprised of Van Wert County, excluding the Village of Delphos, since the majority of its population resides in Allen County. The portion of the Village of Scott, which is in Paulding County, was added to the District population because most of the Village’s population resides in Van Wert County. The City of Van Wert has the largest municipal population in the District and serves as the county seat. The District was formed in March 1992.

The Board of County Commissioners of Van Wert County governs the District in their capacity as the Board of Commissioners of the Van Wert County Solid Waste Management District (hereinafter referred to as the “Board”).

The current Plan was approved by Ohio EPA on April 10, 2012 and includes a fifteen-year planning period. This *Plan Update* begins with the planning year 2019, and also 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 fees as appropriate. The Policy Committee members include:

Policy Committee Member	Representing
Stan Owens	County Commissioners
John Marshall	Interests of the City of Van Wert
Britt Menchhofer	Interests of the Health District
Bill Poe	Interests of Townships
Allen Arnold	Public
Kyle Wendel	General Interests of Citizens
Brad Schwartz	Interests of Industries

Board of Directors of the Lorain County Solid Waste Management District

The Board is responsible for implementing the solid waste plan developed by the Policy Committee.

Board Member	Role
Stan D. Owens	County Commissioner
Todd Wolfrum	County Commissioner, Chairman
Thad Lichtensteiger	County Commissioner

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:



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*.

B. Section III. Inventories

Section III provides an inventory of facilities, programs and activities during the reference year (2013) of the *Plan Update*.

Inventories include the following:

- Landfills
- Transfer Facilities
- Incinerators and Waste-to-Energy 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 2015 population estimate of 28,562 for Van Wert County is a projection from the Ohio Development Services Agency's *2016 Population Estimates by County, City, Village, and Township*. Based upon Ohio Revised Code requirements, the population of the Village of Scott was then added to the County total since the majority of residents in this Village reside in Van Wert County. The portion of the Village of Delphos residents living in Van Wert County was subtracted from District population since the majority of the Village's population resides in Allen County. The resulting total District population is 25,547 for 2015.

2. Waste Generation

Residential and commercial waste generation was calculated to be 14,787 tons in 2015, including 11,659 tons landfilled (see Table III-1) and 3,128 tons recycled, including composting and volume reduction (see Table IV-5). Based on the District population, this is 3.17 pounds per person per day of residential/commercial waste generation.

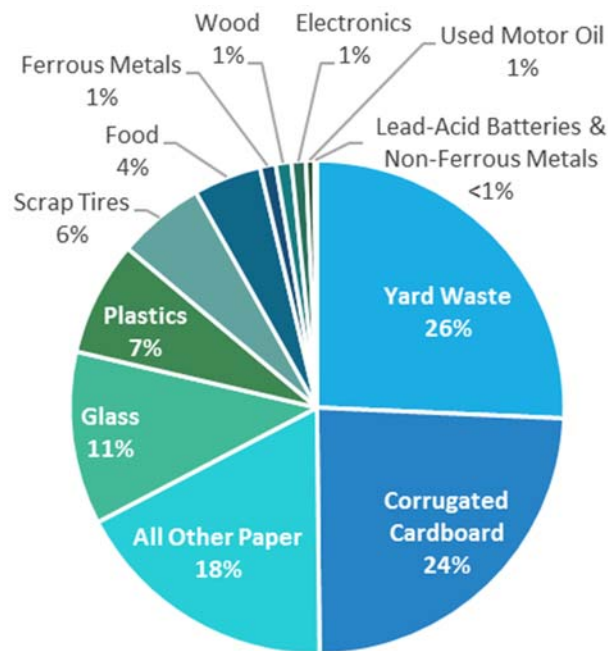
Industrial waste generation in 2015 was 19,158 tons. This includes 3,949 tons landfilled (see Table III-1) and 15,209 tons recycled (see Table IV-6). Based on the District population, this is 4.11 pounds per person per day of industrial waste generation.

3. Reference Year Waste Reduction

Residential/commercial waste reduction that occurred in the District during the reference year is summarized in Table IV-5. The residential/commercial waste reduction includes residential recycling activities such as curbside and drop-off collection; District sponsored special collection activities at the George E. Brake Recycling Center; and commercial recycling completed by commercial entities operating within the District; and composting.

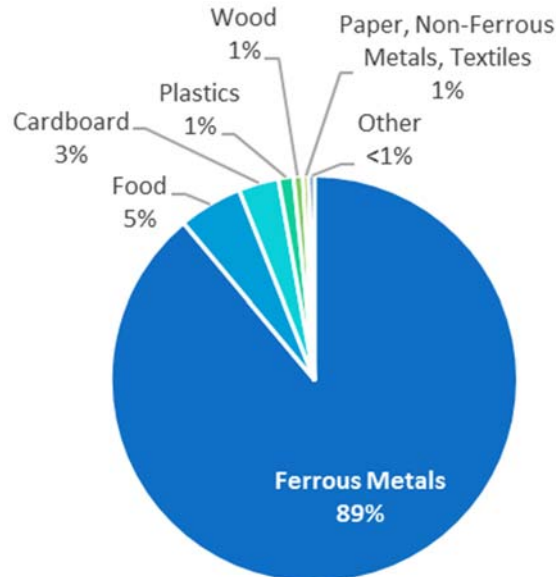
The following graph depicts the residential and commercial waste reduction totals as a percentage for 2015:

2015 Residential/Commercial Waste Reduction



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 2015.

2015 Industrial Waste Reduction



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

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 (2019 – 2033). New programs and changes to existing programs are presented in this section.

1. Population Projections

The District anticipates population will decrease over the fifteen-year planning period by 6.6%. The decrease in population is based upon projections provided by the Ohio Development Services Agency. The District is projecting a total population of 23,238 by 2033, which is a decrease of 1,639 over the planning period.

2. Waste Generation Projections

Residential/Commercial Sector

The total residential/commercial waste generation estimate for 2015 is 14,787 tons. After 2016, residential/commercial waste generation is projected to decrease steadily throughout the planning period consistent with the rate of population increase and projected changes in generation rates. Beginning in 2019, the first year of the planning period, residential/commercial waste is projected to be

16,165 tons. Generation is expected to decrease to 15,101 tons by 2033, representing a 6.6% decrease during the planning period.

Industrial Sector

Industrial waste generation is projected for industries categorized in Standard Industrial Classification (SIC) codes 20, and 22 through 39. Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period. Industrial waste generation projections are based on historical data trends from 2006 through 2015, and are greatly affected by the economic recession which occurred during this time period.

Due to changing characteristics of the manufacturing sector, the District expects that industrial waste generation will experience a modest increase through year 2022. Overall, the District projects industrial waste will increase from 12,893 tons in the first year of the planning period to 13,160 tons in 2033.

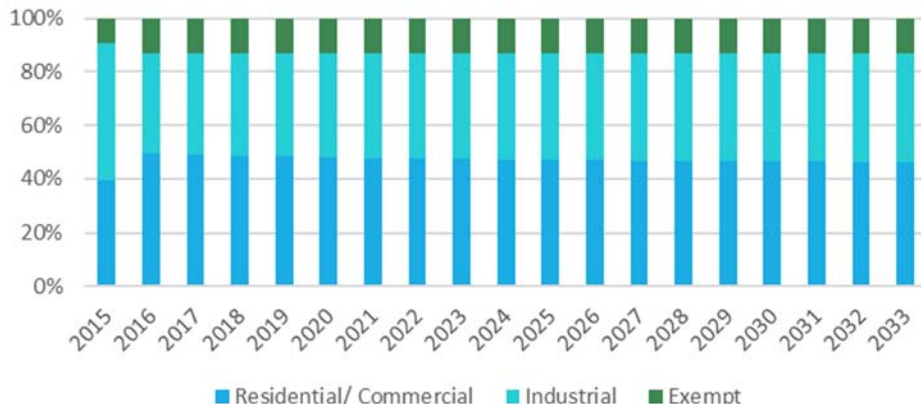
Total Waste Generation

The total waste generation estimate for the 2015 reference year is 37,446 tons. Detailed estimates are as follows:



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

District Total Waste Generation (2015 – 2033)



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*.

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District projects that the residential/commercial waste reduction strategies will increase recycling and waste reduction approximately 16 percent from 2016 through the end of the planning period. The majority of the increase is expected to be contributed from the following programs:

- Increases in yard waste composting; and
- Continuing to upgrade operations and services at the George E. Brake Recycling Center, including the expansion of the commercial collection recycling program.

This *Plan Update* continues the existing programs listed in Section IV and includes several new and/or revised programs. Specific changes to existing programs and details of new programs are provided in Section V.

Industrial/Commercial Waste Reduction/Recycling and Education Strategies

Although industrial recycling was estimated to be 79 percent in 2015, the District has taken a conservative approach in projecting recycling in this sector based upon much lower historical tonnages. The District projects industrial recycling will increase by approximately

500 tons from 2016 through 2022, then remain constant the remainder of the planning period. This *Plan Update* continues the existing programs listed in Section IV.

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

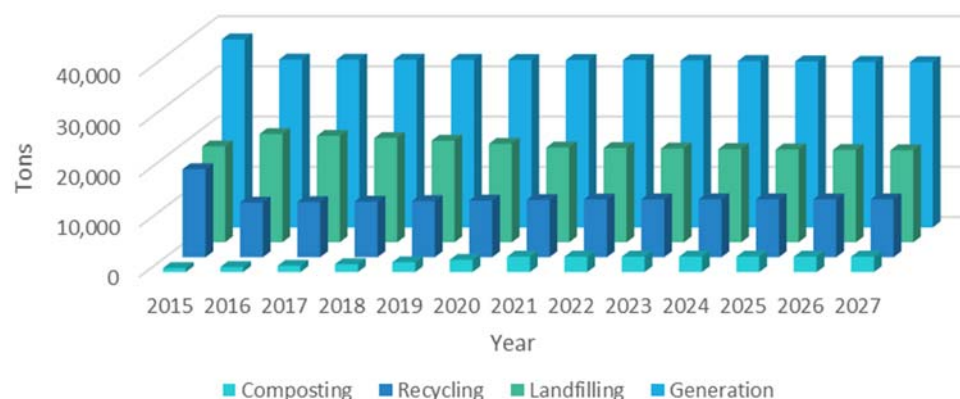
Section VI presents the District’s methods for managing solid waste. It includes management methods, a siting strategy, and a demonstration of capacity for the planning period 2019 – 2033.

1. District Methods for Management of Solid Waste

The net tons to be managed by the District in 2015 are calculated to be 37,446 tons. The landfill totals in Table VI-1 are calculated by subtracting recycling, yard waste composted, and waste reduced by incineration from the net tons to be managed. The District projects approximately 33,377 tons of solid waste will need to be managed in 2019¹ and, by the end of the planning period in 2033, the District will need to manage approximately 32,579 tons. The projected decrease in tonnage during the planning period is due to the anticipated decrease in residential/commercial waste generation.

The majority of the District’s waste will continue to be managed through landfilling during the planning period. Landfilling accounts for approximately 61 percent of the total waste managed in 2019, and this proportion decreases slightly over the planning period to 55 percent as recycling, waste reduction and composting increase marginally. The figure below shows the relationship among the management methods.

Total Generation and Management Methods



¹ The net tons managed decreases from 2015 to 2019 primarily due to a conservative projection regarding industrial recycling.

2. Demonstration of Access to Capacity

During the 2015 reference year, nine landfills managed 19,101 tons of solid waste generated by District residents, businesses and industries. Five of these landfills are located in other solid waste districts in Ohio, and the other four landfills are located in Indiana. The Defiance County Landfill received the highest percentage of the District's waste (41 percent).

Regional Capacity Analysis

The District's assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District's waste through December 31, 2033. The nine landfills presented in the following table have sufficient permitted capacity to manage the approximately 344,300 tons of solid waste (requiring 517,000 cubic yards of landfill airspace) from 2016 through 2033. All of the landfills, except the Celina Sanitary Landfill, have at least 24 years of available capacity as of 2015. (See Table ES-4 for more details regarding each of the nine landfills.)

3. Identification and Designation of Facilities

The District has designated nine landfills and two transfer stations to which solid waste must be taken for disposal or transfer. Appendix G contains a sample designation agreement.

In the approved Plan under which the District is currently operating, the District is authorized to establish or modify facility designations in accordance with Sections 343.013, 343.014, and 343.015 of the Ohio Revised Code.

4. Siting Strategy for Facilities

The District does not, as a part of this Plan, intend to site any District owned or operated facilities for the transfer or disposal of municipal solid waste. However, the District has developed a process which must be followed in the event that another party or entity wishes to site a solid waste transfer, disposal, recycling or resource recovery facility within the District. Section VI describes this process in detail.

5. Contingencies for Capacity Assurance and District Program Implementation

The District does not anticipate any capacity assurance or program implementation issues during this planning period. However, the District Director will make a recommendation to the Board on the

course of action to take within 120 days of confirmation of an interruption of landfill capacity or composting and recycling services. Additionally, the District will develop an alternative source of revenue if there is an interruption in landfill capacity, transfer station operations, or operations at any designated facility. The Board will direct the District Coordinator to develop alternatives for revenue generation to ensure program implementation as part of the management plan for the disposal of District solid waste.

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

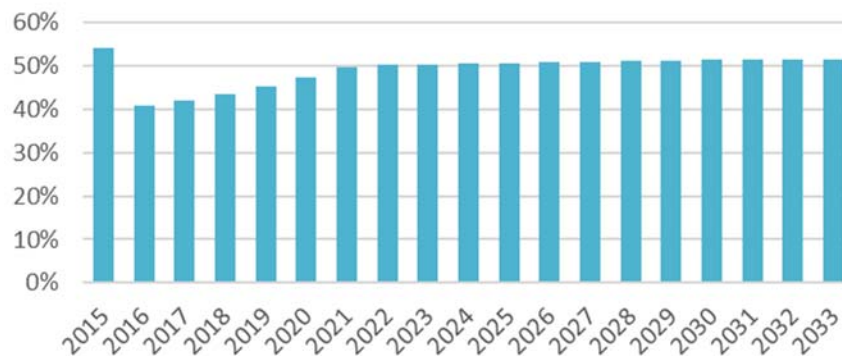
1. Compliance with Goal #1

The District will continue to comply with Goal #1: Access to Waste Management Opportunities. The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

For 2019, the first year of the planning period, the District is projected to exceed a 100% recycling access rate for the residential sector. The District continually works to improve the effectiveness of recycling opportunities. Therefore, the District will support and promote non-subscription curbside recycling and drop-off recycling throughout the County.

The District also intends to expand recycling collection services for commercial businesses in the District. Overall, the District’s annual waste reduction rate for the first year of the planning period (2019) is projected to be 45 percent. The waste reduction rate is expected to increase to 52 percent by the end of the planning period. The following figure shows the expected waste reduction/recycling percentage throughout the planning period.

District Total Waste Reduction/Recycling Percentage (2015 – 2033)



G. Section VIII. Cost of Financing Plan Implementation

1. Funding Mechanisms

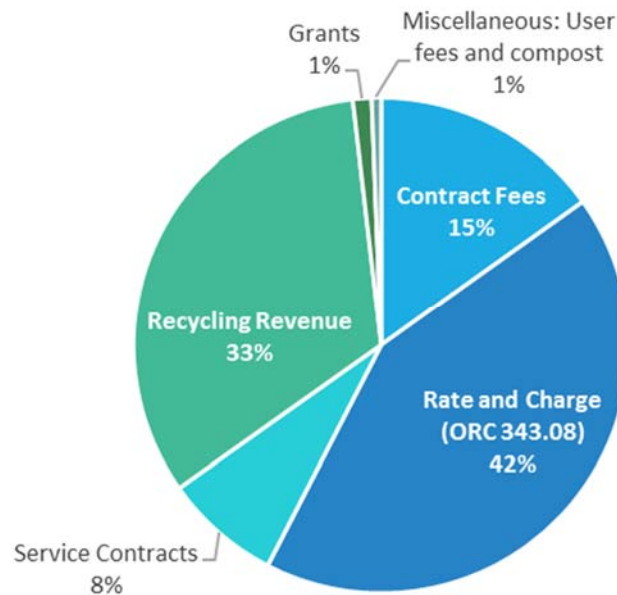
The District's funding mechanisms and sources of revenue include the following:

- **Contract/Designation Fees:** The District designates facilities as the only facilities authorized to accept solid waste generated in the District. The District receives \$5.30 per ton for each ton of solid waste generated in Van Wert County that is disposed at a designated facility.
- **Rates and Charges:** The District utilizes a two-tier rate and charge, as authorized under Ohio Revised Code (ORC) 343.08. The current rate and charge is five dollars (\$5.00) annually for households located in rural areas with monthly township drop-off access and thirty-three dollars and forty cents (\$33.40) for households receiving weekly curbside recycling service. An additional one dollar (\$1.00) is assessed to each parcel and retained by the Board of County Commissioners (Board) as a reimbursement for Board administrative expenses associated with the collection and dispersant of District funds. The total assessment per parcel is \$6.00 for rural areas and \$34.40 for households receiving weekly curbside service.
- **Service Contracts:** The District provides recycling drop-off collection and processing for Putnam and Allen counties. A contractual fee is paid to the District for the services.
- **Recycling Revenue:** The District receives revenue from the sales of recyclables processed at the District's material recovery facility (MRF).
- **Grants:** The District applies for Ohio EPA Community Grants for Recycling and Litter Prevention. The District received grants in 2015 and 2016.
- **Miscellaneous:** Miscellaneous revenue is comprised of two main categories: user fees for recycling televisions and monitors containing cathode-ray tubes (CRTs) and compost facility service fees (i.e., per scoop loading charges and commercial tree trimmers dumping fee).

a. Total District Revenues

In the 2015 reference year, total revenue was \$539,772. Total revenues are anticipated to increase from \$532,746 in the first year of the planning period (2019) to \$569,568 in 2033.

Percentage of Revenue Generated in 2015 by Type of Funding Mechanism

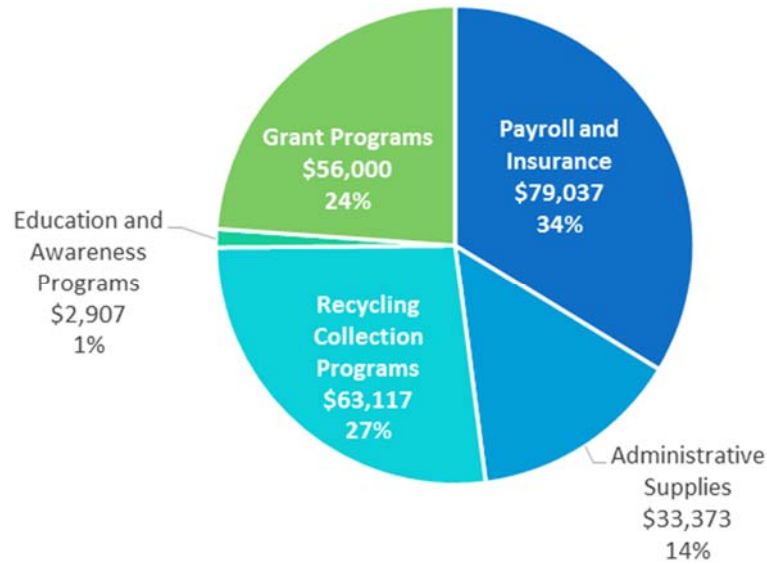


2. Cost of Plan Implementation

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

The District Director will allocate these funds with the approval of the County Commissioners. The following charts depict the major expenditures and percentage of the total budget for 2015:

2015 District Expenses



3. Contingent Funding

The District, Policy Committee, and Board do not consider funding to be an issue of concern during this planning period. The District will strive to maintain an unencumbered target balance equal to a minimum of approximately 20% of annual expenditures to maintain planned programs through economic downturns and provide base capital for major investments such as collection and processing equipment.

The District will seek supplemental funding through local financial institutions and the Board if need arises. The District will make necessary adjustment to current fee structures and operating expense to compensate for unforeseen expenditures or inflation.

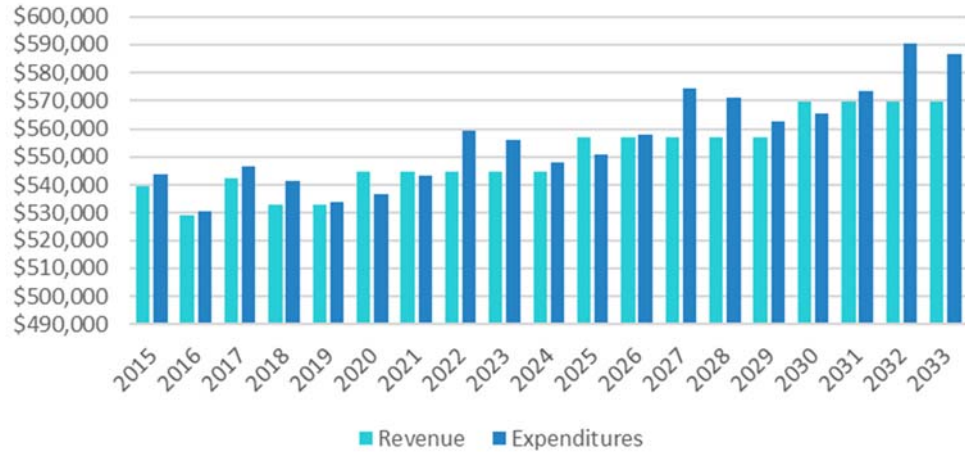
The District reserves the right to increase the designation fee, rate and charge and/or develop new funding mechanism if needed to maintain District programs to implement this *Plan Update* if funding becomes an issue.

4. 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. Revenue is projected to increase from \$532,746 in 2019 to \$569,568 in 2033. Expenditures in 2019 are projected to be \$533,828. Throughout the planning period, expenditures will average \$560,663 annually. The

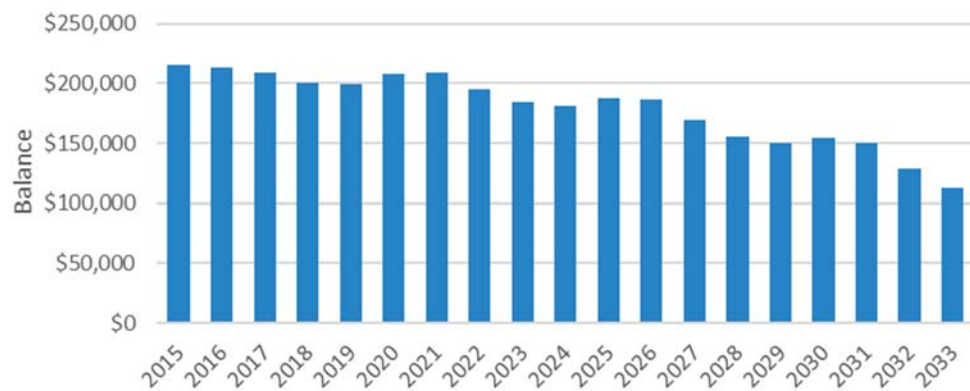
following figure presents the District's actual and projected revenue and expenditures from 2015 to 2033.

District Revenue and Expenses (2015 – 2033)



The District is projected to begin the planning period with a carryover balance of \$200,453, and conclude the planning period with a balance of approximately \$112,112. 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 2015 to 2033.

2015 – 2033 District Fund Balance



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

1. Existing Rules

The District maintains the authority to adopt rules consistent with the solid waste management plan adopted by the District in accordance and pursuant to Section 3734.53 (C)(1) through (C)(4) of the Revised Code. Rules adopted by the District are summarized in this section and include:

- Siting Strategy
- Facility Designation
- Waiver Process for Non-Designated Facilities

2. Proposed Rules

The District is not proposing new rules at this time. The District reserves the right to promulgate any rule in 343.01 of the Ohio Revised Code to assist in implementing any or all strategies necessary to achieve the waste management goals of this Amended Plan including:

- Prohibiting or limiting the receipt of waste generated outside the District;
- Governing the maintenance, protection, and use of solid waste collection, transfer, disposal, recycling, or resource recovery facilities;
- Governing a program to inspect out-of-state waste; and
- Exempting an owner or operator of a solid waste facility from compliance with local zoning requirement.

**Table ES-1
General Information**

District Name: Van Wert Solid Waste Management District		
District ID #	Reference Year 2015	Planning Period: 2019-2033
(for OEPA use only)		
<u>Plan Status (underline one)</u>		
D	RD	DR
Approved (date)	/	OI (date)
/	/	DA
Reason for Plan Submittal: Mandatory five year update		

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. Jerry Neumeier, District Director		
Address:	1135 North Washington Street		
City:	Van Wert	State:	Ohio
Phone:	(419) 238-7767	Zip:	45891
		Fax:	N/A

**Table ES-3
Plan Data Summary**

Plan Data		Reference Year 2015	2023 (year 5)	2028 (year 10)
Population		25,547	24,274	23,652
Generation	Industrial	19,158	13,160	13,160
	Res/Comm	14,787	15,774	15,370
	Exempt	3,501	4,319	4,319
Total Generation (tons)		37,446	33,253	32,848
Waste Reduction	Industrial Source Reduction	0	0	0
	Industrial Recycling	15,209	9,074	9,074
	Residential/Commercial Recycling	2,324	2,440	2,440
	Yard Waste Composting	804	3,067	3,067
Total Waste Reduction (tons)		18,337	14,580	14,580
Disposal	In-District Landfills	0	0	0
	Out-of-District Landfills	10,422	10,242	10,003
	Out-of-State Landfills	8,686	8,536	8,337
Total Landfill (tons)		19,109	18,778	18,340
Waste Reduction	Industrial	79.4%	69.0%	69.0%
	Residential/Commercial	21.2%	34.9%	35.8%

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

**Table ES-4
Existing Disposal Facilities**

Name	County	2015 District Tons	2015 Total Tons	Years Left
In-District Landfills				
None.				
Out-of-District Landfills				
Hancock County Sanitary Landfill	Hancock	211	127,831	30.10
Celina Sanitary Landfill	Mercer	391	46,452	6.60
Evergreen Recycling & Disposal	Wood	17	191,388	35.50
County Environmental of Wyandot	Wyandot	2,056	190,979	156.50
Defiance County Sanitary Landfill	Defiance	7,747	131,483	55.20
Out-of-State Landfills				
Jay County Landfill	Jay (IN)	1,656	161,497	41.61
National Serv-All Landfill	Allen (IN)	6,873	438,878	26.76
South Side Landfill	Marion (IN)	-	743,008	20.09
Hoosier Landfill 2	Kosciusko (IN)	157	93,724	23.72
Total/Average		19,109	2,125,241	44.01

Source(s) of information: 2015 Ohio Facility Data Report Tables, 2015 IDEM Quarterly Landfill Reports, Table III-1, and Table VI-4A

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

This section of the *Plan Update* provides a review of the solid waste management system during the 2015 reference year. The reference year is the baseline year used for data collection for solid waste programs, facilities and activities in the *Plan Update*. Projections developed in later sections in this *Plan Update* are based on the reference year inventories.

This section of the *Plan Update* describes how solid waste was collected, reduced, recycled, disposed, and ultimately managed in the Van Wert County Solid Waste Management District during 2015.

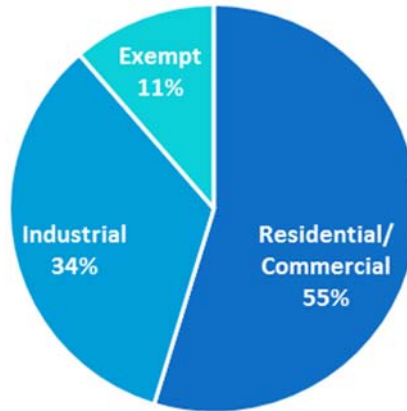
A. The Reference Year

The District will use calendar year 2015 as a reference year for all subsequent projections in the Plan.

B. Existing Solid Waste Landfills

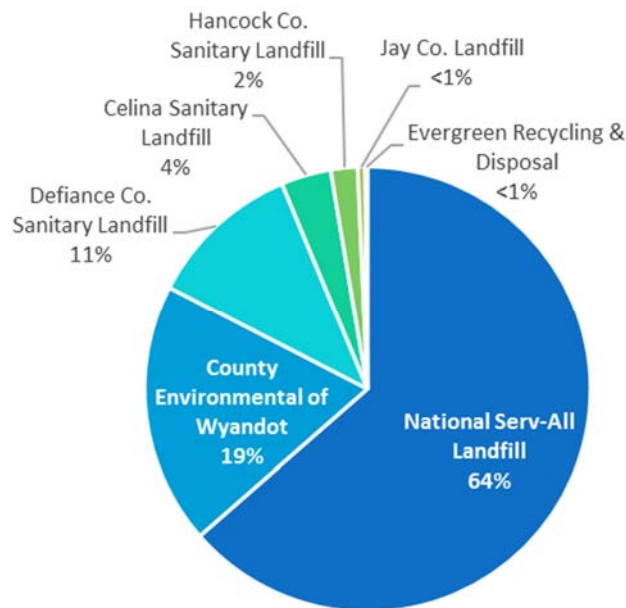
Table III-1, "Landfills Used by the District" presents a list of the landfills that received directly-hauled solid waste from the District. There are currently no operating MSW landfills located in the District. District-generated solid waste that was directly hauled (versus transferred) was managed at five out-of-district landfills and two Indiana landfills. Approximately 10,813 tons of solid waste was directly hauled to landfills for disposal in 2015. The residential/commercial sector generated 55% of the waste that was directly hauled and the industrial sector generated 34% of all directly-hauled waste. Exempt waste represented approximately 11% of the waste that was directly hauled. Exempt waste can include earth or materials from construction, mining, or demolition operations, nontoxic fly ash, nontoxic bottom ash, or slag. The following figure presents the percent of direct-hauled solid waste generated by each sector in 2015

2015 Percentage of Directly-Hauled Solid Waste Generated by Sector



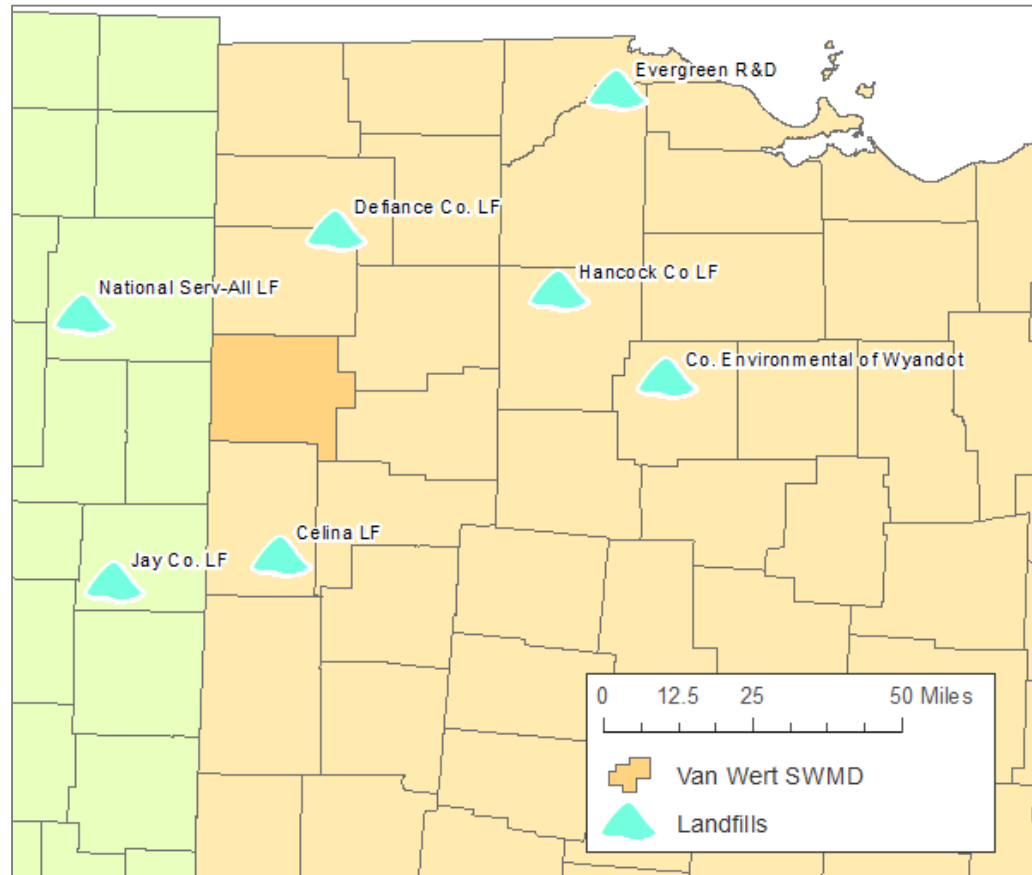
The National Serv-All Landfill in Allen County, Indiana received the largest portion of directly-hauled solid waste (approximately 64%), followed by the County Environmental of Wyandot (19%), the Defiance County Landfill (11%), the Celina Sanitary Landfill (4%), the Hancock County Sanitary Landfill (2%), the Jay County Landfill (Indiana) (<1%), and Evergreen Recycling and Disposal Facility in Wood County (<1%). The following figure presents the percentage of total tons directly hauled to each landfill for disposal.

2015 Percentage of Total Tons Directly Disposed by Landfill



The following map presents the locations of landfills that accepted directly-hauled solid waste generated in the District.

2015 Landfills that Accepted Directly-Hauled Solid Waste



C. Existing Incinerators and Resource Recovery Facilities

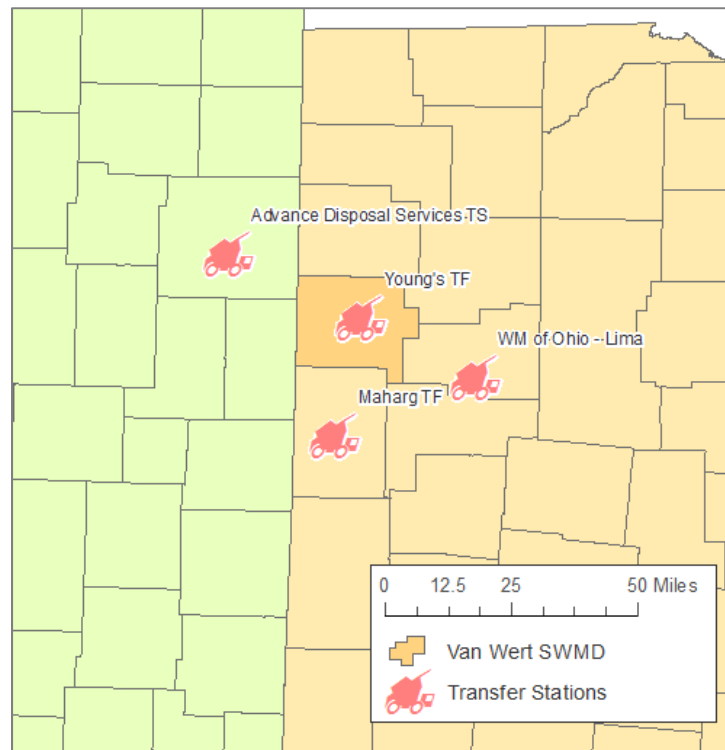
Table III-2, “Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District,” presents solid waste incinerators or waste-to-energy facilities used by the District. The State of Indiana reported approximately 113 tons of waste sent from the District to incinerators and waste-to-energy facilities during the reference year, however, this amount has not been included in Table III-2 nor in the estimation of total waste (Table IV-8) due to the small tonnage.

D. Existing Transfer Facilities

Table III-3, “Solid Waste Transfer Facilities Used by the District,” presents the transfer facilities that managed District-generated waste in 2015. Approximately 8,295 tons of waste were managed by transfer stations. The in-District transfer station operated by Young’s Waste Services received the largest portion of transferred waste (79%), followed by WM of Ohio – Lima Transfer Station located in Allen County (16%), Maharg Transfer Facility located in Mercer County (3%), and Advance Disposal Services Transfer Station located in Allen County, Indiana (2%). The

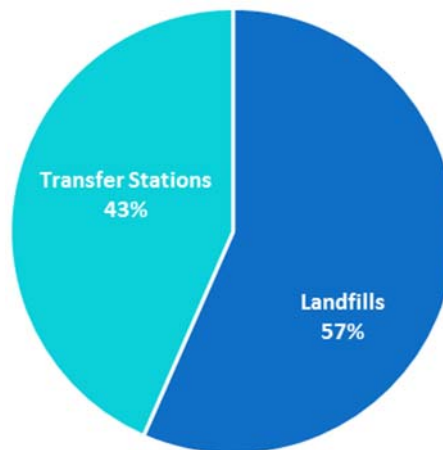
following map presents the locations of transfer stations used by the District.

2015 Transfer Stations Used by the District



The majority of solid waste (57%) was directly hauled to landfills for disposal; the remaining 43% of was delivered to a transfer station prior to being disposed at a landfill. The following figure presents the methods used to manage solid waste by percentage of the total waste disposed.

2015 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 that operated in 2015. During the reference year, there were eight non-subscription curbside recycling programs. Details regarding individual curbside recycling programs are discussed in Section IV of this *Plan Update*.

In 2015, a total of 928 tons of recyclables were collected from curbside recycling programs in the District. The following maps present areas that had access to curbside recycling in 2015:

2015 District Curbside Recycling Programs

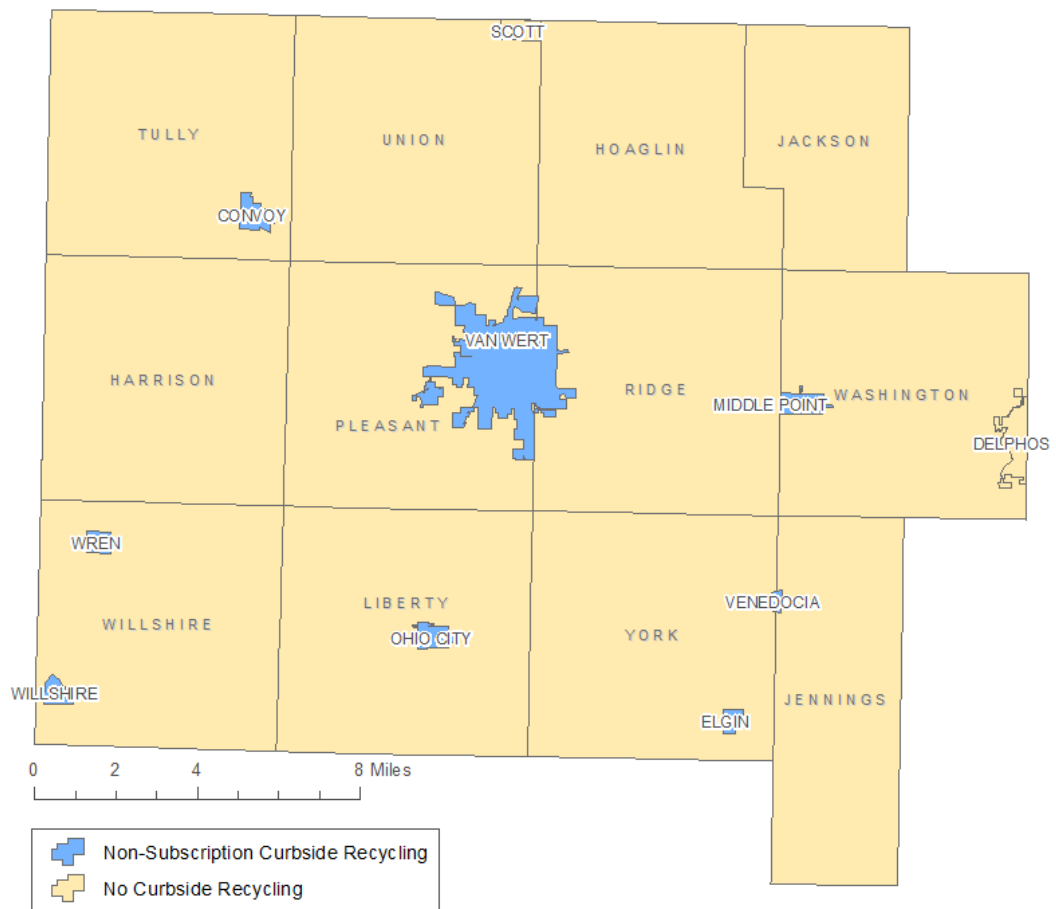
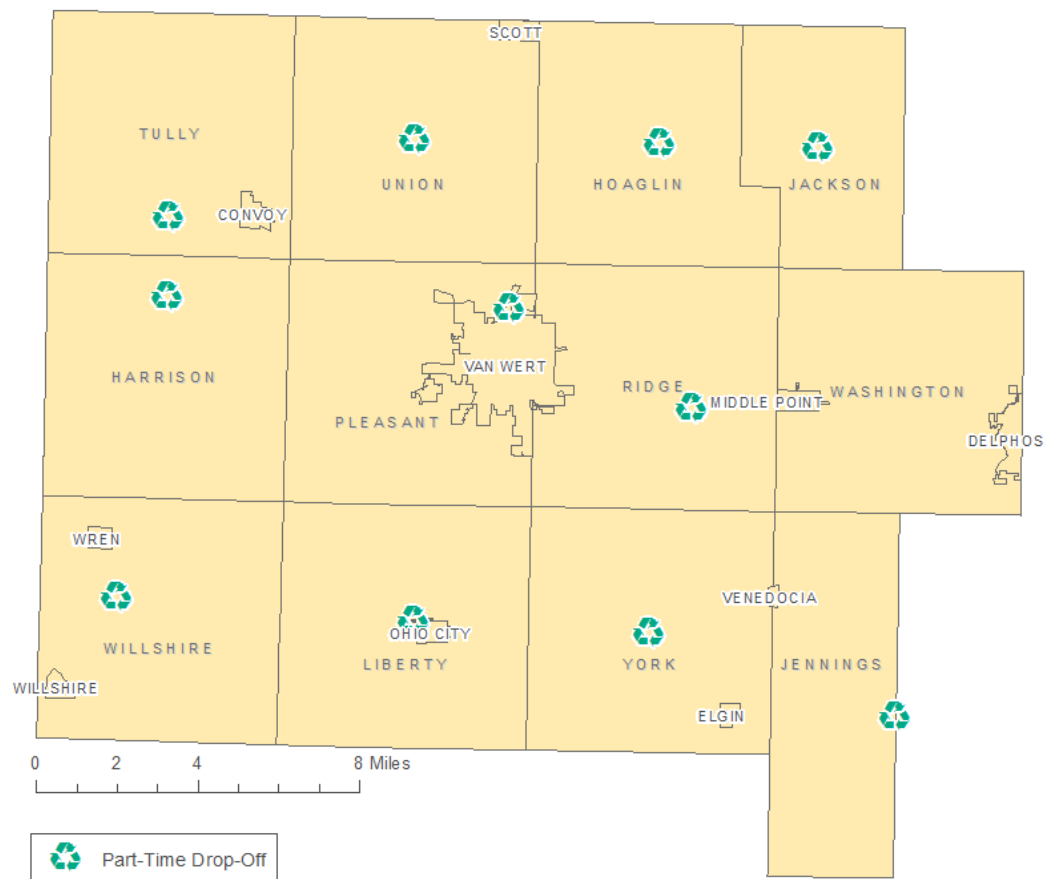


Table III-5, “Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District,” contains a list facilities and activities used by the District. Information in this table is based on results of surveys, facility records and direct inquiry.

There were 11 part-time recycling drop-offs operating in the District during 2015. Part-time status indicates that drop-offs are available to the public less than 40 hours per week. Drop-offs accepted, at a minimum, the following materials: mixed papers (newspaper, office paper, magazines), plastic bottles and jugs, cardboard, aluminum cans (beverage cans), and steel cans (soup cans).

The following figure presents the locations of each drop-off that operated during 2015. The four-digit number accompanying each recycling drop-off icon in the following map represents the identification number issued by Ohio EPA that is published in the District's Implementation Schedule.

2015 District Drop-Off Recycling Facilities



Two material recovery facilities (MRFs) processed recyclables generated in the District; one MRF, the Van Wert County Recycling Center, was located in-District. In addition, there were 12 scrap yards, processors, and brokers that accepted recycled materials generated in the District. Three commercial box store chains (Walmart, Dollar General, and Big Lots) located throughout the District operated recycling programs. Three major

tire recyclers were also used to manage scrap tires generated in the District.

Additional recycling conducted at businesses and industries that was managed by haulers, brokers, and processors not listed in Table III-5 was listed as “Other Recycling Reported on Surveys” in Table III-5.

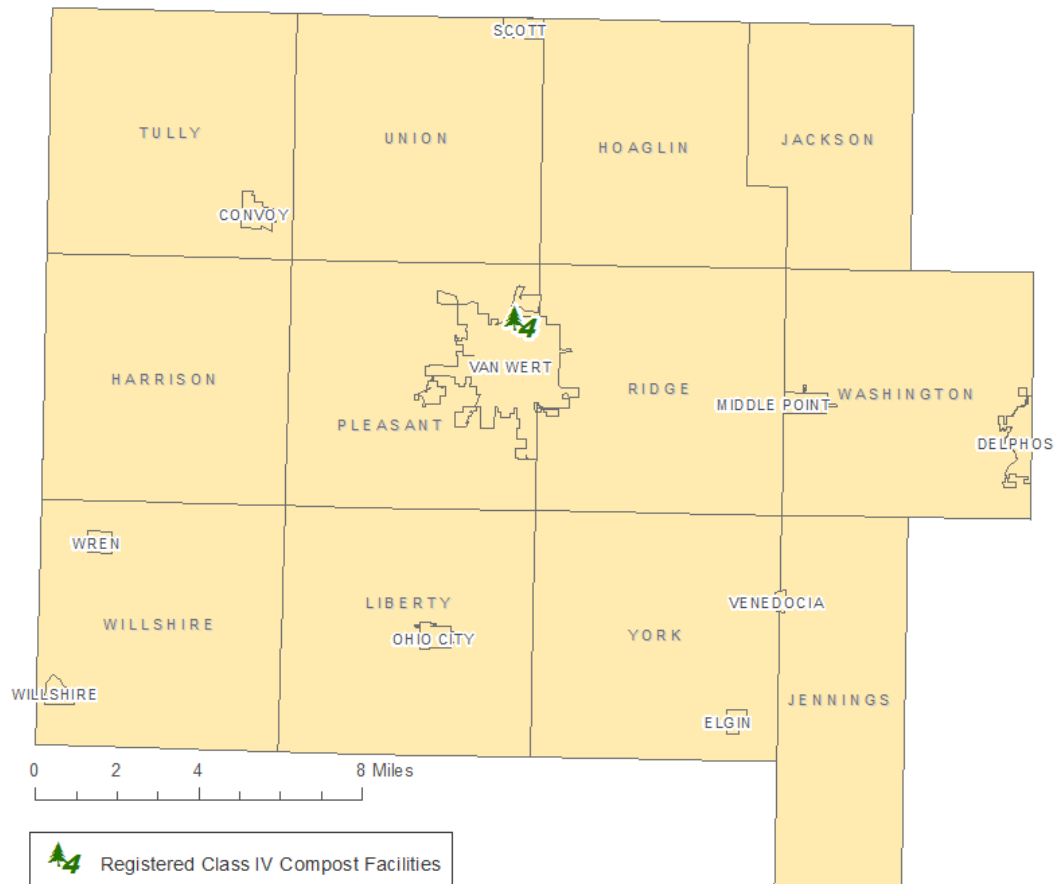
F. Existing Composting/Yard Waste Management Facilities

Compost facilities that are located within the District are presented in Table III-6, “Composting/Yard Waste Management Activities used by the District.” There was one Class IV compost facility operating in Van Wert County during 2015. A total of 804¹ tons of yard waste were managed at registered facilities. Food waste haulers collected 132 tons of food waste that was managed by composting. The overall organics composted by the District totaled 936 tons. An additional 7 tons of food waste was diverted from landfills, but was donated instead of composted; therefore, the total food waste tons reported on the 2015 Annual District Report differ from the tonnage presented in Table III-6.

The following map presents the location of the District’s registered composting facility:

¹ Tonnage presented for the Van Wert County Compost facility does not match the tonnage published in the 2015 Ohio EPA Compost Facility Report. The District has confirmed that the tonnage presented in Table III-6 (804 tons) is correct.

2015 Registered Yard Waste Facilities



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

Two landfills and one transfer station 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 known open dumps or waste tire dumps located in the District (Table III-9).

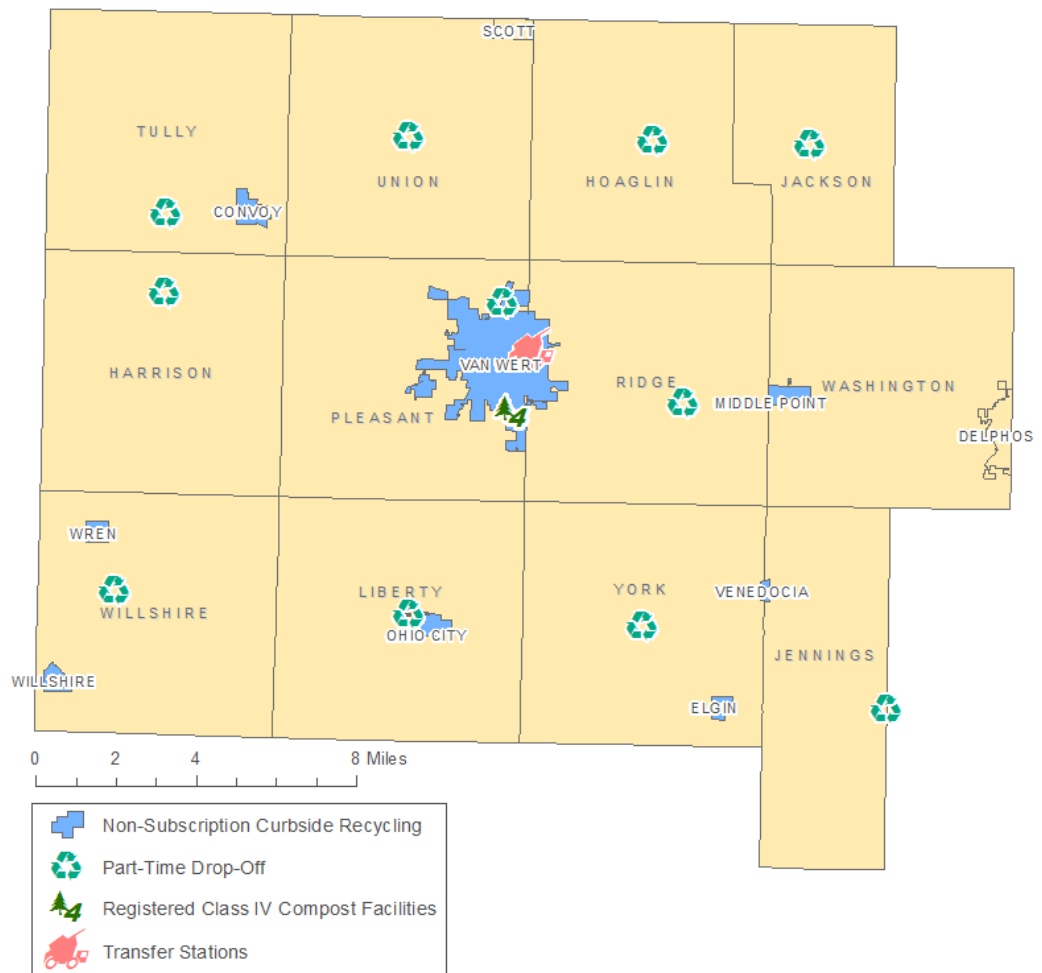
I. Ash, Foundry Sand, and Slag Disposal Sites

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

J. Map of Facilities and Sites

A full-size map of the District’s facilities is included in Appendix E. Below is a smaller map as a reference.

Solid Waste Facilities in the District



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 five private sector haulers and one public sector hauler that provided collection services within 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.							
Out-of-District Landfills							
Hancock County Sanitary Landfill	PA, GO	Hancock	OH	6	0	205	211
Celina Sanitary Landfill	PA, PO	Mercer	OH	221	0	170	391
Evergreen Recycling & Disposal	PA, PO	Wood	OH	12	0	6	17
County Environmental of Wyandot	PA, PO	Wyandot	OH	1	2,055	0	2,056
Defiance County Sanitary Landfill	PA, GO	Defiance	OH	288	324	595	1,207
Out-of-State Landfills							
Jay County Landfill	PA, PO	Jay	IN	0	31	27	58
National Serv-All Landfill	PA, PO	Allen	IN	5,389	1,253	231	6,873
Landfill Total				5,917	3,662	1,234	10,813
Incinerator Facilities				0	0	0	0
Transfer Stations				5,742	287	2,267	8,295
Total				11,659	3,949	3,501	19,109

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

Note: Transfer Station Annual Operational Report Data is included in this table to demonstrate the total amount landfilled in 2015. The District also sent 113 tons to incinerators in 2015, but this tonnage has not been included since it is such a small amount.

Source(s) of information: Ohio EPA 2015 Annual District Review Forms

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

Facility Name	Type	Location		Waste Received from the SWMD (TPY)			Total Ash Produced	Total Volume Reduced
		County	State	Residential/Commercial	Industrial	Exempt		
In-District Facilities								
None.							0	0
Out-of-District Facilities								
None.							0	0
Out-of-State Facilities								
None.								
Totals				0	0	0	0	0

Note: The District sent 113 tons to incinerators in 2015, but this tonnage has not been included since it is such a small amount.

**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
In-District Facilities								
Young's Waste Service	PA, PO	Van Wert	OH	4,285	0	2,255	6,540	0
Out-of-District Facilities								
Maharg Inc. Solid Waste Transfer Facility	PA, PO	Mercer	OH	263	0	0	263	0
Waste Management of Ohio - Lima	PA, PO	Allen	OH	1,049	287	0	1,336	0
Out-of-State Facilities								
Advance Disposal Services Transfer Station	PA, PO	Allen	IN	145.21	0	12	157.21	0
Totals				5,742	287	2,267	8,295	0

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

Source(s) of information: Annual Operating Reports for 2015

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

Community Name, Address, Phone	Type	Population Served	Collection Frequency	Average # of Households Participating	Types of Materials Accepted							Recyclables Processed from SWMD (TPY)
					AC	SC	GL	PL	OCC	ONP	MxP	
Non-Subscription Curbside Recycling												
Village of Convo	NS	1,068	Weekly	N/A	X	X	X	X	X	X	X	
Village of Elgin	NS	56	Weekly	N/A	X	X	X	X	X	X	X	
Village of Middle Point	NS	565	Weekly	N/A	X	X	X	X	X	X	X	
Village of Ohio City	NS	689	Weekly	N/A	X	X	X	X	X	X	X	928
City of Van Wert	NS	10,798	Weekly	N/A	X	X	X	X	X	X	X	
Village of Venedocia	NS	122	Weekly	N/A	X	X	X	X	X	X	X	
Village of Willshire	NS	387	Weekly	N/A	X	X	X	X	X	X	X	
Village of Wren	NS	192	Weekly	N/A	X	X	X	X	X	X	X	
Non-Subscription Curbside Recycling Total												
Subscription Curbside Recycling												
None.												
Subscription Curbside Recycling Total												
											0	
Total Recycled in 2015												
											928	

NS=Non-Subscription Curbside Recycling; S=Subscription Curbside Recycling
 AC = aluminum containers; SC = steel containers; GL = glass containers; PL = plastic containers; OCC = cardboard; ONP = newspaper; MxP = mixed paper

Source(s) of information: 2015 Annual District Report. Population: Ohio Development Services Agency Office of Research, "2015 Population Estimates by County, City, Village, and Township," May 2016.

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

Facility/Activity	Type	Types of Materials Accepted											County	Twp/ City	Pop. Served	Hours Available to Public	Tons from SWMD	% of Material from Sector:		
		AC	GL	PL	ONP	OCC	SC	LAB	MxP	ST	App	Oth								
Part Time/Full Service Drop-Off Recycling Centers																				
[3252] Tully Township	PA DO	X	X	X	X	X	X									Van Wert	Tully Twp.	2,043	10AM-1PM, 1st Mon. Monthly	100% R
[3255] York Township	PA DO	X	X	X	X	X	X									Van Wert	York Twp.	712	10AM-1PM, 1st Wed. Monthly	100% R
[3254] Willshire Township	PA DO	X	X	X	X	X	X									Van Wert	Willshire Twp.	1,565	10AM-1PM, Last Fri. Monthly	100% R
[3253] Union Township	PA DO	X	X	X	X	X	X									Van Wert	Union Twp.	931	10AM-1PM, 2nd Mon. Monthly	100% R
[3250] Liberty Township	PA DO	X	X	X	X	X	X									Van Wert	Liberty Twp.	1,536	10AM-1PM, 2nd Wed. Monthly	100% R
[3247] Hoaglin Township	PA DO	X	X	X	X	X	X									Van Wert	Hoaglin Twp.	662	10AM-1PM, 2nd Fri. Monthly	100% R
																			32	

Facility/Activity	Type	Types of Materials Accepted										Service Area		Pop. Served	Hours Available to Public	Tons from SWMD	% of Material from Sector:	
		AC	GL	PL	ONP	OCC	SC	LAB	M&P	ST	App	Oth	County					Twp/ City
[3251] Ridge Township	PA DO	X	X	X	X	X	X	X	X				Van Wert	Ridge Twp.	3,206	10AM-1PM, 3rd Mon. Monthly		100% R
[3246] Harrison Township	PA DO	X	X	X	X	X	X	X	X				Van Wert	Harrison Twp.	1,042	10AM-1PM, 3rd Wed. Monthly	See above total.	100% R
[3248] Jackson Township	PA DO	X	X	X	X	X	X	X	X				Van Wert	Jackson Twp.	459	10AM-1PM, 3rd Fri. Monthly		100% R
[3249] Jennings Township	PA DO	X	X	X	X	X	X	X	X				Van Wert	Jennings Twp.	652	10AM-1PM, 4th Mon. Monthly		100% R
[3257] Van Wert County Recycling Center Drive-Thru Drop-Off 1135 North Washington Street Van Wert, OH	PA DO	X	X	X	X	X	X	X	X	X	X	Van Wert	All	25,547	MW/F: 9AM-5PM; 1st/3rd Sat: 8AM-12PM	See MRF total.	100% R	

Facility/Activity	Type	Types of Materials Accepted										Service Area		Pop. Served	Hours Available to Public	Tons from SWMD	% of Material from Sector:				
		AC	GL	PL	ONP	OCC	SC	LAB	MxP	ST	App	Oth	County					Twp/ City			
[6851] Industrial Sector Drop-Off at Van Wert County Recycling Center 1135 North Washington Street Van Wert, OH	PU, DO	X	X	X	X	X	X	X								Van Wert	All	25,547	MW/F: 9AM-5PM; 1st/3rd Sat: 8AM-12PM	129	100% I
Material Recovery Facilities																					
Van Wert County Recycling Center	MRF	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Van Wert	All	25,547	MW/F: 9AM-5PM; 1st/3rd Sat: 8AM-12PM	1,214	100% R/C
Dayton Glass Plant	MRF														X	Van Wert	All	25,547	Business Hours	191	100% C
Brokers, Processors, Buy Back Centers																					
Royal Oaks Recycling	BR															Van Wert	All	25,547	Business Hours	30	100% C
Allen County Pallet 700 E. Hanthorn Rd. Lima, Ohio 45804 419-227-4240	PR															Van Wert	All	25,547	Business Hours	30	100% C

Facility/Activity	Type	Types of Materials Accepted										Service Area		Hours Available to Public	Tons from SWMD	% of Material from Sector:				
		AC	GL	PL	ONP	OCC	SC	LAB	M&P	ST	App	Oth	County				Twp/City			
Absorbtech 3900 W. Wm Richardson Dr. South Bend, IN 46628 888-729-4884	PR														Van Wert	All	25,547	Business Hours	15	100% I
Gateway Recycling 926 Dearborn Avenue Toledo, OH 43603 419-729-9777	BR, PR	X		X	X	X						X			Van Wert	All	25,547	Business Hours	339	100% I
Heritage Environmental 1517 Royal Gold Dr. Columbus, OH 43240 614-430-9023	PR														Van Wert	All	25,547	Business Hours	2	100% I
K-Com Environmental 2525 Shadeland Ave. Indianapolis, IN 46219 317-247-9420	PR														Van Wert	All	25,547	Business Hours	76	100% I

Facility/Activity	Type	Types of Materials Accepted											Service Area	Pop. Served	Hours Available to Public	Tons from SWMD	% of Material from Sector:					
		AC	GL	PL	ONP	OCC	SC	LAB	M&P	ST	App	Oth						County	Twp/City			
Lima Pallet 1470 Neubrecht Rd. Lima, OH 45801 419-229-5736	PR															Van Wert	All	25,547	Business Hours	104	100% I	
Safety Kleen 2112 Production Rd. Ft. Wayne, IN 46808 260-484-8034	PR															Van Wert	All	25,547	Business Hours	17	100% I	
Scrap Yards																						
Metals Recycling Technology 7680 US-127 North Van Wert, OH 45891 419-232-2034	SY	X															Van Wert	All	25,547	Business Hours	19	100% I
OmniSource 7575 W. Jefferson Blvd. Fort Wayne, IN 46804 260-422-5541	SY	X								X							Van Wert	All	25,547	Business Hours	3,136	100% I

Facility/Activity	Type	Types of Materials Accepted											Service Area	Pop. Served	Hours Available to Public	Tons from SWMD	% of Material from Sector:				
		AC	GL	PL	ONP	OCC	SC	LAB	MxP	ST	App	Oth						County	Twp/ City		
PSC Metals 1283 Joyce Ave. Columbus, OH 43219 614-299-4175	SY	X					X						X			Van Wert	All	25,547	Business Hours	DNR	100% I
Cousins Auto Wrecking 4470 Whitcomb St. Gary, IN 46408 219-980-1166	SY	X					X						X			Van Wert	All	25,547	Business Hours	DNR	100% I
Haulers																					
Young's Trash Service 108 S. Zimmerman Ave. Van Wert, OH 45891 419-238-9200	H									X						Van Wert	All	25,547	Business Hours	192	98% C, 2% I
Special Collections/Miscellaneous																					
Electronics, Fluorescent Bulb, Latex Paint, Used Oil, Scrap Tire, and Lead Acid Battery Collection at the Van Wert Recycling Center	MRF												X			Van Wert	All	25,547	MW/F: 9AM-5PM; 1st/3rd Sat: 8AM-12PM	45	100% R

Facility/Activity	Type	Types of Materials Accepted										Service Area		Hours Available to Public	Tons from SWMD	% of Material from Sector:					
		AC	GL	PL	ONP	OCC	SC	LAB	MxP	ST	App	Oth	County				Twp/ City	Pop. Served			
Ohio EPA 2015 Scrap Tire Recycling Report (includes Liberty Tire, Quality Tire, and R&R Tire Disposal)	N/A									X						Van Wert	All	25,547	Business Hours	179	100% R/C
Ohio EPA 2015 Commercial Store Recycling Report (includes WalMart, Dollar General, and Big Lots)	N/A	X	X	X	X	X	X	X	X						X	Van Wert	All	25,547	Business Hours	519	100% C
Other Recycling Reported on Surveys	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Van Wert	All	25,547	N/A	11,267	100% C/I
Totals																				17,534	

R=Residential; C=Commercial; I=Industrial; PA = Publicly Available; DO = Drop off; B=Broker; BB=Buy-Back; PR = Processor; H=Hauler; PUO=Private Use Only
 AC=Aluminum Containers/Non-Ferrous; GL=Glass Containers; PL=Plastic Containers/Ferrous; ONP=Old Newspaper; OCC=Corrugated Cardboard; SC=Steel Containers; LAB=Lead Acid Battery; Mag=Magazines; OffP=Office Paper; MxP=Mixed Paper; ST=Scrap Tires; App=Appliances; OM=Other Metals; Oth=Other (Nicad Batteries, Used Oil, Household Batteries, Wood)
 DNR=Did Not Report

Source(s) of information: 2015 Annual District Report, District Recycling Facility Data
 2015 Ohio Department of Development Office of Strategic Research Population Estimates, May 2016

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

Facility Name or Activity	Type	County	Waste Received from the SWMD		
			Address	Food Waste	Yard Waste
<i>In-District Registered Compost Facilities</i>					
Van Wert County Compost	IV	Van Wert	1135 N. Washington St. Van Wert, OH 45891	0	804
<i>Out-of-District Registered Compost Facilities</i>					
None.					
<i>Other Activities</i>					
Food Waste Haulers				132	0
Total				132	804

DNR = did not report, NA = not applicable, YW = yard waste, FW = food waste

Source(s) of information: 2015 Compost Facility Planning Report and District information

Note: Tonnage presented in Table III-6 for the Van Wert County Compost facility does not match the tonnage published in the 2015 Ohio EPA Compost Facility Report. The District has confirmed that the tonnage presented in Table III-6 is correct.

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

Facility Name	Facility Mailing Address	Facility Owner, Contact	Facility Operator, Phone	Daily Waste Receipt Limit, (TPD)	Number of Days Facility Open/Year
Jay County Landfill	5825 W. CR 400 S Portland, IN 47371	Brad Eisenhart WM of Indiana 5825 W. County Road 400 S Portland, IN 47371 260-726-2871	Matthew Rechtin 260-726-2871	DNR	254
National Serv-All Landfill	6231 Macbeth Rd. Fort Wayne, IN 46809	Brent Goodsell Republic Services of Indiana 832 Langsdale Ave. Indianapolis, IN 46202 260-747-4117	Stephanie Goodman 260-442-3239	DNR	306
Advance Disposal Services Transfer Station	4429 Allen Martin Dr. Fort Wayne, IN 46806	Kirk Salerno Earth First 4429 Allen Martin Dr. Fort Wayne, IN 46806 260-436-8700	Kirk Salerno Earth First 4429 Allen Martin Dr. Fort Wayne, IN 46806 260-436-8700	DNR	260

Source(s) of information: Indiana Department of Environmental Management (IDEM), 2015 Complete Solid Waste Quarterly Report Database. IDEM, Authorized Operating Solid Waste Facilities, June 2016.

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

Site Location (description)	Land Owner Mailing Address/Phone	Description of Materials Dumped	Approximate Size of Site (acres)	Time Period Site has Existed	2015 Update
<i>Open Dump Sites</i>					
None.					
<i>Waste Tire Dump Sites</i>					
None.					

Source(s) of information: Phone conversation with Britt Menchhofer, R.S, Environmental Health Director, Van Wert County Health Department, 11/8/2016.

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

Site Location (describe briefly)	Land Owner Mailing Address/Phone	Description of Materials Dumped	Approximate Size of Site (in Acres)	Time Period Site has Existed
None.				

Source(s) of information: Phone conversation with Britt Menchhofer, R.S, Environmental Health Director, Van Wert County Health Department, 11/8/2016.

**Table III-10
Solid Waste Haulers Operating in the District**

Hauler	Mailing Address	Service Area	Materials Collected	Tons Collected from District	Name of Facility Used by Hauler
<i>Private Sector Haulers</i>					
J&K Trash Service	Jeff Keller (419) 965-2330	Cities of Van Wert and Ohio City	Residential Solid Waste	262	VW Refuse TS Young's TS
Reidenbach & Sons	Sponsler Dr # 14 Convoy, OH 45832 (419) 749-2313	Van Wert and surrounding areas	Residential and Commercial Solid Waste	DNR	VW Refuse TS Young's TS
Young's Trash Service	108 S. Zimmerman Ave. Van Wert, Ohio 45891 (419) 238-9200	City of Van Wert and vicinity	Residential and Commercial Solid Waste	DNR	Young's TS
Murphys Trash Services	920 E. Main St. (419) 238-3991	City of Van Wert and vicinity	Residential and Commercial Solid Waste	DNR	VW Refuse TS Young's TS
Reliable Trash Service	11319 Van Wert Decatur Rd. Van Wert, Ohio (419) 605-8705	Greater Van Wert Area	Residential Solid Waste	DNR	DNR
<i>Public Sector Haulers</i>					
Van Wert SWMD	1135 N. Washington St. Van Wert, OH 45891 (419) 238-7767	District	Residential, Commercial, Industrial Recycling	928	Van Wert Recycling Center and Material Recovery Facility
Total				1,190	

Source(s) of information: 2015 District Survey and Phone Survey

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 2015. The District’s base population was 28,562. 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 must be credited to the district containing the largest portion of the jurisdiction’s population. The following adjustments were made for political subdivisions located partially within the District and partially within surrounding solid waste districts:

	The City of Delphos had less than 50% of the population living inside the District and more than 50% living inside Allen Co. The population of the City of Delphos in Van Wert Co. (3,131) was subtracted from the District’s population total.
	The Village of Scott had more than 50% of the population living inside the District and less than 50% living inside Paulding Co. The population of the Village of Scott in Paulding Co. (116) was added to the District’s population total.

The District’s total adjusted 2015 population was 25,547 residents.

Residential/Commercial Waste Generation

The District did not submit Annual District Reports in 2013 and 2014. In 2015, the District unexpectedly and tragically lost its Director. During the administrative transition, historic recycling records for 2013 and 2014 were not recovered. Due to gaps in recycling data, the 2015 residential/commercial waste generation rate was calculated using the following methodology:

- Recycling data for 2015 was projected as the average District recycling tonnage reported from 2011 to 2012 (9,311 tons).

- Adjusted District population estimates for 2011 to 2015 were based on population estimates in the Ohio Development Services Agency publications “Ohio County Profiles” for Van Wert and Paulding County.
- Solid waste disposal tonnage fluctuated from 2011 to 2013. Disposal stabilized in 2013 and 2014, demonstrating that factors that may have caused disposal to fluctuate in previous years were no longer present.
- Using adjusted District population estimates and solid waste tonnage presented in Ohio EPA’s Annual District Review Forms, an annual increase in 0.01 pounds per person per day was identified for the residential/commercial sector’s solid waste generation from 2013 to 2014.
- Solid waste disposal tonnage for 2015 was projected by increasing the 2014 per capita solid waste disposal rate by 0.01 pound per person per day, then multiplying the new per capita disposal rate by the estimated 2015 population times 365 days and dividing by 2,000 pounds per ton. The result equated to an estimated 11,609 tons of solid waste.
- The projected recycling and waste generation totals were summed to calculate the total residential/commercial sector generation total of 20,920 tons.

The residential/commercial sector was projected to generate 20,920 tons of waste and recyclables in 2015, which equates to a 4.49 daily per capita generation rate. However, this estimate was 6,133 tons more than the actual residential/commercial waste generation of 14,787 tons recorded by landfills, waste-to-energy facilities, and transfer stations (11,659 tons) plus reported recycling/reduction (2,324 tons) and organics composting (804 tons). For further discussion on reconciling the waste generation values, see Section IV.H of this *Plan Update*.

B. Industrial Waste Generation

The District conducted a solid waste and recycling survey of its local industries to gather data on reference year (2015) recycling and waste generation. A total of 21,215 tons of waste and recycling was reported by industries. A summary of industrial survey results is included in Appendix F.

Table IV-2 presents a summary of the industrial sector’s 2015 total generation based on survey responses, as well as the estimated total for the District’s entire industrial sector broken down by Standard Industrial Classification (SIC) code. A total of 48 industries were identified throughout the District. Approximately 19% of the District’s industries

representing 71% of Van Wert County's industrial sector workforce were represented in the survey responses received.

Industries in SIC code 34 (Fabricated Metal Products, Except Machinery & Transport Equipment) reported annual generation rates of 172.4 tons per employee. Industries that responded from other SIC codes ranged from 1.93 to 8.77 tons per employee.

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, which equated to 811 tons. Adding together the tons reported on the industrial survey and tons projected for non-respondents, 21,215 tons of waste generated was estimated for the industrial sector.

C. 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 3,501 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 0.75 pounds per person per day (PPD).

Exempt waste does not have a direct correlation to changes in population, however, 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 2011 to 2015, from a low of 3,501 tons to a high of 9,124 tons.

D. Total Waste Generation

Table IV-4, "Reference Year Total Waste Generation for the District," presents the projected total waste generated based on historic District trends, survey responses, and industrial generation estimates. Using this calculation method, an estimated 45,636 tons of waste was generated. The per capita daily total generation rate was 9.79 pounds. This includes 20,920 tons of residential/commercial sector waste (Table IV-1), 21,215 tons of industrial sector waste generation (Table IV-2) and the actual tons

of exempt waste (3,501 tons) reported by landfills and transfer stations (Table IV-3). The total waste generation listed in Table IV-4 was 8,190 tons more than the total generation presented in Table IV-8, which was calculated by using actual data reported by landfills, waste-to-energy facilities, transfer stations, and recycling facilities. For further discussion on reconciling the waste generation values see Section IV.H.

E. Reference Year Waste Reduction

The District surveyed communities, businesses, recycling facilities, haulers and brokers to obtain data on residential, commercial, institutional and industrial recycling for 2015. Residential/commercial waste reduction reported in Table IV-5 and industrial waste reduction reported in Table IV-6 was obtained from these surveys.

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

Residential Data

Most residential sector recycling is processed at the Van Wert County Recycling Center. Annual tonnage data from the recycling center is used to calculate the total recycling.

Commercial/Institutional Data

The District surveyed commercial and institutional entities to collect 2015 recycling information. The District received ten survey responses in addition to report published by the Ohio EPA. The results of these individual surveys were used to compile recycling by commercial businesses and institutions. Recycling reports published by Ohio EPA, such as the Material Recovery Facility and Commercial Recycling Report, Compost Facility Report, and Scrap Tire Report were used as well.

Data from the Van Wert County Recycling Center was not blended with data survey data or Ohio EPA report data unless the District could identify with certainty that materials were not being counted more than once.

Industrial Data

The District surveyed industrial entities to collect 2015 recycling information. The District received nine survey responses out of 64 requests. The results of these individual surveys were not blended with other 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 3,128 tons of materials from landfills in 2015 by recycling and composting.

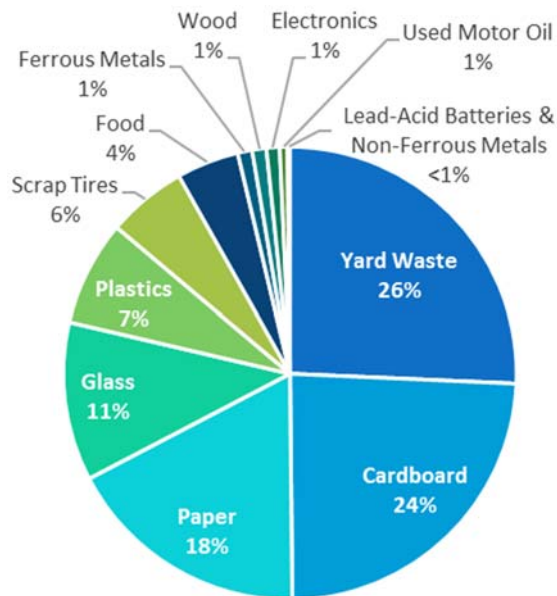
Yard waste represented the most diverted material based on weight (804 tons), followed by cardboard (755 tons), paper (547 tons), glass (354 tons), and plastics (234 tons). The following table summarizes the residential and commercial recycling totals by commodity.

2015 Residential/Commercial Sector Recycling by Commodity

Commodity	2015 Tons
Yard Waste	804
Cardboard	755
Paper	547
Glass	354
Plastics	234
Scrap Tires	179
Food	139
Ferrous Metals	32
Wood	32
Electronics	30
Used Motor Oil	17
Lead-Acid Batteries &	5
Non-Ferrous Metals	0.5
Total	3,128

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

2015 Residential/Commercial Waste Reduction



Industrial Waste Reduction

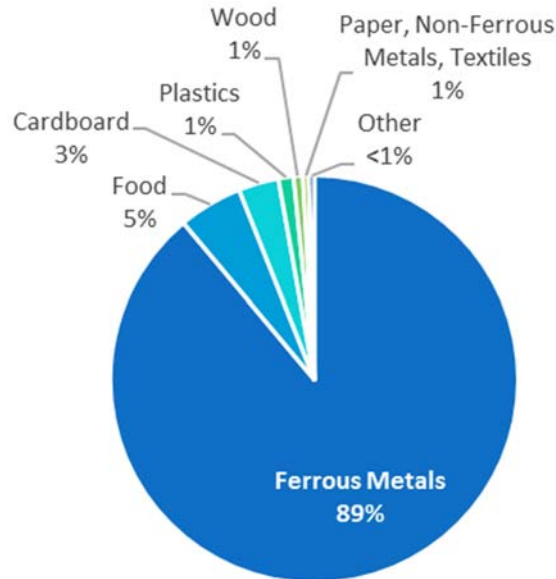
Table IV-6, “Reference Year Industrial Waste Reduction in the District” shows that industries located in the District recycled 15,209 tons of materials in 2015. Ferrous metals represented approximately 89% of the industrial sector recycling; food represented 5% and cardboard represented 3%; other materials categories represented 1% or less per commodity. The following table summarizes the industrial recycling totals by commodity:

2015 Industrial Sector Recycling Tonnage by Commodity

Commodity	2015 Tons
Ferrous Metals	13,521
Food	772
Cardboard	486
Plastics	182
Wood	111
Other	66
Paper	37
Non-Ferrous Metals	19
Textiles	15
Total	15,209

The following figure is a graphical representation of the commodities recycled by the industrial sector in 2015.

2015 Industrial Waste Reduction in the District



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

The strengths and challenges of District programs are presented following each program description.

RESIDENTIAL/COMMERCIAL RECYCLING PROGRAMS

1. Non-Subscription Curbside Recycling

The District operates dual-stream, non-subscription curbside recycling programs in the following communities:

- Convoy
- Elgin
- Middle Point
- Ohio City
- Van Wert
- Venedocia
- Willshire
- Wren

Non-subscription curbside recycling means that residents do not have to opt-in or pay additional fees to participate. Non-subscription curbside recycling is provided to all residents in single-family homes for no additional charge.

The District provides residents with the first two recycling bins. Replacement bins are \$7.00 each. Other containers may be used if they have a capacity of 22 gallons or less. Residents are asked to separate fibers from containers to comply with the rules of the dual stream program. The following materials are accepted:

Curbside Recycling Program: Materials Accepted

Fiber Bin

- Cardboard
- Paperboard
- Brown paper bags
- Glossy paper
- Mixed office paper
- Newspaper
- Books (hardcover and paperback)

Commingled Container Bin

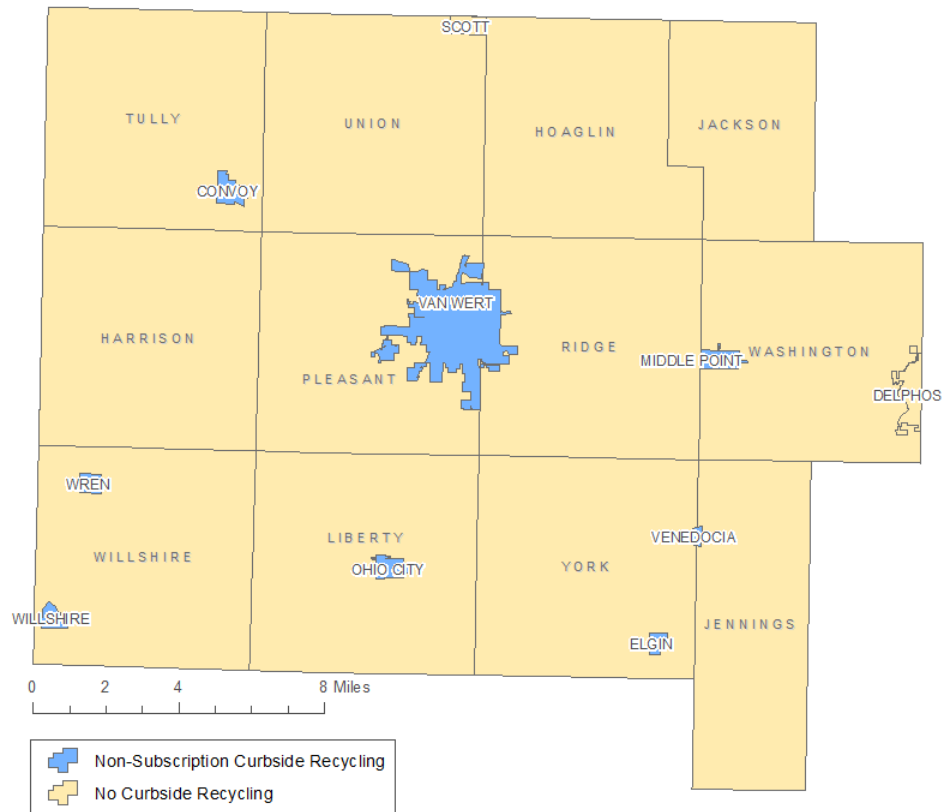
- Aluminum cans
- Bimetal cans
- Empty aerosol cans
- Small metal scrap
- Plastic containers #1-#7 (no styrofoam)
- Glass food and beverage containers
- Aluminum foil

Curbside recycling programs cannot accept the following materials:

- Adhesive materials
- Used tissue paper/paper towels
- Oil/food contaminated paper materials
- Film/photographs
- Paper containers with attached metal or plastic ends or spouts
- Cardboard juice or milk containers
- Propane (flammable gas) tanks,
- Pet food bags
- Carbon paper
- Other items with food or other contaminants

Curbside tonnage by community is not available. In 2015, a total of 928 tons were collected from the curbside recycling program operated by the District. (The District does not provide trash hauling services.) The following map presents areas that had access to curbside recycling in 2015:

2015 District Curbside Recycling Programs



There are eight (8) communities that are serviced by curbside: Van Wert, Venedocia, Middle Point, Elgin, Ohio City, Convoy, Wren, and Willshire. These communities have and already established parcel fee of \$33.40 is collected and covers curbside service whether the customer uses the curbside service or not. This fee was raised \$1.00 in 2017 from \$32.40 to \$33.40 and covers curbside service for residential and commercial sectors. The remaining communities in Van Wert county have a \$6.00 per year fee which assist the maintenance of the drop-off programs.

The following table summarizes the program details.

Curbside Recycling Program Summary	
Description	Details
Ohio EPA Program ID	3220, 3239-3245
Entity Maintaining Program	District
Service Area	Convoy, Elgin, Middle Point, Ohio City, Van Wert, Venedocia, Willshire, Wren
Materials Recycled	Cardboard, mixed paper, books, aluminum cans and foil,

Curbside Recycling Program Summary	
Description	Details
	bimetal cans, scrap metal, #1-#7 plastic containers, glass containers
2015 Recycled Tonnage	928
Annual District Program Costs	\$146,353
Program Operator/Contractor	District

Strengths of the program include:

- Provides a convenient way for residents to recycle.
- All cities and villages that are located completely inside Van Wert County have non-subscription curbside recycling access.

Challenges of the program include:

- The District has not been focusing on increasing participation.
- Preventing blowing material and/or keeping material dry (particularly if the container is open-top);
- Only servicing only single-family homes.
- Contamination rates have not been identified from the curbside program by community.
- The District has not measured the participation for curbside recycling.
- Not being able to measure quantities recovered from each curbside service separately from the others.

2. Drop-Off Recycling Program

The District operated a drop-off recycling program during 2015. Dual stream drop-offs accepted the following materials:

Mixed Paper (Mixed Paper, Junk Mail, Hard Cover and Paperback Books)	Corrugated Cardboard, Paperboard, Brown Paper Bags
Aluminum Food/Beverage Containers and Foil	Steel Food/Beverage Containers, Empty Aerosol Cans
#1 - #7 Plastic Bottles and Jugs	Glass Food & Beverage Containers

In 2015, there were ten part-time recycling drop-offs located at rural township houses in each of the ten District townships. Drop-offs were available on the same day of the month unless a holiday necessitated an adjustment in the schedule. The drop-offs were available from 10 a.m. to 1 p.m. Access to drop-offs was open to the public and did not require township residency for participation.

The District also operated a drive-through recycling drop-off at 1135 North Washington Street that was open Monday through Friday from 9 a.m. to 5 p.m., and the first and third Saturday of each month from 8 a.m. to 12 p.m. The drive-through was available for residents, commercial businesses, industries, and non-profits.

The following table presents the list of drop-off sites available in 2015 and the schedule of availability.

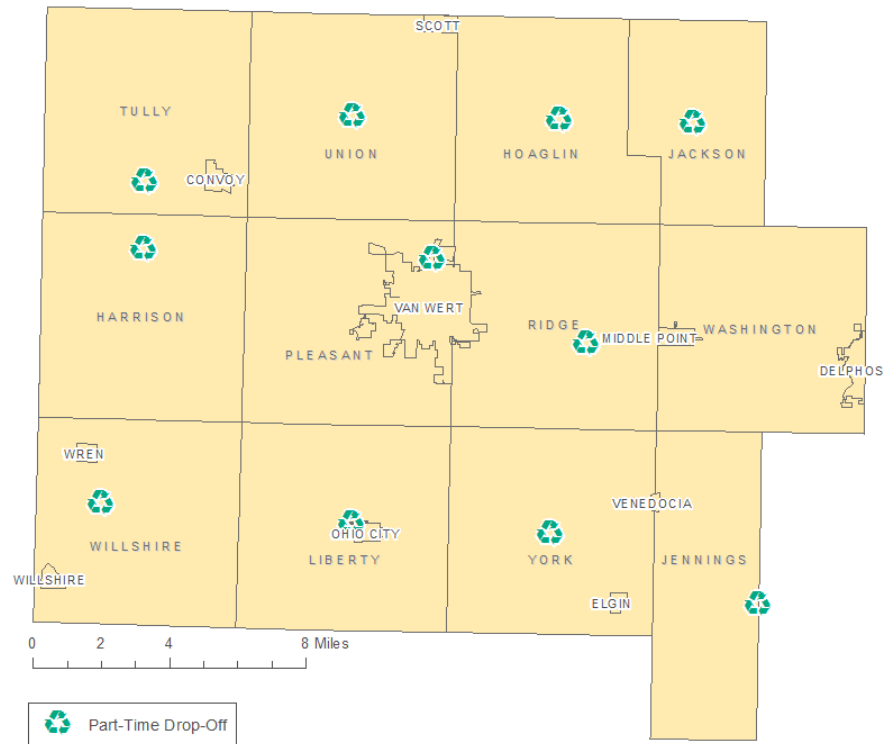
2015 Recycling Drop-Off Sites

OEPA ID	Location	Availability
3246	Harrison Township	10AM-1PM, 3rd Wed. Monthly
3247	Hoaglin Township	10AM-1PM, 2nd Fri. Monthly
3248	Jackson Township	10AM-1PM, 3rd Fri. Monthly
3249	Jennings Township	10AM-1PM, 4th Mon. Monthly
3250	Liberty Township	10AM-1PM, 2nd Wed. Monthly
3251	Ridge Township	10AM-1PM, 3rd Mon. Monthly
3252	Tully Township	10AM-1PM, 1st Mon. Monthly
3253	Union Township	10AM-1PM, 2nd Mon. Monthly
3254	Willshire Township	10AM-1PM, Last Fri. Monthly
3255	York Township	10AM-1PM, 1st Wed. Monthly
3257/ 6851	Van Wert County Recycling Center Drive- Thru Drop-Off 1135 N. Washington St. Van Wert, OH	M/W/F: 9AM-5PM; 1st/3rd Sat: 8AM-12PM

Materials collected from the drop-offs and the drive-through drop-off are processed at the Van Wert Recycling Center. Tonnage collected from residents is not tracked separately from the overall tonnage accepted at the Van Wert Recycling Center. Tonnage from industrial sources totaled 129 tons.

The District monitors participation in the drop-off program to identify whether any sites should be merged. In 2015, no site mergers occurred. The following figure presents the locations of drop-off centers that operated during 2015:

Van Wert County Drop-Off Recycling Sites



The District owns the recycling containers used at each drop-off site. Containers are set-up to accept two streams of materials: fibers and commingled containers. The following photograph shows an example of the containers stationed at township drop-off sites.

District Township House Rural Drop-Offs



In 2015, the District began preparing its grant application for a new roll-off trailer to expand recycling access throughout Van Wert County.

The following table summarizes the drop-off program details.

Drop-Off Recycling Program Summary	
Description	Details
Ohio EPA Program ID	3246-3255, 3257, 5432, 6851, 8478, 8480
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Cardboard, mixed paper, books, aluminum cans and foil, bimetal cans, scrap metal, #1-#7 plastic containers, glass containers
2015 Recycled Tonnage	Residential/Commercial: Unavailable Industrial drop-off at MRF: 129
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Provides recycling opportunities where curbside is not available or economically feasible.
- Provides no-cost recycling opportunities for commercial businesses, industries, and non-profit organizations.
- Because the sites are staffed, contamination is greatly reduced and/or eliminated.
- Staffed sites allow for educational opportunities with the participants.

Challenges of the program include:

- The collection equipment is aging and needs repaired or replaced.
- Only Washington Township is not serviced by the program.
- The drop-offs are available for short periods of time during work hours that may make it difficult for residents to use them.
- Not measuring tonnage collected through drop-offs make it difficult to evaluate tonnage collected over time.

3. Yard Waste Management Program

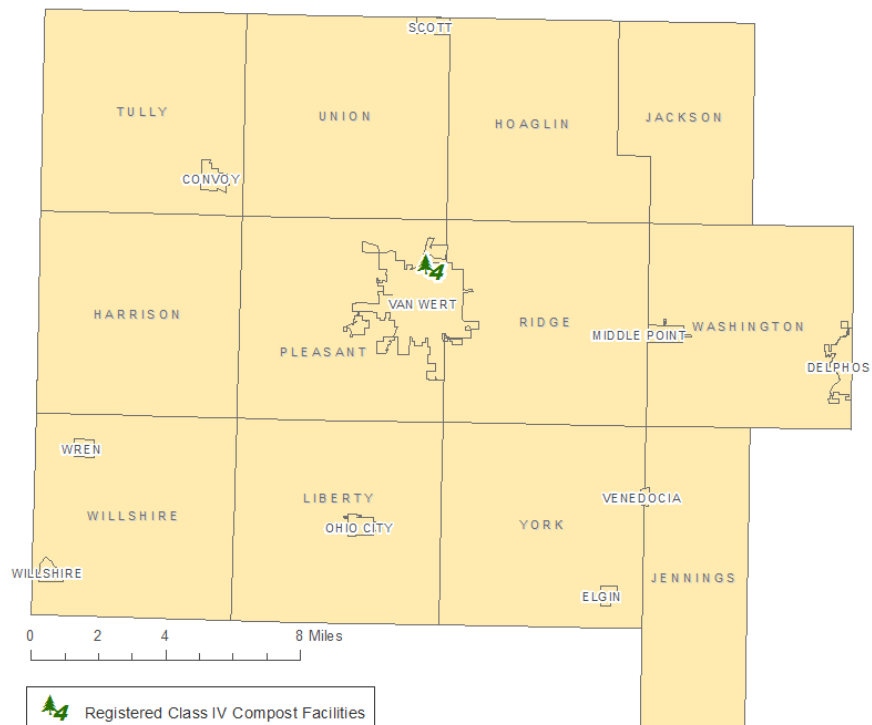
The District operates a registered Class IV composting facility at 1135 N. Washington Street in Van Wert. The facility was open in 2015, Monday, Wednesday, and Friday from 9 a.m. to 5 p.m. and the first and third Saturday of each month from 8 a.m. to 12 p.m. The site is located at the District's George E. Brake Recycling Center. The following materials are accepted:

- Trees
- Brush
- Leaves
- Other yard waste

Materials collected are processed into firewood, compost, and wood mulch. All finished products are made available to District residents for no cost. Loading assistance for residents hauling away materials is available with a backhoe for a small fee of \$24 per scoop. Contamination at the Class IV site has not been an issue.

The District's compost facility is the only registered compost facility located in Van Wert County. The following figure presents the location of the District's registered compost facility:

2015 District Registered Compost Facilities



The following table summarizes the program details.

Yard Waste Management Program Summary	
Description	Details
Ohio EPA Program ID	3284
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Yard waste, trees, leaves, brush, grass
2015 Recycled Tonnage	804
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- The District’s facility accepts yard waste materials for no charge.
- Materials accepted at the site are processed into usable products that are available to residents for no charge.

Challenges of the program include:

- Making high quality compost and mulch products.
- High volume loads from commercial generators do not pay for off-loading.

4. Hazardous Household Waste Collection

The District collected hazardous household waste and other special materials at the Recycling Center in 2015. The center was located at 1135 North Washington Street in Van Wert and was open Monday through Friday from 9 a.m. to 5 p.m. and the first and third Saturday of each month from 8 a.m. to 12 p.m. Materials accepted included:

- Latex paint
- Lead-acid batteries
- Fluorescent bulbs (4’ and 8’ residential bulbs only)
- Used oil (free of gasoline, solvents or other contaminants)
- Hydraulic oil (free of gasoline, solvents or other contaminants)

The operation of this program is dependent on adequate funding each year. Tonnage for this program was tracked with tonnage for the electronics program. The total volume collected in 2015 from these two programs was 29.6 tons.

The District promoted the recycling of latex paint and lead-acid batteries using fliers and radio advertising. The District also maintained an HHW hotline during regular business hours to provide residents with HHW assistance at the Recycling Center.

The following table summarizes the program details.

VW-4: Hazardous Household Waste Collection Program Summary	
Description	Details
Ohio EPA Program ID	3279, 3280, 3282, 3285, 5426, 7131
Entity Maintaining Program	District
Service Area	District
Materials Recycled	HHW, fluorescent bulbs, latex paint, used oil, hydraulic oil
2015 Recycled Tonnage	29.60
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- HHW and special materials are accepted year-round at the MRF, which is more convenient than an annual collection event.

Challenges of the program include:

- None.

5. Scrap Tire Collection

Tires were accepted at the Van Wert Material Recovery Facility (MRF) located at 1135 North Washington Street in Van Wert. The MRF was open Monday through Friday from 9 a.m. to 5 p.m. and the first and third Saturday of each month from 8 a.m. to 12 p.m.

The District accepted passenger car tires for \$5.00 per tire and \$8.00 per truck tire. In 2015, 15.45 tons of tires were accepted at the MRF. Privately-operated tire retailers also accepted tires for a

minimal fee. Overall, 178.62 tons of scrap tires generated in Van Wert County were recycled in 2015. The following table summarizes the program details.

VW-5: Scrap Tire Collection Program Summary	
Description	Details
Ohio EPA Program ID	3278
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Scrap tires
2015 Recycled Tonnage	District: 15.45 <u>+ Tire Retailers: 163.20</u> Total: 178.62
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Scrap tires are accepted year-round at the MRF, which is more convenient than an annual collection event.
- Privately-owned businesses provide ample opportunities for residents to recycle scrap tires, usually at the point of sale when new tires are purchased to replace spent tires

Challenges of the program include:

- The District does not offer special amnesty day collection events.

6. Electronics Collection

The District accepted electronics at the Van Wert MRF, which was located at 1135 North Washington Street in Van Wert. The MRF was open Monday through Friday from 9 a.m. to 5 p.m. and the first and third Saturday of each month from 8 a.m. to 12 p.m. The following materials were accepted:

- Computers
- Computer accessories
- Stereo equipment
- DVD & video players
- Copiers
- Other office equipment

- Televisions
- Monitors

In 2015, the District accepted 29.6 tons of electronics (including TVs). Most items were accepted at the MRF for no charge, however, the District charged \$0.37 per pound for tube-type monitors and televisions.

The following table summarizes the program details.

Electronics Collection Program Summary	
Description	Details
Ohio EPA Program ID	3615
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Lead-acid batteries
2015 Recycled Materials	Included in HHW tonnage
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District, Rumpke

Strengths of the program include:

- Electronics are accepted year-round at the MRF, which is more convenient than an annual collection event.
- Most items are accepted from residents for no cost.

Challenges of the program include:

- None.

7. Appliance Collection

The District accepted appliances at the Van Wert MRF, which was located at 1135 North Washington Street in Van Wert. The MRF was open Monday through Friday from 9 a.m. to 5 p.m. and the first and third Saturday of each month from 8 a.m. to 12 p.m. The following items were accepted:

- Air conditioners
- Refrigerators
- Freezers
- Furnaces
- Dish Washers

- Water heaters
- Ranges/Stoves
- Washers
- Dryers
- Toasters
- Blenders
- Sweepers
- Fans
- Other appliances

The following table summarizes the program details.

VW-7: Appliance Collection Program Summary	
Description	Details
Ohio EPA Program ID	5430
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Appliances/white goods
2015 Recycled Tonnage	31.98
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Appliances, including those containing Freon were collected and properly managed, protecting human and environmental health.

Challenges of the program include:

- None.

8. Commercial Collection Services

The District has offered a diverse commercial/industrial recycling collection program for many years, focusing on entities that do not attract private sector providers. Small commercial business and some industrial facilities that are located in communities where the District provides curbside recycling are also provided service at the curb. The District estimates approximately 120 participants in the curbside areas. These commercial/industrial curbside customers use carts for cardboard and commingled plastics and glass. The District also services about 10 commercial/industrial customers with roll-off containers. Four of the customers are picked-up on a

schedule while the others are on a call-in basis. This program has relied on word-of-mouth referrals. The District continues to work towards expanding these services.

Starting in November of 2016, the District began charging each account \$65.00 per roll-off pick-up service. This included the cost of collection and processing Fees from roll-off services are included in the District’s Contract Fees which also include designation fees (from landfills). The fee for the commercial sector starts in 2017 and covers curbside service.

There are eight (8) communities that are serviced by curbside: Van Wert, Venedocia, Middle Point, Elgin, Ohio City, Convoy, Wren, and Willshire. These communities have and already established parcel fee of \$33.40 is collected and covers curbside service whether the customer uses the curbside service or not. This fee was raised \$1.00 in 2017 from \$32.40 to \$33.40 and covers curbside service for residential and commercial sectors. The remaining communities in Van Wert county have a \$6.00 per year fee which assist the maintenance of the drop-off programs.

There were 796 businesses in 2017 which pay the parcel fees for curbside. About 15 percent of the businesses utilize the curbside recycling service. Also, there are 9 industrial roll offs and 6 school roll offs serviced in 2017.

The following table summarizes the program.

VW-8: Commercial Collection Program Summary	
Description	Details
Ohio EPA Program ID	5417
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Cardboard, mixed paper, books, aluminum cans and foil, bimetal cans, scrap metal, #1-#7 plastic containers, glass containers
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- The District provides service to over 100 commercial establishments throughout the District.
- The District fills a void left from the lack of private sector service providers.

Challenges of the program include:

- The District cannot service all of the requests from commercial entities for recycling services.
- The District’s collection container system is not user-friendly to commercial businesses due to size for source-separated recyclables.
- Unable to track weights from commercial customers separately from other material at the MRF.

9. Non-Profit Collection

The District continues to collect recyclables from a number of non-profit organizations on a scheduled or call-as-needed basis. During 2015, recyclables were collected from the Salvation Army, Goodwill, Trinity United Methodist Church, Thomas Edison Special Needs, Nofsingers Performing Arts and from the NCO Solid Waste Management District. In past years, participating organizations also included federal, state, and local government offices, additional religious-affiliated offices, and other institutions.

The following table summarizes the program.

Non-Profit Collection Program Summary	
Description	Details
Ohio EPA Program ID	5415
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Cardboard, mixed paper, books, aluminum cans and foil, bimetal cans, scrap metal, #1-#7 plastic containers, glass containers
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- The program increases the amount of recyclables processed and sold by the District.
- The District fills a need for non-profit entities and governmental entities that the private sector is not fulfilling.
- Collected recyclables benefits the District from increased sales of recyclables and revenue for the District.

Challenges of the program include:

- The District has been unable to determine if the charges for this service are meeting the costs incurred, due to inadequate accounting practices in previous years.

10. Other Residential/Commercial Collection Programs

The District also operated three other programs which provide (or assist with) collection services or an opportunity for residents to reuse materials:

- School recycling program. This program continued in 2015 with containers located at Lincoln View, Van Wert Elementary, Van Wert High School, and Crest View Schools. The District has typically placed compartmentalized trailers or roll-off bins at the larger schools for regular collection. There were 6 school roll offs serviced in 2017 which recycled 75 tons.
- Used book collection. Both hardback and paperback books are accepted at the recycling center. The District takes these donations and maintains a library consisting of thousands of books available to residents at no cost at the Recycling Center.
- Community clean-up days. For many years, the District has participated in annual and/or biannual community cleanup days. The District provided staff as well as truck(s) and trailer(s) for recycling tires, appliances, and other recyclable materials. Three villages (Convoy, Ohio City and Wilshire) have participated in the program. This program continued in 2015.

The following table summarizes these programs.

Other Residential/Commercial Collection Programs Summary	
Description	Details
Ohio EPA Program ID	6852, 3262, 8483, 5416
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Cardboard, mixed paper, books, aluminum cans and foil, bimetal cans, scrap metal, #1-#7 plastic containers, glass containers, scrap tires, appliances
2015 Recycled Tonnage	2015: N/A 2017: School roll-offs: 75
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- These programs provide increased opportunity to the residents and schools to recycle materials.
- Allows the District to forge new relationships and increase its visibility within the community.

Challenges of the program include:

- None.

RESIDENTIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

Educational activities are focused on the school age and adult populations of Van Wert County. Although the District does not have designated education/awareness staff, it does have equipment and facilities that offer opportunities to all facets of the communities served by the District. The District intends to continue existing educational activities throughout the planning period.

The District also works with natural resource conservation groups, entities, and organizations to promote common resource conservation agendas. This includes contributing to and participating in non-District sponsored activities and opening District sponsored activities to other like-minded groups. A website sponsored in part by the District, and under the banner of “Van Wert County Clean and Green” continues to serve as an informational hub for various organizations’ activities relating to natural resource conservation and enjoyment. Participants include OSU extension, ODNR Division of Wildlife, Van Wert Soil and Water Conservation District, Van Wert city/county school curriculum coordinators, Van Wert Parks Department, Van Wert County Township Association and the Van Wert YMCA.

1. Web Page and Internet Advertising

The District’s website at <http://recyclevw.org/> continued to provide the following information to residents and businesses in Van Wert County during the reference year:

- A copy of the currently Ohio EPA-approved solid waste plan for the District.
- The Recyclers Guide which not only provides locations where residents may bring their recyclables, but also detailed information regarding the types of materials which can be recycled in Van Wert County.
- Information about other solid waste facilities, collection events, and District services.

The following is a screenshot of the District’s website:



VAN WERT COUNTY
SOLID WASTE MANAGEMENT DISTRICT

1135 North Washington Street, Van Wert, Ohio 45891
Email: recyclevw@bright.net Telephone: 419-238-7767

Our Mission: *The mission of the Solid Waste Management District is to provide waste reduction services and opportunities in a manner that exceeds the expectations of its customers and the communities it serves.*

"The Van Wert Solid Waste District recycling programs are made possible in part by funding provided by the Ohio Department of Natural Resources, Division of Recycling & Litter Prevention, Community Development Grant."

Van Wert County SWMD provides recycling and e-waste management services to rural and city residents, as well as commercial, industrial and institutional entities. The SWMD facility is located at the northwest corner of Van Wert off U.S. 127 and U.S. Route 30.

The SWMD center is open on Monday, Wednesday and Friday from 9 a.m. to 5 p.m. and the first and third Saturdays of each month from 8 a.m. until 12-noon.

Recycle, Reuse, Reduce....




- [2012-2027 Plan](#)
- [*Recyclers Guide](#)
- [*Township Drop offs](#)
- [*Drive Thru](#)
- [*Curbside](#)
- [*Non-Profit Collections](#)
- [*Yard Waste Drop Off](#)
- [*Compost Facility](#)
- [Compost Fees](#)
- [*Other Services](#)
- [*Earth Day](#)

In addition to the website, the District continued to advertise its programs and collection events in one of the local electronic newspapers.

The following table summarizes the program details.

Webpage & Internet Advertising Program Summary	
Description	Details
Ohio EPA Program ID	6853
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- The website provides an effective and efficient means for distributing information and notifying residents about programs and upcoming collection events.

Challenges of the program include:

- A more efficient and productive education program is needed.

2. Recycling Center Tours

During the reference year, the District continued to provide guided tours through the George E. Brake Recycling Center for civic and church groups, school classes, as well as other groups. These tours help educate the public with regard to general aspects of solid waste management, and the activities of the District in particular. No specific performance data was available on this program for 2015.

The following table summarizes the program details.

Recycling Center Tours	
Description	Details
Ohio EPA Program ID	5419
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Multiple age groups are targeted with audience specific presentation content.
- Engagement with District residents and business resulting in new relationships.
- Allows the District to demonstrate to the community the dedication the District has to recycle and divert solid waste from landfills.

Challenges of the program include:

- A more efficient and productive education program is needed.

3. Environmental and Community Events

In 2015, the District continued to be involved in events with an environmental focus, including:

- Earth Day open house celebration;
- Community parades associated with the Peony Festival and Holiday at Home in Van Wert, Lambert Days in Ohio City, Pioneer Parade in Willshire, Homecoming Parade in Wren, and the Community Days parade in Convoy. The District participates in these parades with recycling vehicles; and
- “Not just Cows and Plows Day” which utilizes multiple learning stations focused on agriculture and natural resource conservation. The District participates in opening and closing ceremonies and provides printed materials.

The following table summarizes the program details.

Environmental Events Program Summary	
Description	Details
Ohio EPA Program ID	5421, 3264, 8474
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Increased awareness of recycling opportunities by providing comprehensive recycling resources for the public.

Challenges of the program include:

- A more efficient and productive education program is needed.

4. Other Education and Awareness Activities

The District also continued to educate the public and increase awareness through several additional programs which include the following:

- Distribution of printed materials;
- Ads, news releases, news media, and radio spots;
- One-on-one contacts; and school and civic event participation and presentations.

The District continues to produce written news releases covering scheduled activities, program promotion and special events. The District is also often featured in news media interviews and feature stories.

The following table summarizes these programs.

Other Education and Awareness Activities	
Description	Details
Ohio EPA Program ID	3265, 3267, 8476, 3266
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Provides widespread increased awareness of recycling opportunities, and education of the public about solid waste and recycling issues.

Challenges of the program include:

- A more efficient and productive education program is needed.

COMMERCIAL/INDUSTRIAL SECTOR EDUCATION, AWARENESS, AND TECHNICAL ASSISTANCE

1. Consulting Services and Recycling Process Training

The District continued to offer consulting services to the commercial, institutional, and industrial sectors during 2015. These services are intended to assist institutions and businesses with designing waste reduction and recycling programs and/or providing recommendations for increasing diversion rates. No performance date was available in 2015 on this program.

The following table summarizes this program.

Consulting Services and Recycling Process Training Summary	
Description	Details
Ohio EPA Program ID	8475, 5420
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Program provides free, individualized technical assistance to local businesses, institutions, and industrial entities to promote the establishment or expansion of recycling programs.
- Program provides an opportunity for the District to meet, interact with, and develop relationships with local generators.

Challenges of the program include:

- A more efficient and productive education program is needed.

2. Commercial/Industrial Focus on Newsletters

The District prepared commercial/industrial newsletters in the past. No information was available for activities in 2015.

The following table summarizes this program.

Commercial/Industrial Newsletter Program Summary	
Description	Details
Ohio EPA Program ID	5424
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

Strengths of the program include:

- Newsletters reach generators directly and raise their awareness about the District and its programs.

Challenges of the program include:

- A more efficient and productive education program is needed.

DISTRICT FACILITIES

1. George E. Brake Recycling Center

The District’s recycling center was renamed in a ceremony in 2016 to honor the late George E. Brake, former District Coordinator of the District. The facility is now called the George E. Brake Recycling Facility.



The District owns and operates the George E. Brake Recycling Center, which is located at 1135 North Washington Street, Van Wert, Ohio. The facility processes multi-stream recyclables, and also operates a drop-off for residents and businesses within the County. The drop-off is open Monday, Wednesday, and Friday, 9:00 a.m. to 5:00 p.m., and the first and third Saturdays from 8:00 p.m. to 12:00 noon. More details regarding this facility and its operation is provided above under the drop-off program.

The District maintains a number of programs designed to evaluate current recycling center operations and implement necessary improvements whenever warranted. These programs include:

- Collection equipment expansion and improvements. No collection equipment was updated or expanded in 2015;
- Facility improvements. A skid loader was purchased for the facility in 2015 to improve materials management;
- Expand list of processed materials. The types of materials accepted at the recycling center was not changed in 2015;
- Improve facility layout and traffic flow. The traffic flow was not altered in 2015; and
- Single-stream collection evaluation. The District has not evaluated the possibility of switching to single-stream collection, and the changes which would be required at the recycling center for processing.

The following table summarizes these programs.

George E. Brake Recycling Center Program Summary	
Description	Details
Ohio EPA Program ID	8477, 5412, 5411, 5431, 8479
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Cardboard, mixed paper, books, aluminum cans and foil, bimetal cans, scrap metal, #1-#7 plastic containers, glass containers, scrap tires, appliances
2015 Recycled Tonnage	1,214
Annual District Program Costs	\$206,534
Program Operator/Contractor	District

Strengths of the program include:

- The recycling center provides processing capability for recyclables generated in the District as well as offering a location where residents and businesses can drop off materials.

Challenges of the program include:

- Accounting of services, process and procedures lacks organization. Many of these challenges have been

discussed in other areas of this *Plan Update* and will be addressed in new initiatives in Section V.

2. Van Wert County Composting Facility

This facility is discussed above under yard waste programs.

OTHER PROGRAMS

The District maintained five additional programs during 2015, although there was no activity associated with two of these programs:

- Data management system improvements. This program is intended to evaluate the need to improve data gathering and processing systems for all district programs. There was no activity for this program in 2015.
- Intergovernmental contract collection. The District has contracts with both Allen and Putnam counties to provide recycling drop-off collection and processing for two communities in Putnam County and six communities in Allen County. The collection is provided by the District staff who weigh all materials which are then credited to the generating SWMD. A fee is charged for the collection and processing service. This program continued during 2015. This is covered under the non-profit collection services program discussed earlier.
- Strategic planning, SWOT analysis, surveying. There was no activity for this program in 2015.
- Vinyl siding collection. This program continued in 2015.
- Annual District Report. The District is committed to continuing this program each year which will involve collecting information from commercial and industrial businesses.

The following table summarizes the program details.

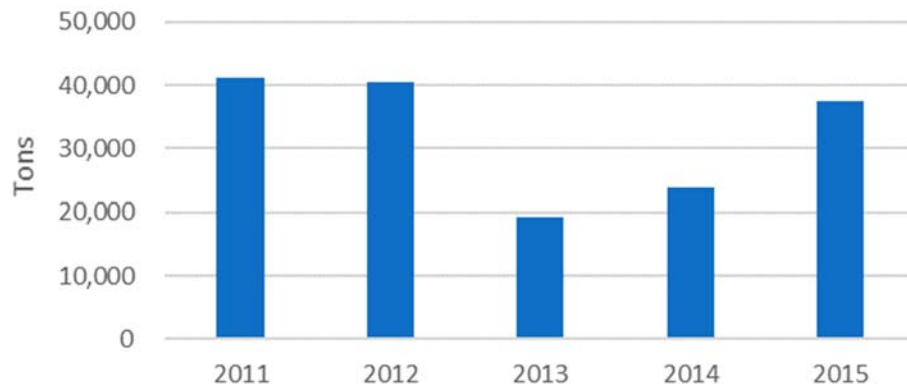
Other Programs Summary	
Description	Details
Ohio EPA Program ID	8481, 5429, 8482, 8473
Entity Maintaining Program	District
Service Area	District, communities in Allen and Putnam Counties
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual District Program Costs	Included in the Cost of the District MRF
Program Operator/Contractor	District

G. 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 2011 through 2015. Total waste generation is calculated by summing the total waste landfilled (either by direct disposal or transfer), total tons recycled, and total tons composted.

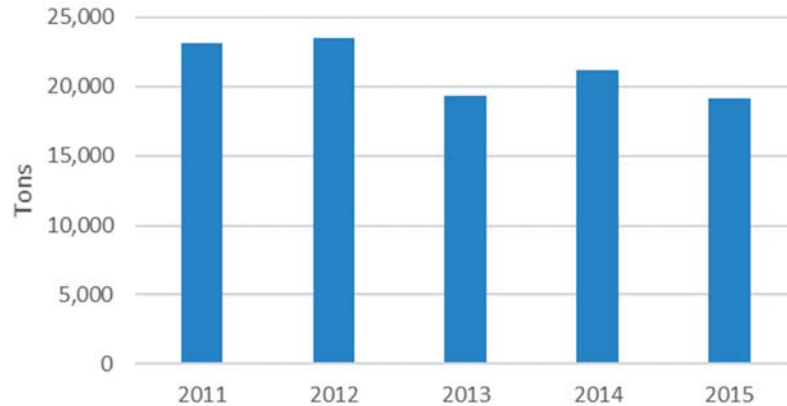
District recycling data is not available for 2013 and 2014, and composting data is not available for 2013. As a result, these two years are not reliable measures of the total waste generation in Van Wert County. The average waste generation from 2006 through 2015, not including years 2013 and 2014, is 40,566 tons. The following figure presents the District’s historical total waste generation from 2011 through 2015.

District Historical Waste Generation



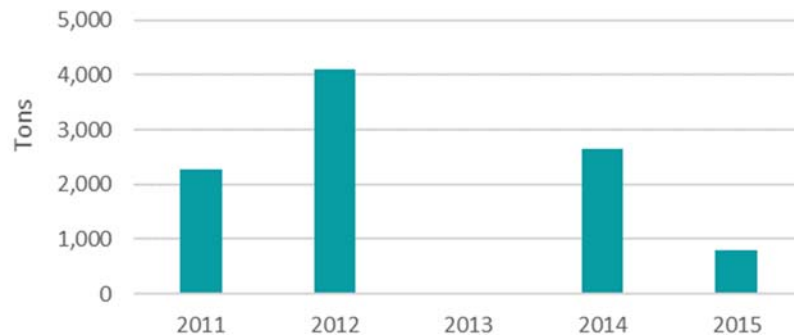
Landfilled waste tonnage was based on actual tonnage reported by landfills, transfer stations, and incinerators from 2011 through 2015. Even though it has fluctuated, landfilled waste has decreased from 2011 through 2015 as shown in the figure below. The average amount landfilled from the District during the last ten years is 22,220 tons.

District Historical Landfill Disposal



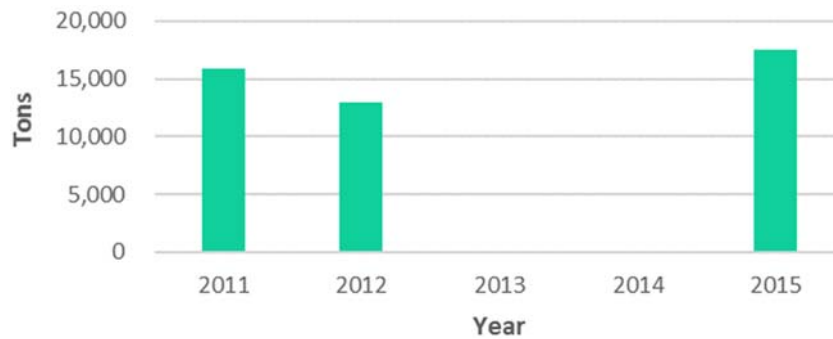
The amount of yard waste composting has fluctuated considerably from 2011 through 2015 as shown in the figure below. As stated above, composting data was not available for year 2013, however, the ten-year average composting total (without 2013) is 2,813 tons.

District Historical Yard Waste Management



Total waste reduction/recycling (excluding composting) in the District from 2011 through 2015 was based reported values in the Annual District Report, and is shown below in the figure. (Data for 2013 and 2014 was not available.) The average annual recycling reported from 2006 through 2015 was 15,411 tons. Actual recycling based on reported values from generators, MRFs, haulers, and brokers/processors in 2015 was 17,533 tons, which is above the ten-year average.

District Historical Waste Reduction/Recycling



H. Reconciliation of Waste Generation

Table IV-8, “Adjusted Reference Year Total Waste Generation for the District”, presents adjusted reference year total waste generation for the District. This is based on actual reported recycling and disposal.

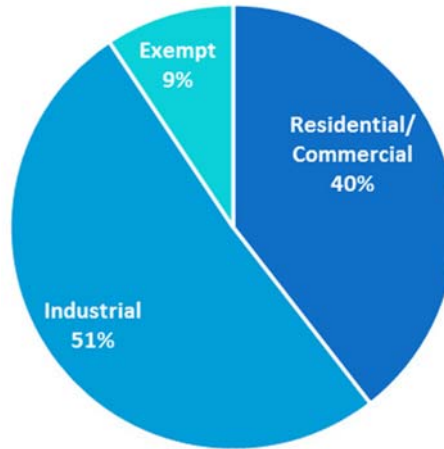
The District calculated waste generation using two methods. The first method outlined in Part D of this Section uses statewide generation estimates by type of industry to determine industrial waste generation projections. Residential/commercial generation was determined based upon the rate of change in the generation rate observed within the District during the past several years. Finally, exempt waste was obtained from actual landfill and transfer station operating reports. Using this methodology, the District estimated 45,636 tons of solid waste generated in 2015. The resulting total generation rate was 9.79 pounds per person per day (Table IV-4).

The second method used to calculate solid waste generation is based on actual reported recycling and disposal in the District during the reference year (Table IV-8). District residents, businesses, and industry generated 37,446 tons in 2015. The total generation rate was 8.03 pounds per person per day (Table IV-8), which includes recycling and waste disposal from all sectors. The residential/commercial sector generated 14,787 tons or 3.17 pounds per person per day, which includes recycling and yard waste composting. The industrial sector generated 19,158 tons, or approximately 4.11 pounds per person per day. Exempt waste generation was 3,501 tons, or approximately 0.75 pounds per person per day.

The District selected the second method as the most accurate method of projecting waste generation because waste at the landfills and transfer stations is weighed. The first method of projecting waste generation is based on projections and secondary data sources, which are generally not as accurate as actually weighing the materials. The following figure

presents the reference year waste generation by sector based upon using the second method of calculating waste generation.

2015 District Adjusted Waste Generation by Sector

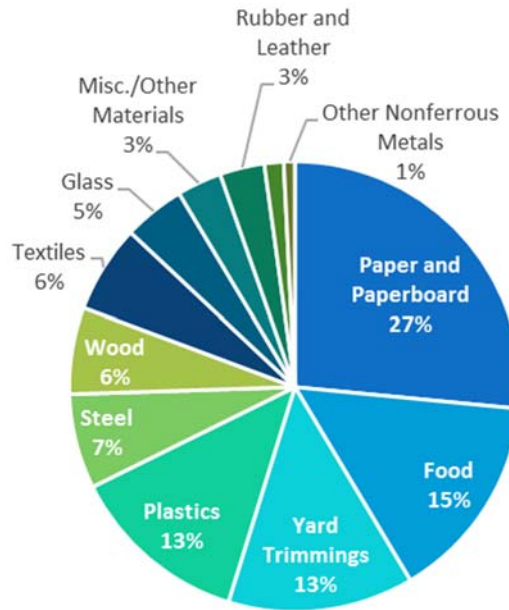


I. Waste Composition

Residential/commercial waste stream composition is defined using average percentages reported by the U.S. EPA (Table IV-9). The main purpose of reviewing the waste composition is to evaluate the types of materials generated and determine if programs are adequate to manage the diversion of the largest components of the waste stream.

Paper and paperboard made up the largest component of the residential/commercial waste stream with an estimated 3,900 tons. All of the curbside recycling programs and drop-offs collected this material. Other significant portions of the waste stream include food scraps (2,203 tons), yard trimmings (1,967 tons), and plastics (1,908 tons). The following figure presents the estimated residential/commercial waste composition for the reference year.

2015 District Estimated Residential/Commercial Waste Stream Composition

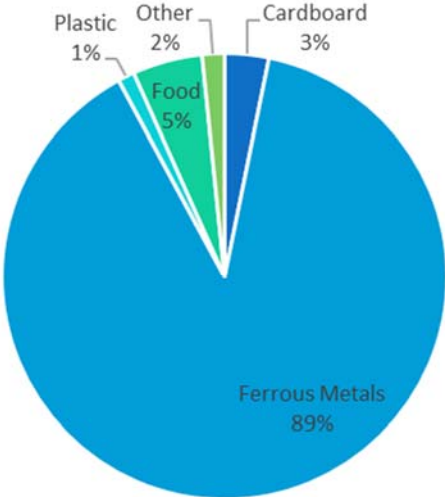


Similar to the residential/commercial waste stream, the purpose for reviewing the industrial waste stream is to determine what types of materials comprise the largest volumes and then determine if the necessary programs are in-place to manage these materials.

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 effort. 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 (17,031 tons). Food (972 tons), cardboard (613 tons), and plastics (230 tons) comprised much smaller portions of the industrial sector waste stream. The remaining materials each represented approximately 2% of the industrial waste stream. The following figure presents the industrial waste composition for the reference year.

2015 District Estimated Industrial Waste Stream Composition



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

County/Community Name	2015 Population	2015 Generation Rate (lbs/person/day)	2015 District Residential/Commercial Generation (Tons)
Van Wert County	28,562		
Adjustments			
City of Delphos <i>(Majority in Allen County)</i>	3,131	4.49	20,920
Village of Scott <i>(Paulding County Portion; Majority in Van Wert County)</i>	116		
Total	25,547		

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2015 Population Estimates by County, City, Village, and Township", May 2016.

Example calculations:

$$\begin{aligned}
 &\text{Total Residential/Commercial Generation} = \frac{\text{Population} \times \text{Generation Rate (lbs/person/day)} \times 365 \text{ (days/year)}}{2,000 \text{ (lb/ton)}} \\
 &20,920 \text{ tons} = \frac{25,547 \times 4.49 \times 365}{2,000}
 \end{aligned}$$

**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)		Tons of Waste Generated
20	1	561	1,082	1.93	2	6	13.92	84	1,166
22	0	0	0	0.00	0	0	9.99	0	0
23	0	0	0	0.00	1	40	2.80	112	112
24	0	0	0	0.00	1	1	51.62	52	52
25	0	0	0	0.00	0	0	1.79	0	0
26	0	0	0	0.00	1	45	17.50	788	788
27	0	0	0	0.00	4	21	6.70	141	141
28	0	0	0	0.00	3	17	12.43	211	211
29	0	0	0	0.00	0	0	7.33	0	0
30	1	19	167	8.77	2	85	7.29	620	786
31	0	0	0	0.00	0	0	3.41	0	0
32	1	6	47	7.77	0	0	10.55	0	47
33	0	0	0	0.00	1	10	36.93	369	369
34	2	55	9,480	172.36	7	156	11.16	1,741	11,221
35	4	1,322	4,434	3.35	8	210	5.72	1,201	5,635
36	0	0	0	0.00	0	0	2.98	0	0
37	0	0	0	0.00	3	29	3.21	93	93
38	0	0	0	0.00	1	100	1.74	174	174
39	0	0	0	0.00	5	91	4.62	420	420
Total	9	1,963	15,209	7.75	39	811	N/A	6,005	21,215

Source(s) of information:

Survey respondent data - 2015 District Industrial survey responses
 Total number of industries and employees - Reference USA
 Appendix JJ-2 was used to calculate unreported data.

Example calculations (SIC 20):

Survey Respondents:

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

$$1.93 = \frac{1,082}{561}$$

Non-Respondents:

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

$$13.92 \times 6 = 84$$

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

Type of Waste Stream	Generation Rate (lb/person/day)	Total Exempt Waste Generation (TPY)
Construction/Demolition	0.75	3,501
Total	0.75	3,501

Source(s) of information:

2015 Landfill and Transfer Station Operation Reports; 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:

$$0.75 = \frac{3,501 \text{ tons} \times 2,000 \text{ lbs}}{25,547 \text{ residents} \times 365}$$

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

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/Commercial	4.49	20,920
Industrial	4.55	21,215
Exempt	0.75	3,501
Total Waste Generation	9.79	45,636

Source(s) of information:

Residential/Commercial- Table IV-1

Exempt -Table IV-3

Industrial- Tons/yr-Table IV-2

Example calculation (Industrial Sector):

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

$$4.55 = \frac{21,215 \text{ tons} \times 2,000 \text{ lbs}}{25,547 \text{ residents} \times 365}$$

**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	Corrugated	755	Incineration*	Ash	Net Incineration*
		All Other Paper	547	0	0	0
		Glass	354	Composting	Residuals	Net Compost
		Plastics	234	804	0	804
		Scrap Tires	179	Resource Recovery	Ash	Net Resource
		Food	139	0	0	0
		Ferrous Metals	32			
		Wood	32			
		Electronics	30			
		Used Motor Oil	17			
		Lead-Acid Batteries	5			
		Non-Ferrous	1			
Subtotal	0		2,324	804	0	804
Grand Total						3,128

Source(s) of information:
2015 District Annual Report and Residential/Commercial Surveys

**Table IV-6
Reference Year Industrial 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 Processed
None	0	Ferrous Metals	13,521	Incineration*	Ash	Net Incineration
		Food	772	0	0	0
		Corrugated Cardboard	486	Resource Recovery	Ash	Net Resource Recovery
		Plastics	182	0	0	0
		Wood	111	Composting	Residuals	Net Composted
		Other	66	0	0	0
		All Other Paper	36			
		Non-Ferrous Metals	19			
		Textiles	15			
Subtotal	0		15,209	0	0	0
Grand Total						15,209

Source(s) of information:
2015 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	
2011	6,947	8,893	15,840	2,264	14,097	3,112	5,887	23,095	41,199
2012	5,314	7,608	12,922	4,097	11,108	3,288	9,124	23,520	40,539
2013	DNR	DNR	DNR	DNR	11,477	3,385	4,482	19,344	19,344
2014	DNR	DNR	DNR	2,648	11,522	3,705	5,948	21,175	23,823
2015	2,324	15,209	17,533	804	11,659	3,949	3,501	19,109	37,446

Source(s) of information:

District Annual Reports and Ohio EPA Facility Data Reports.

Sample calculation (2015):

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

$$37,446 \text{ tons} = 17,533 \text{ tons} + 804 \text{ tons} + 19,109 \text{ tons}$$

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

Type of Waste	Generation Rate (lbs/person/yr)	Tons/Year
Residential/ Commercial	3.17	14,787
Industrial	4.11	19,158
Exempt	0.75	3,501
Total Waste Generation	8.03	37,446

Source(s) of information:

Exempt -Table IV-3

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

Example Calculation:

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

$$8.03 = \frac{37,446 \times 2,000}{25,547 \times 365}$$

**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 and Paperboard	26.5%	3,919
Food	14.9%	2,203
Yard Trimmings	13.3%	1,967
Plastics	12.9%	1,908
Steel	6.8%	1,006
Wood	6.2%	918
Textiles	6.3%	932
Glass	4.4%	651
Misc./Other Materials	3.2%	473
Rubber and Leather	3.2%	473
Aluminum	1.4%	204
Other Nonferrous Metals	0.8%	117
Totals	100%	14,787

Source(s) of information:

Total tons - Table IV-8

Total MSW Generation (by material) - US EPA Advancing Sustainable Materials Management: 2014 Fact Sheet, November 2016.

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

Waste Stream Type	TPY	Waste Stream Type	TPY
Cardboard	613	Non-Ferrous Metals	24
Paper	46	Plastic	230
Cloth & Fabrics	19	Food	972
Wood	139	Misc.	83
Ferrous Metals	17,031	MSW	0
Subtotal	17,848	Subtotal	1,310
Grand Total			19,158

Source(s) of information:

District Industrial Waste Survey for calendar year 2013 solid waste generation by type of waste and SIC number.

Each industrial waste component was projected using the adjustment factor to account for nonrespondent industries.

Example Calculation:

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

$$\text{Adjustment Factor} = 1.2596 = 19,158 \text{ tons} \div 15,209 \text{ tons}$$

$$\text{Type of Industrial Waste Generated (tons)} = \text{Type of Industrial Waste Generated (Appendix F)} \times \text{Adjustment Factor}$$

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 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, 2019 through December 31, 2033

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, 2019 to December 31, 2033. To provide additional context, projections and tables in this *Plan Update* also include the years 2015 through 2018.

B. Population Projections

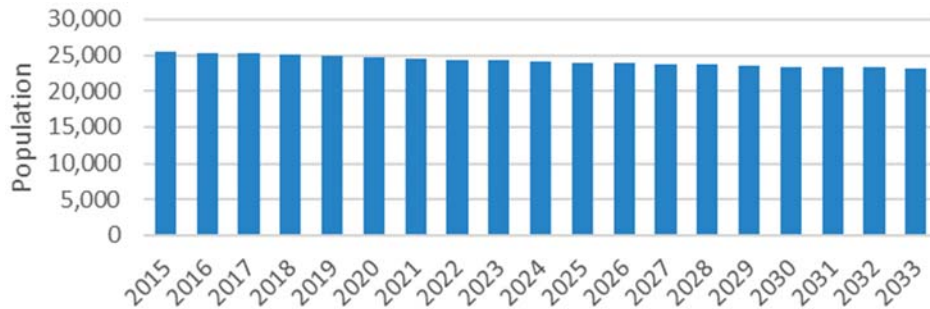
The District's population projections from the reference year (2015) through the end of the planning period are presented in Table V-1. The Ohio Development Services Agency's (ODSA) 2015 population estimates by county, city, village, and township were used to calculate a base population for the District. Using a second ODSA publication (Ohio County Profiles) which presents population projections by county in five-year intervals from 2010 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. The District's reference year population was adjusted from the base population by subtracting the Village of Delphos population living in Van Wert County because the majority of that village's population resides in Allen County. The population of the Village of Scott, which resides in Paulding County, was added to the District's population because the majority of its population is in Van Wert County. The District's total adjusted reference year population was 25,547.

Population is anticipated to decrease annually throughout the planning period. Population is expected to decrease by 1,639 residents or 6.6% from

2019 to 2033. The District is projected to begin the planning period in 2019 with a population of 24,876 and end in 2032 with a total population of 23,238. The following figure presents the estimated District population from the reference year to the end of the planning period.

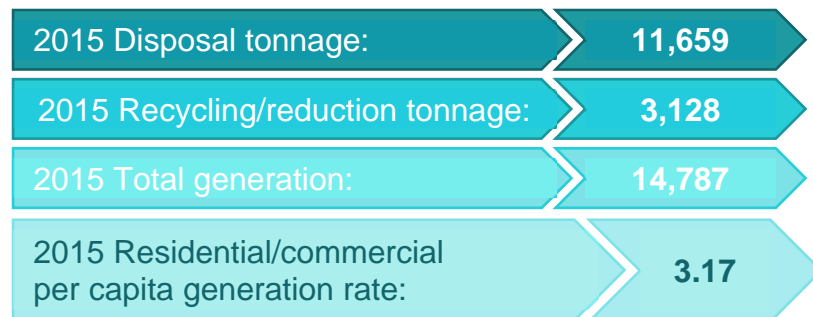
District Population Projections: 2015 – 2033



C. Waste Generation Projections

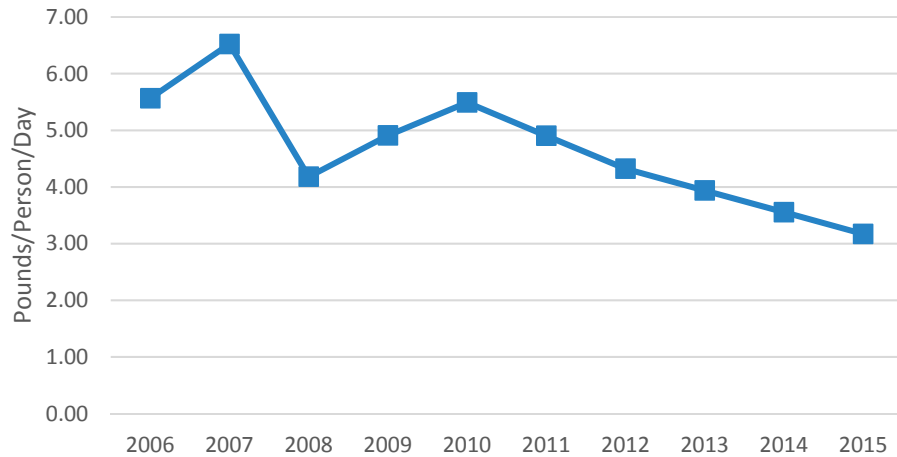
1. Residential/Commercial Sector

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 2015 reference year and each subsequent year through 2033. In 2015, the District calculated the per capita generation rate based on Ohio EPA’s Facility Data Reports for disposal and from the District’s 2015 Annual District Report and survey results for recycling. The following data was used for this calculation:



The total residential/commercial waste generation for 2015 (which includes recycling/reduction plus disposal) was 14,787 tons. Overall per capita residential/commercial sector waste generation decreased 2.39 pounds from 2006 through 2015. (See the figure below.) Although the District has experienced some fluctuation in the generation rate during this time period, the overall trend has been a significant decrease.

District Residential/Commercial Generation Rate: 2006-2015



Note: 2013 and 2014 were projected using a straight-line average due to lack of data.

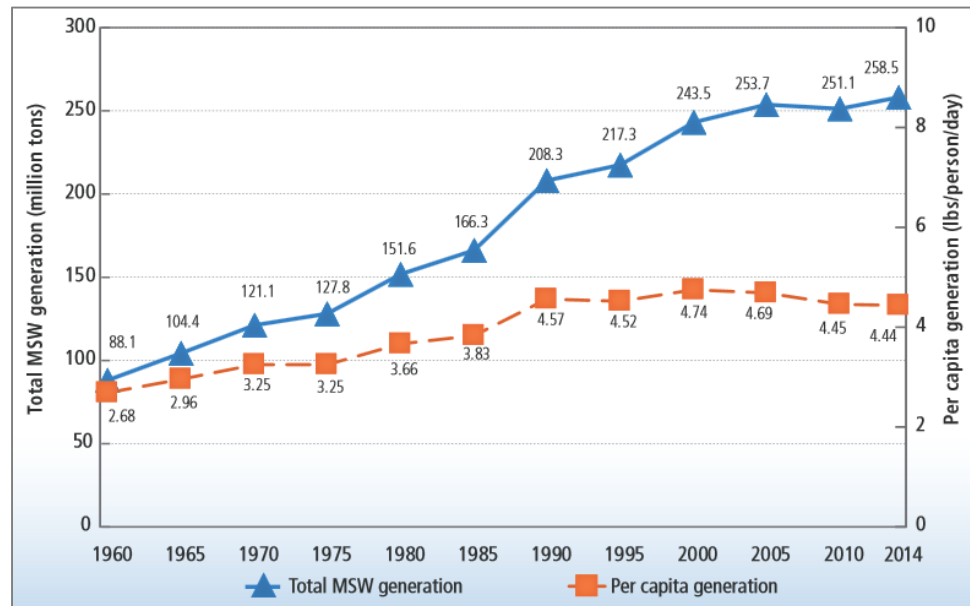
Nationwide, residential/commercial waste generation rates have also been declining over the past 10 to 15 years. The following table presents the U.S. EPA’s national statistics from 2000 through 2014¹:

Year	2000	2005	2008	2010	2011	2012	2014
Overall Generation	4.74	4.69	4.55	4.45	4.4	4.38	4.44
% Change		-1.10%	-2.99%	-2.20%	-1.12%	-0.45%	1.37%

The following figure from the U.S. EPA’s *Advancing Sustainable Materials Management: 2014 Fact Sheet* presents the per capita waste generation and per capita generation rates for a much longer time period, 1960 through 2014.

¹ U.S. EPA, *Advancing Sustainable Materials Management: 2014 Fact Sheet*, November 2016.

Total U.S. Municipal Waste Generation: 1960 – 2014



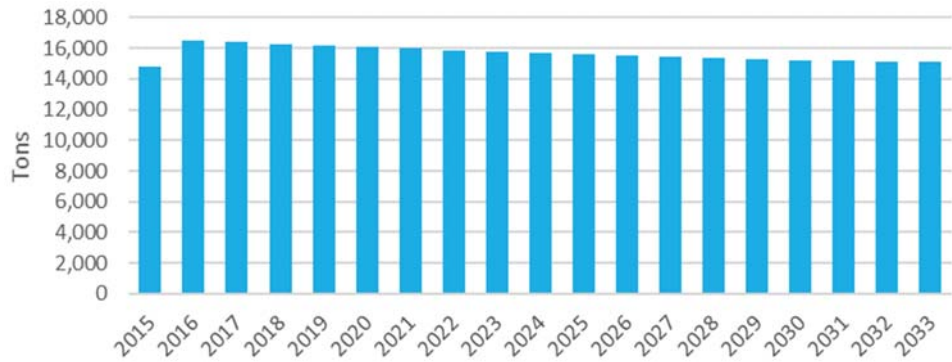
Even though the District’s generation rate has been decreasing, the 2015 generation (3.17 pounds/person/day) is much lower than rates for previous years. In addition, this generation rate is substantially lower than the generation rate in any other SWMD in Ohio. See table below.

SWMD	2014 Residential/Commercial Generation Rate (PPD)
Preble	3.40
Ashtabula	3.74
Ashland	3.97
Athens-Hocking	4.02

Based upon the information discussed above, the District believes that using the 2012 generation rate of 3.56 PPD throughout the planning period is appropriate. Applying this generation rate results in 14,409 tons of residential/commercial waste in 2019 and 14,443 tons at the end of the planning period due to the projected decrease in population.

The following figure presents the estimated residential/commercial waste generation throughout the planning period.

Residential/Commercial Waste Generation: 2015 – 2033



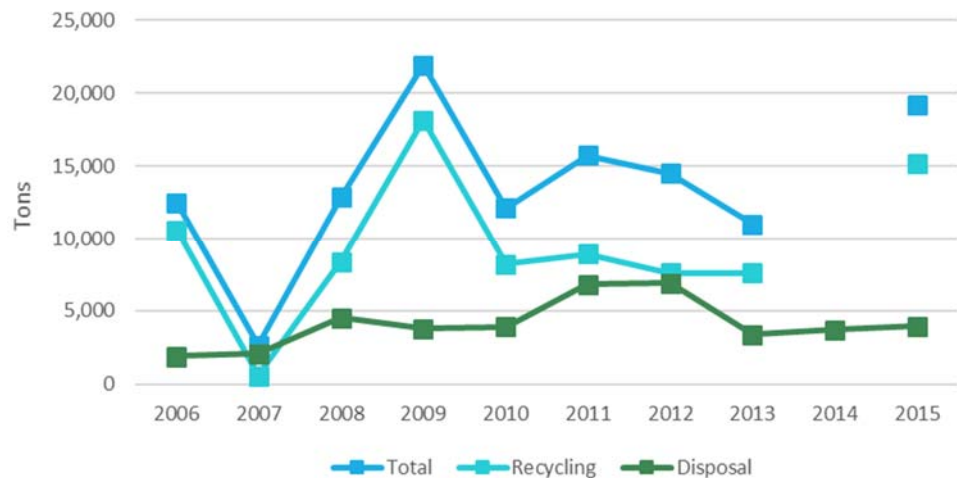
2. Industrial Sector

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 2015 reference year through 2033.

The industrial waste generated by each SIC code in 2015 is based on the ratio of waste reported 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.

The estimated amount of industrial waste generation has fluctuated considerably over the last ten years as shown in the figure below.

Industrial Waste Generation: 2015 – 2033



The variation in total generation of industrial waste has been influenced to much greater extent by the estimated amount of recycling than the tons of waste disposed. Industrial disposal has remained relatively consistent throughout the ten-year time period. Total generation and recycling for year 2014 is not shown in the figure since industrial recycling estimates are not available.

Industrial employment offers a method of projecting industrial waste generation. The Ohio Department of Job and Family Services' (ODJFS) publication, *Regional Manufacturing Population from Jobs Ohio Regions to 2022: Northeast Ohio* projects that the northeast Ohio region (which includes Van Wert County) will increase in manufacturing employment by 0.3 percent from 2012 through 2022, or approximately 0.03 percent per year.

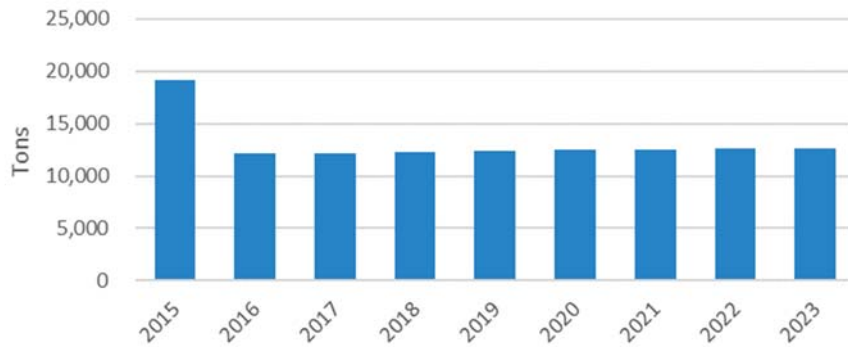
The District has chosen to project industrial generation by estimating recycling and disposal tonnage separately. As stated above, industrial disposal has remained relatively consistent, especially since 2008. The average disposal amount from 2006 through 2015 is 4,086 tons; the District assumes that businesses in Van Wert County will continue to dispose this amount of industrial waste throughout the planning period.

The average amount of recycling during the ten-year period (not including years 2007, 2009, and 2015, which appear to be anomalies, and 2014) is 8,548 tons. The District has added the averages for disposal (4,086 tons) and recycling (8,548 tons) to estimate the total industrial generation for 2016 (12,634 tons). Recycling has been projected for years 2017 through 2022 by assuming a somewhat greater increase than would be suggested by employment projections – 1 percent per year. The District believes 1 percent is a reasonable projection, especially since it appears that improved surveying efforts for the industrial sector alone will likely result in higher recycling estimates.

Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period. The amount recycled is projected to remain constant after year 2022, resulting in constant total industrial generation.

The District projects industrial waste to increase from 12,893 tons in 2019 to 13,160 tons in 2022, a 2.1% increase. (See the figure below.) This is obviously a lower tonnage than estimated for the reference year, but the District believes it is also more in line with the trend observed from historical data.

Industrial Generation: 2015 – 2023



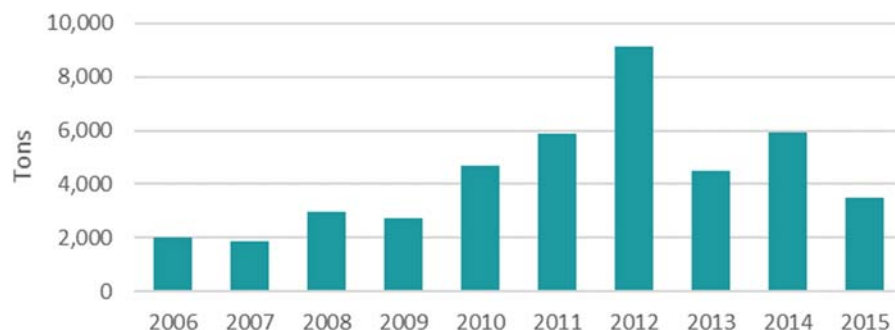
3. Total Waste Generation

Total waste generation projections for the District during the planning period are presented in Table V-4. The total waste generation calculation for the 2015 reference year was 37,446 tons. This includes residential/commercial waste (14,787 tons), industrial waste (19,158 tons), and exempt waste (3,501 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 fluctuated from less than 2,000 tons in 2007 to more than 9,000 tons in 2012, while the ten-year average is 4,319 tons. (See the figure below.) The District believes that projecting exempt waste generation by using the average of 4,319 tons is reasonable, and this amount is assumed to remain constant throughout the planning period.

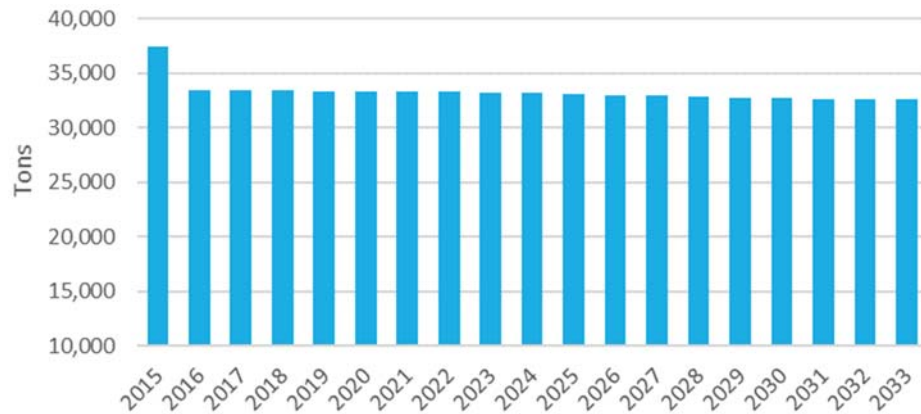
Exempt Waste Generation: 2006-2015



The overall 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 7.25 PPD. The per capita generation rate is projected to increase to 7.64 PPD by the final year of the planning period. Total waste generation is projected to change by only 798 tons over the fifteen-year planning period as residential/commercial generation decreases, industrial generation increases slightly until 2023, and exempt waste generation remains constant.

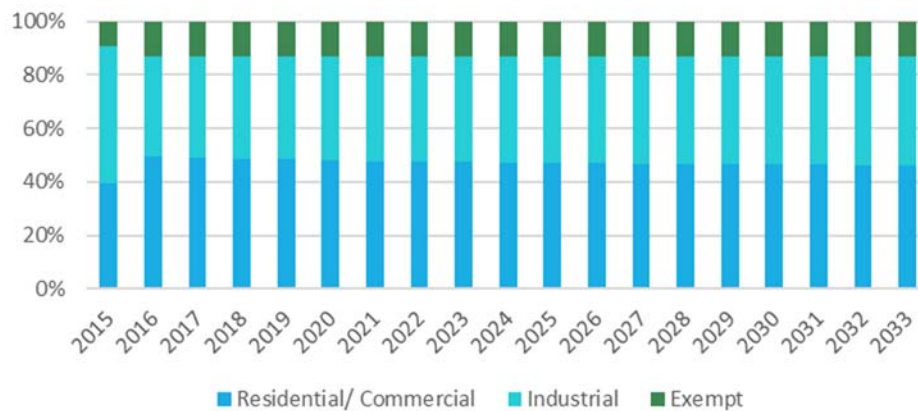
The following figure presents the District’s total waste generation projections throughout the planning period.

Total District Waste Generation: 2015 – 2033



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

Total District Waste Generation by Sector: 2015 – 2033



D. Projections for Waste Stream Composition

The District does not anticipate any major changes in the composition of the waste stream during the planning period. However, a change in economic conditions or the closure of a plant could greatly impact the industrial as well as residential/commercial projections.

Responses to the District’s annual survey should alert the District to any 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

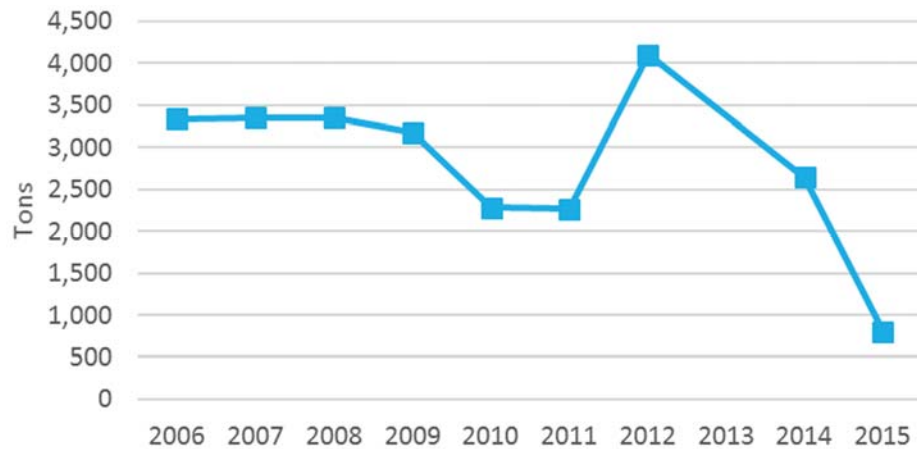
Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Curbside Recycling	VW-1	✓	✓					
Drop-Off Recycling	VW-2	✓	✓					
Yard Waste Management	VW-3		✓			✓		
Household Hazardous Waste (HHW) Collection	VW-4		✓			✓		
Scrap Tire Collection	VW-5	✓	✓			✓		
Electronics Recycling	VW-6	✓	✓			✓		
Appliance Collection	VW-7	✓	✓			✓		
Commercial Collection Program	VW-8		✓		✓			
Non-Profit Collection	VW-9	✓	✓		✓			
Other R/C Collection Programs	VW-10	✓	✓					
Education and Awareness Program	VW-11			✓	✓			
George E. Brake Recycling Center	VW-12		✓		✓	✓		
Other Programs	n/a		✓		✓			
Number of Strategies Per Goal		7	12	1	5	6	0	0

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District’s residential/commercial waste reduction strategies are presented in Table V-5. Actual tonnage was used for the 2015 reference year. Diversion for each program from 2016 through 2033 was projected using the following assumptions:

- Curbside Recycling (VW-1), Drop-Off Recycling (VW-2), and Household Hazardous Waste Collection (VW-4) tonnages are projected to remain flat at 2015 amounts throughout the planning period.
- Yard Waste Management (VW-3) is projected to increase at 25 percent per year until year 2022 when it will approximate the average amount of materials composted during the previous ten years after removing the 2015 amount, which seems to be an anomaly. (See the figure below.) Data is not available for 2013 and 2014. Tonnage is projected to remain constant for the remainder of the planning period.

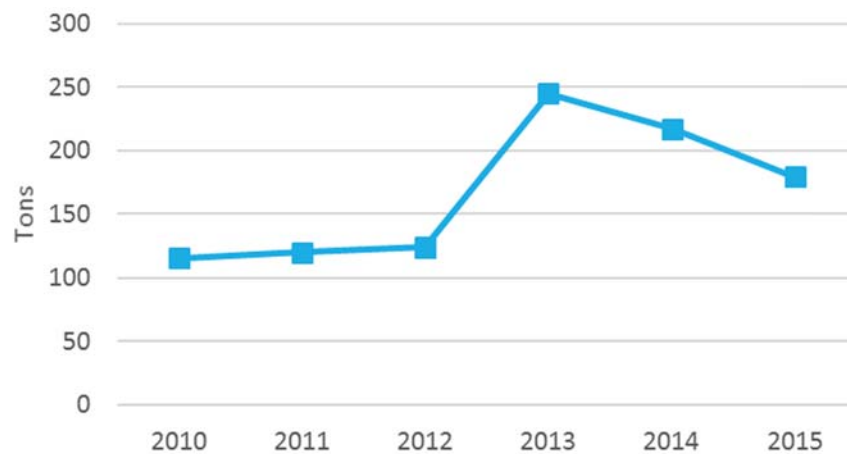
District Yard Waste Management: 2006-2015



Note: District yard waste totals were not available for 2013.

- Scrap Tire Collection (VW-5) has shown an overall increase over the last five years, with some jumps during 2013 and 2014. (See the figure below.) Given the trend observed in collecting this material, the District believes it is reasonable to assume a modest increase in scrap tire collections of four percent per year until 2023 when the tonnage is projected to remain constant at an amount slightly less than the reported recycled amount for 2013.

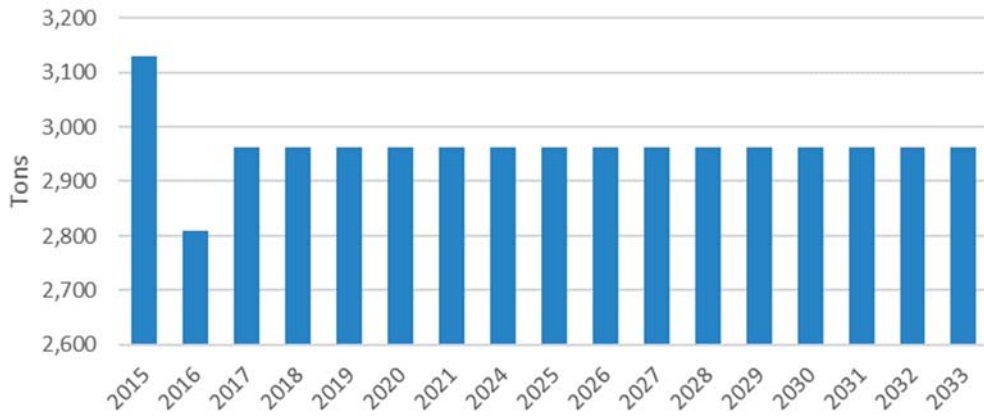
District Scrap Tire Collections: 2006-2015



- The George E. Brake Recycling Facility (VW-17) processes recyclables from all the District’s recycling programs. During the planning period, the District intends to expand commercial collection of recyclables, and as a result, the tonnage at the Recycling Facility is projected to increase at an annual rate of one percent per year from 2019 through year 2023.

The following figure presents the residential/commercial sector recycling from 2015 to the end of the planning period.

Residential/Commercial Waste Reduction: 2015-2033



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

This program will continue during the planning period. Based on experience with this program, the District has identified the following challenges:

- The District has not been focusing on increasing participation.
- Preventing blowing material and/or keeping material dry (particularly if the container is open-top);
- Only servicing only single-family homes.
- Contamination rates have not been identified from the curbside program by community.
- The District has not measured the participation for curbside recycling.
- Not being able to measure quantities recovered from each curbside service separately from the others.

The District acknowledges all listed challenge but has chosen to prioritize based on resources and financial availability. To address these challenges, the District will implement the following strategies:

Initiative VW-1.1: Curbside Recycling Analysis

The District will survey the number of residential curbside stops per route from once per quarter to measure participation rate. The results will allow the district to focus on areas and communities which may need more attention.

Implementation: 2019-2033

Initiative VW-1.2: Contamination Analysis

An annual to bi-annual survey of one-week of recycling to find contamination rate will be conducted. This rate will help the District focus on which materials need further education.

Implementation: 2019-2033

Initiative VW-1.3: Curbside Awareness Campaign

This campaign is to increase curbside recycling awareness. The communities which pay a parcel fee for curbside recycling may need a reminder notice of service. This reminder may include schedule, accepted materials, and proper way to put a container at the curb. This reminder may include working with municipalities which have the parcel fee to distribute a little to no cost message to the residents such as the use of websites, messages on bills, etc.

Implementation: 2019-2020

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

The District will continue the Drop-Off Recycling program. Based on experience with this program, the District has identified the following challenges:

- The collection equipment is aging and needs repaired or replaced.
- Only Washington Township is not serviced by the program.
- The drop-offs are available for short periods of time during work hours that may make it difficult for residents to use them.

- Not measuring tonnage collected through drop-offs make it difficult to evaluate tonnage collected over time.

The District acknowledges all listed challenge but has chosen to prioritize based on financial availability. To address these challenges, the District will implement the following strategies:

Initiative VW-2.1: Drop-Off Location Monitoring

The District will monitor a variety of elements regarding drop-off recycling sites. The District will monitor the following key operational areas:

- Location of drop-off
- Collection hours
- Material accepted
- Participant feedback on program
- Estimated tonnage collected
- Excessive abuse of drop-off sites from contamination or dumping
- Underutilization of drop-off bins
- Collection frequency that does not meet public needs (i.e. issues with over-flow)
- Underserved areas of the District

Based on this continual monitoring process, the District may adjust the drop-off program on an as-needed basis when improvements are identified, or changes are required including when the need to move, create or eliminate a site are recommended. Any changes to the drop-off program in the District will be made to ensure that the District has a 90% or greater recycling access credit in the District.

Implementation: 2019-2033

Initiative VW-2.2 – Applying for Grants

The District will apply for Ohio EPA grants or other grants to improve the equipment used in the drop-off program. Grants will be applied for when sufficient match monies are available throughout the planning period.

The District may also make investments based on the availability of excess fund balance availability at any time in the planning period.

Implementation: 2019-2033

3. VW-3 – Yard Waste Management
(State Plan Goals #2 and #5)

The District will continue this program. Challenges identified for yard waste management include the following:

- Making high quality compost and mulch products.
- High volume loads from commercial generators do not pay for off-loading.

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

Initiative VW-3.1: Compost Operator Training

The District may attend compost operator training throughout the planning period as needed to improve its knowledge on composting and compost facility operations.

Implementation: 2019-2033

Initiative VW-3.2: Compost Facility Policies

The District will review its operational and customer policies for the compost facility on an as needed basis. The review will be designed to determine the best policies and procedures for operations the compost facility that result in the best service and sustainable operations.

A study to evaluate the compost facility policies and tipping fees for commercial clients will be conducted within the first five years of the planning period.

Implementation: 2019-2024

Initiative VW-3.3: Compost Facility Operations

The District reserves the right to continue the operations and/or to work with a local private operator to manage the volume of materials current at the District's facility and future volumes. The District may also redirect the residents and business to the third party private sector facility in lieu of receiving material at the District's facility.

Implementation: 2019-2033

4. VW-4 – Household Hazardous Waste Management
(State Plan Goals #2 and #5)

This program will continue. No challenges were identified for this program.

5. VW-5 – Scrap Tire Collection
(State Plan Goals #1, #2, and #5)

The District will continue this program. An assessment of this program identified the following challenge:

- The District does not offer special amnesty day collection events.

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

Initiative VW-5.1 – Applying for Grants

The District will apply for Ohio EPA grants or other grants to conduct amnesty collections of used tires. Grants will be applied for when sufficient match monies are available throughout the planning period.

Implementation: 2019-2033

6. VW-6 – Electronics Collection
(State Plan Goals #1, #2, and #5)

This program will continue. No challenges were identified.

7. VW-7 – Appliance Collection
(State Plan Goals #1, #2, and #5)

This program will continue. No challenges were identified.

8. VW-8 – Commercial Collection
(State Plan Goals #2, and #4)

This program will continue. Based on the District's experience, the District has identified the following challenges:

- The District cannot service all of the requests from commercial entities for recycling services.

- The District's collection container system is not user-friendly to commercial businesses due to size for source-separated recyclables.

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

Initiative VW-8.1 – Commercial Recycling Collection Expansion

The District wants to expand its commercial recycling collection program to meet the needs of the businesses in the District. To accomplish this, the District needs to improve its collection container system. The District would like to invest in 20-gallon bins and 64 and/or 96-gallon wheeled carts to collect source-separated recyclables. The District feels the different-sized containers will improve the separation and quality of recyclable materials and the ease in serving the containers. This will also increase the volume of recyclables collected and processed from the commercial sector.

The District started the process of expanding the commercial sector program by first charging for the service that has been provided in the past for free. Starting in November of 2016, the District began charging each account \$65.00 per roll-off pick-up service. This included the cost of collection and processing Fees from roll-off services are included in the District's Contract Fees which also include designation fees (from landfills). The fee for the commercial sector starts in 2017 and covers curbside service.

There are eight (8) communities that are serviced by curbside: Van Wert, Venedocia, Middle Point, Elgin, Ohio City, Convoy, Wren, and Willshire. These communities have and already established parcel fee of \$33.40 is collected and covers curbside service whether the customer uses the curbside service or not. This fee was raised \$1.00 in 2017 from \$32.40 to \$33.40 and covers curbside service for residential and commercial sectors. The remaining communities in Van Wert county have a \$6.00 per year fee which assist the maintenance of the drop-off programs.

The District then applied for funding from Ohio EPA for the 2016-2017 funding round for additional commercial style collection containers to expand the program. (The results of this grant application were not available at the time this *Plan Update* was prepared.)

The District will actively seek to expand the program for commercial businesses that seek the District's assistance and/or who have been

neglected by the private sector. This process will continue throughout the planning period and has a goal to achieve a 50% increase (from 120 in 2015 to 180 in 2033 commercial participation) of commercial customers by the end of the planning period.

Implementation: 2019-2033

Initiative VW-8.2 – Applying for Grants

The District will apply for Ohio EPA grants or other grants to expand the commercial recycling program. Grants will be applied for when sufficient match monies are available throughout the planning period.

The District may also make investments based on the availability of excess fund balance availability at any time in the planning period.

Implementation: 2019-2033

9. VW-9 – Non-Profit Collection
(State Plan Goals #1, #2, and #4)

This program will continue. Based on the District's experience, the District has identified the following challenges:

- Past accounting practices of the services provided has caused the District not to fully understand if costs are being met for the charges passed in to each entity.

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

Initiative VW-9.1 – Customer Account Review

The District will evaluate the costs associated with each entity that receives services to ensure that the cost of collection and processing is covered by the charges passed on to each entity. If adjustments are required, the District will inform the affected entity of any charge adjustments required to cover costs. This process will be an ongoing effort throughout the planning period.

Implementation: 2019-2033

10. VW-10 - Other Residential/Commercial Collection Programs
(State Plan Goals #1 and #2)

This program will continue. No challenges were identified.

RESIDENTIAL/COMMERCIAL/INDUSTRIAL SECTOR EDUCATION AND AWARENESS PROGRAMS

1. **VW-11 – District-wide Education and Awareness Program** (State Plan Goals #3 and #4)

This program has been redesigned into a District-wide education and awareness program. The purpose on the re-design is to focus the program on the core mission of the District with its facilities and collection/processing services along with special collection events. To accomplish this goal, the District first combined the following reference year activities into the District-wide education program:

- Webpage and Internet Advertising
- Recycling Center Tours
- Environmental and Community Events
- Other Education and Awareness Activities
- Commercial/Industrial Sector Education, including Consulting Services and Recycling Process Training
- Commercial/Industrial Focus in Newsletters

The new District Education and Awareness Program will include the following improvements and/or initiatives:

Initiative VW-11.1 – Education Specialist

The District will task its Administrative Assistant to also take on the added responsibilities as a part-time Education Specialist may conduct the following activities:

- Classroom presentations for school age students
- Participation at the County fair with a booth and education display
- Adult and civic group presentations
- Web site administration and updating
- George E. Brake Recycling Center tours
- Newsletter development and distribution
- District program guide development and distribution
- News releases, advertisement and radio spots
- Commercial/industrial consulting on solid waste issues
- Other duties as assigned

The District Coordinator may assist the Education Specialist as needed.

Initiative VW-11.2 – Special Events

The District will participate, coordinate or conduct presentations at a variety of special events as adequate time and resources allow to further the District's message on solid waste and recycling including any or all of the following:

- County fair
- Earth day
- Not Just Cows and Plows Day
- Other events as identified

The District Coordinator may assist the Education Specialist as needed.

Initiative VW-11.3 – Recycling Center Tours

(State Plan Goal #4)

This existing initiative will continue but will be included in the responsibilities of the education specialist in Program VW-11.

Initiative VW-11.4 – Environmental and Community Events

(State Plan Goals #1, #2, and #4)

This existing initiative will continue but will be included in the responsibilities of the education specialist in Program VW-11.

Initiative VW-11.5 – Other Education and Awareness Activities

(State Plan Goals #3 and #4)

This existing initiative will continue but will be included in the responsibilities of the education specialist in Program VW-11.

COMMERCIAL/INDUSTRIAL SECTOR EDUCATION, AWARENESS, AND TECHNICAL ASSISTANCE

Initiative VW-11.6 – Consulting Services and Recycling Process Training

(State Plan Goals #3 and #4)

This existing initiative will continue but will be included in the responsibilities of the education specialist in Program VW-11.

Initiative VW-11.7 – Commercial/Industrial Focus in Newsletters

(State Plan Goals #3 and #4)

This existing initiative will relaunch this initiative but will be included in the responsibilities of the education specialist in Program VW-11. Newsletters for commercial/industrial sector will be distributed at a minimum on an annual basis up to a quarterly basis. The newsletter will be distributed electronically on the website. The District will attempt to collaborate with trade organizations for the commercial and industrial sectors to promote the newsletters to their members.

DISTRICT FACILITIES

1. VW-12 – George E. Brake Recycling Center

(State Plan Goals #2, #4 and #5)

The District will continue this facility into the planning period. Many of the challenges of operating this facility have been addressed in other areas of this *Plan Update*, specifically for the drop-off program, commercial recycling collection, compost facility operations and education and awareness. The following main initiative for the management and operation of the facility will be conducted throughout the planning period:

Initiative VW-12.1 – Facility Management and Procedures

The District will evaluate the policies, procedures and overall operations on a continual basis throughout the planning period for the following:

- Data management, collection and analysis for facility and District operations
- Operation procedures and policies
- Collection contracts and management
- Employee policies and management
- Maintenance procedures and management
- Service fees and invoicing
- Inter-governmental contracts
- Strategic planning and improvement planning
- Annual reporting of District and facility operations
- Other areas as identified

This initiative is intended to be a long term and ongoing responsibility of the District Coordinator to make continual improvements in the operation and management of the facility and the District. The District will make changes, improvements, deletions and/or additions to any of the above referenced areas, or other areas as identified, as needed and as determined to be in the best interest of the District.

OTHER PROGRAMS

1. Other Programs (State Plan Goals #2 and #4)

The initiatives and activities covered in the reference year for this program have been included in other programs in this Section.

Industrial Waste Reduction/Recycling Projections

The District's industrial waste reduction strategies and the projected estimated tonnages are presented in Table V-6. Actual tonnage was used for the 2015 reference year. The projection of industrial recycling is discussed in detail at the beginning of Section V. Programs and strategies which apply to the industrial sector are discussed previously as well.

**Table V-1
District Population Projections**

Year	County Population Van Wert County	Subtraction City of Delphos Van Wert Co. portion (Majority in Allen Co.)	Addition Village of Scott Paulding Co. portion (Majority in Van Wert Co.)	Total District Population
2015	28,562	3,131	116	25,547
2016	28,374	3,110	116	25,379
2017	28,185	3,090	116	25,212
2018	27,997	3,069	116	25,044
2019	27,808	3,048	116	24,876
2020	27,620	3,028	116	24,709
2021	27,458	3,010	116	24,564
2022	27,296	2,992	115	24,419
2023	27,134	2,974	115	24,274
2024	26,972	2,957	114	24,130
2025	26,810	2,939	114	23,985
2026	26,686	2,925	113	23,874
2027	26,562	2,912	113	23,763
2028	26,438	2,898	112	23,652
2029	26,314	2,885	112	23,541
2030	26,190	2,871	111	23,430
2031	26,118	2,863	111	23,366
2032	26,046	2,855	111	23,302
2033	25,974	2,847	111	23,238

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2015 Population Estimates by County, City, Village, and Township", May 2016.

Population projections in 10-year intervals 2000 - 2040 - Ohio Development Services Agency, Ohio County Profiles.

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

Year	District Population	Per Capita Generation Rate	Total Residential/Commercial Waste Generation (TPY)
2015	25,547	3.17	14,787
2016	25,379	3.08	14,252
2017	25,212	3.13	14,405
2018	25,044	3.15	14,405
2019	24,876	3.17	14,405
2020	24,709	3.19	14,405
2021	24,564	3.21	14,405
2022	24,419	3.23	14,405
2023	24,274	3.25	14,405
2024	24,130	3.27	14,405
2025	23,985	3.29	14,405
2026	23,874	3.31	14,405
2027	23,763	3.32	14,405
2028	23,652	3.34	14,405
2029	23,541	3.35	14,405
2030	23,430	3.37	14,405
2031	23,366	3.38	14,405
2032	23,302	3.39	14,405
2033	23,238	3.40	14,405

Source(s) of information:

District Population: Table V-1

Per Capita Generation Rate for 2015: Table IV-8

**Table V-3
Projected Industrial Waste Generation**

SIC Category	Year																			
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
20	1,053	667	671	676	681	686	690	695	695	695	695	695	695	695	695	695	695	695	695	695
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	101	64	64	65	65	66	66	67	67	67	67	67	67	67	67	67	67	67	67	67
24	47	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	711	450	453	457	460	463	466	470	470	470	470	470	470	470	470	470	470	470	470	470
27	127	80	81	82	82	83	83	84	84	84	84	84	84	84	84	84	84	84	84	84
28	191	121	122	123	123	124	125	126	126	126	126	126	126	126	126	126	126	126	126	126
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	710	450	453	456	459	462	466	469	469	469	469	469	469	469	469	469	469	469	469	469
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	42	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28
33	333	211	213	214	216	217	219	220	220	220	220	220	220	220	220	220	220	220	220	220
34	10,133	6,416	6,461	6,507	6,553	6,599	6,646	6,694	6,694	6,694	6,694	6,694	6,694	6,694	6,694	6,694	6,694	6,694	6,694	6,694
35	5,089	3,222	3,245	3,268	3,291	3,314	3,338	3,362	3,362	3,362	3,362	3,362	3,362	3,362	3,362	3,362	3,362	3,362	3,362	3,362
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	84	53	54	54	54	55	55	56	56	56	56	56	56	56	56	56	56	56	56	56
38	157	99	100	101	102	102	103	104	104	104	104	104	104	104	104	104	104	104	104	104
39	380	240	242	244	246	247	249	251	251	251	251	251	251	251	251	251	251	251	251	251
Totals	19,158	12,130	12,215	12,302	12,389	12,477	12,566	12,656	12,656	12,656	12,656	12,656	12,656	12,656	12,656	12,656	12,656	12,656	12,656	12,656

Source(s) of information:

Generation by SIC Code for 2015 from Table IV-2 adjusted to correspond to total industrial waste on Table IV-8.

2016 Generation Total: Based upon the average industrial recycling for years 2006, 2008-2013, and 2015; plus the average industrial disposal for years 2006-2015. 2017 through 2022 Generation Totals: Based upon assuming a one percent increase per year in recycling plus a constant amount for disposal.

Sample calculation (2017):

(2016 recycling tons x 1.01) + (2016 disposal tons) = 2017 generation
 (8,548 tons x 1.01) + (3,582 tons) = 14,984 tons

**Table V-4
Total Waste Generation for the District During the Planning Period
(in TPY)**

Year	Residential/ Commercial	Industrial	Exempt	Total Waste	Generation Rate (lbs/person/day)
2015	14,787	19,158	3,501	37,446	8.03
2016	14,252	12,130	4,319	30,700	6.63
2017	14,405	12,215	4,319	30,939	6.64
2018	14,405	12,302	4,319	31,025	6.70
2019	14,405	12,389	4,319	31,112	6.76
2020	14,405	12,477	4,319	31,201	6.83
2021	14,405	12,566	4,319	31,289	6.89
2022	14,405	12,656	4,319	31,379	6.96
2023	14,405	12,656	4,319	31,379	7.00
2024	14,405	12,656	4,319	31,379	7.04
2025	14,405	12,656	4,319	31,379	7.08
2026	14,405	12,656	4,319	31,379	7.13
2027	14,405	12,656	4,319	31,379	7.17
2028	14,405	12,656	4,319	31,379	7.20
2029	14,405	12,656	4,319	31,379	7.24
2030	14,405	12,656	4,319	31,379	7.27
2031	14,405	12,656	4,319	31,379	7.30
2032	14,405	12,656	4,319	31,379	7.34
2033	14,405	12,656	4,319	31,379	7.36

Source(s) of information:

Residential/Commercial Table V-2

Industrial Table V-3

Notes:

Exempt Waste in 2016 through 2033 is projected as the average reported from 2006-2015.

Sample calculation (2016):

Total Waste = Residential/Commercial + Industrial + Exempt

$$30,700 = 14,252 + 12,130 + 4,319$$

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

$$7.22 = \frac{33,445 \times 2,000}{25,379 \times 365}$$

**Table V-5
Residential/Commercial Waste Reduction Strategies**

Strategy	Program #	Type of Material Reduced/Recycled	Tons of Waste Reduction																				
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		
Residential/Commercial Recycling and Collection Programs																							
Curbside Recycling	VW-1	AC, SC, GL, PL, OCC, ONP, MxP	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	
Drop-Off Recycling	VW-2	AC, SC, GL, PL, OCC, ONP, MxP	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
Yard Waste Management	VW-3	YW	804	498	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	
Household Hazardous Waste (HHW) Collection	VW-4	EW, FB, LP, UO, LAB	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
Scrap Tire Collection	VW-5	ST	179	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	
Commercial Collection Program	VW-8	OCC, MxP, BKS, AC, SC, SM, PL, GL																					
Non-Profit Recycling Collection	VW-9	OCC, MxP, BKS, AC, SC, SM, PL, GL																					
Other R/C Collection Programs	VW-10	OCC, MxP, BKS, AC, SC, PL, GL																					
George E. Brake Recycling Center	VW-17	OCC, MxP, BKS, AC, SC, PL, GL, ST, App, LAB, Oth	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	
Grand Totals			3,128	2,810	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	

Included in Van Wert Recycling Center tonnage

AC = Aluminum Containers; GL = Glass Containers; PL = Plastic Containers; ONP = Old Newspaper; OCC = Corrugated Cardboard; SC = Steel Containers; PBd = Paperboard; MxP = Mixed Paper; ST = Scrap Tires; App = Appliances; Oth = Other, LAB = Lead-acid Batteries, RB = Rechargeable Batteries, YW = Yard Waste, EW = Electronic Waste, BKS = Books, SM = Scrap Metal, n/a = not applicable

Source(s) of information:
District records, annual district reports

Assumptions:
Yard Waste Management - tonnage is averaged from 2015 and 2016 and remains constant. Scrap Tire Collection - tonnage is averaged from 2010 and 2015 and remains constant. All other programs - tonnage will remain constant at 2015 estimates throughout the planning period.

Sample calculation (2016):
2017 Yard Waste Management tonnage = 2015 and 2016 Yard Waste Management tonnage average
651 tons = (804 tons + 498 tons) / 2

**Table V-6
Industrial Waste Reduction Strategies**

Strategy	Program #	Type of Material Reduced/Recycled	Tons of Source Reduction/Recycling																			
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Waste Reduction via Incineration	N/A		0																			
Volume Reduction																						
Industrial Sector Technical Assistance and Education Programs: Recycling																						
Industrial Sector Drop-Off	VW-17	AC, GL, PL, ONP, OCC, SC	129	129	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Industrial Recycling	N/A	FM, NFM, PL, GL, OCC, ONP, MXP, Oh	15,080	8,419	8,523	8,610	8,697	8,785	8,874	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964
Total			15,209	8,548	8,633	8,720	8,807	8,895	8,984	9,074	9,074	9,074	9,074	9,074	9,074	9,074	9,074	9,074	9,074	9,074	9,074	9,074

AL=Aluminum; FM=Ferrous Metals; NFM=Non-Ferrous Metals; P= Plastic; OCC=Corrugated Cardboard; OP=Office Paper; W=Wood

Source(s) of information for total tons:
 2015 tons. Table IV-6.
 2016 tons. Average recycled amount based upon years 2006, 2008, and 2010-2013.
 2017-2022 tons. Tonnage for 2016 increased by 1% per year.
 2023-2033 tons. Held constant at year 2022 tonnage.

Sample calculation (2017 total):
 Tons of industrial recycling in previous year x rate of change in industrial recycling = Tons of recycling in estimated year
 8,548 tons x 1.01 = 8,633 tons

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 exercise flow control provisions (to direct waste to appropriate 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, transfer, resource recovery, or recycling.

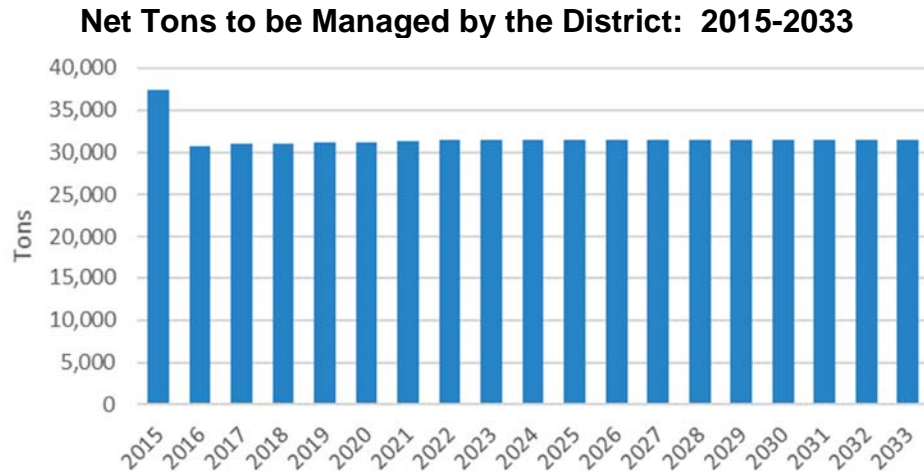
Additionally, this section of the *Plan Update* includes a detailed siting strategy for new proposed facilities.

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 37,446 net tons of solid waste in 2015. Approximately 31,100 net tons of solid waste will need to be managed in 2019 (the first year of the planning period) and 31,400 net tons will need to be managed by 2033 (the final year of the planning period).

The District will manage the projected waste through recycling, yard waste composting, the use of transfer stations, and landfilling. In Table VI-1, the total tons landfilled in 2015 (19,109 tons) was calculated by subtracting recycling and yard waste composting from the net tons to be managed by the District. (Incineration was not used by the District in the reference year and is not projected to be used during the planning period.) The District projects a need of 19,342 tons of landfill capacity in 2019 and approximately 19,342 tons required in 2033.

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



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

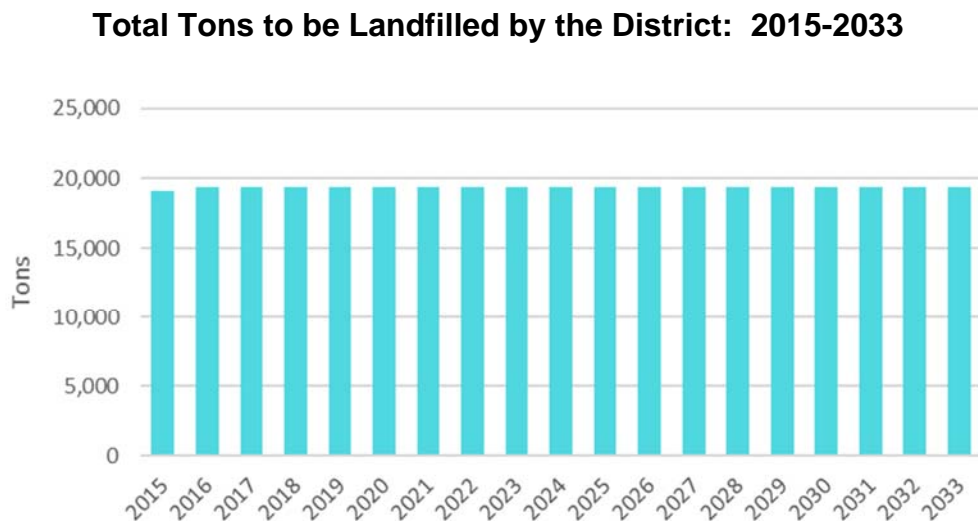


Table VI-2 presents a summary of waste management methods for residential/commercial solid waste generated by the District. In 2015, the residential/commercial sector generated a total of 14,787 tons. This sector is projected to generate 14,405 tons of solid waste at the beginning of the planning period and 14,405 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: 2015-2033

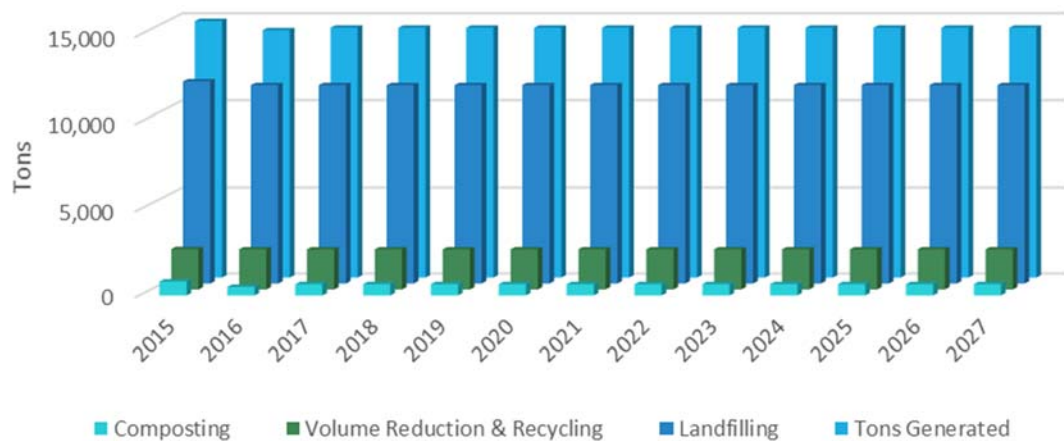


Table VI-3 presents a summary of waste management methods for industrial solid waste generated by the District. In 2015, the industrial sector generated a total of 19,158 tons. The industrial sector is projected to generate 12,389 tons of solid waste at the beginning of the planning period and 12,656 tons of solid waste by the end of the planning period.

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

Industrial Sector Waste Management Methods: 2015 – 2033

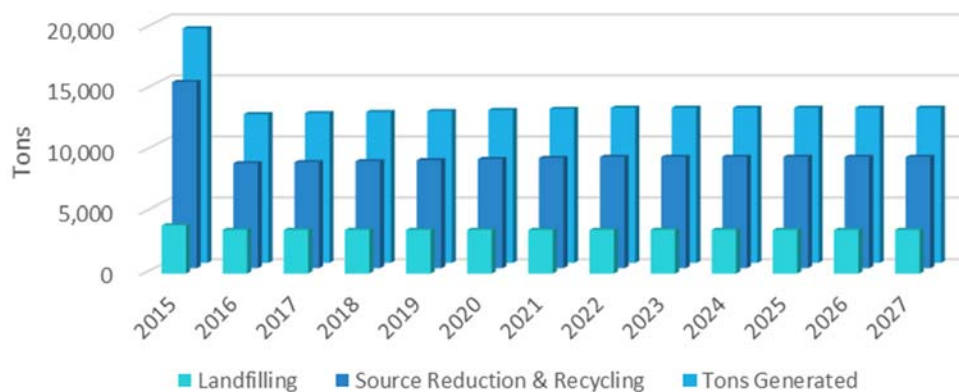


Table VI-4A, “Waste Management Method: Landfill,” presents the reference year landfill capacity utilization and anticipated landfill capacity needs throughout the planning period. The projections in Table VI-4A present the landfill capacity demands from 2015 to 2033. Total tons landfilled includes waste that was directly hauled to landfills, transferred waste, and ash produced through incineration.

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

There are no landfills located in Van Wert County. All except one landfill which received District waste during 2015 have sufficient remaining airspace to manage 100% of the District's landfilling needs throughout the planning period.

There were no incinerators which reported receiving District waste during the reference year, and the District does not anticipate the use of incinerators to manage its waste during the planning period. As a result, Table VI-4B has not been included in this *Plan Update*.

Table VI-4C, "Waste Management Method: Transfer," presents the total tons projected to be managed at transfer stations. Over the last ten years, the amount of District waste received at transfer stations has decreased considerably, while the total tons sent for disposal has decreased more gradually. (See the figure below.) In recent years, the transfer station receipts have become less variable, ranging from 9,501 tons in 2012 to 8,189 tons in 2014. The average transfer station receipts from 2006 through 2015 was 9,642 tons, and the District believes it is reasonable to use this tonnage for projecting the amount of waste being sent to transfer stations throughout the planning period.

**District Waste Sent to Transfer Stations vs. Total Disposed:
2006-2015**

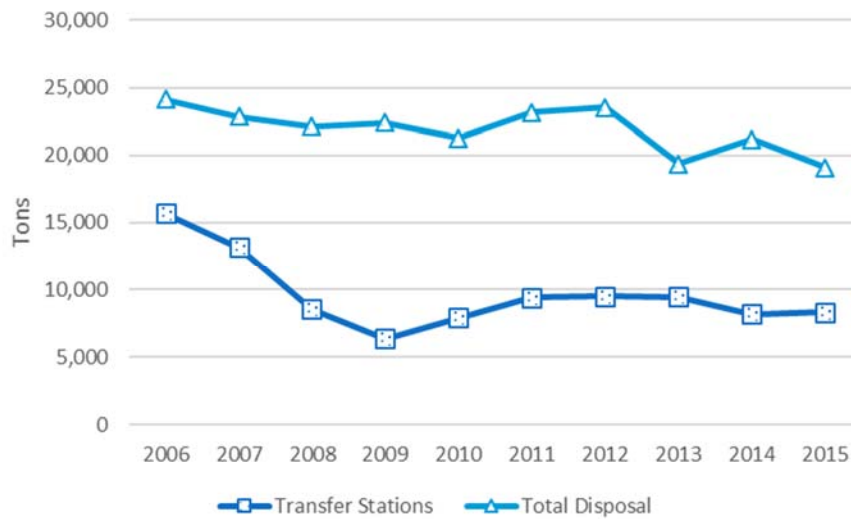


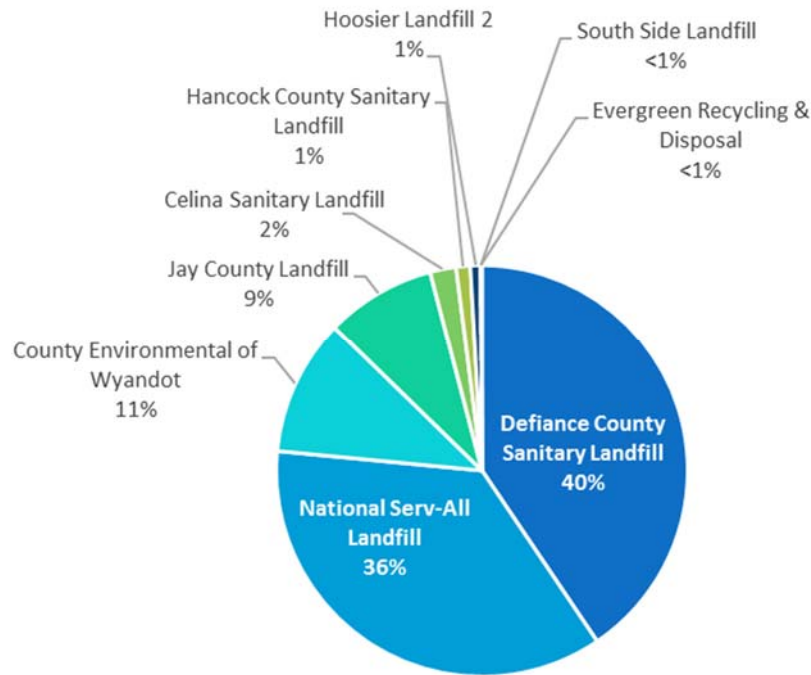
Table VI-4D, Waste Management Method: Recycling,” presents the total tons projected to be managed by recycling for both the residential/commercial and industrial sectors. The District is projected to recycle an average of 11,351 tons of material annually throughout the planning period.

Table VI-4E, “Waste Management Method: Composting,” presents the total tons projected to be managed by composting. Composting is projected to increase at 25 percent per year from 2016 through 2021, which results in a tonnage for 2021 approximating the average amount composted for years 2006 through 2012 and 2014. The District does not anticipate any major changes to facilities or programs operating during the reference year.

B. Demonstration of Access to Capacity

During 2015, five out-of-district landfills and four out-of-state landfills managed 19,109 tons of solid waste generated by District residents, businesses and industries. The following figure presents the landfills used by the District in 2014, and the percentage of District-generated waste landfilled at each facility.

2015 Landfills Used by District



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 through December 31, 2033.

The District projects an average annual need of approximately 19,100 tons or 28,700 cubic yards of landfill capacity annually throughout the planning period. Using these annual averages, the District will dispose approximately 348,200 tons of solid waste and require 522,000 cubic yards of landfill airspace from 2016 through 2033. (These calculations are based upon using a 3:1 conversion factor for cubic yards to tons, and applying an average 2:1 compaction ratio for in-place landfilled solid waste.) As stated above, the landfills used by the District in 2015 had more than enough remaining capacity to dispose of the projected waste from Van Wert County throughout the planning period.

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 recycling, source reduction and awareness, the recycling, reuse and composting program, grants, industrial source reduction/recycling and awareness and other programs are presented in Table VI-5. These programs are discussed in detail in Sections IV and V.

The District anticipates a new class IV facility in 2018 to be developed in the District. The District is working with the new facility operator to manage all or a portion of the District's class IV facility volumes. The District reserves the right to maintain its class IV facility registration regardless if the facility is used or not into the planning period. The District does not foresee a yard waste processing facility issue during the planning period.

D. Identification and Designation of Facilities

Table VI-6 includes the Facilities Identified and Current Designations. The District has designated nine landfills and two transfer stations to which solid waste must be taken for disposal or transfer. Appendix G contains a sample designation agreement.

In the approved Plan, under which the District is currently operating, the District is authorized to establish or modify facility designations in accordance with Sections 343.013, 343.014, and 343.015 of the Ohio Revised Code.

E. Authorization Statement to Designate

The Board of County Commissioners (Board) of the District is hereby authorized to establish facility designations in accordance with Sections 343.013, 343.014, and 343.015 of the Ohio Revised Code. The District's current facility designations are listed in Table VI-6 and are discussed in the section above. Any solid waste transfer, or disposal facilities that are not designated will require designation or a waiver to accept solid waste generated within the District.

F. Waiver Process for the Use of Undesignated Facilities

The District Board reserves the right, under special circumstances, to grant waivers allowing solid waste to flow to non-designated facilities during the planning period. The Board will review any waiver request and determine

if granting the waiver, pursuant to 343.01 (I)(2) of the Ohio Revised Code, is consistent with the projections made in the Plan or adversely affects the District's implementation or financing of the Plan.

G. Siting Strategy for Facilities

The District does not, as a part of this Plan, intend to site any District owned or operated facilities for the transfer or disposal of municipal solid waste. However, the District has developed a process which must be followed in the event that that another party or entity wishes to site a solid waste transfer, disposal, recycling or resource recovery facility within the District.

1. Purpose and Objective

The District's Siting Strategy for Solid Waste Facilities shall ensure that proposals to construct a new Solid Waste Facility within the District or modify an existing Solid Waste Facility within the District are in compliance with the Plan. For the purpose of this Section, a modification of an existing Solid Waste Facility shall mean a significant change in the type or manner of operation at the facility (i.e., a conversion of a legitimate recycling facility to a transfer station). The Board shall not approve the General Plans and Specifications for any proposed Solid Waste Facility or the modification of any existing Solid Waste Facility where the construction and operation of the proposed facility, as determined by the Board, will have significant adverse impacts upon the Board's ability to implement the Plan, will interfere with the Board's obligation to provide for the maximum feasible utilization of existing Solid Waste Facilities within the District, will adversely affect the quality of life of residents within 5,280 feet of the proposed facility, or will have significant adverse impacts upon the local community and its resources.

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 comply with the rules of the District and shall be subject to the following Siting Strategy unless granted an exemption or waiver from this requirement by the Board.

For the purposes of this Section, the following definitions shall apply:

- a. Solid Waste Facilities shall mean all solid waste collection, storage, disposal, transfer, recycling, processing, and resource recovery facilities.
- b. Siting Strategy shall mean the process by which the Board will review proposals for construction of any Solid Waste Facility and determine whether such proposal complies with the Plan.
- c. General Plans and Specifications shall mean that information required to be submitted to the Board for review for the construction

of any proposed Solid Waste Facility and includes, but is not limited to, a site plan for the proposed facility, architectural drawings or artists' renderings of the proposed facility, the projected size and capacity of the proposed facility.

- d. Applicant shall mean a person, municipal corporation, township or other political subdivision proposing to construct a Solid Waste Facility within the District.
- e. Modify shall mean a significant change in the type or manner of operation at an existing Solid Waste Facility.

2. District Rule

The District has adopted Rule requiring that General Plans and Specifications for all proposals to construct any new Solid Waste Facility or modify any existing facility within the District be submitted to the Board for a determination by the Board of whether such General Plans and Specifications and the proposals comply with the Plan.

“No person, municipal corporation, township or other political subdivision, shall construct or modify any solid waste transfer, disposal, recycling or resource recovery facility until the general plans and specifications for the proposed improvement have been submitted to and approved by the Board as complying with the Plan or an exemption or waiver from this rule has been granted by the Board.”

3. Siting Strategy

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

STEP 1: Submittal of Plans and Specifications

Any person, municipal corporation, township or other political subdivision proposing to construct a new Solid Waste Facility or modify an existing Solid Waste Facility within the District 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. the 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. 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 and anticipated percentage of waste reduction must be submitted;
 - vii. types and anticipated number of vehicles utilizing the proposed Solid Waste facility;
 - viii. routes to be used by vehicles utilizing facility and methods of ingress and egress; 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 operation of the proposed Solid Waste Facility:
- i. is consistent with the goals, objectives, projections and strategies contained in the Plan;
 - ii. will not adversely affect financing for the implementation of the Plan;
 - iii. will not adversely affect the Board's obligation to provide for the maximum feasible utilization of existing facilities;
 - iv. will be installed, operated and maintained to be harmonious and appropriate in appearance with the existing or intended character of the area;
 - v. will be adequately served by essential public facilities and services;
 - vi. will not create excessive additional requirements at public cost for public facilities or services;
 - vii. will not be detrimental to the economic welfare of the community;
 - viii. will not involve the excessive production of traffic, noise, smoke, fumes or odors;
 - ix. will have vehicular approaches to the property that are designed not to create an interference with traffic;
 - x. will not result in the destruction, loss or damage of a natural, scenic, or historic feature of major importance; and
 - xi. will not adversely affect property values within the surrounding community.
- c. The Applicant shall submit any additional information as Board

requests to establish to the reasonable satisfaction of Board, that the construction or modification and operation of the proposed Solid Waste Facility will comply with the above standards.

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 operated in compliance with the standards established above. 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 this Siting Strategy and in its determination of whether a proposed Solid Waste Facility complies with the Plan.

Within 30 days of receiving the General Plans and Specifications from an Applicant, the Board shall make a determination as to whether the General Plans and Specifications submitted by the applicant contain sufficient information for the Board to complete its review of the proposal. In the event the Board determines that more information is necessary to complete its review of the proposal, the Board shall notify the Applicant of such request in writing within 14 days.

Within 60 days of determining that the applicant has submitted a complete set of General Plans and Specifications, the Board shall determine whether the proposal complies with the Plan and the criteria identified in Step 1 herein. The Board shall notify the Applicant of its decision in writing. While the Board has broad discretion regarding the approval of General Plans and Specifications for a proposed Solid Waste Facility, it is the intent of the Siting Strategy that the Board shall not approve General Plans and Specifications for a proposed Solid Waste Facility unless the Board determines that the proposed Solid Waste Facility complies with the Plan and the criteria identified in Step 1 herein.

STEP 3: Development Agreement

In the event the Board determines that the proposed construction or modification and operation of a Solid Waste Facility complies with the Plan, the person, municipal corporation, township or other political subdivision proposing to construct the Solid Waste Facility shall enter into a development agreement with the Board which memorializes the obligations that are the basis of the Board's conclusion that the General Plans and Specifications demonstrate that the proposed facility complies with the Plan. The party proposing to construct a Solid Waste

Facility shall have an ongoing obligation to comply with the Plan and the General Plans and Specifications as submitted and approved by the Board.

4. Waiver

The Board may waive application of the rule requiring the submission and Board approval of general plans and specifications, and all or any portion of the Siting Strategy or otherwise grant exceptions to the rules of the District, or unilaterally modify or amend the Siting Strategy if the Board concludes such waiver, modification or amendment is in the best interest of the District and will assist the Board in the successful implementation of the Plan and further District goals with respect to solid waste and waste reduction activities.

H. Contingencies for Capacity Assurance and District Program Implementation

The District Director will make a recommendation to the Board on the course of action to take within 120 days of confirmation of an interruption of landfill capacity or composting and recycling services. Additionally, the District will develop an alternative source of revenue if there is an interruption in landfill capacity, transfer station operations, or operations at any designated facility. The Board will direct the District Coordinator to develop alternatives for revenue generation to ensure program implementation as part of the management plan for the disposal of District solid waste.

**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 by SWMD	Management Method Used and Processing Capacity Required in TPY					
				Waste Reduction	Transfer	Yard Waste Composting	Gross Incineration	Waste Reduced by Incineration	Landfilling
2015	37,446	0	37,446	17,533	8,295	804	0	0	19,109
2016	30,700	0	30,700	10,860	9,642	498	0	0	19,342
2017	30,939	0	30,939	10,946	9,642	651	0	0	19,342
2018	31,025	0	31,025	11,032	9,642	651	0	0	19,342
2019	31,112	0	31,112	11,119	9,642	651	0	0	19,342
2020	31,201	0	31,201	11,208	9,642	651	0	0	19,342
2021	31,289	0	31,289	11,296	9,642	651	0	0	19,342
2022	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2023	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2024	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2025	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2026	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2027	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2028	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2029	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2030	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2031	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2032	31,379	0	31,379	11,386	9,642	651	0	0	19,342
2033	31,379	0	31,379	11,386	9,642	651	0	0	19,342

Source(s) of information:

- Tons of SW Generated - Table V-4
- Tons Waste Reduction and Yard Waste Composting - Tables V-5 and V-6
- Tons Transferred (2015) - Table III-3
- Tons of Gross Incineration (2015) - Table III-2
- Tons of Ash Landfilled (2015) - Table III-2

Sample calculation:

2015 Net tons to be managed by SWMD = Tons of SW generated - tons source reduced
 37,446 tons = 37,446 tons - 0 tons

2015 Waste reduction capacity required =
 2015 Residential/commercial waste reduction + industrial waste reduction -YW composting - Waste Reduced by Incineration
 17,533 tons = 3,128 tons + 15,209 tons - 804 tons - 0 tons

2015 Landfilling = Net Tons to be Managed by SWMD - (Recycling + Yard Waste Composting) - Waste Reduced by Incineration
 19,109 tons = 37,446 tons - (17,533 tons + 804 tons) - 0 tons

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

Year	Tons Generated	Management Method in TPY			
		Volume Reduction & Recycling	Gross Incineration	Composting	Landfilling
2015	14,787	2,324	0	804	11,659
2016	14,252	2,312	0	498	11,441
2017	14,405	2,312	0	651	11,441
2018	14,405	2,312	0	651	11,441
2019	14,405	2,312	0	651	11,441
2020	14,405	2,312	0	651	11,441
2021	14,405	2,312	0	651	11,441
2022	14,405	2,312	0	651	11,441
2023	14,405	2,312	0	651	11,441
2024	14,405	2,312	0	651	11,441
2025	14,405	2,312	0	651	11,441
2026	14,405	2,312	0	651	11,441
2027	14,405	2,312	0	651	11,441
2028	14,405	2,312	0	651	11,441
2029	14,405	2,312	0	651	11,441
2030	14,405	2,312	0	651	11,441
2031	14,405	2,312	0	651	11,441
2032	14,405	2,312	0	651	11,441
2033	14,405	2,312	0	651	11,441

Note: Source Reduction & Recycling includes waste reduction by incineration.

Source(s) of information:

Tons Generated - Table V-2

Source Reduction and Recycling (includes tons reduced via incineration) - Table V-5

Incineration from Table VI-1

Composting - Table V-5

Sample calculation (2016):

Landfilling = Tons Generated - Volume Reduction & Recycling - Composting

11,441 tons = 14,252 tons - 2,312 tons - 498 tons

**Table VI-3
Summary for Industrial Waste Management Methods**

Year	Tons Generated	Management Method in TPY	
		Source Reduction & Recycling	Landfilling
2015	19,158	15,209	3,949
2016	12,130	8,548	3,582
2017	12,215	8,633	3,582
2018	12,302	8,720	3,582
2019	12,389	8,807	3,582
2020	12,477	8,895	3,582
2021	12,566	8,984	3,582
2022	12,656	9,074	3,582
2023	12,656	9,074	3,582
2024	12,656	9,074	3,582
2025	12,656	9,074	3,582
2026	12,656	9,074	3,582
2027	12,656	9,074	3,582
2028	12,656	9,074	3,582
2029	12,656	9,074	3,582
2030	12,656	9,074	3,582
2031	12,656	9,074	3,582
2032	12,656	9,074	3,582
2033	12,656	9,074	3,582

Source(s) of information:

Tons Generated - Table V-4

Tons Source Reduction & Recycling - Table V-6

Sample calculations (2016):

Landfilling = Tons Generated - Source Reduction & Recycling

3,582 tons = 12,130 tons - 8,548 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									
			Years	Data Source	Gross (YD ³)	Net (tons)	2015	2016	2017	2018	2019	2020	2021			
Hancock County Sanitary Landfill	Hancock	455	30.1	OEPA	5,466,466	3,851,734	211	214	214	214	214	214	214	214	214	
Celina Sanitary Landfill	Mercer	170	6.6	OEPA	526,850	305,573	391	396	396	396	396	396	396	396	396	
Evergreen Recycling & Disposal	Wood	730	35.5	OEPA	8,823,000	5,774,654	17	18	18	18	18	18	18	18	18	
County Environmental of Wyandot	Wyandot	746	156.5	OEPA	21,196,347	28,886,163 ¹	2,056	2,081	2,081	2,081	2,081	2,081	2,081	2,081	2,081	
Defiance County Sanitary Landfill	Defiance	428	55.2	OEPA	11,524,770	7,646,685	7,747	7,842	7,842	7,842	7,842	7,842	7,842	7,842	7,842	
Jay County Landfill	Jay (IN)	705	41.61	IDEM	16,972,241	11,314,827	1,656	1,676	1,676	1,676	1,676	1,676	1,676	1,676	1,676	
National Serv-All Landfill	Allen (IN)	2,047	26.76	IDEM	32,582,057	21,721,371	6,873	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	
South Side Landfill	Marion (IN)	3,387	20.09	IDEM	29,840,468	19,893,645	0	0	0	0	0	0	0	0	0	
Hoosier Landfill 2	Kosciusko (IN)	705	24	IDEM	5,559,059	3,706,040	157	159	159	159	159	159	159	159	159	
Totals							132,491,258	74,214,529	19,109	19,342	19,342	19,342	19,342	19,342	19,342	19,342

**Table VI-4A
Waste Management Method: Landfill (continued)**

Facilities Used by District	Tons of District SW Managed											
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Hancock County Sanitary Landfill	214	214	214	214	214	214	214	214	214	214	214	214
Celina Sanitary Landfill	396	396	396	396	396	396	396	396	396	396	396	396
Evergreen Recycling & Disposal	18	18	18	18	18	18	18	18	18	18	18	18
County Environmental of Wyandot	2,081	2,081	2,081	2,081	2,081	2,081	2,081	2,081	2,081	2,081	2,081	2,081
Defiance County Sanitary Landfill	7,842	7,842	7,842	7,842	7,842	7,842	7,842	7,842	7,842	7,842	7,842	7,842
Jay County Landfill	1,676	1,676	1,676	1,676	1,676	1,676	1,676	1,676	1,676	1,676	1,676	1,676
National Serv-All Landfill	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957	6,957
South Side Landfill	0	0	0	0	0	0	0	0	0	0	0	0
Hoosier Landfill 2	159	159	159	159	159	159	159	159	159	159	159	159
Totals	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342	19,342

¹ The source of this information is Ohio EPA's 2015 Facility Data Report. However, the net tons or gross cubic yards is likely incorrect since the net tons is listed as larger than the gross volume.

Source(s) of information:

2015 tons - Tables III-1, III-2,
2016 - 2033 tons - Table VI-1
Projected value for each landfill is calculated as a ratio based on the 2015 distribution.
Years of remaining capacity as of 12/31/2015 based on the 2015 rate of receipts

Sample calculation:

$$\text{Hancock Co. Landfill (2016)} = \frac{\text{Hancock Co. Landfill (2015)}}{\text{Total (2015)}} \times \text{Total (2016)}$$

$$214 \text{ tons} = \frac{211 \text{ tons}}{19,109 \text{ tons}} \times 19,342 \text{ tons}$$

Table VI-4C
Waste Management Method: Transfer

Facilities Used by District Name and Location (County & State)	Tons of District SW Managed							
	2015	2016	2017	2018	2019	2020	2021	2022
Young's Waste Service	6,540	7,602	7,602	7,602	7,602	7,602	7,602	7,602
Maharg Inc. Solid Waste Transfer Facility	263	305	305	305	305	305	305	305
Waste Management of Ohio - Lima	1,336	1,552	1,552	1,552	1,552	1,552	1,552	1,552
Advance Disposal Services Transfer Station	157	183	183	183	183	183	183	183
Total	8,295	9,642	9,642	9,642	9,642	9,642	9,642	9,642

Table VI-4C
Waste Management Method: Transfer (continued)

Facilities Used by District Name and Location (County & State)	Tons of District SW Managed										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Young's Waste Service	7,602	7,602	7,602	7,602	7,602	7,602	7,602	7,602	7,602	7,602	7,602
Maharg Inc. Solid Waste Transfer Facility	305	305	305	305	305	305	305	305	305	305	305
Waste Management of Ohio - Lima	1,552	1,552	1,552	1,552	1,552	1,552	1,552	1,552	1,552	1,552	1,552
Advance Disposal Services Transfer Station	183	183	183	183	183	183	183	183	183	183	183
Total	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642

Source(s) of information:

2015 Tons - Table III-3

2016 - 2033 Tons - Table VI-1

Projected value for each transfer station is calculated as a ratio based on the 2015 distribution.

Sample calculation:

$$\text{Young's Waste Service (2016)} = \frac{\text{Young's Waste Service (2015)}}{\text{Total (2015)}} \times \text{Total (2016)}$$

$$7,602 \text{ tons} = \frac{6,540 \text{ tons}}{8,295 \text{ tons}} \times 9,642 \text{ tons}$$

Waste Management Method: Recycling

Facilities Used by District Name	County	Tons of District SW Managed								
		2015	2016	2017	2018	2019	2020	2021	2022	2023
Material Recovery Facilities										
George E. Brake Recycling Center	Van Wert	1,317	1,317	1,317	1,317	1,317	1,317	1,317	1,317	1,317
Dayton Glass Plant	Van Wert	191	191	191	191	191	191	191	191	191
Brokers, Processors, Buy Back Centers										
Royal Oaks Recycling	Van Wert	30	30	30	30	30	30	30	30	30
Allen County Pallet	Van Wert	30	30	30	30	30	30	30	30	30
Absorbtech	Van Wert	15	15	15	15	15	15	15	15	15
Gateway Recycling	Van Wert	339	339	339	339	339	339	339	339	339
Heritage Environmental	Van Wert	2	2	2	2	2	2	2	2	2
K-Com Environmental	Van Wert	76	76	76	76	76	76	76	76	76
Lima Pallet	Van Wert	104	104	104	104	104	104	104	104	104
Safety Kleen	Van Wert	17	17	17	17	17	17	17	17	17
Scrap Yards										
Metals Recycling	Van Wert	19	19	19	19	19	19	19	19	19
OmniSource	Van Wert	3,136	3,136	3,136	3,136	3,136	3,136	3,136	3,136	3,136
Young's Trash Service	Van Wert	192	192	192	192	192	192	192	192	192
Electronics, Fluorescent Bulb, Latex Paint, Used Oil, Scrap Tire, and Lead Acid Battery Collection at the Van Wert Recycling Center	Van Wert	45	45	45	45	45	45	45	45	45
Ohio EPA 2015 Scrap Tire Recycling Report (includes Liberty Tire, Quality Tire, and R&R Tire Disposal)	Van Wert	179	167	167	167	167	167	167	167	167
Ohio EPA 2015 Commercial Store Recycling Report (includes WalMart, Dollar General, and Big Lots)	Van Wert	519	519	519	519	519	519	519	519	519
Other Recycling Reported on Surveys	Van Wert	11,324	4,663	4,749	4,835	4,922	5,010	5,099	5,189	5,189
Total		17,533	10,860	10,946	11,032	11,119	11,208	11,296	11,386	11,386

Waste Management Method: Recycling (continued)

Facilities Used by District Name	Tons of District SW Managed									
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Material Recovery Facilities										
George E. Brake Recycling Center	1,317	1,317	1,317	1,317	1,317	1,317	1,317	1,317	1,317	1,317
Dayton Glass Plant	191	191	191	191	191	191	191	191	191	191
Brokers, Processors, Buy Back Centers										
Royal Oaks Recycling	30	30	30	30	30	30	30	30	30	30
Allen County Pallet	30	30	30	30	30	30	30	30	30	30
Absorbtech	15	15	15	15	15	15	15	15	15	15
Gateway Recycling	339	339	339	339	339	339	339	339	339	339
Heritage Environmental	2	2	2	2	2	2	2	2	2	2
K-Com Environmental	76	76	76	76	76	76	76	76	76	76
Lima Pallet	104	104	104	104	104	104	104	104	104	104
Safety Kleen	17	17	17	17	17	17	17	17	17	17
Scrap Yards										
Metals Recycling Technology	19	19	19	19	19	19	19	19	19	19
OmniSource	3,136	3,136	3,136	3,136	3,136	3,136	3,136	3,136	3,136	3,136
Young's Trash Service	192	192	192	192	192	192	192	192	192	192
Electronics, Fluorescent Bulb, Latex Paint, Used Oil, Scrap Tire, and Lead Acid Battery Collection at the Van Wert Recycling Center	45	45	45	45	45	45	45	45	45	45
Ohio EPA 2015 Scrap Tire Recycling Report (includes Liberty Tire, Quality Tire, and R&R Tire Disposal)	167	167	167	167	167	167	167	167	167	167
Ohio EPA 2015 Commercial Store Recycling Report (includes WalMart, Dollar General, and Big Lots)	519	519	519	519	519	519	519	519	519	519
Other Recycling Reported on Surveys	5,189	5,189	5,189	5,189	5,189	5,189	5,189	5,189	5,189	5,189
Total	11,386	11,386	11,386	11,386	11,386	11,386	11,386	11,386	11,386	11,386

Source(s) of information and assumptions:

The total recycled is from Table VI-1.

The projected values for the Van Wert Recycling Center and Ohio EPA Scrap Tire Recycling Report are based on Table V-5.

"Other Recycling Reported on Surveys" represents the difference between the total and the sum of all other categories.

All other categories are assumed to be constant throughout the planning period.

Sample calculation:

Other Recycling Reported on Surveys (2016) = Total (2016) - sum of all other categories (2016)

4,663 tons = 10,860 tons - 6,197 tons

**Table VI-4E
Waste Management Method: Yard Waste Composting**

Facilities Used by District	County	Tons of District SW Managed																			
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
Van Wert County Compost	Van Wert	804	498	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651
Total		804	498	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651	651

Source(s) of information:

2015 tons: Table III-6

2016 - 2033 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	VW-1	Convoy, Elgin, Middle Point, Ohio City, Van Wert, Venedocia, Willshire, Wren	Non-subscription curbside recycling; service provided by the District	ongoing	
	VW-1.1		Curbside Recycling Analysis. The District will survey the number of residential curbside stops per route from once per quarter to measure participation rate.	2019	2033
	VW-1.2		Contamination Analysis. An annual to bi-annual survey of one-week of recycling to find contamination rate will be conducted.	2019	2033
	VW-1.3		Curbside Awareness Campaign. This campaign is to increase curbside recycling awareness in the communities which pay a parcel fee in 2017 for curbside.	2019	2020
Drop-off Recycling	VW-2	District-wide	Drop-off recycling; service provided by the District	ongoing	
	VW-2.1	District-wide	Drop-off Location Monitoring. The District will monitor a variety of factors regarding drop-off recycling sites to determine when changes are needed.	2019	2033
	VW-2.2	District-wide	Applying for Grants. The District will apply for Ohio EPA grants or other grants to improve the equipment used in the drop-off program.	2019	2033
Yard Waste Management	VW-3	District-wide	Operation of Class IV Composting Facility	ongoing	
	VW-3.1	District-wide	Compost Operator Training. District may attend compost operator training throughout the planning period as needed to improve its knowledge on composting and compost facility operations.	2019	2033
	VW-3.2	District-wide	Compost Facility Policies. District will review to determine the best policies and procedures.	2019	2033
Household Hazardous Waste Management	VW-4	District-wide	Hazardous household waste and other special materials collected at the Recycling Center.	ongoing	
Scrap Tire Collection	VW-5	District-wide	Scrap tires accepted at the Recycling Facility.	ongoing	
	VW-5.1	District-wide	Applying for Grants. The District will apply for Ohio EPA grants or other grants to conduct amnesty collections of tires.	2019	2033
Electronics Collection	VW-6	District-wide	District accepts electronics at the Recycling Center.	ongoing	
Appliance Collection	VW-7	District-wide	District accepts appliances at the Recycling Center.	ongoing	
Commercial Collection	VW-8	District-wide	District offers a diverse commercial/industrial recycling collection program.	ongoing	
	VW-8.1	District-wide	District intends to expand its commercial recycling collection program by improving its collection container system.	2019	2033
	VW-8.2	District-wide	Applying for Grants. The District will apply for Ohio EPA grants or other grants to expand commercial recycling program.	2019	2033

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

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Non-Profit Collection	VW-9	District-wide	District collects recyclables from a number of non-profit organizations on a scheduled or call-as-needed basis.	ongoing	
	VW-9.1	District-wide	District will evaluate the costs of program to ensure that the charges assessed to each entity are adequate to cover the costs.	2019	2033
Other R/C Collection Programs	VW-10	District-wide	District operates school recycling collection program at 4 schools; used books are collected at the Recycling Center; and the District participates in community clean-up days by providing staff and trucks.	ongoing	
District-wide Education and Awareness Program	VW-11	District-wide	Existing program has been re-designed to focus on the facilities and collection/processing services along with special collection events.	ongoing	
	VW-11.1	District-wide	Education Specialist. Administrative Assistant will be assigned additional duties which may include presentations and website administration and updating.	2019	2033
	VW-11.2	District-wide	Special Events. District may participate, coordinate or conduct presentations at a variety of special events.	2019	2033
	VW-11.3	District-wide	Recycling Center Tours. Will continue but will be included in the responsibilities of the education specialist in Program VW-11.	ongoing	
	VW-11.4	District-wide	Environmental and Community Events. Will continue but will be included in the responsibilities of the education specialist in Program VW-11.	ongoing	
	VW-11.5	District-wide	Other Education and Awareness Activities. Will continue but will be included in the responsibilities of the education specialist in Program VW-11.	ongoing	
	VW-11.6	District-wide	Consulting Services and Recycling Process Training. Will continue but will be included in the responsibilities of the education specialist in Program VW-11.	ongoing	
	VW-11.7	District-wide	Commercial/Industrial Focus in Newsletters. Will continue but will be included in the responsibilities of the education specialist in Program VW-11.	ongoing	
George E. Brake Recycling Center	VW-12	District-wide	District operation of facility will continue.	ongoing	
	VW-12.1	District-wide	Facility Management and Procedures. District will evaluate the policies, procedures and overall operations on a continual basis.	2019	2033

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

Facilities Identified	
None.	
Designated Facilities - ORC 343.14	
Facility	Location
Celina Sanitary Landfill	Celina, OH
Defiance County Landfill	Defiance, OH
Maharg Inc., Solid Waste Transfer Facility	Celina, OH
National Serv-All Transfer Station	Van Wert, OH
Waste Management Inc., Lima Transfer Station	Lima, OH
Waste Management Inc., Suburban Landfill	Glenford, OH
Waste Management Inc., Stoney Hollow LF	Dayton, Ohio
Young's Transfer Station	Van Wert, OH
County Environmental of Wyandot	Carey, OH
Hancock Sanitary Landfill	Findlay, OH
National Serv-All Landfill	Fort Wayne, IN
Waste Management Inc., Evergreen Landfill	Northwood, OH
Waste Management Inc., Jay County Landfill	Portland, IN

Note: Designations are pursuant to notification sent from the Van Wert County Commissioners dated March 19, 2014 to solid waste haulers operating within the District, and applies to the period May 19, 2014 through May 19, 2019.

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.

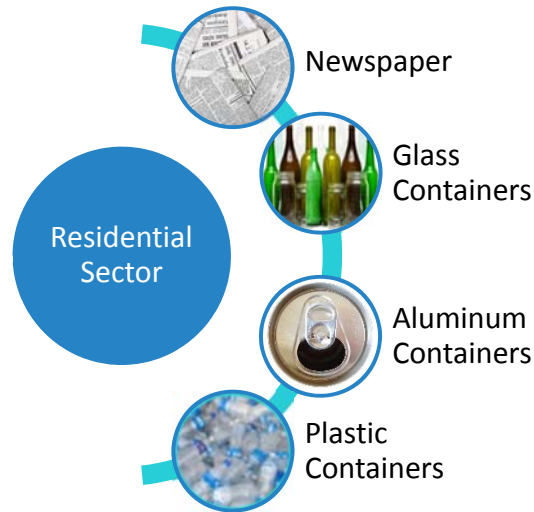
A. Compliance with Goal #1

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, glass 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 wooden pallets/packaging.

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.

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 political jurisdictions within Van Wert County, with the exception of the Village of Delphos,

which is in another SMWD’s jurisdiction. The population of the Village of Scott which resides in Paulding County was added to the District’s service area because the majority of its population is in Van Wert County.

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. Tables VII-2 presents the access credit calculations for the District during the 2015 reference year and 2019, the first year of the planning period. The following section will discuss the residents with access to curbside recycling and the drop-off recycling program.

Curbside Recycling Access Results

There were eight non-subscription curbside recycling programs operating in 2015. These programs are expected to still be in operation during 2019. The following table presents a summary of the population with access to curbside recycling.

Curbside Recycling Population Access

Service Area	2015 Curbside Recycling Access	2019 Curbside Recycling Access
Van Wert SWMD	13,877	13,604
	54%	54%

Drop-Off Recycling Access Results

In 2014, there were eleven part-time drop-offs located throughout the District. 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, newspaper, and steel cans. The following table presents a summary of the population with access to recycling drop-offs.

Drop-Off Recycling Access

Service Area	2015 Drop-Off Recycling Access	2019 Drop-Off Recycling Access
Van Wert SWMD	27,500	27,500
	108%	110%

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.

Service Area	Reference Year Access (2015)	First Year of Planning Period Access (2019)
Van Wert SWMD	41,377	41,104
	162%	164%

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. The District will continue to exceed the goal of providing 90% of the population with access to recycling programs in 2019.

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 meet or exceed State Plan requirements and include the following:

- A website
- News releases, advertisements, and radio spots
- Educational presentations upon request
- Recycling Center tours

- Participating in environmental events throughout District

d. Financial Incentives

The District intends to apply for grants to improve the drop-off recycling program. Financial assistance in the forms of grants may also be used to expand access and participation in the drop-off program. (See recycling strategy VW-2 in Section V.)

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 Van Wert County, with the exception of the Village of Delphos, which is in another SMWD's jurisdiction. The population of the Village of Scott which resides in Paulding County was added to the District's service area because the majority of its population is in Van Wert 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 wooden pallets and packaging.

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 two to three of the required materials that are designated as highly amenable to recycling for the commercial/industrial sector (cardboard, office paper, and steel cans).

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	Hauling Services Available	Drop-Off Service Available
Van Wert SWMD	Gateway Recycling, Mid-American Paper Recycling, Van Wert SWMD	District drop-offs, Royal Oaks Recycling

Office Paper Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Van Wert SWMD	Gateway Recycling, Mid-American Paper Recycling, Ox Paperboard, Van Wert SWMD	District drop-offs, Royal Oaks Recycling

Steel Containers Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Van Wert SWMD	Gateway Recycling, Kohorts, Century Trading, Van Wert SWMD	District drop-offs, Metals Recycling Technology, OmniSource, PSC Metals, Cousins Auto Wrecking

Wooden Packaging and Pallet Access Demonstration

Service Area	Hauling Services Available	Drop-Off Service Available
Van Wert SWMD	N/A	Van Wert Pallets, LLC

Information on hauling services and drop-offs available to the commercial and industrial sectors was obtained through surveying.

c. Participation

Education and Awareness

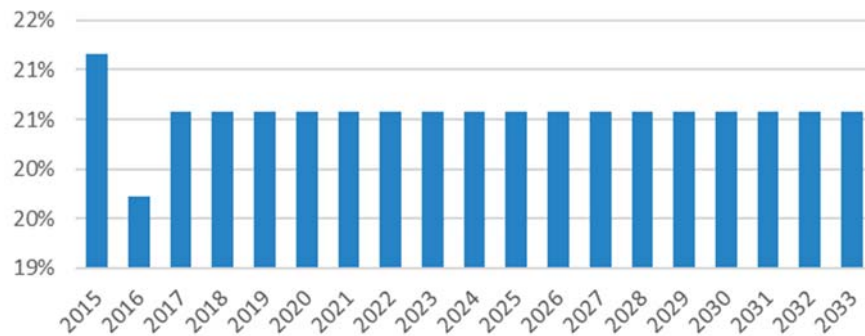
The education and awareness programs articulated in Sections IV and V of this *Plan Update* address this requirement. The District’s website and Recycler’s Guide assists commercial and industrial establishments with identifying opportunities for maximizing waste diversion and developing customized strategies for implementing or expanding recycling activities. The District’s news releases, newsletters, and consulting services also provide educational opportunities for commercial and industrial businesses as well as sources for identifying haulers and processors for recyclables.

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 21% in the reference year (2015). Waste reduction is projected to increase slightly through the end of year 2022, and then remain constant for the balance of the planning period, ending in 2033 with a projected waste reduction rate of 36%. The following figure presents the District’s residential/commercial waste reduction projections throughout the planning period.

District Residential/Commercial Waste Reduction: 2015-2033



Recycling is projected to remain mostly flat throughout the planning period. However, composting is expected to increase substantially during the next few years as the amount of material composted climbs to the ten-year historical average experienced by the District.

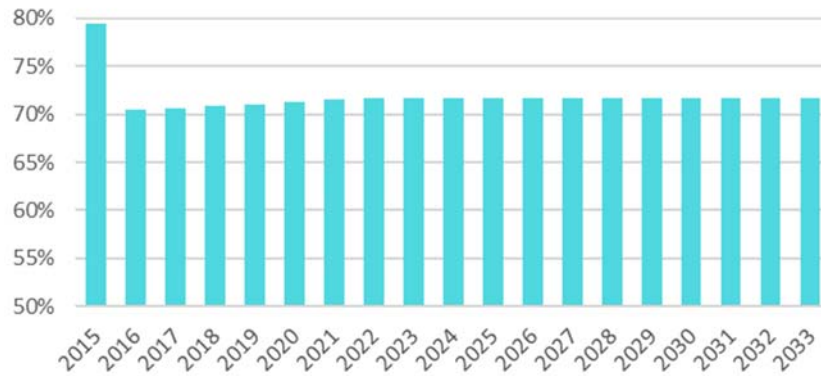
In 2015, the overall per capita waste reduction rate was 0.67 pounds per day. The per capita waste reduction rate is projected to increase to 0.70 pounds per day by 2033. By comparison, the statewide average in Ohio for per capita waste reduction in the residential/commercial sector was 1.74 pounds per person per day in 2015.

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 79% in the reference year (2015). The waste reduction rate is projected to remain at 60 to 72% throughout the planning period. The District believes that actual industrial sector recycling may be higher based upon survey results for year 2015, but historically, the tonnage recycled using survey data has been quite variable, and projections reflect a conservative approach in terms of future industrial recycling. (See Sections 4 and 5 in this *Plan Update*.)

The following figure presents the District’s industrial waste reduction projections throughout the planning period. In 2015, the per capita waste reduction rate was 3.26 pounds per day. The per capita waste reduction rate is projected to be 2.14 pounds per day in 2033.

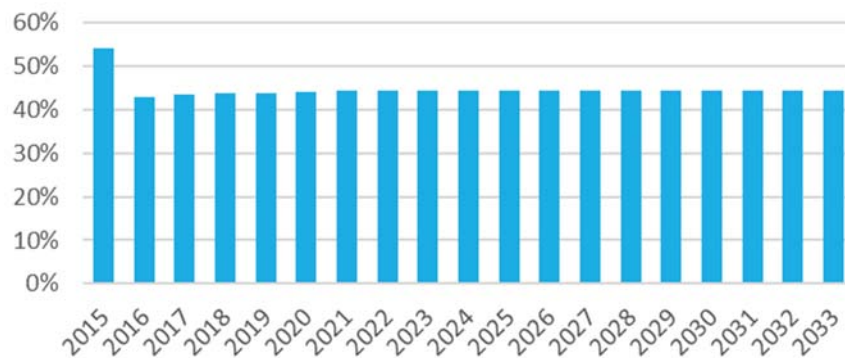
District Industrial Waste Reduction: 2015-2033



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 (2015) was 54% and is expected to be 52% at 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: 2015-2033



Daily per capita waste reduction rates are expected to decrease initially from 3.93 pounds in 2015 to 2.45 pounds in 2016, and then increase gradually to 2.84 pounds/person/day by the end of the planning period.

**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	Number of Times Materials are Designated
Corrugated cardboard		X	1
Office paper		X	1
Newspaper	X		1
Glass containers	X		
Steel containers		X	1
Aluminum containers	X		1
Plastic containers	X		1
Wood packaging & pallets		X	1
Lead-acid batteries			
Major appliances			
Yard wastes			
Totals	4	4	8

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

Program	Reference Year (2015)		Year 2019	
	2015 Population	Population with Access	2019 Population	Population with Access
Non-Subscription Curbside				
Village of Convoy	1,068	1,068	1,047	1,047
Village of Elgin	56	56	55	55
Village of Middle Point	565	565	554	554
Village of Ohio City	689	689	675	675
City of Van Wert	10,798	10,798	10,585	10,585
Village of Venedocia	122	122	120	120
Village of Willshire	387	387	379	379
Village of Wren	192	192	188	188
Subtotal Non-Subscription Curbside		13,877		13,604
Subscription Curbside				
None.		0		0
Subtotal Subscription Curbside		0		0
Full-Time Drop-Off				
None.				
Total Full Time Drop-Off		0		0
Part-Time Drop-Off				
[3252] Tully Township	2,043	2,500	2,003	2,500
[3255] York Township	712	2,500	698	2,500
[3254] Willshire	1,565	2,500	1,534	2,500
[3253] Union Township	931	2,500	913	2,500
[3250] Liberty Township	1,538	2,500	1,508	2,500
[3247] Hoaglin Township	662	2,500	649	2,500
[3251] Ridge Township	3,208	2,500	3,145	2,500
[3246] Harrison	1,042	2,500	1,021	2,500
[3248] Jackson	459	2,500	450	2,500
[3249] Jennings	652	2,500	639	2,500
Van Wert County Recycling Center Drive-Thru Drop-Off (Pleasant Township)	10,665	2,500	10,455	2,500
Total Full Time Drop-Off		27,500		27,500
Total Population With Access		41,377		41,104
District Population		25,547		25,044
90% of District Population		22,992		22,540
Additional Population Needing Access		-18,385		-18,564
Access Percentage		162%		164%

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

Year	Recycling	Composting	Gross Incineration	Waste Reduction via Incineration	Landfill	Total Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2015	2,324	804	0	0	11,659	3,128	25,547	21%	0.67
2016	2,312	498	0	0	11,441	2,810	25,379	20%	0.61
2017	2,312	651	0	0	11,441	2,963	25,212	21%	0.64
2018	2,312	651	0	0	11,441	2,963	25,044	21%	0.65
2019	2,312	651	0	0	11,441	2,963	24,876	21%	0.65
2020	2,312	651	0	0	11,441	2,963	24,709	21%	0.66
2021	2,312	651	0	0	11,441	2,963	24,564	21%	0.66
2022	2,312	651	0	0	11,441	2,963	24,419	21%	0.66
2023	2,312	651	0	0	11,441	2,963	24,274	21%	0.67
2024	2,312	651	0	0	11,441	2,963	24,130	21%	0.67
2025	2,312	651	0	0	11,441	2,963	23,985	21%	0.68
2026	2,312	651	0	0	11,441	2,963	23,874	21%	0.68
2027	2,312	651	0	0	11,441	2,963	23,763	21%	0.68
2028	2,312	651	0	0	11,441	2,963	23,652	21%	0.69
2029	2,312	651	0	0	11,441	2,963	23,541	21%	0.69
2030	2,312	651	0	0	11,441	2,963	23,430	21%	0.69
2031	2,312	651	0	0	11,441	2,963	23,366	21%	0.69
2032	2,312	651	0	0	11,441	2,963	23,302	21%	0.70
2033	2,312	651	0	0	11,441	2,963	23,238	21%	0.70

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 (2016):

Recycling + composting + waste reduction via incineration = Total waste reduction

$$2,312 \text{ tons} + 498 \text{ tons} + 0 \text{ tons} = 2,810 \text{ tons}$$

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

$$2,810 \text{ tons} / (2,810 \text{ tons} + 11,441 \text{ tons}) \times 100 = 20\%$$

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

$$(2,810 \text{ tons} \times 2,000 \text{ pounds}) / (25,379 \times 365) = 0.61 \text{ lbs/day}$$

**Table VII-4
Annual Rate of Waste Reduction: Industrial Waste**

Year	Recycling	Landfill	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2015	15,209	3,949	25,547	79%	3.26
2016	8,548	3,582	25,379	70%	1.85
2017	8,633	3,582	25,212	71%	1.88
2018	8,720	3,582	25,044	71%	1.91
2019	8,807	3,582	24,876	71%	1.94
2020	8,895	3,582	24,709	71%	1.97
2021	8,984	3,582	24,564	71%	2.00
2022	9,074	3,582	24,419	72%	2.04
2023	9,074	3,582	24,274	72%	2.05
2024	9,074	3,582	24,130	72%	2.06
2025	9,074	3,582	23,985	72%	2.07
2026	9,074	3,582	23,874	72%	2.08
2027	9,074	3,582	23,763	72%	2.09
2028	9,074	3,582	23,652	72%	2.10
2029	9,074	3,582	23,541	72%	2.11
2030	9,074	3,582	23,430	72%	2.12
2031	9,074	3,582	23,366	72%	2.13
2032	9,074	3,582	23,302	72%	2.13
2033	9,074	3,582	23,238	72%	2.14

Source(s) of information:

Recycling and landfill data - Table VI-3

Population - Table V-1

Sample calculation (2016):

Recycling ÷ (recycling + landfill) x 100 = Waste reduction rate

8,548 tons ÷ (8,548 tons + 3,582 tons) x 100 = 70%

Recycling x 2,000 pounds ÷ (district population x 365 days) = Per capita waste

(8,548 tons x 2,000 pounds) ÷ (25,379 x 365) = 1.85 lbs/day

**Table VII-5
Annual Rate of Waste Reduction: Total District Solid Waste**

Year	Recycling	Composting	Gross Incineration	Waste Reduction via Incineration	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate	Per Capita Waste Reduction Rate (lb/day)
2015	17,533	804	0	0	15,608	18,337	25,547	54%	3.93
2016	10,860	498	0	0	15,023	11,358	25,379	43%	2.45
2017	10,946	651	0	0	15,023	11,597	25,212	44%	2.52
2018	11,032	651	0	0	15,023	11,683	25,044	44%	2.56
2019	11,119	651	0	0	15,023	11,770	24,876	44%	2.59
2020	11,208	651	0	0	15,023	11,859	24,709	44%	2.63
2021	11,296	651	0	0	15,023	11,947	24,564	44%	2.67
2022	11,386	651	0	0	15,023	12,037	24,419	44%	2.70
2023	11,386	651	0	0	15,023	12,037	24,274	44%	2.72
2024	11,386	651	0	0	15,023	12,037	24,130	44%	2.73
2025	11,386	651	0	0	15,023	12,037	23,985	44%	2.75
2026	11,386	651	0	0	15,023	12,037	23,874	44%	2.76
2027	11,386	651	0	0	15,023	12,037	23,763	44%	2.78
2028	11,386	651	0	0	15,023	12,037	23,652	44%	2.79
2029	11,386	651	0	0	15,023	12,037	23,541	44%	2.80
2030	11,386	651	0	0	15,023	12,037	23,430	44%	2.82
2031	11,386	651	0	0	15,023	12,037	23,366	44%	2.82
2032	11,386	651	0	0	15,023	12,037	23,302	44%	2.83
2033	11,386	651	0	0	15,023	12,037	23,238	44%	2.84

Source(s) of information:

Recycling, composting, incineration, waste reduction via incineration, landfill, and population - Tables VII-3 and VII-4

Sample calculation (2016):

Recycling + composting + waste reduction via incineration = Tons waste reduction
 10,860 tons + 498 tons + 0 tons = 11,358 tons

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate
 11,358 tons / (11,358 tons + 15,023 tons) x 100 = 43%

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate
 (11,358 tons x 2,000 pounds) / (25,379 x 365) = 2.45 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 2015 are based on actual revenues received and costs expended. The planning period includes cost projections based on these initial years.

Quarterly fee reports for 2015 were not complete and cannot be compared to the data presented in this *Plan Update*. The information and data presented in this Section represent the most accurate and up to date information available at the time of this *Plan Update*.

A projection on the estimated funds needed to operate is provided for each District program. The budget is a demonstration that the District can implement the initiatives, strategies, programs and facilities detailed in Sections IV and V of this *Plan Update*. The budget is to be reviewed as a planning tool with anticipation that circumstances on actual revenues and costs may change and adjustments will be made by the District as appropriate. The tables referenced throughout Section VIII of this *Plan Update* are included at the end of the section.

A. Funding Mechanisms

1. District Disposal Fees

Table VIII-1, "District Disposal Fee Schedule and Revenues Generated," is not applicable to the District because the District does not utilize disposal fees as a funding mechanism at this time.

2. Generation Fee

Table VIII-2, "Generation Fee Schedule and Revenues," is not applicable to the District because the District does not utilize generation fees as a funding mechanism at this time.

3. Summary of District Revenues

Table VIII-3, "Summary of Revenue Generated and Mechanisms Used", presents the District's actual revenues received by all funding mechanisms in 2015, as well as revenues projected for each funding mechanism each year until the end of the planning period. Each funding mechanism used by the District throughout the planning period and the methodology used to project each amount is described below.

a. Contract/Designation Fees

The District first began using contract or designation fees as a funding source in 1999 by designating seven facilities as the only facilities authorized to accept solid waste generated in the District. The five-year contract with the designated facilities included the collection of a \$5.30 per ton fee for waste received from the District. The original contract has been renewed twice, with the fee remaining at \$5.30 per ton.

Table VIII-3 shows the total revenue collected in 2015 from the contract/designation fee. This table also estimates the projected revenues through the planning period based upon the amount of District waste expected to be sent for disposal. (A copy of a designation contract or agreement is located in Appendix G.)

b. Rates and Charges Revenue

The District utilizes a two-tier rate and charge, as authorized under Ohio Revised Code (ORC) 343.08. The rate and charge is a reasonable rate to be paid by owners of improved parcels that receive service from the District. The current rate and charge is five dollars (\$5.00) annually for households located in rural areas with monthly township drop-off access and thirty-three dollars and forty cents (\$33.40) for households receiving weekly curbside recycling service. An additional one dollar (\$1.00) is assessed to each parcel and retained by the Board of County Commissioners (Board) as a reimbursement for Board administrative expenses associated with the collection and dispersant of District funds. The total assessment per parcel is \$6.00 for rural areas and \$34.40 for households receiving weekly curbside service.

Both rate and charges are included in the properties annual tax statement. In 2015, rate and charge revenue equaled \$229,221. In 2016, rate and charges totaled \$230,362. As of 2017, the District is on track to generate \$239,101 in rate and charges by the end of the year. The District does not have access to the total quantity of parcels that are assessed the \$5 rate and charge versus the \$36.40 rate and charge; therefore, to calculate a flat revenue projection for 2018 to 2024, the average fee per parcel from 2015-2017 (\$22.71) was multiplied by the average number of parcels from 2015-2017 (10,260). The District anticipates increasing the average rate and charge by \$1 in 2020, 2025, and 2030. The District will evaluate whether these increases are necessary to implement the solid waste plan before rate and charges are increased. No increases in the rate and charge are being approved in this *Plan Update*. The District

reserves the right to modify rate and charges during the planning period as needed. Any changes in the rate and charge would be conducted under a separate process as defined in ORC 343.08.

c. Service Contracts

The District provides recycling drop-off collection and processing for Putnam and Allen counties. A contractual fee is paid to the District for the service. The intergovernmental contract service fees associated with the Allen and Putnam County drop-off collection and processing services should remain fairly constant throughout the planning period. The District also provides recycling roll-off service to in-district businesses which are charged a service fee. A periodic adjustment may be made to allow for inflationary pressure. Actual service contract revenue is presented for 2015 and 2016. The average service contract revenue for 2015 and 2016 was used to project a flat annual total for 2017 to 2019. The District anticipates that contract revenue will increase 5% in 2020, 2025, and 2030 to account for inflation. These services provide cost effective solutions to neighboring Solid Waste District's waste reduction challenges as well as a revenue source for Plan implementation for the District.

d. Recycling Revenue

The District receives revenue from the sales of recyclables processed at the District's material recovery facility (MRF). Recycling markets are volatile, making revenue forecasting challenging. In 2011, the District's recycling revenue was nearly \$340,000. Recycling revenue in recent years has been significantly less due to market conditions. Recycling revenue was \$177,873 in 2015 and \$175,227 in 2016. The District anticipates that recycling revenue will increase, but for planning purposes, chooses to conservatively estimate a flat annual revenue of \$176,550, which is based on the 2015-2016 average.

e. Grants

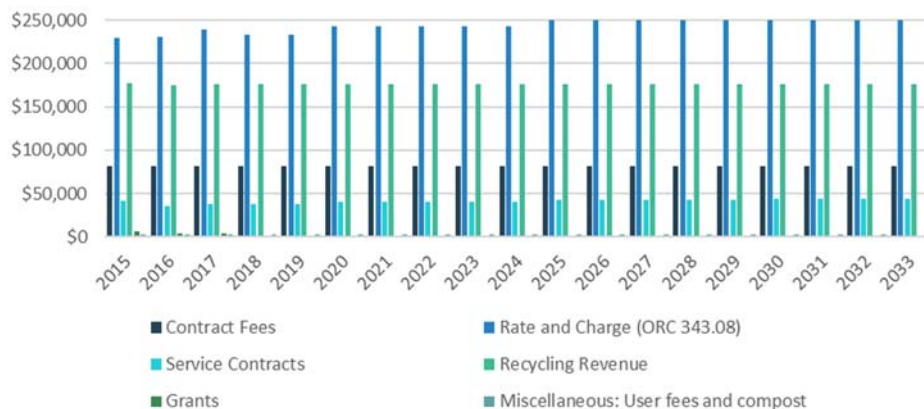
The District received an Ohio EPA Community Grant for Recycling and Litter Prevention in 2015 and 2016. Grants are competitive and not guaranteed; therefore, the District is not projecting grant revenue for the remainder of the planning period, but will continue to apply for grants on an as needed basis.

f. Miscellaneous: User Fees and Compost

Miscellaneous revenue is comprised of two main categories: user fees for recycling televisions and monitors containing cathode-ray tubes (CRTs) and compost facility service fees (i.e., per scoop loading charges and commercial tree trimmers dumping fee). Miscellaneous revenue totaled \$3,365 in 2015 and \$2,614 in 2016. A flat annual total of \$2,990 was projected for 2017 to 2033 based on the average 2015-2016 revenue. The District may work with a third-party class IV facility during the planning period. The user fees may not be in place depending on the contract created with the third-party facility.

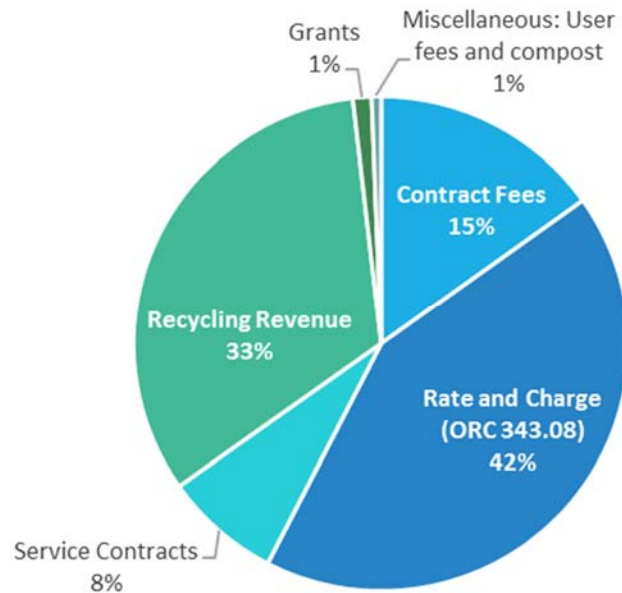
In the 2015 reference year, total revenue was \$539,772. Total revenues are anticipated to increase from \$532,746 in the first year of the planning period (2019) to \$569,568 in 2033. The following figure presents the District’s revenue by type of funding mechanism:

District Revenue by Type of Fee



The following figure presents the percentage of revenue generated by each funding mechanism used in 2015.

Percentage of Revenue Generated in 2015 by Each Funding Mechanism



In the reference year, the rate and charge represented the greatest source of the District’s revenue (42%), followed by recycling revenue, which comprised 33% of the overall revenue. Contract fees represented 15% of the revenue, service contracts represented 8%. Grants and miscellaneous revenue each represented 1% of the District’s total revenue during year 2015.

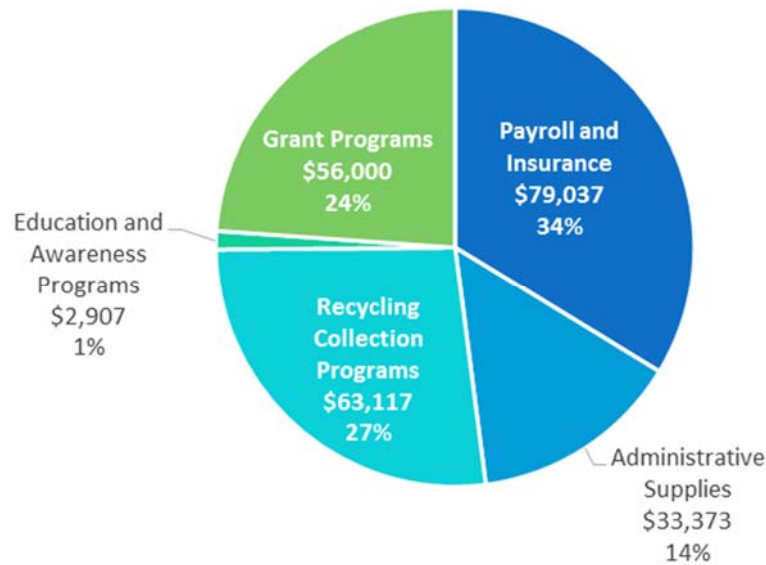
B. Cost of Plan Implementation

Table VIII-4, “Anticipated Loans Secured by the District”, provides information about the District’s existing and loans. The District does not currently have debt and does not anticipate securing a loan during the planning period.

Table VIII-5, “Estimated Cost for Plan Implementation”, presents a breakdown of expenditures for each year of the planning period.

The District Director will allocate these funds with the approval of the County Commissioners. The following figure presents a summary of expenses in 2015:

2015 District Expenses



The expenditures presented in the Plan budget include actual expenditures and encumbrances for 2015 and 2016. Expenses in 2017 are based on the District’s approved budget.

Payroll Expenditures

Payroll expenditures include staff salaries, PERS, Medicare, medical insurance, worker’s compensation, unemployment insurance, and professional services (i.e., consulting, legal).

The following projected 2019 funding levels for each payroll line item include a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2019 Budget	Annual Escalator
Full-Time Staff Salaries	Admin-1	\$44,079	0.5%
Staff salaries are projected to increase 0.5% annually based on historic District averages. Education responsibilities primarily are under the full-time staff duties. This includes a one full-time District Coordinator.			
Part-Time Staff Salaries	Admin-2	\$17,708	0.5%
Staff salaries are projected to increase 0.5% annually based on historic District averages. This includes a one part-time drop-off driver.			
PERS	Admin-3	\$40,147	Special

Program	Program #	2019 Budget	Annual Escalator
Based on the ratio of PERS to salaries in 2017. PERS for a given year after 2017 is calculated by applying the 2017 ratio to the amount of salaries planned for a given year.			
Medicare	Admin-4	\$4,039	Special
Based on the ratio of Medicare to salaries in 2017. Medicare for a given year after 2017 is calculated by applying the 2017 ratio to the amount of salaries planned for a given year.			
Medical Insurance	Admin-5	\$61,570	1.3%
Projected to increase 1.3% annually based on the Consumer Price Index's cumulative rate of inflation from 2015 to 2016.			
Workers' Compensation	Admin-6	\$4,080	0.5%
Workers compensation expenditures increase at the same rate as staff wages (0.5%).			
Unemployment Insurance	Admin-7	\$1,000	Flat
A flat amount of \$1,000 will be allotted on an annual basis.			
Professional Services	Admin-8	\$0	Special
Funding is allocated in years that correspond to the District's Plan Update preparation cycle. Unencumbered funds allocated for professional services may be used for other technical or legal assistance.			

Recycling Programs

Recycling Programs expenditures include curbside collection, yard waste management, and collection programs for HHW, scrap tires, and electronics.

The following table includes the funding levels projected for each residential/commercial collection program in 2019, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2019 Budget	Annual Escalator
Curbside Recycling	VW-1	\$138,510	Special
The program total is listed per line item. Staff salaries are projected to increase 0.5% annually based on historic District averages. This includes two full-time curbside drivers. No funds are allocated for new equipment because funding in the past, equipment was partially grant funded and grants are excluded from revenue projections. A flat annual budget was allocated for truck maintenance based on the average truck maintenance costs from 2015-2016.			
Yard Waste Management	VW-3	\$7,820	1.3%
Projected to increase 1.3% annually based on the Consumer Price Index's cumulative rate of inflation from 2015 to 2016. This expense may include the operation for the District's class IV facility and/or the third-party facility. Depending on the contract with the third-party off-site facility this line item expense be reallocated to other operations of the district.			
Household Hazardous Waste (HHW) Collection	VW-4	\$517	1.3%
Budget covers the cost of paint processing. Projected to increase 1.3% annually based on the Consumer Price Index's cumulative rate of inflation from 2015 to 2016.			
Scrap Tire Collection	VW-5	\$513	1.3%
Projected to increase 1.3% annually based on the Consumer Price Index's cumulative rate of inflation from 2015 to 2016.			
Electronics Recycling	VW-6	\$4,684	Special
Projected to increase 1.3% annually based on the Consumer Price Index's cumulative rate of inflation from 2015 to 2016			

District Facilities

Program	Program #	2019 Budget	Annual Escalator
George E. Brake Recycling Center	VW-12	\$209,092	Special
The program total is listed per line item. Staff salaries are projected to increase 0.5% annually based on historic District averages. Staff includes: one full-time administrative assistant, seven part-time processors, one full-time floor/back up driver, and one part-time floor person. A flat annual budget was allocated for maintenance, and miscellaneous costs based on the average costs for each line item from 2015-2016.			

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)):

<p>1</p> <ul style="list-style-type: none"> •Preparation and monitoring of the solid waste management plan 	<p>2</p> <ul style="list-style-type: none"> • Implementation of the approved solid waste management plan
<p>3</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health within the district, for solid waste enforcement 	<p>4</p> <ul style="list-style-type: none"> •Providing financial assistance to defray the costs of maintaining roads and other services resulting from the location and operation of a solid waste facility
<p>5</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities 	<p>6</p> <ul style="list-style-type: none"> •Developing and implementing a program for inspecting out-of-state solid waste
<p>7</p> <ul style="list-style-type: none"> •Providing financial assistance to boards of health or to local law enforcement agencies having jurisdiction within the district for anti-littering enforcement 	<p>8</p> <ul style="list-style-type: none"> •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
<p>9</p> <ul style="list-style-type: none"> •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 	<p>10</p> <ul style="list-style-type: none"> •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:

- Preparation and monitoring of plan implementation.
- Implementation of approved plan.

During the 2015 reference year, 100% of the budget was allocated to implementation of the approved plan.

D. Contingent Funding

The District, Policy Committee, and Board do not consider funding to be an issue of concern during this planning period. The District will strive to maintain an unencumbered target balance equal to a minimum of approximately 20% of annual expenditures to maintain planned programs through economic downturns and provide base capital for major investments such as collection and processing equipment. The District will rely on the expertise of the Policy Committee and Board to make sound investments that affect the planned budget of the District.

The District will seek supplemental funding through local financial institutions and the Board if need arises. The District will make necessary adjustment to current fee structures and operating expense to compensate for unforeseen expenditures or inflation.

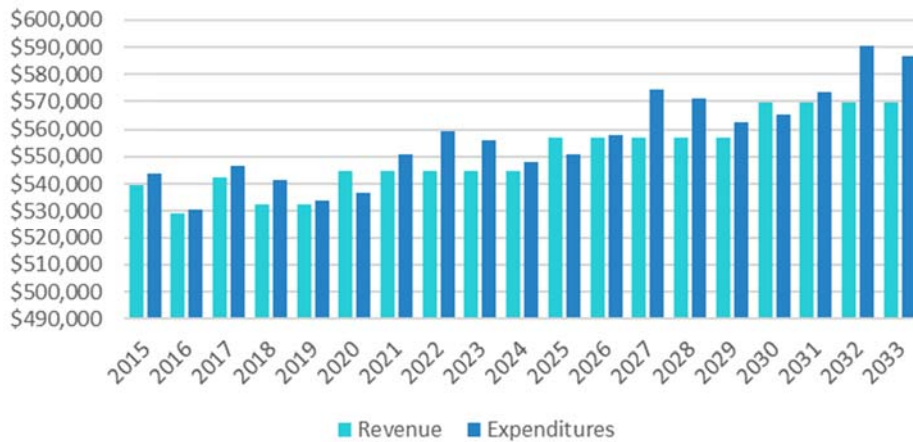
The District reserves the right to increase the designation fee, rate and charge and/or develop new funding mechanism if needed to maintain District programs to implement this Plan Update if funding becomes an issue.

The District has not included a specific projection for the above listed contingent funding options for this *Plan Update* as any adjustments made in the future will be made to match up with projected expenses to implement the *Plan Update*.

E. Summary of Costs and Revenues

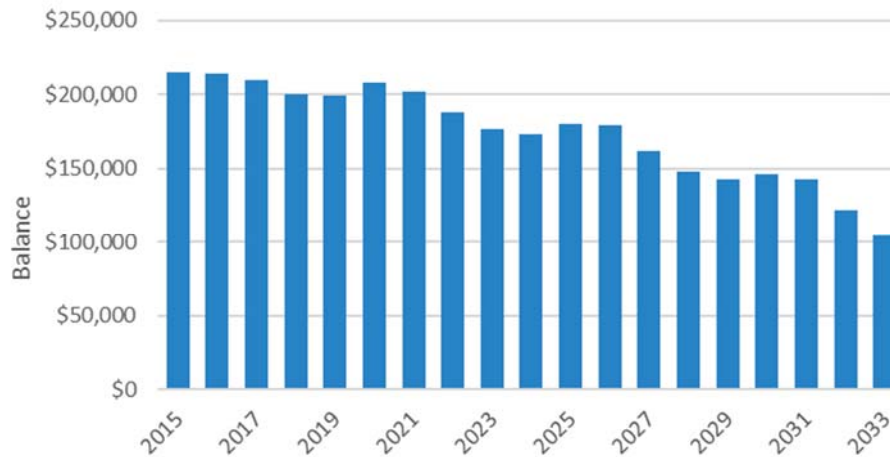
Table VIII-8, "Summary of District Revenues and Expenditures", includes the total revenue and annual costs for each program from the reference year through the end of the planning period. Revenue is projected to increase from \$532,746 in 2019 to \$569,568 in 2033. Expenditures in 2019 are projected to be \$533,828. Throughout the planning period, expenditures will average \$561,163 annually. The following figure presents the District's actual and projected revenue and expenditures from 2015 to 2033.

2015 – 2033 District Revenue and Expenditures



The District is projected to begin the planning period with a carryover balance of \$219,297 and conclude the planning period with a balance of approximately \$104,612. 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 2015 to 2033.

2014 – 2032 District Fund Balance



Plan Update Budget Demonstration Policy

The District has prepared the budget section of this *Plan Update* to meet the requirements in the Ohio Revised Code, Section 3734.53 (A)(13)(d):

The methods of financing implementation of the plan and a demonstration of the availability of financial resources for that purpose.

The budget tables prepared for this *Plan Update* demonstrates that the District has the financial funding throughout the planning period to implement the planned programs and initiatives.

Nothing contained in these budget projections should be construed as a binding commitment by the District to spend a specific amount of money on a particular strategy, facility, program and/or activity. The Board, with the advice and assistance of the District Coordinator, will review and revise the budget as needed to implement the planned strategies, facilities, programs and/or activities as effectively as possible with the funds available. Revenues, not otherwise committed to an existing strategy, facility, program or activity may be used to increase funding to improve the effectiveness of an existing strategy, facility, program or activity and to provide funding for a new strategy, facility, program or activity the Board concludes is justified based on the District Coordinator's recommendations and the content of this *Plan Update*.

The District reserves the right to revise the budget and reallocate funds as programs change or when otherwise determined to be in the best interest of the District.

The District is committed to implementing planned strategies, facilities, programs and/or activities in a cost-effective manner. The District is committed to improving the effectiveness and reduce the cost of all District strategies, facilities, programs and activities. The District Board is authorized to expend District funds among other uses included in the *Plan Update* when costs are reduced. Additionally, the Board is authorized to use reduced costs to provide grant funds or direct funding to evaluate, test and/or implement new strategies, facilities, programs and activities that are in compliance with this *Plan Update* are not a "material change in circumstance" regarding the implementation of this *Plan Update*.

**Table VIII-3
Summary of Revenue Generated and Mechanisms Used**

Year	Type of Revenue Mechanism and Amount Used							Total Revenue Generated
	Contract Fees	Rates and Charges (ORC 343.08)	Service Contracts	Recycling Revenue	Grants	Miscellaneous: User fees and compost		
2015	\$81,625	\$229,221	\$41,137.00	\$177,873	\$6,551	\$3,365	\$539,772	
2016	\$82,203	\$230,362	\$35,516.00	\$175,227	\$3,475	\$2,614	\$529,396	
2017	\$81,914	\$239,101	\$38,326.50	\$176,550	\$3,475	\$2,990	\$542,355	
2018	\$81,914	\$232,966	\$38,326.50	\$176,550	\$0	\$2,990	\$532,746	
2019	\$81,914	\$232,966	\$38,326.50	\$176,550	\$0	\$2,990	\$532,746	
2020	\$81,914	\$243,226	\$40,242.83	\$176,550	\$0	\$2,990	\$544,923	
2021	\$81,914	\$243,226	\$40,242.83	\$176,550	\$0	\$2,990	\$544,923	
2022	\$81,914	\$243,226	\$40,242.83	\$176,550	\$0	\$2,990	\$544,923	
2023	\$81,914	\$243,226	\$40,242.83	\$176,550	\$0	\$2,990	\$544,923	
2024	\$81,914	\$243,226	\$40,242.83	\$176,550	\$0	\$2,990	\$544,923	
2025	\$81,914	\$253,487	\$42,254.97	\$176,550	\$0	\$2,990	\$557,195	
2026	\$81,914	\$253,487	\$42,254.97	\$176,550	\$0	\$2,990	\$557,195	
2027	\$81,914	\$253,487	\$42,254.97	\$176,550	\$0	\$2,990	\$557,195	
2028	\$81,914	\$253,487	\$42,254.97	\$176,550	\$0	\$2,990	\$557,195	
2029	\$81,914	\$253,487	\$42,254.97	\$176,550	\$0	\$2,990	\$557,195	
2030	\$81,914	\$263,747	\$44,367.71	\$176,550	\$0	\$2,990	\$569,568	
2031	\$81,914	\$263,747	\$44,367.71	\$176,550	\$0	\$2,990	\$569,568	
2032	\$81,914	\$263,747	\$44,367.71	\$176,550	\$0	\$2,990	\$569,568	
2033	\$81,914	\$263,747	\$44,367.71	\$176,550	\$0	\$2,990	\$569,568	

Source(s) of Information: Records from District and County Auditor

**Table VIII-4
Anticipated Loans Secured by the District**

Year	Loans Obtained by the District		Interest Rate	Length of Loan	Annual Debt Service
	Lending Institution	Loan Amount			
2015	N/A	0	N/A	0	0
2016	N/A	0	N/A	0	0
2017	N/A	0	N/A	0	0
2018	N/A	0	N/A	0	0
2019	N/A	0	N/A	0	0
2020	N/A	0	N/A	0	0
2021	N/A	0	N/A	0	0
2022	N/A	0	N/A	0	0
2023	N/A	0	N/A	0	0
2024	N/A	0	N/A	0	0
2025	N/A	0	N/A	0	0
2026	N/A	0	N/A	0	0
2027	N/A	0	N/A	0	0
2028	N/A	0	N/A	0	0
2029	N/A	0	N/A	0	0
2030	N/A	0	N/A	0	0
2031	N/A	0	N/A	0	0
2032	N/A	0	N/A	0	0
2033	N/A	0	N/A	0	0

Table VIII-5
Estimated Costs for Plan Implementation

Description	Program #	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
District Administration Budget																					
Full-Time Staff Salaries	Admin-1	\$43,825	\$45,451	\$43,642	\$43,860	\$44,079	\$44,300	\$44,521	\$44,744	\$44,967	\$45,192	\$45,418	\$45,645	\$45,873	\$46,103	\$46,333	\$46,565	\$46,798	\$47,032	\$47,267	
Part-Time Staff Salaries	Admin-2	\$21,161	\$18,408	\$17,532	\$17,620	\$17,708	\$17,796	\$17,885	\$17,975	\$18,065	\$18,155	\$18,246	\$18,337	\$18,429	\$18,521	\$18,613	\$18,706	\$18,800	\$18,894	\$18,988	
PERS	Admin-3	\$38,262	\$39,478	\$39,748	\$39,947	\$40,147	\$40,347	\$40,549	\$40,752	\$40,956	\$41,160	\$41,366	\$41,573	\$41,781	\$41,990	\$42,200	\$42,411	\$42,623	\$42,836	\$43,050	
Medicare	Admin-4	\$4,155	\$4,123	\$3,999	\$4,019	\$4,039	\$4,059	\$4,079	\$4,099	\$4,120	\$4,141	\$4,161	\$4,182	\$4,203	\$4,224	\$4,245	\$4,266	\$4,288	\$4,309	\$4,331	
Medical Insurance	Admin-5	\$59,269	\$55,868	\$60,000	\$60,780	\$61,570	\$62,371	\$63,181	\$64,003	\$64,835	\$65,678	\$66,531	\$67,396	\$68,272	\$69,160	\$70,059	\$70,970	\$71,892	\$72,827	\$73,774	
Workers Compensation	Admin-6	\$3,634	\$4,042	\$4,039	\$4,059	\$4,080	\$4,100	\$4,120	\$4,141	\$4,162	\$4,183	\$4,204	\$4,225	\$4,246	\$4,267	\$4,288	\$4,310	\$4,331	\$4,353	\$4,375	
Unemployment Insurance	Admin-7	\$5,822	\$0	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Professional Services	Admin-8	\$0	\$3,552	\$16,000	\$10,448	\$0	\$0	\$4,000	\$17,000	\$11,000	\$0	\$0	\$4,500	\$18,000	\$11,500	\$0	\$0	\$5,000	\$19,000	\$12,000	
Subtotal		\$176,128	\$170,923	\$184,959	\$181,732	\$172,622	\$173,972	\$179,336	\$193,713	\$189,104	\$179,508	\$180,926	\$186,858	\$201,804	\$196,764	\$186,739	\$188,228	\$194,732	\$210,251	\$204,785	
Recycling Programs																					
Curbside Recycling: Staffing, 2 Full-Time		\$85,195	\$83,710	\$84,129	\$84,549	\$84,972	\$85,397	\$85,824	\$86,253	\$86,684	\$87,118	\$87,553	\$87,991	\$88,431	\$88,873	\$89,318	\$89,764	\$90,213	\$90,664	\$91,118	
Curbside Recycling: Access Routes, Staffing, 1 Part-Time		\$14,252	\$16,310	\$16,391	\$16,473	\$16,556	\$16,638	\$16,722	\$16,805	\$16,889	\$16,974	\$17,059	\$17,144	\$17,230	\$17,316	\$17,402	\$17,489	\$17,577	\$17,665	\$17,753	
Curbside Recycling: Township Routes, Staffing, 1 Part-Time	VW-1	\$8,148	\$6,995	\$7,030	\$7,065	\$7,101	\$7,136	\$7,172	\$7,208	\$7,244	\$7,280	\$7,316	\$7,353	\$7,390	\$7,426	\$7,464	\$7,501	\$7,538	\$7,576	\$7,614	
Curbside Recycling: Equipment (i.e. Trailer)		\$6,551	\$3,475	\$3,475	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Curbside Recycling: Truck Maintenance		\$32,207	\$27,557	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	
Yard Waste Management	VW-3	\$7,500	\$7,500	\$7,689	\$7,789	\$7,890	\$7,992	\$8,096	\$8,202	\$8,308	\$8,416	\$8,526	\$8,636	\$8,749	\$8,862	\$8,978	\$9,094	\$9,213	\$9,332	\$9,454	
Compost Facility Policies (Study)	VW-3.2	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Household Hazardous Waste (HHW) Collection (Paint processing)	VW-4	\$600	\$150	\$500	\$511	\$517	\$524	\$531	\$538	\$545	\$552	\$559	\$566	\$573	\$581	\$588	\$596	\$604	\$612	\$620	
Scrap Tire Collection	VW-5	\$2,472	\$432	\$500	\$507	\$513	\$520	\$527	\$533	\$540	\$547	\$554	\$562	\$569	\$576	\$584	\$591	\$599	\$607	\$615	
Electronics Recycling	VW-6	\$4,355	\$4,775	\$4,565	\$4,624	\$4,684	\$4,745	\$4,807	\$4,869	\$4,933	\$4,997	\$5,062	\$5,128	\$5,194	\$5,262	\$5,330	\$5,400	\$5,470	\$5,541	\$5,613	
Subtotal		\$161,280	\$150,995	\$154,161	\$151,400	\$152,115	\$152,835	\$161,060	\$154,290	\$155,025	\$155,765	\$156,511	\$157,262	\$158,018	\$158,779	\$159,546	\$160,318	\$161,096	\$161,879	\$162,668	
District Facilities																					
George E. Brake Recycling Center: Staffing		\$131,908	\$143,273	\$137,590	\$138,278	\$138,970	\$139,665	\$140,363	\$141,065	\$141,770	\$142,479	\$143,191	\$143,907	\$144,627	\$145,350	\$146,077	\$146,807	\$147,541	\$148,279	\$149,020	
George E. Brake Recycling Center: Maintenance		\$35,132	\$32,925	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	
George E. Brake Recycling Center: Miscellaneous		\$4,172	\$6,091	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	
George E. Brake Recycling Center: Contract Services		\$35,321	\$26,602	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	
Subtotal		\$206,534	\$208,891	\$207,712	\$208,400	\$209,092	\$209,787	\$210,485	\$211,187	\$211,892	\$212,601	\$213,313	\$214,029	\$214,749	\$215,472	\$216,199	\$216,929	\$217,663	\$218,401	\$219,142	
Totals		\$545,941	\$536,594	\$546,632	\$541,532	\$533,628	\$536,594	\$550,861	\$559,190	\$556,021	\$547,875	\$550,750	\$555,149	\$556,149	\$574,571	\$571,015	\$562,463	\$565,475	\$573,491	\$590,530	\$586,384

**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												\$219,297				
2015	\$539,772	\$0	\$543,941	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$543,941	\$215,128
2016	\$529,396	\$3,552	\$527,256	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$530,808	\$213,716
2017	\$542,355	\$16,000	\$530,832	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$546,832	\$209,239
2018	\$532,746	\$10,448	\$531,084	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$541,532	\$200,453
2019	\$532,746	\$0	\$533,828	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$533,828	\$199,371
2020	\$544,923	\$0	\$536,594	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$536,594	\$207,699
2021	\$544,923	\$4,000	\$546,881	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550,881	\$201,741
2022	\$544,923	\$17,000	\$542,190	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$559,190	\$187,473
2023	\$544,923	\$11,000	\$545,021	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$556,021	\$176,375
2024	\$544,923	\$0	\$547,875	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$547,875	\$173,423
2025	\$557,195	\$0	\$550,750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550,750	\$179,867
2026	\$557,195	\$4,500	\$553,649	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$558,149	\$178,913
2027	\$557,195	\$18,000	\$556,571	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$574,571	\$161,538
2028	\$557,195	\$11,500	\$559,515	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$571,015	\$147,718
2029	\$557,195	\$0	\$562,483	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$562,483	\$142,429
2030	\$569,568	\$0	\$565,475	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$565,475	\$146,522
2031	\$569,568	\$5,000	\$568,491	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$573,491	\$142,600
2032	\$569,568	\$19,000	\$571,530	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$590,530	\$121,638
2033	\$569,568	\$12,000	\$574,594	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$586,594	\$104,612

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 incurred pursuant to that section.

Table VIII-8
Summary of District Revenues and Expenditures

Description	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Beginning Balance	\$219,297	\$215,128	\$213,716	\$209,239	\$200,463	\$199,371	\$207,699	\$201,741	\$187,473	\$176,975	\$173,423	\$179,867	\$178,913	\$161,538	\$147,718	\$142,429	\$146,522	\$142,600	\$121,638
Revenues																			
Contract Fees	\$81,625	\$82,203	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914	\$81,914
Rates and Charges (ORC 343.08)	\$229,221	\$230,362	\$239,101	\$232,966	\$232,966	\$243,226	\$243,226	\$243,226	\$243,226	\$243,226	\$243,226	\$253,487	\$253,487	\$253,487	\$253,487	\$253,487	\$253,487	\$263,747	\$263,747
Service Contracts	\$41,137	\$35,516	\$38,327	\$38,327	\$38,327	\$40,243	\$40,243	\$40,243	\$40,243	\$40,243	\$42,255	\$42,255	\$42,255	\$42,255	\$42,255	\$44,368	\$44,368	\$44,368	\$44,368
Recycling Revenue	\$177,873	\$175,227	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550	\$176,550
Grants	\$6,551	\$3,475	\$3,475	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous: User fees and	\$3,365	\$2,614	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990
Total Revenue	\$539,772	\$529,396	\$542,355	\$532,746	\$532,746	\$544,923	\$544,923	\$544,923	\$544,923	\$544,923	\$557,195	\$557,195	\$557,195	\$557,195	\$557,195	\$569,568	\$569,568	\$569,568	\$569,568
District Administration Budget																			
Full-Time Staff Salaries	\$43,825	\$45,451	\$43,642	\$43,660	\$44,079	\$44,300	\$44,521	\$44,744	\$44,967	\$45,192	\$45,418	\$45,645	\$45,873	\$46,101	\$46,333	\$46,565	\$46,798	\$47,032	\$47,267
Part-Time Staff Salaries	\$21,161	\$18,408	\$17,620	\$17,620	\$17,708	\$17,796	\$17,885	\$18,065	\$18,245	\$18,425	\$18,605	\$18,785	\$18,965	\$19,145	\$19,325	\$19,505	\$19,685	\$19,865	\$20,045
PERS	\$38,262	\$39,478	\$39,748	\$39,947	\$40,147	\$40,347	\$40,547	\$40,747	\$40,947	\$41,147	\$41,347	\$41,547	\$41,747	\$41,947	\$42,147	\$42,347	\$42,547	\$42,747	\$42,947
Medicare	\$4,155	\$4,123	\$3,999	\$4,019	\$4,039	\$4,059	\$4,079	\$4,099	\$4,120	\$4,141	\$4,161	\$4,182	\$4,203	\$4,224	\$4,245	\$4,266	\$4,288	\$4,309	\$4,331
Medical Insurance	\$59,269	\$55,868	\$60,000	\$60,780	\$62,371	\$63,181	\$64,000	\$64,835	\$65,678	\$66,531	\$67,396	\$68,272	\$69,160	\$70,059	\$70,970	\$71,892	\$72,827	\$73,774	\$74,731
Workers Compensation	\$3,634	\$4,042	\$4,039	\$4,059	\$4,080	\$4,100	\$4,120	\$4,141	\$4,162	\$4,183	\$4,204	\$4,225	\$4,246	\$4,267	\$4,288	\$4,310	\$4,331	\$4,353	\$4,375
Unemployment Insurance	\$5,822	\$0	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Professional Services	\$0	\$3,552	\$16,000	\$10,448	\$0	\$0	\$4,000	\$17,000	\$11,000	\$0	\$0	\$4,500	\$18,000	\$11,500	\$0	\$0	\$5,000	\$19,000	\$12,000
Subtotal	\$176,128	\$170,923	\$184,959	\$181,732	\$172,622	\$173,972	\$179,336	\$193,713	\$189,104	\$179,508	\$180,926	\$186,858	\$201,804	\$196,764	\$186,739	\$188,228	\$194,732	\$210,251	\$204,785
Recycling Programs																			
Curbside Recycling: Staffing, 2 Full-Time	\$85,195	\$83,710	\$84,129	\$84,549	\$84,972	\$85,397	\$85,824	\$86,253	\$86,684	\$87,118	\$87,553	\$87,991	\$88,431	\$88,873	\$89,318	\$89,764	\$90,213	\$90,664	\$91,118
Curbside Recycling: Access Routes, Staffing, 1 Part-Time	\$14,252	\$16,310	\$16,391	\$16,473	\$16,556	\$16,638	\$16,722	\$16,805	\$16,889	\$16,974	\$17,059	\$17,144	\$17,230	\$17,316	\$17,402	\$17,489	\$17,577	\$17,665	\$17,753
Curbside Recycling: Township Routes, Staffing, 1 Part-Time	\$8,148	\$6,995	\$7,030	\$7,065	\$7,101	\$7,136	\$7,172	\$7,208	\$7,244	\$7,280	\$7,316	\$7,353	\$7,390	\$7,426	\$7,464	\$7,501	\$7,538	\$7,576	\$7,614
Curbside Recycling: Equipment (i.e. Trailer)	\$6,551	\$3,475	\$3,475	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Curbside Recycling: Truck Maintenance	\$32,207	\$27,557	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882	\$29,882
Yard Waste Management	\$7,500	\$7,590	\$7,689	\$7,789	\$7,890	\$7,992	\$8,096	\$8,202	\$8,308	\$8,416	\$8,526	\$8,636	\$8,749	\$8,862	\$8,978	\$9,094	\$9,213	\$9,332	\$9,454
Compost Facility Policies (Study)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Household Hazardous Waste (HHW) Collection (Paint processing)	\$600	\$150	\$500	\$511	\$517	\$524	\$531	\$538	\$545	\$552	\$559	\$566	\$573	\$581	\$588	\$596	\$604	\$612	\$620
Scrap Tire Collection	\$2,472	\$432	\$500	\$507	\$513	\$520	\$527	\$533	\$540	\$547	\$554	\$562	\$569	\$576	\$584	\$591	\$599	\$607	\$615
Electronics Recycling	\$4,355	\$4,775	\$4,565	\$4,624	\$4,684	\$4,745	\$4,807	\$4,869	\$4,933	\$4,997	\$5,062	\$5,128	\$5,194	\$5,262	\$5,330	\$5,400	\$5,470	\$5,541	\$5,613
Subtotal	\$161,280	\$150,995	\$154,161	\$151,400	\$152,115	\$152,835	\$161,060	\$154,290	\$155,025	\$155,765	\$156,511	\$157,262	\$158,018	\$158,779	\$159,546	\$160,318	\$161,096	\$161,879	\$162,668
District Facilities																			
George E. Brake Recycling Center: Staffing	\$131,908	\$143,273	\$137,590	\$138,278	\$138,970	\$139,665	\$140,363	\$141,065	\$141,770	\$142,479	\$143,191	\$143,907	\$144,627	\$145,350	\$146,077	\$146,807	\$147,541	\$148,279	\$149,020
George E. Brake Recycling Center: Maintenance	\$35,132	\$32,925	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028	\$34,028
George E. Brake Recycling Center: Miscellaneous	\$4,172	\$6,091	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132	\$5,132
George E. Brake Recycling Center: Contract Services	\$35,321	\$26,602	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962	\$30,962
Subtotal	\$206,534	\$208,891	\$207,712	\$208,400	\$209,092	\$209,787	\$210,485	\$211,187	\$211,892	\$212,601	\$213,313	\$214,029	\$214,749	\$215,472	\$216,199	\$216,929	\$217,663	\$218,401	\$219,142
Total Expenditures	\$543,941	\$530,808	\$546,832	\$541,532	\$538,828	\$536,594	\$539,881	\$543,900	\$547,999	\$552,109	\$556,229	\$560,349	\$564,469	\$568,589	\$572,709	\$576,829	\$580,949	\$585,069	\$589,189
Difference	\$4,169	\$1,412	\$4,477	\$8,768	\$1,082	\$8,329	\$5,959	\$14,268	\$11,099	\$2,952	\$6,445	\$5,062	\$5,194	\$5,262	\$5,330	\$5,400	\$5,470	\$5,541	\$5,613
Ending Balance	\$215,128	\$213,716	\$209,239	\$200,453	\$199,371	\$207,699	\$201,741	\$187,473	\$176,975	\$173,423	\$179,867	\$178,913	\$161,538	\$147,718	\$142,429	\$146,522	\$142,600	\$121,638	\$104,612

IX. District Rules [ORC Section 3734.53(C)]

The District reserves the right to adopt rules specifically authorized by the Ohio Revised Code (ORC). Section 343.01 (G) of the ORC provides the Board of County Commissioners with the authority to adopt, publish and enforce rules if the District Plan authorizes rule adoption under ORC Section 3734.53 (C). The District is authorized under this *Plan Update* to adopt rules under the following provisions of the ORC:

ORC 3734.53 (C)(1): Prohibiting or limiting the receipt at facilities located within the solid waste management district 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. However, rules adopted by a board under division (C)(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 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 directors' 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 out-of-state 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.

ORC 3734.53(C)(2) Governing the maintenance, protection, and use of solid waste collection and solid waste disposal, transfer, recycling, 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.

ORC 3734.53(C)(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.

ORC 3734.53(C)(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.

A. Existing Rules

The following rules have been adopted by the District.

Siting Authority

The District has adopted a Rule requiring that General Plans and Specifications for all proposals to construct any new Solid Waste Facility or modify any existing facility within the District be submitted to the Board for a determination by the Board of whether such General Plans and Specifications and the proposals comply with the Plan.

“No person, municipal corporation, township or other political subdivision, shall construct or modify any solid waste transfer, disposal, recycling or resource recovery facility until the general plans and specifications for the proposed improvement have been submitted to and approved by the Board as complying with the Plan or an exemption or waiver from this rule has been granted by the Board.”

Facility Designation

The Board of Directors of the Van Wert Solid Waste Management District is hereby authorized to establish facility designations in accordance with Section 343.014 of the Ohio Revised Code. The Board will designate facilities, pursuant to Section 343.014 of the Ohio Revised Code. On April 20, 1999, the District began a “flow control” program per ORC 343.014.

Waiver Process for Non-Designated Facilities

The District Board reserves the right, under special circumstances, to grant waivers allowing solid waste to flow to non-designated facilities during the planning period. The Board will review any waiver request and determine if granting the waiver, pursuant to 343.01 (I)(2) of the Ohio Revised Code, is consistent with the projections made in the Plan or adversely affects the District’s implementation or financing of the Plan.

B. Proposed Rules

The constantly changing legal landscape of the waste industry requires the District to reserve the right to use any rule-making authority available to the District.

The District reserves the right to promulgate any rule in 343.01 of the Ohio Revised Code to assist in implementing any or all strategies necessary to achieve the waste management goals of this Amended Plan including:

- Prohibiting or limiting the receipt of waste generated outside the District;
- Governing the maintenance, protection, and use of solid waste collection, transfer, disposal, recycling, or resource recovery facilities;
- Governing a program to inspect out-of-state waste; and
- Exempting an owner or operator of a solid waste facility from compliance with local zoning requirement.

C. Rule Approval Process

Proposed rules shall be adopted and enforced by the Board of Directors as provided in Section 343.01(G).



APPENDIX A

RESOLUTION FOR DISTRICT FORMATION





APPENDIX B

PUBLIC NOTICES FOR PUBLIC HEARING AND PUBLIC COMMENT



PUBLIC NOTICE
Van Wert COUNTY SOLID WASTE MANAGEMENT DISTRICT

Public Comment Period for Draft Solid Waste Management Plan Update

The Van Wert County Solid Waste Management District (District) is establishing a 30-day written comment period (February 5 – March 6, 2018) on the draft 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 budget and fees to finance the Plan, 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, and District rules.

This draft is an update to a previously approved solid waste plan. This Plan Update details existing programs including: Curbside Recycling, Drop-Off Recycling, Yard Waste Management, Household Hazardous Waste (HHW) Collection, Scrap Tire Collection, Electronics Recycling, Appliance Collection, Commercial Collection Program, Non-Profit Collection, Other R/C Collection Programs, Web Page and Internet Advertising, Recycling Center Tours, Environmental and Community Events, Other Education and Awareness Activities, Consulting Services and Recycling Process Training, Commercial/Industrial Focus in Newsletters, and the George E. Brake Recycling Center.

The draft Plan Update includes a demonstration of access to landfill capacity and determines there are more than fifteen years of landfill capacity available to the District. Based on the landfills used to manage waste generated in the District during the 2015 reference year for the planning period, landfills had an average life expectancy of more than 44 years.

Under this Plan, the Board of Commissioners is authorized to designate facilities in accordance with Section 343.014 and 343.015 of the Ohio Revised Code. The designated facilities in this Plan Update include nine landfills and two transfer stations. Additional facilities can be utilized if the Policy Committee approves a waiver for the facility.

The draft Plan Update includes existing District rules contained in Section IX. The District is not proposing to change existing rules or create new rules.

The draft Plan Update complies with State Plan Goal #1: Providing Access to Waste Reduction Opportunities. The District will continue to provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District primarily funds Plan programs, current operations, and its facility (the George E. Brake Recycling Center) through contract fees, rates and charges, service

contracts, recycling revenue, and miscellaneous sources. As of June 1, 2015, a contract fee of \$5.30 per ton was charged to all solid waste facilities that were designated by the District to receive District solid waste. Contract fees are not anticipated to increase for the remainder of the planning period (2033).

The District will hold a public hearing to obtain oral comments regarding the draft Plan Update on Tuesday, March 13, 2018, at 10:00 AM at the Van Wert County Commissioners office, 114 E. Main Street, Suite 200, Van Wert, Ohio 45891. The District's Policy Committee will meet after the hearing to consider public comments and then to adopt the plan.

The District will accept written comments as required by Ohio Revised Code Section 3734.55 on the draft Plan Update from February 5, 2018 until March 6, 2018. Written comments should be sent to Mr. Jeff Harmon, Van Wert County Solid Waste Management District, 1135 North Washington Street, Van Wert, Ohio 45891

The draft Plan Update is available for review on the District's website at <http://recyclevw.org/>, and at the following locations during normal business hours:

- Van Wert County Solid Waste Management District, 1135 North Washington Street, Van Wert, Ohio 45891
- Van Wert County Commissioners Office, 114 E. Main Street, Suite 200, Van Wert, Ohio 45891.

Please contact the District at 419-238-7767 with any questions about the Plan Update.

Public Hearing Notice

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- Van Wert County Commissioners Office, 114 E. Main Street, Suite 200, Van Wert, Ohio 45891.

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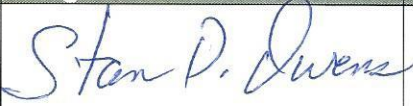

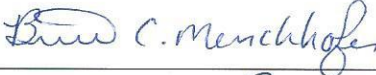


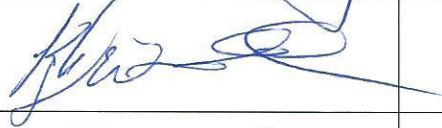

APPENDIX C

**RESOLUTIONS AND CERTIFICATION
STATEMENTS**



CERTIFICATION STATEMENT FOR THE DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee (SWMPC) of the Van Wert 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		
Largest City		
Health District		
Townships		
Industry		
General Interest of Citizens		
Public		
Total Votes	7 (4-3-17)	



APPENDIX D

**IDENTIFICATION OF CONSULTANTS RETAINED
FOR PLAN PREPARATION**



Identification of Consultants for Plan Preparation



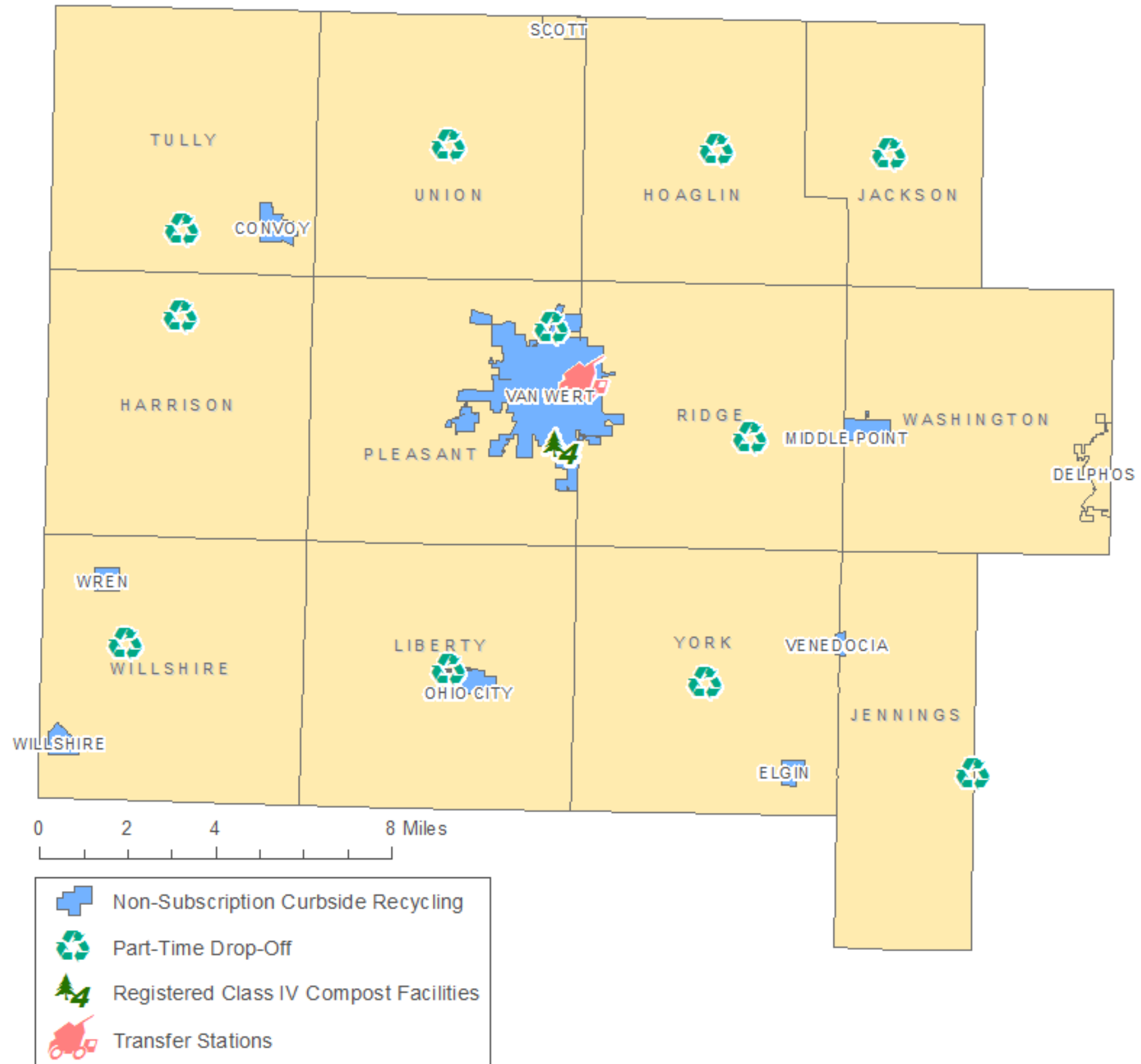
Consulting Firm: **GT Environmental, Inc.**
635 Park Meadow Road
Suite 112
Westerville, Ohio 43081

Project Manager: **James A. Skora**
Senior Manager
(330) 689-1105
(330) 688-6211 Fax



APPENDIX E
DISTRICT MAP







APPENDIX F

INDUSTRIAL SURVEY RESULTS



Appendix F
Van Wert 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	277.8	-	-	-	-	-	-	-	-	4.6	-	-	-	-	204.1	-	-	-	-	486.4
Paper	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	33.4	-	-	-	-	36.4
Cloth & Fabrics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.2	-	-	-	-	15.2
Wood	-	-	-	-	-	-	-	-	-	7.0	-	-	-	-	103.6	-	-	-	-	110.6
Ferrous Metals	18.1	-	-	-	-	-	-	-	-	-	-	2.0	-	9,480.0	4,021.2	-	-	-	-	13,521.3
Non-Ferrous Metals	1.1	-	-	-	-	-	-	-	-	-	-	0.1	-	-	17.9	-	-	-	-	19.1
Plastic	10.2	-	-	-	-	-	-	-	-	155.0	-	-	-	-	17.3	-	-	-	-	182.5
Food	772.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	772.0
Misc.	-	-	-	-	-	-	-	-	-	-	-	44.5	-	-	21.5	-	-	-	-	66.0
Total	1,082.2	-	-	-	-	-	-	-	-	166.6	-	46.6	-	9,480.0	4,434.0	-	-	-	-	15,209.4

Source(s) of information:
 CY 2015 Industrial Survey Responses

Appendix F
Van Wert 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	277.8	-	-	-	-	-	-	-	-	4.6	-	-	-	-	204.1	-	-	-	-	486.4
Paper	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	33.4	-	-	-	-	36.4
Cloth & Fabrics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.2	-	-	-	-	15.2
Wood	-	-	-	-	-	-	-	-	-	7.0	-	-	-	-	103.6	-	-	-	-	110.6
Ferrous Metals	18.1	-	-	-	-	-	-	-	-	-	-	2.0	-	9,480.0	4,021.2	-	-	-	-	13,521.3
Non-Ferrous Metals	1.1	-	-	-	-	-	-	-	-	-	-	0.1	-	-	17.9	-	-	-	-	19.1
Plastic	10.2	-	-	-	-	-	-	-	-	155.0	-	-	-	-	17.3	-	-	-	-	182.5
Food	772.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	772.0
Misc.	-	-	-	-	-	-	-	-	-	-	-	44.5	-	-	21.5	-	-	-	-	66.0
MSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,082.2	-	-	-	-	-	-	-	-	166.6	-	46.6	-	9,480.0	4,434.0	-	-	-	-	15,209.4

Source(s) of information:
 CY 2015 Industrial Survey Responses



APPENDIX G

SAMPLE DESIGNATION AGREEMENT



DESIGNATION AGREEMENT

THIS DESIGNATION AGREEMENT, made on the 20th day of April 2004, by and between the Board of County Commissioners of Van Wert County, Ohio (the "Board"), in its capacity as the Board of Directors of the Van Wert County Solid Waste Management District, 114 East Main Street, Van Wert, Ohio 45891-1704 (hereinafter called the "District"), and

NATIONAL SERV-ALL, INC

6231 MACBETH RD., FORT WAYNE IN 46809
(Company Name and Address)

(hereinafter called the "Contractor"), is for furnishing all labor, equipment and expenses and site required to be a Designated Facility for the District, and to receive and dispose of or transfer Solid Waste generated within the District at the following facility known as

NATIONAL SERV-ALL LANDFILL

located at 6231 MACBETH RD. FORT WAYNE IN
(hereinafter called the "Contractor's Facility").

NOW, THEREFORE, the District and Contractor for the consideration hereinafter set forth, agree as follows

I. DEFINITIONS

- A. The terms "Board", "District," "Contractor," and "Contractor's Facility" shall have the meaning set forth above.
- B. "Solid Waste" means all unwanted material generated within the District which may be accepted by a properly licensed and permitted solid waste facility for disposal or transfer. Solid Waste does not include any material that is:
1. a hazardous waste or infectious waste as those terms are defined by Ohio EPA;
 2. material from construction or demolition operations that is delivered to a facility licensed and/or permitted pursuant to Chapter 3714 of the Ohio Revised Code or equivalent regulations of the Indiana Department of Environmental Management ("IDEM") or other state having regulatory jurisdiction over the Contractor's Facility;
 3. scrap tires that are delivered to a scrap tire facility that is licensed or registered by Ohio EPA or IDEM;

4. source-separated yard waste that is delivered to a compost facility licensed or registered by Ohio EPA or IDEM; or
5. source-separated recyclables that are delivered to a legitimate recycling facility.

The term "Solid Waste" includes, however, any of the materials described in (B)(2) through (B)(5) above, when they are delivered to a solid waste transfer or disposal facility for disposal in a solid waste disposal facility.

II. TERM

The Contractor shall commence performance of the obligations of this Designation Agreement on April 20, 2004, and shall continue for a five (5) year term which expires on April 19, 2009. This Designation Agreement may be extended for an additional five (5) year term by the mutual written agreement of parties hereto. Either party may cancel or terminate this Designation Agreement for any reason upon ninety (90) days' written notice to the other party.

III. DISTRICT'S DESIGNATION OF CONTRACTOR'S FACILITY

In consideration of the services to be provided by the Contractor hereunder, the District hereby designates the Contractor's Facility pursuant to Section 343.014 of the Ohio Revised Code, as now existing or hereafter amended, as a solid waste facility authorized to receive Solid Waste generated within the District for disposal or transfer.

IV. CONTRACTOR'S OBLIGATIONS

In consideration of the District's designation of the Contractor's Facility, the Contractor agrees to:

- A. Maintain valid and enforceable solid waste facility licenses and permits issued by the State and local political subdivision(s) possessing regulatory jurisdiction over the Contractor's Facility. In addition, the Contractor shall perform and complete in a workmanlike manner all work required to operate and maintain the Contractor's Facility in compliance with all applicable federal, state and local laws. The Contractor agrees to accept any Solid Waste generated within the District which may be delivered to the Contractor's Facility during the term of this Designation Agreement.
- B. The Contractor agrees to charge and collect on behalf of the District a Contract Fee of Five and 30/100 Dollars (\$ 5.30) per ton of Solid Waste generated within the District that is received at the Contractor's Facility during the term of this Designation Agreement. If the Contractor's Facility charges its customers on the basis of cubic yards, the Contractor may charge and collect the District Contract

Fee on the basis of a conversion factor of three (3) cubic yards equals one (1) ton unless, in the District's discretion, because of compaction or other circumstances, a conversion factor of less than three cubic yards per ton is appropriate. At the end of each calendar month, the Contractor shall submit to the District a monthly certified Contract Fee statement, on a form prescribed by the District, in which the Contractor shall separately and accurately identify the tonnage (expressed in tenths of a ton) or volume (expressed in increments of one-third (1/3) of a cubic yard) of Solid Waste generated within the District that was delivered to the Designated Facility during the preceding calendar month, and the amount of the District Contract Fee required to be charged on that tonnage. The Contractor shall forward payment to the District of the amount of the Contract Fee identified in the monthly report at the same time the Contractor submits the monthly report. The District reserves the right to increase or decrease the amount of the Contract Fee during the term of the Designation Agreement. In the event that the District changes the amount of the District Contract Fee, the Contractor shall commence charging and collecting the increased or decreased District Contract Fee on the first day of the second month following the District's notification to the Contractor of the changed fee amount, and shall forward a certified Contract Fee statement and payment of the new Contract Fee to the District in accordance with the procedures described above.

- C. The Contractor shall require persons delivering Solid Waste delivered to the Contractor's Facility to declare at the time of delivery, the tonnage or, if the Contractor's Facility charges its customers on the basis of cubic yards, the volume, of Solid Waste generated within the District that is contained within each load of Solid Waste that is delivered to the Contractor's Facility. The Contractor's Facility shall make a written record of all such declarations, and maintain such records at the offices at the Contractor's Facility for a minimum of three years.
- D. The Contractor's failure to accurately state in the monthly certified Contract Fee statement the tonnage or volume of all Solid Waste generated within the District received by the Contractor's Facility as provided herein, or the Contractor's failure to make timely payment of the Contract Fee as provided herein, shall constitute a default by the Contractor for which the District may terminate this Designation Agreement, in addition to any other rights or remedies the District may possess under law or equity.
- E. The Contractor shall be responsible for charging and obtaining payment of all facility rates and charges for disposal, transfer or other Solid Waste handling services at the Contractor's Facility, as well as all local, state or federal governmental fees and taxes that are legally established. All such facility rates and charges, and fees and taxes shall be paid by the person or entity delivering Solid Waste to the Designated Facility. The District shall have no responsibility or liability for the payment of such rates, charges, fees or taxes. The District shall not be responsible for the payment of any such fees.

V. DISTRICT'S RIGHTS TO VERIFY INFORMATION

In order to verify the accuracy of information submitted by the Contractor in its monthly Certified Fee reports to the District, the District may, upon making at least one days' advance written request to the Contractor's Facility, be permitted to have a District employee examine and copy during normal business hours, at the District's expense, records maintained by the Contractor's Facility regarding Solid Waste delivered to the Contractor's Facility, including, but not limited to weight slips and receipts, logs and other records concerning volumes of Solid Waste transported into or out of the Contractor's Facility, the identification of the hauler or hauling company and vehicle that transported such Solid Waste, and such other records that enable the District to verify the information contained in the monthly Certified Fee reports. In complying with this paragraph, the Contractor shall not be required to disclose the amount of any non-governmental tipping fees and facility charges it invoices or collects for services that are provided at the Contractor's Facility.

VI. MISCELLANEOUS

- A. The Contractor may not sell, assign, delegate or otherwise transfer the Contractor's obligations hereunder without the advance written consent of the District.
- B. This Designation Agreement shall be binding upon and shall inure to the benefit of the parties hereto, and their successors, respective heirs, personal representatives, and assigns.
- C. No waiver, discharge or renunciation of any claim or right of the District arising out of breach of this Agreement by the Contractor shall be effective unless in writing and signed by the Board.
- D. During the term of this Agreement, Contractor shall not commence any litigation or otherwise challenge the District's designations, fees, rules, solid waste management plan, or this Agreement, unless such litigation or challenge is based upon an alleged breach of this Agreement by the District. The District shall not commence any litigation against Contractor during the term of this Agreement unless such litigation is based upon an alleged breach of this Agreement by the Contractor.
- E. In the performance of this Agreement, Contractor shall act solely as an independent contractor, and nothing contained herein, either express or implied, shall be construed to create the relationship of employer/employee, partnership, principal and agent, or joint venturers between the District and Contractor.
- F. This Designation Agreement shall constitute the entire understanding between the parties hereto relating to the matters herein contained.

- G. No amendments or variations of the terms and conditions of this Designation Agreement shall be valid unless the same are in writing and signed by all the parties hereto.
- H. This Designation Agreement shall be construed and enforced pursuant to the laws of the State of Ohio.

IN WITNESS WHEREOF, the parties have duly executed this Designation Agreement in duplicate originals the date and year first above written.

BOARD OF COMMISSIONERS OF
VAN WERT COUNTY, OHIO

By: *[Signature]*
[Signature]

Larry E. Clouse
County Clerk

FORM APPROVED:

[Signature]
Attorney for the Board

CONTRACTOR: NSA - Landfill

By: *Robert D. Walls*
Name
2-2-04
Title

ROBERT D. WALLS
GENERAL MGR.
LANDFILL DIV.